NEW GOLD RAINY RIVER MINE
APPENDIX A
GEOCHEMICAL MONITORING PLAN AND RESULTS

NEW GOLD RAINY RIVER MINE
APPENDIX A.1
GEOCHEMICAL MONITORING PLAN

RAINY RIVER PROJECT

CONSTRUCTION AND OPERATION PHASES GEOCHEMICAL MONITORING PLAN

PER ENVIRONMENTAL COMPLIANCE APPROVAL

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1.0 PROJECT BACKGROUND

New Gold Inc. (New Gold) is planning to construct, operate and eventually reclaim a new open pit and underground gold mine, the Rainy River Project (RRP) to produce doré bars (gold with silver) for sale. Physical works related to the RRP will consist primarily of:

- Open pit;
- Underground mine;
- Overburden, mine rock and low grade ore stockpiles;
- Primary crusher and process plant;
- Tailings management area;
- 230 kilovolt transmission line;
- Relocation of a portion of gravel-surfaced Highway 600; and
- Associated buildings, facilities and infrastructure.

During the construction phase of the project in broad terms the following activities will involve disturbance of overburden or rock:

- Pre-stripping of the open pit in preparation for production mining;
- Extraction of sand and gravel from the Roen Road Pit and production of crushed rock from the Tait Quarry and Outcrop 3 Quarry;
- Road construction including the East Access Road and realignment of Highway 600;
- Preparation and construction of water management structures / dams;
- Levelling and grade preparation for the plant site and foundation preparation for site buildings; and
- Excavation and establishment of diversion channels.

The operation phase of the project will include the following activities involving the disturbance of overburden or rock:

- Continued stripping of the open pit in support of production mining;
- Placement of overburden and rock in the mine stockpiles;
- Production mining from the open pit and eventually, underground mine

- Potential for ongoing extraction of sand and gravel from the Roen Road Pit and production of crushed rock from the Tait Quarry and Outcrop 3 Quarry; and

- Raising of existing water management structures / dams.

An extensive mine rock characterization study related to the future open pit has been conducted along with additional targeted investigations of the quarry sites (including Tait Quarry and Outcrop 3 Quarry), the plant site, and the Stockpile Pond Diversion Channel. In addition, a mine rock and overburden management plan was developed for the RRP Environmental Assessment (EA 05-09-02) and Closure Plan (EAIMS 13102):

- Final Environmental Assessment Report (Environmental Impact Statement), Version 2, Rainy River Project, Township of Chapple, Ontario (AMEC 2014a).

- Closure Plan, Rainy River Project, Version 1 (Amec Foster Wheeler 2015).

With respect to overburden materials, only the generally coarse grained Labradorean age Whiteshell till has been identified with a possibility of containing potentially acid generating (PAG) material, and then only when in the proximity of mineralized bedrock. Based on investigations to date, the till is expected to be encountered at depth (>5 m) which will generally limit the locations were this material will be encountered; although where shallow bedrock is present, limited near surface exposures could be present. In short, coarse till materials within approximately 3 m of bedrock surface represent some risk of acidic drainage and require consideration in terms of geochemical monitoring.

2.0 PURPOSE AND SCOPE OF MONITORING PLAN

Through the environmental approvals process for construction and operation of the RRP, New Gold is required to prepare a number of plans for submission to the Ministry of the Environment and Climate Change (MOECC). Version 1 of this document was prepared to satisfy the requirement per Environmental Compliance Approval (ECA) 5781-9VJQ2J Condition 10 (10), for a geochemical monitoring plan to be followed to characterize non-ore mine rock (hereafter mine rock) and overburden resulting from the construction phase of the RRP. The ECA condition states the following:

> *The Owner shall submit a Geochemical Monitoring Plan to the District Manager for approval within thirty (30) days of issuance of this Approval. This plan shall assess the potential acid generating conditions of all materials extracted during the construction phase, either as mine waste rock or to be used for construction purposes, such that these materials can be handled appropriately.*

This approval was issued on May 8, 2015 and the plan was provided to the MOECC prior to June 7, 2015.

The plan was subsequently revised and re-issued as Version 2, to address the requirements of ECA 5178-9TUPD9 issued on September 1, 2015 as follows:

> *The Owner shall submit a Geochemical Monitoring Plan to the District Manager for approval within thirty (30) days of issuance of this Approval. This plan shall assess the potential acid generating conditions of all materials extracted during the construction and operations phases, either as mine waste rock or to be used for construction purposes, such that these materials can be handled appropriately.*

The document has subsequently been revised and re-issued as Version 3, to address several comments provided by MOECC dated December 11, 2015.

This plan is intended to fulfill New Gold's obligation to appropriately identify and manage PAG mine rock and overburden for the RRP during construction and preproduction phases of the project. Construction of the RRP will occur over a period of approximately 30 months (second quarter 2015 through 2017).

Accordingly, this plan has been developed to monitor all overburden and rock materials extracted by the project where PAG material has been identified or could be present and incorporates existing investigation findings where available. The plan also includes guidance on minimum monitoring requirements for any excavation of rock or overburden to be conducted at the site during construction.

It is envisioned that the geochemical monitoring plan will evolve over the life of the RRP and be revised, as additional site specific data is collected and interpreted. Additional monitoring requirements related to underground mining will be developed at a later date and prior to initiation of underground mine development.

For the purposes of this Geochemistry Monitoring Plan, suitably trained and supervised personnel are defined as appropriately trained New Gold geologists or engineers, or another person suitably trained and supervised in the action or procedure by such New Gold geologist or engineer.

3.0 ACID ROCK DRAINAGE STANDARDS AND CRITERIA

3.1 Applicable Standards in Ontario

The approach and methodology for the collection and characterization of overburden and Mine rock materials is based upon the requirements described under the Ontario *Mining Act*; namely guidance found within the document:

- DRAFT Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Mine sites in British Columbia (Price 1997) which has been updated in the document Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials (MEND 2009).

The MEND (2009) document represents best practice and industry standard approaches and methodologies for metal leaching / acid rock drainage (ML/ARD) sampling and characterization in Canada.

The standards for characterization, segregation and management of PAG rock for the RRP have been established based on site specific studies and best practices that are detailed in the Closure Plan and in accordance with Ontario standards.

3.2 PAG Rock Criteria

For the RRP a threshold of neutralization potential ratio of less than two (NPR <2) has been established previously to identify PAG rock:

- Mine Rock and Overburden Management Plan, Rainy River Project (AMEC 2014b).

For the open pit a further categorization of PAG rock has been developed on the basis of inferred time to acid onset (time to neutralization potential; NP depletion) as identified in Table 1.

Table 1: NP Threshold Values for Open Pit PAG Subdivision

PAG Class	Depletion of NP Years	Available NP* Threshold kg $CaCO_3$/t
PAG 1	<5	12.5
PAG 2	5 to 15	19
PAG 3	>15	>19

*Available NP = Measured Sobek NP minus 10 kg $CaCO_3$/t to account for assumed unavailable

4.0 OVERBURDEN GEOCHEMICAL MONITORING REQUIREMENTS

The overburden geochemical monitoring plan includes the following:

- Overburden excavation / management activities exempt from monitoring;
- A minimum monitoring requirement applicable to any excavation;
- Monitoring requirements for the Roen Road Pit; and
- Monitoring requirements where the potential for management of PAG overburden (inferred PAG in Whiteshell till) has already been identified.

In the event Whiteshell till material is identified it will be managed as PAG material, with tracking and documentation of appropriate onsite disposal.

4.1 Overburden Excavation Activities Exempt from Monitoring

The intent of the Geochemical Monitoring Plan is to identify and monitor overburden materials that represent a risk of ARD if disturbed and exposed to air. The following activities are considered low risk and are therefore exempt from overburden monitoring requirements:

- Topsoil stripping; and
- Narrow strip excavations (such as utilities and footings) where excavated overburden material will be backfilled in place.

Excess material from stripping (excavations) that requires removal with final placement at surface including stockpiles, is subject to minimum monitoring overburden requirements described in Section 4.2.

4.2 Minimum Overburden Monitoring Requirements

During construction, any excavation of overburden (with the exception of exclusions identified in Section 4.1) is subject to the following requirements to be conducted by suitably trained and supervised personnel:

- Review of excavation plans to confirm size, location and depth of planned excavation.
- Review of available geology information in proximity to the planned excavation to assess the presence of mineralized bedrock.

- Review of available surficial geology information in proximity to the planned excavation especially in terms of depth to bedrock and previously mapped or logged surficial geology.

- Where data is sufficient to reasonably rule out the possible presence of Whiteshell till or identify bedrock at more than 2 m below the maximum excavation depth, this will be supported by at least one documented inspection of the open excavation during the work to confirm Whiteshell till was not encountered.

- Where data is insufficient to reasonably rule out the possible presence of Whiteshell till within the planned excavation, the excavation will be monitored visually at a frequency or tonnage commensurate with progress to identify and document if Whiteshell till is encountered in the excavation.

- Where Whiteshell till is identified in the excavation, it will be handled and managed as PAG overburden material unless investigation is completed to confirm the material is non-potentially acid generating (NPAG) material.

- In the absence of a testing program, Whiteshell till will be visually segregated on the basis of textural contrast with the finer overlying material (consistent with previous investigations and testing results) and managed accordingly as PAG material.

- Quantities of Whiteshell till managed as PAG will be recorded and their storage in PAG management areas documented.

Note it is presently considered that the Whiteshell till material will be limited in extent in planned excavations and as a result, it is not cost effective to sample, analyse and segregate PAG from NPAG material for this unit. In the event that quantities dictate otherwise, a standard operating procedure and testing program will be developed to support such segregation. Such a testing program, if implemented, could take the form of sampling of the Whiteshell till material with ABA screening by carbon and sulphur analyses. Alternately testing could involve temporary stockpiling of the Whiteshell till material with sampling and routine ABA analysis.

4.3 Roen Road Pit Overburden

Amec Foster Wheeler has identified no concern regarding the potential for presence of PAG material within sand and gravel of the Roen Road Pit. On this basis, monitoring for the Roen Road Pit will include visual inspection at a frequency commensurate with the excavation progress and the risk of exposing PAG material. In the event any concerns are identified through visual inspection, additional testing and evaluation will be completed; and if appropriate, the minimum monitoring requirements identified in Section 4.2 will be applied.

4.4 Open Pit Overburden

The monitoring plan for overburden within the open pit will follow all requirements identified in Section 4.2 with the exception that previous investigations have already identified the presence of possible PAG material as Whiteshell till. Monitoring can be guided by available geological and geochemical investigations already completed.

4.5 Preparation of Mine Rock Stockpiles

Ditching and related activities required for the construction of the East and West Stockpiles will follow all requirements identified in Section 4.2.

5.0 MINE ROCK GEOCHEMICAL MONITORING PLAN

The mine rock monitoring plan includes the following:

- A generic monitoring requirement for excavation of bedrock where insufficient or no previous characterization has been conducted to confirm or refute the presence of PAG rock;

- A minimum on-going monitoring requirement applicable to any blasting and excavations with a low risk of PAG as defined by previous investigations and sampling; and

- Specific monitoring requirements for previously investigated project components.

Sampling conducted in support of this geochemistry monitoring plan will be carried out by suitably trained and supervised personnel following accepted technical practices.

For sampling of blast hole cuttings which are integral to both production and environmental sampling, the following approach is defined:

- For each blast hole to be sampled, a channel sample of cuttings will be collected by a suitably trained and supervised person, and placed in a labelled plastic rock bag; and

- Following sample collection, the sample will be either immediately placed into the sample queue for analysis under chain of custody, or placed on the drill hole marker (red hat placed in the drill collar) and picked up twice daily by a member of the New Gold geology team for placement in sample queue and chain of custody for analysis.

Any unanticipated sampling challenges will be documented by New Gold geologists or engineers, along with the means to mitigate and avoid in the future if applicable.

5.1 Generic Bedrock Geochemical Monitoring (Areas Not Investigated)

During construction, any blasting and/or excavation of bedrock sources not previously investigated (Sections 5.3 to 5.6 provide monitoring requirements for previously investigated areas) is subject to the following requirements that are to be conducted under the direction of suitably trained and supervised personnel:

- Review of excavation plans to confirm size, location and depth of planned excavation into bedrock.

- Review available bedrock geology and geochemical information in proximity to the planned excavation especially in terms of lithology, potential for sulphide mineralization, inspection of any detailed core logs and availability of previous geochemical testing.

- Conduct a reconnaissance geological inspection of surface outcrop or exposed subcrop and submit grab rock samples for geochemical testing (including visual worst case sampling) of at least one sample from each distinct lithological unit.

- Where excavations are to extend to more than 3 m below bedrock surface or where surficial cover limits surface inspection and sampling; drilling and sampling will be completed with sample selection, review and interpretation of results.

- Where investigations are completed and indicate a low potential for PAG rock, geochemical monitoring will proceed as described in Section 5.2.

- Where PAG rock is confirmed to be present or where screening investigations cannot be completed due to construction time constraints; sampling and analysis of blast hole cuttings or excavated rock will be completed for each blast hole drilled or at most every 2,000 m^3 of material produced.

- Segregation and management of PAG materials will be directed by the testing results as interpreted by suitably trained and supervised personnel or per a plan prepared by suitably trained and supervised personnel.

- Quantities of PAG rock managed will be recorded and their management in appropriate PAG management areas documented.

5.2 Minimum Bedrock Monitoring Requirements (Low Risk of PAG)

Bedrock excavations that have been identified at the lowest risk for the presence of PAG material on the basis of previous geochemical investigation and sampling (Section 5.1), will be subject to the following minimum on-going monitoring by suitably trained and supervised personnel:

- For each active excavation, suitably trained and supervised personnel will routinely confirm continuity of observed geology with that described in characterization investigations, and conduct a more formal visual inspection with collection of a representative sample of each distinct lithology at every 100,000 cubic metres (m^3) of material moved; and

- Photograph and document conditions at the time of the detailed assessment.

If unexpected sulphide mineralization not observed in prior investigations is encountered, suspect material will be left in place or stockpiled pending further assessment by suitably trained and supervised personnel.

5.3 Crushed Rock from Quarries

Available ML/ARD investigations for the Tait Quarry and Outcrop 3 Quarry have determined that there is low potential to encounter PAG material in development of these sources. Therefore, these sources will be subject to the minimum monitoring requirements specified in Section 5.2.

In the event additional quarries or aggregate sources are identified or the quarry designs change significantly with respect to aerial extent or depth, the requirements specified in Section 5.1 will apply.

5.4 Open Pit Mine Rock

Segregation of mine rock will be based on management of acid generation potential. Metal leaching in the absence of acidic conditions appears to be of minimal concern for the RRP mine rock wastes based on all testing to date.

Open pit mining at the RRP will follow the standard practice of an open pit operation, with a conventional drill and blast, load and haul cycle. The mine rock produced by the pit excavation will be segregated into either PAG or NPAG rock. The methodologies used will be the same that are employed for ore / waste grade control during operations.

Prior to the blast, blast hole cuttings will be sampled and analysed to confirm the geochemistry of the mining block. Mine rock blast holes will be spaced on a 7.0 m x 7.5 m pattern and a 10 m bench height. Sample collection protocols will follow those used for grade control, with subsamples collected from the cuttings surrounding the completed blast holes.

Blast hole subsamples will be analysed for total sulphur and inorganic carbon using an onsite instrumentation to generate surrogate AP and NP values and guide definition of PAG and NPAG rock for appropriate management.

During mine planning the ARD block model will be merged with the mine plan to classify the mine rock into the following categories and schedule its blasting and excavation from the pit:

- Ore;
- Low Grade Ore;
- NPAG mine rock;
- PAG 1 waste;
- PAG 2 waste; and
- PAG 3 waste.

The distribution of these material types will be determined for each blast (dig limits) and compared against the results of the blast hole sampling for confirmatory purposes prior to haulage. Dig limits will be defined using the same protocols as those used for grade control. Blast hole sampling results for ARD parameters (NP and AP derived from the carbon and sulphur analysis) will be provided to the mine geology department for calculation of NPR values for each blast hole and incorporation of this information into the grade control database. This information will be used to determine the dig limits of the mining blocks as: ore, low grade ore, or waste. Waste block dig limits will be further subdivided into NPAG, PAG 1, PAG 2 and PAG 3. Results from the mapping of these ore and waste categories will be transferred to the mine survey so that the dig limits can be mapped onto each individual blast pattern.

To track the removal and placement of mine rock, daily shift reports will be completed that describe the materials moved (by truck counts) from the pit to the stockpiles, or other locations on site. This information will be maintained in a database and used to cross check material inventories/volumes generated from the ARD block model and mine plan, plus as-built surveys of the mine rock stockpiles.

On a monthly basis, a comparison of the blast hole Leco analysis for C and S will be compared against the replicate samples analysed for ABA parameters (Section 6.0 and 7.2). These results will be used to improve the segregation of PAG and NPAG rock based on the on-going surrogate analyses. Based on analytical experience, the replicate ABA analysis may be reduced to a subset of ABA indicator parameters as supported by review of the on-going results.

The information collected from these confirmatory steps will be compiled and reported annually and reviewed to validate/correct the ML/ARD predictions and the ARD block model results. Where applicable, improvements to optimize the mine rock management plan will be identified and implemented. The frequency of duplicate checks and verification against the block model may be reduced as experience is gained with on-going sampling.

The above description reflects monitoring in close proximity to ore where segregation is expected to be complex. For regions of the RRP open pit away from the ore, the complexity in mine rock management may be substantially less. It is expected that experience gained with the block model and on-going testing will support establishing a reduced frequency of blast hole testing particularly in certain areas of the pit. Based on this experience, a standard operating procedure will be developed to guide blast hole sampling density requirements and methods that may vary by area within pit development.

Management of PAG rock within the pit will be in accordance with the open pit mine rock management plan.

Only NPAG rock defined on the basis of methods outlined above would be deemed suitable for use as site construction aggregate, with the exception that PAG may be used under the following condition as agreed to through the Environmental Assessment process:

- Environmental Commitment #25: PAG material would only be used for fill material in areas where it can be maintained in a saturated state to exclude oxygen and inhibit Sulphide oxidation. These uses may include underground backfill and construction of the upstream portion of the TMA dams.

5.5 Plant Site Regrading

PAG rock has been identified as likely to be present within portions of the planned construction excavation areas in rock at the plant site. All excavated rock in support of plant site construction will be considered PAG and managed accordingly; or alternatively will be subject to segregation on the basis of screening analysis of blast hole cuttings. The specific sampling strategy for the screening analysis may be supported by available characterization data.

5.6 Diversion Channels

PAG rock has been identified within planned excavation limits of only the Stockpile Diversion Channel and none of the other diversion channels proposed at the RRP. All excavated rock in support of the Stockpile Diversion Channel will be considered PAG and managed accordingly; or alternatively will be subject to segregation on the basis of screening analysis of blast hole cuttings. The specific sampling strategy may be supported by available characterization data.

The presence of PAG rock within localized sections of the Stockpile Diversion Channel has a potential to lead to poorer quality drainage or add metal loadings to water draining through this channel. The following provisions have been made to manage this concern during the construction and operation of this diversion channel:

- Overblasting of the base of the channel section with suspected PAG rock by 1.3 m during construction, and lining the channel base of this section with 1 to 1.2 m of compacted local clay;

- Visual walkover and photo documentation inspection of rock sidewalls and channel twice annually (spring and late summer or fall) noting evidence of changes in rock or water condition (e.g. iron staining related to ARD);

- Annual sampling of water quality under low flow conditions (e.g. summer or early fall) to assess ARD and metal related loadings, and trends at the Stockpile Diversion Channel discharge; and

- Annual water sampling of water at the exit from the channel to include at a minimum a flow rate estimate, field measured temperature, pH and conductivity, and laboratory analysis consistent with the parameters specified for leachable metals analysis as identified in Table 2.

In the event mitigation of ML/ARD concerns from sidewalls is required, provision has been made for isolation of this material by application of shotcrete to problematic areas of the channel side walls.

5.7 Underground Mine Rock

Development of the Underground Mine is still in the planning stages with work scheduled to begin in 2017. A geochemical monitoring plan for underground mine rock will be developed prior to advancing the underground workings once the mine plan is complete and geochemical verification of the rock units to be encountered is understood.

Table 2: Analytical Methods for Geochemical Monitoring Plan

Test	Category	Parameter	Unit	Method Code	Detection Limit
S & C Analysis	ABA Screening	Carbon (Total)	%	CSA06V	0.005
		Sulphur (Total)	%	CSA06V	0.005
		Maximum Potential Acidity*	CarbNP/AP_{max}	Calc.	-
Modified Acid Base Accounting	Routine ABA	Paste pH	pH	Sobek	0.2
		Total Inorganic Carbon	%	CSB02V	0.1
		$CaCO_3$ (CarbNP)	kg $CaCO_3$/t	Calc.	-
		Carbon (Total)	%	CSA06V	0.005
		Sulphur (Total)	%	CSA06V	0.005
		Sulphur (SO_4)	%	CSA07V	0.01
		Sulphur (S^{-2})	%	CSA08D	0.01
		Sulphur (S^{-2})	%	Calc.	-
		Acid Potential (AP)	kg $CaCO_3$/t	Calc.	-
		Modified NP (NP)	kg $CaCO_3$/t	Modified	0.5
		NPR	NP/AP	Calc.	-
		Fizz Test	-	Sobek	-
Low Level Metals by Aqua-Regia Digestion with ICP-MS Finish	Metals Screening	Ag, Al, B , Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, S, Sr, Ti, V, Zn, Zr, As, Be, Bi, Cd, Ce, Co, Cs, Ga, Ge, Hf, Hg, In, La, Lu, Mo, Nb, Pb, Rb, Sb, Sc, Se, Sn, Ta, Tb, Te, Th, Tl, U, W, Y, Yb	% and ppm	ICM14B	varies by element
Low-Level Selenium Assays	Metals Screening	Se	ppm	HAS14B	0.05
Shake Flask Extraction - (3:1 Liquid to Solid Ratio)	Leachable Metals	pH	pH	Meter	0.1
		Redox	mV	Meter	1
		Conductivity	uS/cm	Meter	1
		Acidity (to pH 4.5)	mg $CaCO_3$/L	Titration	1
		Total Acidity (to pH 8.3)	mg $CaCO_3$/L	Titration	1
		Alkalinity	mg $CaCO_3$/L	Titration	1
		Chloride	mg/L	Ion Chrom.	0.1
		Fluoride	mg/L	Spec. Ion Electrode	0.2
		Sulphate	mg/L	Turbidity	0.06
		Hardness $CaCO_3$	mg/L	Calc.	-
		Major Anions	meq/L	Calc.	-
		Major Cations	meq/L	Calc.	-
		Difference	meq/L	Calc.	-
		Balance (%)	%	Calc.	-
		Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, K, Se, Si, Ag, Na, Sr, S, Tl, Sn, Ti, U, V, Zn, Zr	mg/L and µg/L	ICP-MS	varies by element

Note:
* maximum potential acidity assumes no iron carbonate present

6.0 ANALYTICAL TESTING METHODS

The analytical methods to be applied for the construction phase of the RRP as described in this Geochemical Monitoring Plan are provided in Table 2. Two general approaches to testing will occur at the RRP:

- Carbon and sulphur analyses (screening acid base accounting (ABA) analysis); and
- Follow-up ABA analyses (routine ABA analysis).

Screening of PAG materials at the RRP by analyzing carbon and sulphur is considered to be a conservative surrogate for full ABA analysis and is suitable for application in most areas (AMEC 2014b). This method provides data in a timely and cost-effective manner to support active excavations where PAG rock may be present. Determination of NPR on the basis of carbon and sulphur will be supported by routine ABA analysis as described in Table 2. For blast hole sampling, routine ABA analysis of laboratory splits (replicate analyses) will be completed at a rate of 1 in 20 samples to allow monitoring against the surrogate ABA analysis. Alternatively, supported by on-going test results, key target parameters within the routine ABA suite (rather than the full set) may be established for the program based on experience. The routine ABA analytical list will also form the basis of any additional characterization investigations should they be required. Metals screening and leachable metal testing will be also be completed on selected samples.

7.0 DOCUMENTATION AND QUALITY ASSURANCE / CONTROL OF DATA

The following sections outline specific documentation and quality assurance / control requirements related to geochemical monitoring.

7.1 Documentation

For each excavation a complete set of notes will be maintained documenting pertinent assessment, sampling and analysis completed.

A database will be established for all analytical data collected recording excavation identification, sample ID, sample location, lithology, and analytical results. For blast hole monitoring, the blast hole ID and bench references will also be included.

7.2 Analytical Quality Assurance and Quality Control

Standard operating procedures will be developed for all overburden and mine rock sampling at the RRP site. Samples will be submitted to onsite or offsite laboratories as appropriate under chain of custody documentation developed as part of the procedures.

Field duplicate and laboratory replicate samples will be submitted for analysis at a rate of 1 sample in 20 samples, or as established in the standard operating procedures. Laboratory replicate samples will be analysed at a qualified commercial laboratory for the routine ABA suite or a subset ABA parameters as identified in the standard operating procedures.

7.3 Reporting

An annual geochemical monitoring report including all characterization work completed for PAG rock segregation and mine rock and overburden quality assessment will be prepared in support of the annual Works Performance and Surface Water Monitoring reports.

8.0 QUALIFICATIONS OF AUTHOR AND REVIEWERS

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Dr. Stephen Walker, Ph.D. has more than 26 years of consulting and research experience, including specializing in mine waste hydrogeochemistry. He has conducted ARD assessments for proposed and operating mines across Canada and internationally. He has specific experience in assessing and managing water quality and metal mobility issues in the environment, under both acidic and neutral drainage conditions and for oxidized and reduced environments. Dr. Walker routinely conducts and manages geochemical assessment programs related to overburden, mine rock and tailings at mine sites. Dr. Walker has been involved in the RRP geochemistry program since 2011.

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NEW GOLD RAINY RIVER MINE
APPENDIX A.2
GEOCHEMICAL MONITORING RESULTS

Saskatoon

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Memorandum

To:	Will Csanyi – Hydrogeologist, New Gold Inc.
From:	Jared Robertson, Geochemist
Cc:	Brent Kazamel – Okane Consultants
Our ref:	1003-020-002
Date:	March 16, 2021
Re:	**Rainy River Mine 2020 Annual Geochemical Monitoring Report**

The Rainy River Mine (RRM) has requested that Okane Consultants Ltd. compile and assess geochemical monitoring data collected in 2020 by RRM with respect to requirements defined in the "Construction and Operation Phases Geochemical Monitoring Plan" (Geochemical Monitoring Plan; AFW, 2016). Monitoring requirements outlined in the Geochemical Monitoring Plan were developed per Environmental Compliance Approvals #5781-9VJQ2J Condition 10 (10) and #5178-9TUPD9 Condition 8 (12). The approach and methodology provided in the Geochemical Monitoring Plan were developed in accordance with guidance in the Prediction Manual for Drainage Chemistry from Sulfidic Geologic Materials (MEND, 2009). This technical memorandum provides the following:

- Summary of current mine rock classification and segregation approach;
- Description of database developed to manage data and information per the Geochemical Monitoring Plan;
- Geochemical classification of mine rock and overburden produced from the open pit in 2020;
- Placement locations of all mine rock and overburden within the RRM site;

- Assessment of quality assurance/quality control audit data;
    - Laboratory duplicates analyzed for carbon and sulfur at the RRM onsite LECO facility to check precision of data used for operational classification of mine rock and overburden
    - Samples submitted to off-site laboratories for acid-base accounting (ABA) analysis to check accuracy of the onsite LECO analyses;
- Appendices that provide tabulated audit data and laboratory reports

Summary of Current Mine Rock Classification and Segregation Approach

Operationally, mine rock and overburden are classified as potentially acid generating (PAG) or not potentially acid generating (NPAG) based on the relative content of sulfur and carbon (assumed, based on ore-body knowledge, to be entirely present as inorganic carbon) in the material. Total sulfur and total carbon contents are determined using a LECO Carbon-Sulfur analyzer (combustion analysis with infrared detection) per method CSA06V. The acid potential (AP) and neutralization potential (NP) are calculated from the total carbon and sulfur using the following calculations provided in MEND (2009):

Neutralization Potential (kg $CaCO_3$/t rock) = Total Carbon (wt.%) * 83.4

Acid Potential (kg $CaCO_3$/t rock) = Total Sulfur (wt.%) * 31.25

In addition to the NP calculation above, RRM adjusts NP by a factor of 0.96 to correct for the presence of Fe-carbonate minerals that do not provide any NP (Okane, 2020a). The neutralization potential ratio (NPR) is calculated as the quotient of NP and AP such that NPR = NP/AP. If the NPR is greater than 2, the material is classified as NPAG and if the NPR is less than 2 the material is classified as PAG (AFW, 2013).

In addition, a second level of characterization was developed for PAG rock produced from the open pit based on inferred time to acid onset. The system was originally designed to account for three levels of PAG:

- PAG1 inferred to have the potential to generate acidic conditions within five years of production or fewer;
- PAG2 inferred to have the potential to generate acidic conditions within five to 15 years of productions;
- PAG3 inferred to remain circumneutral for at least 15 years.

The three PAG sub-classifications were based on NP with threshold values of available NP of <12.5 kg $CaCO_3$/t, 12.5 to 19 kg $CaCO_3$/t and > 19 kg $CaCO_3$, respectively. Available NP was defined as the

measured Sobek NP minus 10 kg $CaCO_3$/t to account for the silicate-neutralization potential that reports to the Sobek analysis but may not react fast enough to neutralize acidity produced by oxidation of pyrite and other sulfide minerals. Operationally, RRM has only implemented the PAG1/PAG2 designation. PAG1 material is always deposited of in the EMRS. Some PAG 2/3 rock is used in construction of the upstream side of the TMA embankment, and in the downstream shells of the Cell 1 and 2 where it will be inundated by tailings. There is not currently any difference in the way PAG2 and PAG3 materials are managed or deposited of on site, which is conservative with respect to mine rock and overburden management because it does not overestimate the lag period to potential onset of acidic conditions for PAG materials.

Mine rock blast holes are arranged on a 7.0 x 7.5 m grid with a 10 m bench height. Cuttings from every blast hole are sampled and analyzed for total carbon and total sulfur and each mining block is classified as PAG1, PAG2/3, or NPAG and routed to the appropriate location.

Data Management

All blast hole and audit geochemistry data are maintained in an onsite database as specified in Section 7.1 of the Geochemical Monitoring Plan. The database is implemented in the MineSight database platform and includes (but is not limited to) sample identification, sample location, lithology, material destination, and analytical results. Data and analytical results included in the current monitoring report are based on a download from the database dated February 16th, 2021 and provided to Okane from RRM via email. All statistics presented herein refer to data available prior to this date of download. Additional laboratory results for 2020 are expected to be received at a later date; this report will be updated accordingly once that data is received.

Open Pit Geological Materials Classification

In 2020, RRM collected and analyzed 49,685 samples of geologic materials from the open pit. The lithology and geochemical classifications of these materials are summarized in Table 1.

Materials Destination

In 2020, RRM produced PAG 1 mine rock, PAG 2/3 mine rock, NPAG mine rock, ore, and overburden from the open pit. Destination of these materials is summarized in Table 2.

Table 1: Lithologic / geochemical classification of open pit samples by lithology.

Lithology	No. of Samples	% of 2020 Open Pit Samples	Geochemical Classification	No. of Samples	% of Lithology
Mafic Volcanics	3,952	8.0%	PAG 2/3	734	18.6%
			NPAG	3,206	81.1%
			LGO	12	0.3%
Intermediate Volcanics	7,432	15.0%	PAG 1	88	1.18%
			PAG 2/3	2,961	39.84%
			NPAG	4,264	57.37%
			HGO	55	0.74%
			MGO	4	0.05%
			LGO	27	0.36%
			Overburden	33	0.44%
Dacitic Tuff	36,746	74.0%	PAG 1	2,198	6.0%
			PAG 2/3	23,063	62.8%
			NPAG	1,050	2.9%
			HGO	2,982	8.1%
			MGO	3,665	10.0%
			LGO	3,784	10.3%
Diabase	1,186	2.4%	PAG 2/3	234	19.7%
			NPAG	933	78.7%
			LGO	19	1.6%
Overburden	368	0.7%	PAG 1	116	31.5%
			PAG 2/3	131	35.6%
			NPAG	66	17.9%
			HGO	2	0.5
			MGO	42	11.4%
			Overburden	11	2.99%

PAG – potentially acid generating; NAG – not potentially acid generating; LGO – low grade ore; MGO – medium-grade ore; HGO – high grade ore.

Table 2: Destination of open pit geologic materials.

Material Description	Destination
PAG 1 mine rock	EMRS
PAG 2/3 mine rock	EMRS / TMA upstream embankment
High-grade ore	Mill
Medium-grade ore	Mill
Low-grade ore	Low-grade ore stockpile
NPAG	WMRS / TMA
Overburden	EMRS / WMRS

Assessment of Quality Assurance/Quality Control Procedures

Two categories of quality assurance (QA) samples are submitted for analysis per the Geochemical Monitoring Plan:

- Laboratory duplicates are analyzed onsite to demonstrate acceptable method precision in total carbon and total sulfur analyses by combustion/IR (LECO); and
- Sample splits are sent to an independent laboratory for ABA analysis to check that the onsite laboratory produces data of sufficient accuracy to ensure that geologic materials produced from the open pit are assigned the correct geochemical classification.

Analytical data from laboratory duplicate and ABA audit samples collected in 2020 are provided in Appendix A. The goal, per the Geochemical Monitoring Plan, is for both laboratory duplicates and the sample splits to be submitted for 1 in 20 (5%) of the blast hole samples. In 2020 carbon/sulfur duplicate samples and ABA audit samples were submitted for 5.6% and 1.0% of samples collected, respectively. Audit samples are currently only available up to April 2020; as such, the percentage of samples submitted for the ABA audit will increase once those sample results are received. A final memorandum will be issued with the complete dataset when available.

Assessment of Laboratory Duplicates

In 2020, 3,106 duplicates were analyzed for total carbon and total sulfur. Figure 1 and Figure 2 show the duplicate values plotted against each other with the 1:1 line for reference. Relative percent difference (RPD) was calculated for each duplicate pair using the following equation:

$$RPD = \frac{|S - D|}{\frac{S + D}{2}} \times 100$$

Where S is the sample result (original) and D is the duplicate result. The acceptable RPD range defined for this study is ± 20% for those samples with concentrations greater than five times the detection limit based on U.S. Environmental Protection Agency (U.S. EPA) guidance (U.S.EPA, 2004). Original and duplicate data are provided in Appendix A.

Original and Duplicate Assessment: Carbon

Visual inspection of Figure 1 indicates that the match between total carbon analyses and duplicates is generally good with some scatter but no systematic deviation. The RPD was calculated for 3,106 pairs of duplicate total carbon analyses. Of the 3,106 pairs, 3,044 (98.0%) meet the acceptable RPD range (i.e., they have RPDs below 20% and contain carbon at more than five times the detection limit of 0.005 wt.% defined in the Geochemical Monitoring Plan, Table 2). These results indicate that the LECO laboratory is providing effective precision for total carbon measurements of the mine rock.

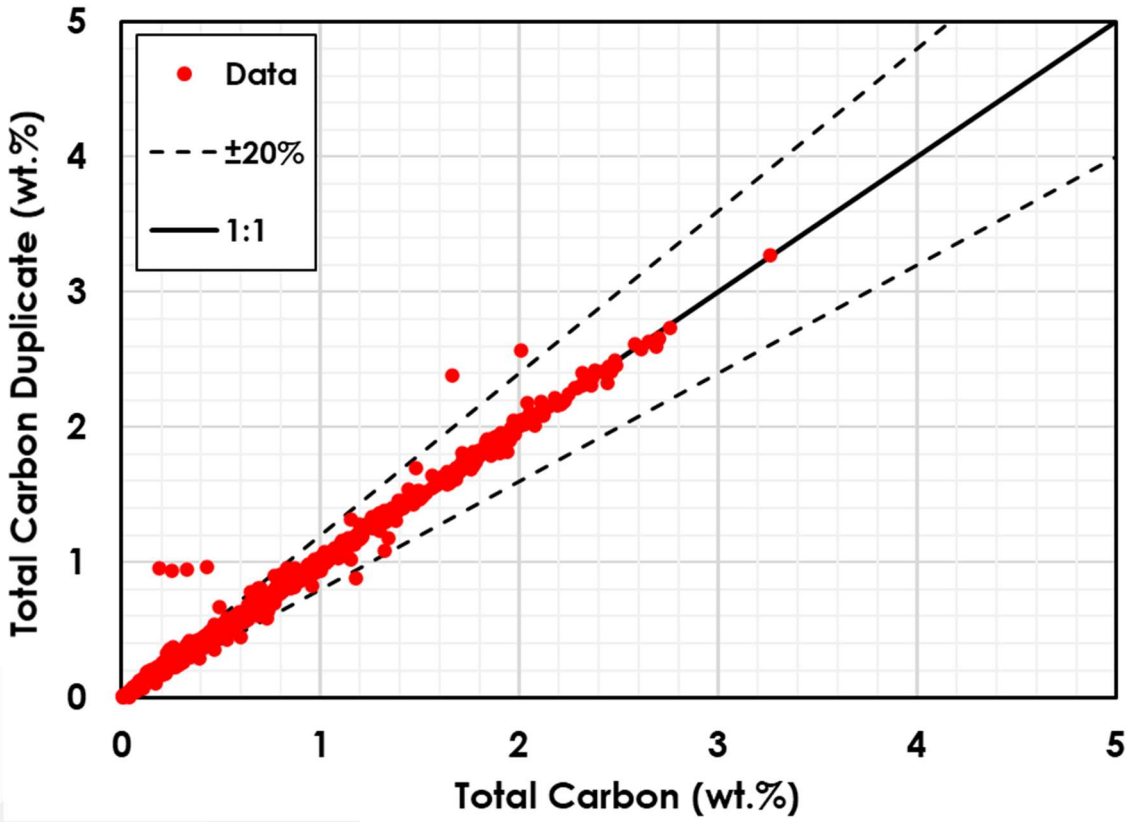

Figure 1: Comparison of original and duplicate carbon data from RRM onsite LECO facility.

Original and Duplicate Assessment: Sulfur

Visual inspection of Figure 2 indicates that the match between total sulfur analyses and duplicates is generally good with some scatter but no systematic error. The RPD was calculated for 3,106 pairs of duplicate total sulfur analyses. Of the 3,106 pairs, 3,074 (99.0%) meet the acceptable RPD range (i.e., they have RPDs below 20% and contain sulfur at more than five times the detection limit of 0.005 wt.%). These results indicate that the LECO laboratory is providing effective precision for total sulfur measurements of the mine rock.

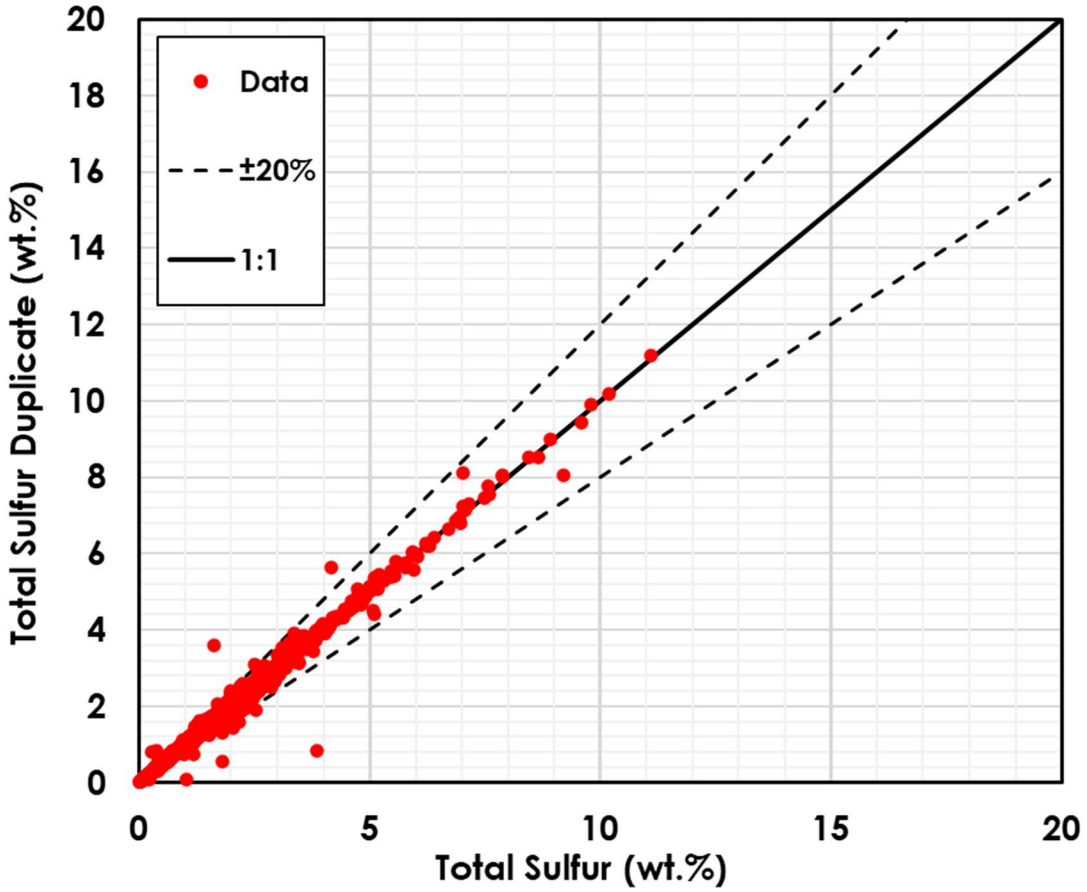

Figure 2: Comparison of original and duplicate sulfur data from RRM onsite LECO facility.

Acid-Base Accounting (ABA) Audit Results

In 2020, 311 results for samples submitted for auditing by an independent analytical laboratory were received. These account for samples submitted until April 2020; more samples have been submitted for auditing and data will be received at a later date and a final memorandum will be issued when available. Samples were sent to Activation Laboratories in Ancaster, Ontario, Canada. Additional

laboratory results for beyond April 2020 are pending and will be updated in this memorandum when available. Laboratory reports are provided in Appendix B.

On-Site LECO NPR Determination vs. Independent Laboratories

Descriptive statistics are provided in Table 3; data are plotted in Figure 3 and box-and-whisker plots are shown in Figure 4. A correction factor of 0.96 is now being applied to the on-site LECO NP values to account for Fe-carbonate minerals which do not provide any buffering capacity. This change was recommended during the April 2020 ITRB (No. 10) meeting (Okane, 2020a; New Gold Independent Technical Review Board, 2020). The median NPR values determined by modified Sobek (independent laboratory) and LECO (on-site laboratory) are in close agreement (0.4 and 0.5, respectively) and are consistent with the 2019 Annual Geochemical Monitoring Report results (Okane, 2020b).

The match between on-site LECO NPR values and modified Sobek NPR duplicates is generally good, although there is slightly more deviation at low NPR values (Figure 3). At low NPR values, the LECO NPR is slightly overestimated; however, this effect is less pronounced as the NPR reaches the PAG/NPAG cut-off of 2. The comparable results between the independent laboratory and the on-site LECO laboratory demonstrate that the accuracy of the LECO laboratory produced acceptable results during 2020 and mine rock is being segregated as intended.

Table 3: Descriptive statistics for Sobek and NPR values.

Descriptive Statistics	Sobek NPR	LECO NPR
Sample Size	311	311
Minimum	0.01	0.01
Maximum	15	26
Median	0.4	0.5
Average	0.8	1.0
90th Percentile	1.5	1.8
10th Percentile	0.12	0.17

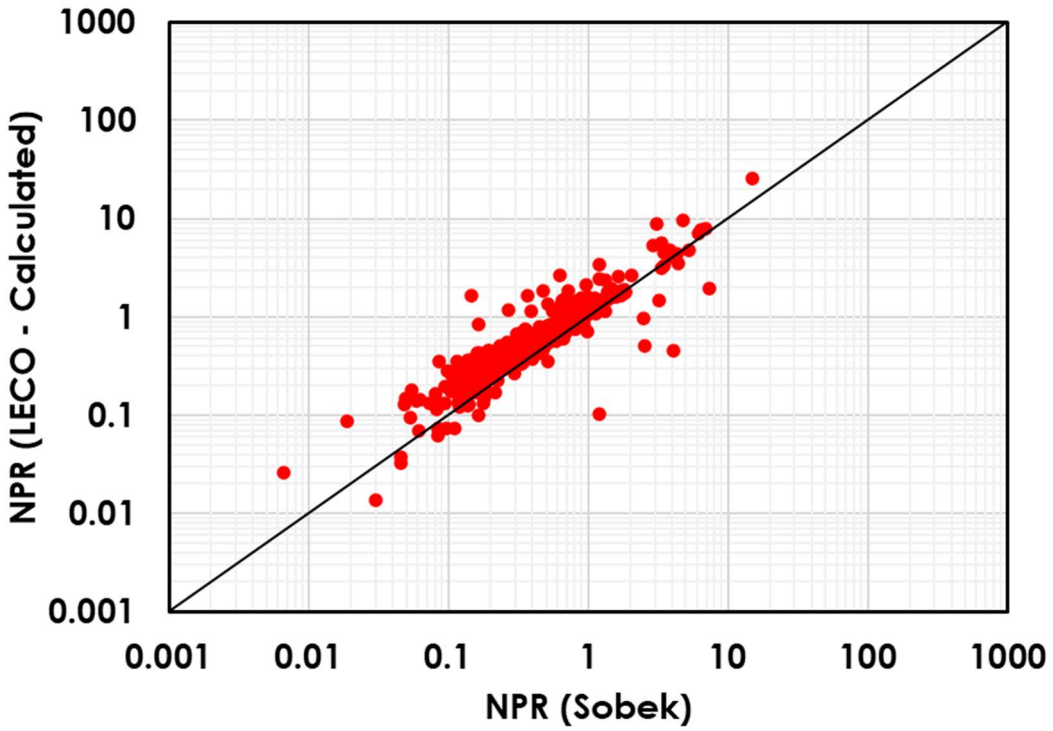

Figure 3: **Scatter plot showing comparison of NPR calculated from on-site LECO carbon and sulfur.**

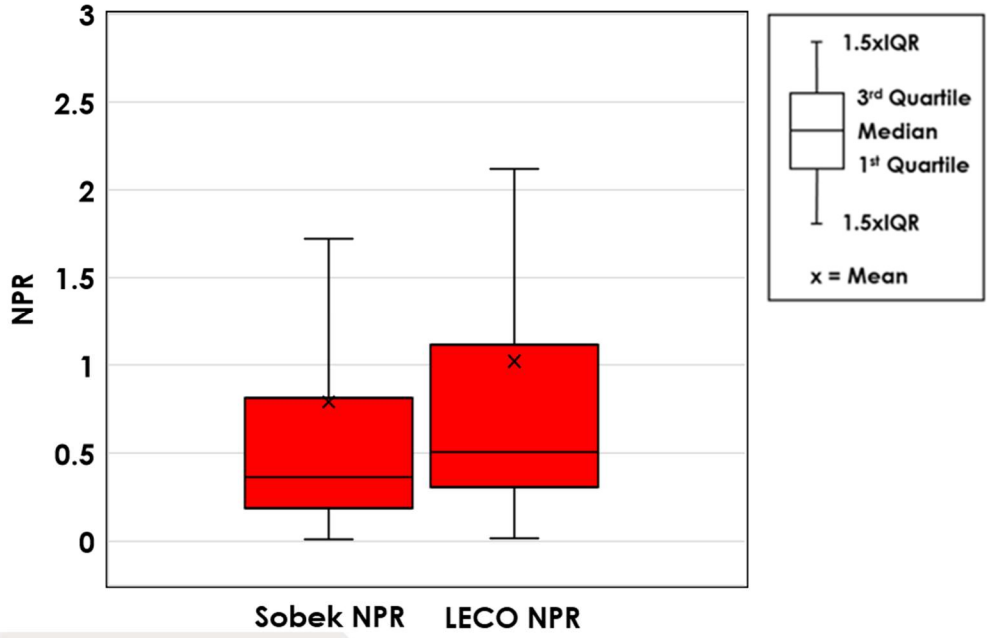

Figure 4: **Box-and-whisker plots showing comparison of NPR calculated from on-site LECO carbon and sulfur and NPR from Sobek analyses. IQR = Inter-quartile range.**

Conclusions

Duplicate data and independent laboratory data were evaluated to verify the performance of mine rock classification for the purpose of segregating and properly handling PAG and NPAG material at RRM. Duplicate data indicated that a high level of precision was achieved in 2020 and that measured NPR values were repeatable at the on-site LECO laboratory. Independent ABA measurements confirmed that the NPR of mine rock samples being measured by the LECO laboratory were accurate during 2020 and that mine rock is being properly classified as PAG or NPAG. Only data up to April 2020 is available for the independent ABA; a final memorandum will be issued with the complete dataset when available. Overall, the Geochemical Monitoring Plan was executed as intended in 2020. Geochemical focused studies will continue into 2021 under the guidance and recommendations of the internal technical review board.

Closure

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at 306-713-1695 or jrobertson@okc-sk.com should you have any questions or comments.

References

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Appendix A

Laboratory Results from the Rainy River Mine Onsite LECO Facility and Independent Laboratory

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226002175	2/12/2020	0.11	0.10	9.5%	1.39	1.39	0.0%
1226002179	2/12/2020	0.13	0.13	0.0%	0.91	0.92	1.1%
1226002013	2/12/2020	0.14	0.15	6.9%	0.31	0.32	3.2%
1226002021	2/12/2020	0.21	0.21	0.0%	0.27	0.26	3.8%
1226002095	2/12/2020	0.23	0.24	4.3%	0.82	0.83	1.2%
1226002035	2/12/2020	0.25	0.25	0.0%	1.55	1.54	0.6%
1226002212	2/12/2020	0.31	0.30	3.3%	3.10	2.96	4.6%
1226002131	2/12/2020	0.34	0.34	0.0%	2.48	2.42	2.4%
1226002204	2/12/2020	0.36	0.36	0.0%	2.14	2.10	1.9%
1226002099	2/12/2020	0.37	0.37	0.0%	1.25	1.26	0.8%
1226002075	2/12/2020	0.61	0.62	1.6%	1.98	1.98	0.0%
1226002044	2/13/2020	0.12	0.12	0.0%	0.34	0.36	5.7%
1230501196	2/13/2020	0.31	0.31	0.0%	0.94	0.96	2.1%
1228050024	2/13/2020	0.41	0.41	0.0%	0.67	0.65	3.0%
1228050006	2/13/2020	0.44	0.44	0.0%	1.11	1.00	10.4%
1227021220	2/14/2020	0.08	0.09	11.8%	0.94	0.98	4.2%
1227021212	2/14/2020	0.14	0.14	0.0%	1.39	1.41	1.4%
1227021180	2/14/2020	0.18	0.18	0.0%	1.19	1.19	0.0%
1227021001	2/14/2020	0.17	0.18	5.7%	1.45	1.44	0.7%
1227021006	2/14/2020	0.19	0.19	0.0%	2.21	2.25	1.8%
1227021201	2/14/2020	0.21	0.20	4.9%	1.80	1.79	0.6%
1230501144	2/14/2020	0.25	0.25	0.0%	1.26	1.16	8.3%
1227021174	2/14/2020	0.26	0.26	0.0%	1.88	1.87	0.5%
1227021143	2/14/2020	0.28	0.27	3.6%	1.69	1.76	4.1%
1227021203	2/14/2020	0.23	0.33	35.7%	2.18	2.09	4.2%
1227021158	2/14/2020	0.38	0.38	0.0%	1.68	1.64	2.4%
1227021135	2/14/2020	0.44	0.46	4.4%	2.43	2.46	1.2%
1227021031	2/14/2020	0.50	0.50	0.0%	0.77	0.77	0.0%
1227021169	2/14/2020	0.54	0.55	1.8%	1.46	1.51	3.4%
1227021263	2/16/2020	0.18	0.19	5.4%	1.91	1.93	1.0%
1230501120	2/16/2020	0.28	0.27	3.6%	1.66	1.79	7.5%
1230501058	2/16/2020	0.28	0.29	3.5%	2.88	2.80	2.8%
1230501082	2/16/2020	0.30	0.30	0.0%	1.03	1.01	2.0%
1227021273	2/16/2020	0.33	0.33	0.0%	2.06	2.10	1.9%
1230501052	2/16/2020	0.42	0.41	2.4%	1.05	1.05	0.0%
1227021227	2/16/2020	0.47	0.48	2.1%	1.75	1.71	2.3%
1230501096	2/16/2020	0.52	0.53	1.9%	0.98	0.98	0.0%
1227021059	2/17/2020	0.24	0.23	4.3%	1.50	1.52	1.3%
1227021073	2/17/2020	0.32	0.33	3.1%	1.62	1.54	5.1%
1227021088	2/17/2020	0.36	0.37	2.7%	1.54	1.59	3.2%
1227021083	2/17/2020	0.39	0.40	2.5%	1.06	1.03	2.9%
1226005006	2/18/2020	0.08	0.08	0.0%	2.14	2.16	0.9%
1226005044	2/18/2020	0.61	0.61	0.0%	0.37	0.38	2.7%
1226005125	2/18/2020	0.69	0.70	1.4%	0.76	0.75	1.3%
1226005333	2/19/2020	0.29	0.24	18.9%	1.38	1.29	6.7%
1226005318	2/19/2020	0.23	0.25	8.3%	0.67	0.69	2.9%
1227028057	2/20/2020	0.11	0.09	20.0%	1.55	1.31	16.8%
1226013020	2/20/2020	0.12	0.13	8.0%	2.69	2.74	1.8%
1226005137	2/20/2020	0.17	0.17	0.0%	1.39	1.40	0.7%
1227028022	2/20/2020	0.27	0.26	3.8%	2.38	2.30	3.4%
1226005051	2/20/2020	0.29	0.28	3.5%	1.09	1.09	0.0%
1226013101	2/20/2020	0.35	0.30	15.4%	2.90	2.63	9.8%
1226013060	2/20/2020	0.31	0.31	0.0%	2.67	2.73	2.2%
1226005011	2/20/2020	0.36	0.37	2.7%	0.84	0.88	4.7%
1227028046	2/20/2020	0.52	0.53	1.9%	3.02	3.08	2.0%
1226013105	2/21/2020	0.20	0.18	10.5%	3.03	2.82	7.2%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226013175	2/21/2020	0.20	0.20	0.0%	2.40	2.31	3.8%
1227028086	2/21/2020	0.23	0.20	14.0%	2.70	2.55	5.7%
1226013128	2/21/2020	0.21	0.21	0.0%	1.70	1.69	0.6%
1227028135	2/21/2020	0.23	0.23	0.0%	1.13	1.11	1.8%
1227028132	2/21/2020	0.24	0.24	0.0%	1.59	1.61	1.3%
1227028148	2/21/2020	0.26	0.24	8.0%	1.84	1.77	3.9%
1227028076	2/21/2020	0.29	0.30	3.4%	1.34	1.37	2.2%
1227028114	2/21/2020	0.32	0.31	3.2%	2.02	2.03	0.5%
1226013133	2/21/2020	0.32	0.31	3.2%	2.11	2.39	12.4%
1226013168	2/21/2020	0.68	0.64	6.1%	2.07	2.04	1.5%
1226013077	2/22/2020	0.14	0.13	7.4%	0.89	0.91	2.2%
1226013035	2/22/2020	0.20	0.19	5.1%	1.06	0.97	8.9%
1226013011	2/22/2020	0.23	0.22	4.4%	2.19	2.10	4.2%
1226013157	2/22/2020	0.31	0.29	6.7%	1.71	1.68	1.8%
1226013046	2/22/2020	0.40	0.38	5.1%	0.61	0.59	3.3%
1226005070	2/23/2020	0.20	0.20	0.0%	1.96	2.06	5.0%
1226005103	2/23/2020	0.22	0.21	4.7%	1.07	1.13	5.5%
1226005159	2/23/2020	0.21	0.21	0.0%	1.84	1.91	3.7%
1226005153	2/23/2020	0.21	0.22	4.7%	1.30	1.46	11.6%
1226010037	2/23/2020	0.25	0.25	0.0%	0.47	0.47	0.0%
1226005309	2/23/2020	0.22	0.27	20.4%	1.19	1.26	5.7%
1226005026	2/23/2020	0.28	0.27	3.6%	1.73	1.69	2.3%
1226013223	2/23/2020	0.29	0.31	6.7%	1.93	2.03	5.1%
1226010004	2/23/2020	0.32	0.32	0.0%	0.61	0.59	3.3%
1226005111	2/23/2020	0.33	0.33	0.0%	0.92	0.92	0.0%
1226013196	2/23/2020	0.32	0.33	3.1%	2.34	2.31	1.3%
1226013042	2/23/2020	0.37	0.42	12.7%	1.81	1.87	3.3%
1226010054	2/24/2020	0.15	0.15	0.0%	0.43	0.43	0.0%
1227029062	2/24/2020	0.18	0.19	5.4%	2.62	2.62	0.0%
1227029005	2/24/2020	0.20	0.19	5.1%	2.63	2.71	3.0%
1227029040	2/24/2020	0.21	0.20	4.9%	2.44	2.55	4.4%
1226010030	2/24/2020	0.26	0.25	3.9%	0.35	0.35	0.0%
1226010101	2/24/2020	0.32	0.31	3.2%	0.47	0.46	2.2%
1226010088	2/24/2020	0.32	0.32	0.0%	0.35	0.36	2.8%
1227029093	2/24/2020	0.44	0.44	0.0%	9.21	8.05	13.4%
1227029011	2/24/2020	0.44	0.45	2.2%	4.72	4.80	1.7%
1227029012	2/24/2020	0.50	0.48	4.1%	2.38	2.27	4.7%
1226010236	2/25/2020	0.11	0.11	0.0%	0.57	0.57	0.0%
1226010114	2/25/2020	0.17	0.17	0.0%	0.25	0.26	3.9%
1226010154	2/25/2020	0.26	0.26	0.0%	0.34	0.33	3.0%
1232011068	2/25/2020	0.26	0.27	3.8%	0.31	0.31	0.0%
1226010129	2/25/2020	0.28	0.28	0.0%	0.31	0.31	0.0%
1226010116	2/25/2020	0.28	0.28	0.0%	0.32	0.31	3.2%
1232011042	2/25/2020	0.39	0.37	5.3%	0.51	0.50	2.0%
1232011085	2/25/2020	0.37	0.38	2.7%	0.17	0.16	6.1%
1232011010	2/25/2020	0.43	0.39	9.8%	0.59	0.60	1.7%
1232011072	2/25/2020	0.41	0.40	2.5%	0.58	0.57	1.7%
1226011185	2/26/2020	0.15	0.15	0.0%	2.27	2.24	1.3%
1226011262	2/26/2020	0.17	0.17	0.0%	2.84	2.80	1.4%
1226010222	2/26/2020	0.19	0.19	0.0%	0.55	0.54	1.8%
1226011191	2/26/2020	0.18	0.19	5.4%	2.20	2.17	1.4%
1226011235	2/26/2020	0.21	0.21	0.0%	1.73	1.69	2.3%
1226011205	2/26/2020	0.23	0.21	9.1%	2.43	2.14	12.7%
1226010173	2/26/2020	0.24	0.25	4.1%	0.18	0.15	18.2%
1226011121	2/26/2020	0.27	0.27	0.0%	0.16	0.17	6.1%
1226011098	2/26/2020	0.27	0.27	0.0%	0.19	0.18	5.4%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226011210	2/26/2020	0.28	0.27	3.6%	1.44	1.32	8.7%
1226011238	2/26/2020	0.26	0.27	3.8%	1.71	1.70	0.6%
1226010136	2/26/2020	0.34	0.33	3.0%	0.35	0.36	2.8%
1226011104	2/26/2020	0.38	0.37	2.7%	0.97	0.98	1.0%
1226011115	2/26/2020	0.46	0.43	6.7%	0.55	0.55	0.0%
1226011103	2/26/2020	0.51	0.51	0.0%	0.75	0.73	2.7%
1228038181	2/28/2020	0.03	0.03	0.0%	1.03	1.06	2.9%
1228038233	2/28/2020	0.06	0.06	0.0%	1.50	1.52	1.3%
1228038081	2/28/2020	0.06	0.06	0.0%	3.05	2.96	3.0%
1228038028	2/28/2020	0.08	0.08	0.0%	2.60	2.41	7.6%
1226006146	2/28/2020	0.15	0.15	0.0%	1.25	1.23	1.6%
1228038296	2/28/2020	0.15	0.16	6.5%	0.09	0.10	10.5%
1226006119	2/28/2020	0.17	0.17	0.0%	0.51	0.52	1.9%
1226011059	2/28/2020	0.20	0.21	4.9%	0.51	0.50	2.0%
1228038171	2/28/2020	0.24	0.23	4.3%	1.73	1.80	4.0%
1228038127	2/28/2020	0.27	0.27	0.0%	1.70	1.77	4.0%
1226011051	2/28/2020	0.29	0.29	0.0%	0.12	0.12	0.0%
1226011049	2/28/2020	0.31	0.32	3.2%	0.47	0.46	2.2%
1226011067	2/28/2020	0.32	0.33	3.1%	0.75	0.75	0.0%
1226006063	2/28/2020	0.34	0.33	3.0%	1.24	1.28	3.2%
1228038082	2/28/2020	0.33	0.33	0.0%	3.95	3.99	1.0%
1228038175	2/28/2020	0.37	0.36	2.7%	2.23	2.27	1.8%
1228038331	2/28/2020	0.38	0.37	2.7%	2.66	2.57	3.4%
1228038253	2/28/2020	0.40	0.40	0.0%	1.20	1.20	0.0%
1228038058	2/28/2020	0.46	0.47	2.2%	2.22	2.16	2.7%
1228038202	2/28/2020	0.53	0.51	3.8%	1.94	1.93	0.5%
1228038278	2/28/2020	0.52	0.53	1.9%	2.28	2.38	4.3%
1228038206	2/28/2020	0.54	0.54	0.0%	2.31	2.22	4.0%
1228038176	2/28/2020	0.55	0.55	0.0%	2.08	2.26	8.3%
1228038149	2/28/2020	0.65	0.66	1.5%	1.60	1.65	3.1%
1228038283	2/28/2020	0.77	0.76	1.3%	1.05	1.02	2.9%
1228038107	2/28/2020	0.85	0.85	0.0%	1.81	1.79	1.1%
1228038417	2/28/2020	1.03	1.01	2.0%	2.40	2.44	1.7%
1226006186	2/29/2020	0.10	0.10	0.0%	0.97	0.98	1.0%
1226011028	2/29/2020	0.12	0.11	8.7%	0.55	0.52	5.6%
1226011020	2/29/2020	0.11	0.12	8.7%	0.62	0.62	0.0%
1226006156	2/29/2020	0.13	0.14	7.4%	1.09	1.14	4.5%
1226006403	2/29/2020	0.18	0.19	5.4%	1.20	1.14	5.1%
1226006207	2/29/2020	0.19	0.19	0.0%	1.38	1.36	1.5%
1226011037	2/29/2020	0.18	0.20	10.5%	0.54	0.57	5.4%
1226006129	2/29/2020	0.21	0.21	0.0%	0.99	1.02	3.0%
1226006051	2/29/2020	0.26	0.26	0.0%	1.36	1.40	2.9%
1226006216	2/29/2020	0.25	0.26	3.9%	1.90	1.88	1.1%
1226006420	2/29/2020	0.29	0.29	0.0%	1.64	1.60	2.5%
1226006054	2/29/2020	0.31	0.31	0.0%	0.96	0.96	0.0%
1226006199	2/29/2020	0.33	0.31	6.3%	2.64	2.54	3.9%
1226006215	2/29/2020	0.36	0.34	5.7%	2.69	2.49	7.7%
1226006025	2/29/2020	0.64	0.69	7.5%	1.17	1.19	1.7%
1227015051	3/1/2020	0.15	0.15	0.0%	0.65	0.61	6.3%
1227015020	3/1/2020	0.23	0.23	0.0%	0.13	0.12	8.0%
1227015100	3/1/2020	0.25	0.26	3.9%	0.78	0.77	1.3%
1227015149	3/1/2020	0.26	0.27	3.8%	0.64	0.63	1.6%
1227015018	3/1/2020	0.28	0.28	0.0%	0.59	0.59	0.0%
1227015138	3/1/2020	0.31	0.30	3.3%	0.97	0.91	6.4%
1227015219	3/1/2020	0.33	0.39	16.7%	1.35	1.27	6.1%
1227015175	3/1/2020	0.53	0.52	1.9%	0.76	0.76	0.0%

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1227015304	3/1/2020	0.64	0.65	1.6%	1.60	1.63	1.9%
1227015297	3/1/2020	1.18	1.20	1.7%	2.03	2.05	1.0%
1227015366	3/1/2020	1.26	1.26	0.0%	2.24	2.29	2.2%
1227015214	3/1/2020	3.26	3.27	0.3%	0.40	0.37	7.8%
1226007109	3/3/2020	0.07	0.07	0.0%	2.16	2.15	0.5%
1226007104	3/3/2020	0.13	0.13	0.0%	1.53	1.56	1.9%
1226007027	3/3/2020	0.16	0.16	0.0%	1.97	2.01	2.0%
1226007045	3/3/2020	0.16	0.16	0.0%	2.09	2.12	1.4%
1226007039	3/3/2020	0.20	0.19	5.1%	1.56	1.56	0.0%
1226007183	3/3/2020	0.19	0.19	0.0%	2.11	2.11	0.0%
1226007010	3/3/2020	0.20	0.21	4.9%	2.21	2.17	1.8%
1226007181	3/3/2020	0.24	0.22	8.7%	1.90	1.64	14.7%
1226007153	3/3/2020	0.24	0.23	4.3%	2.16	1.94	10.7%
1226007047	3/3/2020	0.24	0.24	0.0%	1.07	1.04	2.8%
1226007202	3/3/2020	0.25	0.25	0.0%	1.13	1.04	8.3%
1226007002	3/3/2020	0.26	0.25	3.9%	1.70	1.73	1.7%
1226007136	3/3/2020	0.26	0.26	0.0%	0.36	0.33	8.7%
1227031103	3/3/2020	0.32	0.30	6.5%	1.73	1.79	3.4%
1226007177	3/3/2020	0.32	0.32	0.0%	1.51	1.50	0.7%
1227031041	3/3/2020	0.38	0.38	0.0%	1.90	1.92	1.0%
1226007055	3/3/2020	0.40	0.40	0.0%	0.81	0.81	0.0%
1227031011	3/3/2020	0.43	0.45	4.5%	1.76	1.81	2.8%
1227031038	3/3/2020	0.47	0.47	0.0%	1.88	1.79	4.9%
1227015046	3/5/2020	0.08	0.08	0.0%	2.06	2.04	1.0%
1227015035	3/5/2020	0.16	0.17	6.1%	2.42	2.46	1.6%
1227015272	3/5/2020	0.29	0.28	3.5%	0.72	0.74	2.7%
1227015032	3/5/2020	0.41	0.42	2.4%	0.96	1.00	4.1%
1227015195	3/5/2020	0.42	0.43	2.4%	0.48	0.50	4.1%
1227015193	3/5/2020	0.45	0.45	0.0%	0.39	0.38	2.6%
1227015315	3/5/2020	1.61	1.63	1.2%	1.52	1.25	19.5%
1227015083	3/6/2020	0.25	0.27	7.7%	0.40	0.40	0.0%
1227015282	3/6/2020	0.29	0.29	0.0%	1.14	1.12	1.8%
1227015280	3/6/2020	0.96	0.83	14.5%	2.02	1.91	5.6%
1227015331	3/6/2020	1.68	1.61	4.3%	1.58	1.56	1.3%
1227016072	3/7/2020	0.03	0.02	40.0%	0.24	0.20	18.2%
1227016054	3/7/2020	0.04	0.04	0.0%	0.26	0.27	3.8%
1227016028	3/7/2020	0.06	0.08	28.6%	2.93	2.83	3.5%
1227016018	3/7/2020	0.12	0.11	8.7%	2.94	2.72	7.8%
1227016041	3/7/2020	0.14	0.13	7.4%	0.48	0.47	2.1%
1227016094	3/7/2020	0.14	0.14	0.0%	1.77	1.85	4.4%
1227016137	3/7/2020	0.22	0.22	0.0%	2.88	2.79	3.2%
1227016078	3/7/2020	0.29	0.28	3.5%	3.23	3.12	3.5%
1227016178	3/7/2020	0.26	0.29	10.9%	0.25	0.26	3.9%
1227016066	3/7/2020	0.49	0.48	2.1%	2.32	2.21	4.9%
1227016134	3/7/2020	0.65	0.78	18.2%	1.98	2.41	19.6%
1227016200	3/8/2020	0.02	0.02	0.0%	1.21	1.38	13.1%
1226022132	3/8/2020	0.06	0.06	0.0%	1.60	1.43	11.2%
1226022113	3/8/2020	0.06	0.06	0.0%	7.57	7.77	2.6%
1226022207	3/8/2020	0.11	0.10	9.5%	2.97	3.06	3.0%
1226022139	3/8/2020	0.12	0.12	0.0%	1.67	1.69	1.2%
1226022194	3/8/2020	0.12	0.12	0.0%	4.28	4.31	0.7%
1226022285	3/8/2020	0.15	0.13	14.3%	2.10	2.12	0.9%
1226022144	3/8/2020	0.17	0.18	5.7%	1.10	1.17	6.2%
1226022274	3/8/2020	0.23	0.22	4.4%	0.44	0.44	0.0%
1226022152	3/8/2020	0.21	0.22	4.7%	1.88	1.90	1.1%
1226022191	3/8/2020	0.23	0.24	4.3%	2.01	1.93	4.1%

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1226022280	3/8/2020	0.26	0.26	0.0%	2.18	2.17	0.5%
1226022179	3/8/2020	0.40	0.41	2.5%	0.90	0.95	5.4%
1226022084	3/8/2020	0.61	0.60	1.7%	4.73	4.81	1.7%
1226022125	3/8/2020	0.82	0.82	0.0%	5.11	5.08	0.6%
1227016129	3/8/2020	1.32	1.38	4.4%	1.62	1.72	6.0%
1227016233	3/10/2020	0.10	0.09	10.5%	2.12	2.05	3.4%
1226022232	3/10/2020	0.18	0.19	5.4%	1.21	1.28	5.6%
1226022015	3/10/2020	0.21	0.21	0.0%	2.16	2.31	6.7%
1226022059	3/10/2020	0.31	0.32	3.2%	1.19	1.26	5.7%
1226022033	3/10/2020	0.47	0.46	2.2%	0.79	0.80	1.3%
1227030035	3/10/2020	0.52	0.46	12.2%	1.00	0.94	6.2%
1226022044	3/10/2020	0.47	0.47	0.0%	3.01	2.98	1.0%
1226022010	3/10/2020	0.47	0.48	2.1%	2.03	2.06	1.5%
1226022251	3/10/2020	0.54	0.56	3.6%	1.98	1.95	1.5%
1227030075	3/10/2020	0.62	0.62	0.0%	1.01	1.07	5.8%
1226022038	3/10/2020	0.64	0.63	1.6%	11.10	11.20	0.9%
1227030079	3/10/2020	0.82	0.82	0.0%	1.23	1.19	3.3%
1227016242	3/10/2020	1.33	1.34	0.7%	1.84	1.81	1.6%
1227016226	3/10/2020	1.31	1.36	3.7%	1.77	1.62	8.8%
1227016211	3/10/2020	2.08	2.01	3.4%	1.78	1.73	2.8%
1226014189	3/11/2020	0.18	0.17	5.7%	0.10	0.10	0.0%
1226014260	3/11/2020	0.16	0.17	6.1%	1.75	1.83	4.5%
1226014361	3/11/2020	0.20	0.19	5.1%	2.52	2.58	2.4%
1226014253	3/11/2020	0.24	0.23	4.3%	0.36	0.37	2.7%
1226014254	3/11/2020	0.25	0.26	3.9%	0.09	0.10	10.5%
1226014153	3/11/2020	0.30	0.29	3.4%	2.08	2.12	1.9%
1226014262	3/11/2020	0.40	0.41	2.5%	1.84	1.91	3.7%
1226014364	3/11/2020	0.41	0.43	4.8%	2.17	2.25	3.6%
1227041077	3/12/2020	0.13	0.14	7.4%	1.35	1.34	0.7%
1227041024	3/12/2020	0.15	0.14	6.9%	3.04	2.85	6.5%
1227041042	3/12/2020	0.17	0.16	6.1%	2.16	2.12	1.9%
1227041013	3/12/2020	0.19	0.19	0.0%	0.16	0.17	6.1%
1226014017	3/12/2020	0.21	0.20	4.9%	1.90	1.72	9.9%
1226014030	3/12/2020	0.20	0.21	4.9%	2.31	2.40	3.8%
1226014078	3/12/2020	0.25	0.23	8.3%	3.00	3.01	0.3%
1226014012	3/12/2020	0.27	0.26	3.8%	0.28	0.27	3.6%
1226014028	3/12/2020	0.46	0.46	0.0%	2.28	2.21	3.1%
1227041058	3/12/2020	0.47	0.48	2.1%	1.00	1.02	2.0%
1227035204	3/13/2020	0.10	0.10	0.0%	0.11	0.10	9.5%
1227035028	3/13/2020	0.17	0.15	12.5%	0.18	0.19	5.4%
1227035054	3/13/2020	0.18	0.17	5.7%	0.15	0.16	6.5%
1227035055	3/13/2020	0.23	0.23	0.0%	0.49	0.51	4.0%
1226014234	3/13/2020	0.23	0.23	0.0%	1.75	1.76	0.6%
1226014046	3/13/2020	0.22	0.23	4.4%	2.79	2.76	1.1%
1227035274	3/13/2020	0.25	0.26	3.9%	0.56	0.55	1.8%
1227035079	3/13/2020	0.25	0.26	3.9%	1.34	1.38	2.9%
1226014159	3/13/2020	0.28	0.26	7.4%	1.75	1.86	6.1%
1226014139	3/13/2020	0.28	0.26	7.4%	3.00	3.13	4.2%
1227035177	3/13/2020	0.29	0.32	9.8%	2.49	2.56	2.8%
1226014165	3/13/2020	0.35	0.36	2.8%	1.43	1.46	2.1%
1227035109	3/13/2020	0.37	0.38	2.7%	1.81	1.86	2.7%
1226014164	3/13/2020	0.38	0.39	2.6%	1.98	1.90	4.1%
1227035040	3/13/2020	0.42	0.41	2.4%	0.87	0.87	0.0%
1226014173	3/13/2020	0.40	0.41	2.5%	1.92	1.90	1.0%
1226014113	3/13/2020	0.40	0.41	2.5%	2.04	2.08	1.9%
1227035245	3/13/2020	0.42	0.42	0.0%	2.75	2.72	1.1%

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1227035207	3/13/2020	0.43	0.43	0.0%	1.17	1.25	6.6%
1226014089	3/13/2020	0.44	0.44	0.0%	2.10	2.13	1.4%
1226014110	3/13/2020	0.49	0.48	2.1%	1.80	1.76	2.2%
1227035239	3/13/2020	0.55	0.55	0.0%	2.36	2.31	2.1%
1227035219	3/13/2020	0.62	0.62	0.0%	1.17	1.16	0.9%
1227035093	3/13/2020	0.69	0.68	1.5%	1.10	1.10	0.0%
1227035100	3/13/2020	0.72	0.70	2.8%	2.20	2.22	0.9%
1227035111	3/13/2020	0.72	0.72	0.0%	1.75	1.82	3.9%
1227035088	3/13/2020	0.84	0.82	2.4%	1.93	2.02	4.6%
1227035253	3/13/2020	0.87	0.87	0.0%	2.03	2.02	0.5%
1227035009	3/13/2020	1.06	1.08	1.9%	1.78	1.83	2.8%
1226004115	3/16/2020	0.08	0.09	11.8%	2.15	2.15	0.0%
1226025118	3/16/2020	0.16	0.16	0.0%	1.77	1.78	0.6%
1226025014	3/16/2020	0.21	0.19	10.0%	1.42	1.35	5.1%
1226004310	3/16/2020	0.18	0.19	5.4%	2.35	2.36	0.4%
1226004180	3/16/2020	0.20	0.21	4.9%	1.09	1.11	1.8%
1226025070	3/16/2020	0.24	0.23	4.3%	1.26	1.18	6.6%
1226004194	3/16/2020	0.25	0.25	0.0%	1.64	1.69	3.0%
1226025021	3/16/2020	0.24	0.25	4.1%	3.19	3.33	4.3%
1226025046	3/16/2020	0.27	0.26	3.8%	1.60	1.62	1.2%
1226004264	3/16/2020	0.32	0.33	3.1%	1.93	1.93	0.0%
1226004119	3/16/2020	0.32	0.34	6.1%	1.05	1.05	0.0%
1226025005	3/16/2020	0.26	0.37	34.9%	1.23	1.12	9.4%
1226004108	3/16/2020	0.45	0.46	2.2%	3.00	3.02	0.7%
1226004255	3/16/2020	0.80	0.79	1.3%	2.21	2.20	0.5%
1226025136	3/16/2020	0.19	0.96	133.9%	1.81	0.57	104.2%
1226004025	3/19/2020	0.11	0.07	44.4%	0.72	0.69	4.3%
1226004048	3/19/2020	0.09	0.12	28.6%	1.38	1.44	4.3%
1226004087	3/19/2020	0.13	0.14	7.4%	0.33	0.31	6.3%
1226015282	3/19/2020	0.14	0.14	0.0%	1.36	1.32	3.0%
1226004181	3/19/2020	0.18	0.16	11.8%	2.42	2.55	5.2%
1226004213	3/19/2020	0.20	0.19	5.1%	1.63	1.49	9.0%
1226015298	3/19/2020	0.22	0.20	9.5%	0.86	0.81	6.0%
1226015230	3/19/2020	0.28	0.29	3.5%	1.27	1.24	2.4%
1226004086	3/19/2020	0.31	0.30	3.3%	2.71	2.61	3.8%
1226004006	3/19/2020	0.30	0.30	0.0%	2.86	2.62	8.8%
1226004009	3/19/2020	0.32	0.31	3.2%	2.68	2.89	7.5%
1226015151	3/19/2020	0.30	0.32	6.5%	0.83	0.89	7.0%
1226004013	3/19/2020	0.35	0.34	2.9%	1.77	1.88	6.0%
1226015182	3/19/2020	0.38	0.39	2.6%	0.96	0.95	1.0%
1226015341	3/19/2020	0.48	0.44	8.7%	0.87	0.86	1.2%
1226004031	3/19/2020	0.44	0.48	8.7%	1.83	1.94	5.8%
1226015143	3/19/2020	0.82	0.80	2.5%	1.67	1.71	2.4%
1226015097	3/19/2020	1.11	1.16	4.4%	1.81	1.89	4.3%
1226025084	3/20/2020	0.16	0.16	0.0%	1.15	1.27	9.9%
1226025062	3/20/2020	0.27	0.27	0.0%	0.91	0.92	1.1%
1226015061	3/20/2020	0.30	0.30	0.0%	0.47	0.45	4.3%
1226015044	3/20/2020	1.03	1.03	0.0%	1.78	1.79	0.6%
1226015322	3/31/2020	0.09	0.08	11.8%	0.12	0.12	0.0%
1226015223	3/31/2020	0.10	0.09	10.5%	0.48	0.46	4.3%
1227042030	3/31/2020	0.16	0.16	0.0%	1.83	2.03	10.4%
1226015068	3/31/2020	0.18	0.18	0.0%	0.97	0.95	2.1%
1227042105	3/31/2020	0.19	0.18	5.4%	1.61	1.69	4.8%
1226015012	3/31/2020	0.20	0.19	5.1%	0.30	0.32	6.5%
1227042075	3/31/2020	0.19	0.19	0.0%	1.93	1.90	1.6%
1226015371	3/31/2020	0.20	0.19	5.1%	2.08	2.01	3.4%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226015267	3/31/2020	0.19	0.20	5.1%	2.43	2.39	1.7%
1226015110	3/31/2020	0.19	0.22	14.6%	0.64	0.66	3.1%
1227042139	3/31/2020	0.23	0.22	4.4%	1.51	1.53	1.3%
1227042095	3/31/2020	0.22	0.23	4.4%	0.76	0.75	1.3%
1227042108	3/31/2020	0.23	0.24	4.3%	0.96	1.12	15.4%
1227042142	3/31/2020	0.27	0.27	0.0%	1.18	1.15	2.6%
1226015131	3/31/2020	0.25	0.28	11.3%	0.35	0.33	5.9%
1227042017	3/31/2020	0.27	0.28	3.6%	1.70	1.63	4.2%
1226015306	3/31/2020	0.27	0.29	7.1%	0.54	0.53	1.9%
1227042045	3/31/2020	0.33	0.34	3.0%	0.45	0.46	2.2%
1226015368	3/31/2020	0.32	0.34	6.1%	2.84	2.85	0.4%
1227030110	3/31/2020	0.39	0.39	0.0%	1.43	1.34	6.5%
1227030025	3/31/2020	0.41	0.42	2.4%	2.18	2.20	0.9%
1227030017	3/31/2020	0.49	0.48	2.1%	2.25	2.29	1.8%
1227030102	3/31/2020	0.64	0.64	0.0%	2.26	2.27	0.4%
1226015007	4/2/2020	0.12	0.11	8.7%	1.84	1.84	0.0%
1227042188	4/2/2020	0.17	0.19	11.1%	1.90	2.12	10.9%
1226015116	4/2/2020	0.23	0.22	4.4%	2.11	2.12	0.5%
1227042057	4/2/2020	0.34	0.33	3.0%	0.71	0.68	4.3%
1226015164	4/2/2020	0.34	0.35	2.9%	1.90	1.92	1.0%
1226016254	4/3/2020	0.08	0.08	0.0%	0.08	0.08	0.0%
1226016316	4/3/2020	0.09	0.08	11.8%	0.10	0.11	9.5%
1226016173	4/3/2020	0.11	0.09	20.0%	2.62	2.66	1.5%
1227042228	4/3/2020	0.11	0.11	0.0%	2.18	2.21	1.4%
1226016142	4/3/2020	0.13	0.14	7.4%	0.13	0.15	14.3%
1226016278	4/3/2020	0.15	0.14	6.9%	3.00	2.82	6.2%
1227042122	4/3/2020	0.15	0.15	0.0%	1.46	1.40	4.2%
1227042197	4/3/2020	0.22	0.20	9.5%	1.61	1.66	3.1%
1226016292	4/3/2020	0.21	0.20	4.9%	3.20	3.27	2.2%
1226016335	4/3/2020	0.20	0.22	9.5%	2.15	2.15	0.0%
1226016185	4/3/2020	0.23	0.23	0.0%	3.05	3.02	1.0%
1226016160	4/3/2020	0.23	0.24	4.3%	1.14	1.11	2.7%
1227042132	4/3/2020	0.24	0.24	0.0%	1.58	1.51	4.5%
1226016114	4/4/2020	0.07	0.06	15.4%	2.55	2.39	6.5%
1226016209	4/4/2020	0.08	0.08	0.0%	1.72	1.62	6.0%
1226016119	4/4/2020	0.09	0.09	0.0%	2.34	2.33	0.4%
1226016086	4/4/2020	0.11	0.13	16.7%	0.20	0.22	9.5%
1226016243	4/4/2020	0.25	0.23	8.3%	2.09	2.02	3.4%
1226016132	4/4/2020	0.27	0.27	0.0%	1.94	1.95	0.5%
1232012156	4/4/2020	0.39	0.40	2.5%	0.43	0.42	2.4%
1232012331	4/4/2020	0.39	0.40	2.5%	0.76	0.79	3.9%
1226016078	4/5/2020	0.09	0.09	0.0%	0.12	0.11	8.7%
1226017219	4/5/2020	0.10	0.10	0.0%	1.99	1.97	1.0%
1226017122	4/5/2020	0.12	0.12	0.0%	2.13	2.15	0.9%
1232012033	4/5/2020	0.15	0.15	0.0%	0.36	0.35	2.8%
1226017243	4/5/2020	0.17	0.15	12.5%	2.24	2.20	1.8%
1232012044	4/5/2020	0.14	0.16	13.3%	0.10	0.11	9.5%
1226016058	4/5/2020	0.17	0.16	6.1%	1.10	1.06	3.7%
1226017437	4/5/2020	0.16	0.16	0.0%	3.13	3.18	1.6%
1226017169	4/5/2020	0.17	0.17	0.0%	1.63	1.69	3.6%
1226017018	4/5/2020	0.13	0.17	26.7%	2.18	2.19	0.5%
1226017450	4/5/2020	0.17	0.17	0.0%	2.85	2.94	3.1%
1226017438	4/5/2020	0.15	0.17	12.5%	3.35	3.39	1.2%
1226017271	4/5/2020	0.18	0.18	0.0%	2.75	2.79	1.4%
1226017119	4/5/2020	0.18	0.19	5.4%	2.55	2.82	10.1%
1232012042	4/5/2020	0.22	0.22	0.0%	0.10	0.11	9.5%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226016071	4/5/2020	0.22	0.22	0.0%	2.26	2.30	1.8%
1226017092	4/5/2020	0.22	0.23	4.4%	0.97	0.96	1.0%
1226017238	4/5/2020	0.26	0.25	3.9%	2.52	2.40	4.9%
1232012114	4/5/2020	0.28	0.26	7.4%	0.12	0.12	0.0%
1226017060	4/5/2020	0.25	0.26	3.9%	1.30	1.35	3.8%
1232012281	4/5/2020	0.30	0.29	3.4%	0.22	0.22	0.0%
1226017062	4/5/2020	0.29	0.29	0.0%	1.00	1.00	0.0%
1226017014	4/5/2020	0.31	0.31	0.0%	2.25	2.25	0.0%
1232012124	4/5/2020	0.33	0.34	3.0%	0.69	0.67	2.9%
1232012029	4/5/2020	0.36	0.36	0.0%	1.18	1.14	3.4%
1226017036	4/5/2020	0.34	0.40	16.2%	2.29	2.32	1.3%
1232012204	4/5/2020	0.46	0.43	6.7%	0.48	0.44	8.7%
1226017142	4/5/2020	0.45	0.46	2.2%	1.88	1.88	0.0%
1226016035	4/5/2020	0.57	0.55	3.6%	1.03	1.07	3.8%
1226017353	4/7/2020	0.21	0.21	0.0%	2.26	2.33	3.1%
1226017378	4/7/2020	0.26	0.25	3.9%	2.25	2.22	1.3%
1226020091	4/7/2020	0.27	0.26	3.8%	0.86	0.88	2.3%
1226020095	4/7/2020	0.29	0.28	3.5%	1.73	1.75	1.1%
1226017307	4/8/2020	0.21	0.22	4.7%	2.60	2.55	1.9%
1226017421	4/8/2020	0.23	0.24	4.3%	3.37	3.32	1.5%
1226017210	4/8/2020	0.28	0.27	3.6%	2.73	2.70	1.1%
1226020085	4/8/2020	0.28	0.28	0.0%	0.08	0.08	0.0%
1226017261	4/8/2020	0.26	0.28	7.4%	2.51	2.54	1.2%
1226020143	4/9/2020	0.10	0.10	0.0%	1.01	1.02	1.0%
1226020204	4/9/2020	0.12	0.13	8.0%	0.09	0.09	0.0%
1226020705	4/9/2020	0.17	0.18	5.7%	3.97	4.09	3.0%
1226017359	4/9/2020	0.17	0.18	5.7%	5.42	5.39	0.6%
1226017208	4/9/2020	0.23	0.22	4.4%	1.09	1.07	1.9%
1226020185	4/9/2020	0.22	0.22	0.0%	4.20	4.32	2.8%
1226017003	4/9/2020	0.28	0.26	7.4%	1.37	1.36	0.7%
1226017152	4/9/2020	0.33	0.32	3.1%	0.68	0.68	0.0%
1226020061	4/9/2020	0.33	0.34	3.0%	1.86	1.83	1.6%
1226020071	4/9/2020	0.52	0.52	0.0%	1.06	1.07	0.9%
1225002248	4/9/2020	0.60	0.60	0.0%	2.02	1.91	5.6%
1225002292	4/9/2020	0.76	0.74	2.7%	2.43	2.39	1.7%
1225002362	4/9/2020	0.76	0.77	1.3%	1.72	1.73	0.6%
1225002287	4/9/2020	1.00	1.00	0.0%	1.89	1.91	1.1%
1226020189	4/9/2020	1.10	1.09	0.9%	1.90	1.88	1.1%
1226020326	4/10/2020	0.05	0.05	0.0%	0.16	0.15	6.5%
1226020325	4/10/2020	0.08	0.08	0.0%	0.46	0.47	2.2%
1225002394	4/10/2020	0.10	0.10	0.0%	0.99	1.03	4.0%
1226020156	4/10/2020	0.09	0.11	20.0%	1.12	1.13	0.9%
1226017022	4/10/2020	0.18	0.17	5.7%	1.43	1.41	1.4%
1225002263	4/10/2020	0.34	0.34	0.0%	1.30	1.27	2.3%
1226017129	4/10/2020	0.35	0.35	0.0%	1.48	1.43	3.4%
1226020245	4/10/2020	0.44	0.44	0.0%	3.03	3.03	0.0%
1225002272	4/10/2020	0.52	0.51	1.9%	1.30	1.31	0.8%
1226020504	4/10/2020	0.65	0.65	0.0%	2.22	2.22	0.0%
1225002257	4/10/2020	0.70	0.71	1.4%	2.30	2.30	0.0%
1225002349	4/10/2020	0.76	0.76	0.0%	1.82	1.82	0.0%
1225002315	4/10/2020	0.77	0.76	1.3%	2.35	2.41	2.5%
1226020394	4/10/2020	0.77	0.76	1.3%	2.76	2.80	1.4%
1226020329	4/10/2020	0.77	0.77	0.0%	1.85	1.84	0.5%
1226020482	4/10/2020	0.90	0.90	0.0%	1.60	1.60	0.0%
1226020581	4/10/2020	0.93	0.93	0.0%	1.76	1.78	1.1%
1225002256	4/10/2020	0.98	0.98	0.0%	1.94	1.99	2.5%

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1225002253	4/10/2020	1.09	1.03	5.7%	1.89	1.82	3.8%
1225002027	4/11/2020	0.21	0.20	4.9%	2.69	2.72	1.1%
1225002035	4/11/2020	0.20	0.20	0.0%	4.05	4.00	1.2%
1226017281	4/11/2020	0.21	0.22	4.7%	1.88	1.90	1.1%
1225002008	4/11/2020	0.22	0.22	0.0%	2.31	2.22	4.0%
1226017081	4/11/2020	0.24	0.24	0.0%	1.65	1.56	5.6%
1225002020	4/11/2020	0.29	0.28	3.5%	2.70	2.68	0.7%
1225002129	4/11/2020	0.30	0.30	0.0%	2.74	2.80	2.2%
1225002177	4/11/2020	0.33	0.34	3.0%	2.10	2.20	4.7%
1225002077	4/11/2020	0.42	0.41	2.4%	2.52	2.61	3.5%
1225002155	4/11/2020	0.43	0.42	2.4%	2.70	2.71	0.4%
1225002090	4/11/2020	0.49	0.48	2.1%	2.67	2.70	1.1%
1225002153	4/11/2020	0.51	0.51	0.0%	2.11	2.14	1.4%
1225002042	4/11/2020	0.52	0.53	1.9%	2.18	2.15	1.4%
1225002091	4/11/2020	0.63	0.63	0.0%	2.41	2.35	2.5%
1225002206	4/11/2020	0.84	0.84	0.0%	1.73	1.65	4.7%
1226020369	4/12/2020	0.16	0.14	13.3%	1.69	1.72	1.8%
1226020265	4/12/2020	0.16	0.17	6.1%	1.25	1.24	0.8%
1226020442	4/12/2020	0.22	0.22	0.0%	2.49	2.35	5.8%
1226020470	4/12/2020	0.28	0.29	3.5%	0.08	0.09	11.8%
1226020344	4/12/2020	0.58	0.57	1.7%	1.56	1.54	1.3%
1226020384	4/12/2020	0.60	0.61	1.7%	1.85	1.84	0.5%
1226020213	4/12/2020	1.02	0.99	3.0%	1.78	1.74	2.3%
1226020431	4/12/2020	1.05	1.08	2.8%	1.46	1.50	2.7%
1226020300	4/12/2020	1.15	1.13	1.8%	1.82	1.77	2.8%
1226020601	4/13/2020	0.12	0.10	18.2%	0.10	0.09	10.5%
1226020599	4/13/2020	0.16	0.14	13.3%	0.11	0.10	9.5%
1226024134	4/13/2020	0.22	0.20	9.5%	1.40	1.33	5.1%
1226024050	4/13/2020	0.21	0.20	4.9%	1.98	1.89	4.7%
1226024138	4/13/2020	0.26	0.26	0.0%	1.92	2.02	5.1%
1234099037	4/13/2020	0.28	0.27	3.6%	0.90	0.85	5.7%
1226024144	4/13/2020	0.28	0.28	0.0%	1.72	1.77	2.9%
1226020618	4/13/2020	0.30	0.29	3.4%	0.73	0.68	7.1%
1226024004	4/13/2020	0.32	0.34	6.1%	1.30	1.28	1.6%
1226020525	4/13/2020	0.35	0.35	0.0%	0.33	0.34	3.0%
1226024152	4/13/2020	0.40	0.41	2.5%	1.09	1.16	6.2%
1226024143	4/13/2020	0.46	0.43	6.7%	1.58	1.45	8.6%
1226024042	4/13/2020	0.45	0.49	8.5%	1.67	1.66	0.6%
1226020597	4/13/2020	0.49	0.50	2.0%	1.70	1.72	1.2%
1234099048	4/13/2020	0.61	0.59	3.3%	0.42	0.42	0.0%
1226024162	4/13/2020	0.69	0.69	0.0%	1.18	1.10	7.0%
1226020512	4/13/2020	1.28	1.25	2.4%	2.02	2.02	0.0%
1226020513	4/13/2020	1.31	1.36	3.7%	2.22	2.24	0.9%
1226020037	4/14/2020	0.08	0.09	11.8%	1.11	1.10	0.9%
1226024021	4/14/2020	0.15	0.14	6.9%	1.69	1.74	2.9%
1226024066	4/14/2020	0.18	0.17	5.7%	1.90	1.90	0.0%
1225002444	4/14/2020	0.27	0.24	11.8%	0.38	0.37	2.7%
1225002398	4/14/2020	0.25	0.24	4.1%	1.56	1.52	2.6%
1226024089	4/14/2020	0.27	0.28	3.6%	0.82	0.85	3.6%
1225002460	4/14/2020	0.27	0.29	7.1%	2.36	2.39	1.3%
1225002406	4/14/2020	0.38	0.37	2.7%	0.92	0.86	6.7%
1225002438	4/14/2020	0.40	0.39	2.5%	0.84	0.83	1.2%
1225002526	4/14/2020	0.84	0.86	2.4%	2.41	2.36	2.1%
1226021509	4/15/2020	0.22	0.20	9.5%	1.02	1.09	6.6%
1226021068	4/15/2020	0.24	0.23	4.3%	2.71	2.54	6.5%
1226021498	4/15/2020	0.25	0.25	0.0%	1.01	1.03	2.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226021525	4/15/2020	0.55	0.51	7.5%	0.97	0.99	2.0%
1226021475	4/16/2020	0.14	0.14	0.0%	1.74	1.63	6.5%
1226021474	4/16/2020	0.18	0.20	10.5%	1.63	1.68	3.0%
1226021020	4/16/2020	0.22	0.22	0.0%	2.06	2.10	1.9%
1226021464	4/16/2020	0.25	0.26	3.9%	1.74	1.73	0.6%
1226021021	4/16/2020	0.28	0.27	3.6%	2.96	3.02	2.0%
1226021480	4/16/2020	0.34	0.33	3.0%	1.80	1.76	2.2%
1226021040	4/16/2020	0.72	0.72	0.0%	1.38	1.46	5.6%
1226021377	4/17/2020	0.04	0.04	0.0%	1.65	1.59	3.7%
1226021320	4/17/2020	0.10	0.11	9.5%	2.41	2.40	0.4%
1226021341	4/17/2020	0.15	0.16	6.5%	1.61	1.66	3.1%
1226021346	4/17/2020	0.17	0.16	6.1%	2.14	2.10	1.9%
1226021359	4/17/2020	0.16	0.18	11.8%	1.69	1.74	2.9%
1226021191	4/17/2020	0.17	0.18	5.7%	2.00	1.96	2.0%
1226021148	4/17/2020	0.20	0.19	5.1%	1.47	1.43	2.8%
1226021166	4/17/2020	0.17	0.19	11.1%	1.66	1.69	1.8%
1226021352	4/17/2020	0.19	0.19	0.0%	2.31	2.33	0.9%
1226021372	4/17/2020	0.20	0.20	0.0%	2.38	2.42	1.7%
1226021182	4/17/2020	0.25	0.25	0.0%	1.34	1.54	13.9%
1226021134	4/17/2020	0.26	0.26	0.0%	1.28	1.31	2.3%
1226021306	4/17/2020	0.27	0.29	7.1%	1.15	1.17	1.7%
1226021295	4/17/2020	0.36	0.36	0.0%	1.82	1.74	4.5%
1226021356	4/17/2020	0.42	0.39	7.4%	1.60	1.56	2.5%
1225002518	4/17/2020	0.64	0.61	4.8%	2.40	2.36	1.7%
1225002501	4/17/2020	0.76	0.74	2.7%	1.69	1.65	2.4%
1226029038	4/18/2020	0.18	0.17	5.7%	2.89	2.87	0.7%
1226021428	4/18/2020	0.19	0.20	5.1%	1.97	1.89	4.1%
1226029136	4/18/2020	0.32	0.31	3.2%	1.42	1.54	8.1%
1226029074	4/18/2020	0.32	0.34	6.1%	2.09	2.22	6.0%
1226029055	4/18/2020	0.38	0.37	2.7%	1.36	1.31	3.7%
1226029071	4/18/2020	0.41	0.43	4.8%	1.57	1.62	3.1%
1226029064	4/18/2020	0.44	0.44	0.0%	1.42	1.40	1.4%
1226029067	4/18/2020	0.50	0.52	3.9%	1.41	1.38	2.2%
1226021380	4/18/2020	0.58	0.58	0.0%	0.73	0.81	10.4%
1226021417	4/19/2020	0.29	0.31	6.7%	2.13	2.17	1.9%
1226021115	4/20/2020	0.19	0.19	0.0%	1.39	1.41	1.4%
1226021206	4/20/2020	0.19	0.19	0.0%	1.73	1.69	2.3%
1226021080	4/20/2020	0.20	0.20	0.0%	1.07	1.16	8.1%
1226021222	4/20/2020	0.21	0.21	0.0%	1.39	1.38	0.7%
1226021287	4/20/2020	0.22	0.22	0.0%	1.52	1.55	2.0%
1226021123	4/20/2020	0.24	0.22	8.7%	1.84	1.59	14.6%
1226021203	4/20/2020	0.25	0.23	8.3%	1.45	1.48	2.0%
1226021197	4/20/2020	0.25	0.25	0.0%	2.05	1.98	3.5%
1226021104	4/20/2020	0.29	0.29	0.0%	1.37	1.39	1.4%
1226021094	4/20/2020	0.32	0.34	6.1%	1.41	1.33	5.8%
1226029036	4/21/2020	0.18	0.17	5.7%	2.63	2.64	0.4%
1226029091	4/21/2020	0.28	0.28	0.0%	1.48	1.45	2.0%
1226019358	4/21/2020	0.89	0.88	1.1%	2.13	2.12	0.5%
1226008152	4/22/2020	0.11	0.11	0.0%	3.11	3.09	0.6%
1226008211	4/22/2020	0.14	0.15	6.9%	1.96	1.99	1.5%
1226008173	4/22/2020	0.20	0.20	0.0%	1.55	1.50	3.3%
1226008073	4/22/2020	0.32	0.33	3.1%	1.76	1.80	2.2%
1226008078	4/22/2020	0.36	0.36	0.0%	1.95	1.94	0.5%
1226008007	4/22/2020	0.49	0.49	0.0%	1.42	1.45	2.1%
1226008013	4/22/2020	0.52	0.52	0.0%	1.68	1.67	0.6%
1226008156	4/22/2020	0.57	0.57	0.0%	1.89	1.92	1.6%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226019316	4/22/2020	0.62	0.63	1.6%	1.64	1.69	3.0%
1226019326	4/22/2020	1.29	1.33	3.1%	2.76	2.85	3.2%
1226019299	4/23/2020	0.16	0.15	6.5%	3.57	3.58	0.3%
1226008282	4/23/2020	0.17	0.16	6.1%	1.77	1.85	4.4%
1226019298	4/23/2020	0.20	0.20	0.0%	2.14	2.14	0.0%
1226008398	4/23/2020	0.22	0.22	0.0%	1.40	1.58	12.1%
1226008255	4/23/2020	0.23	0.22	4.4%	1.93	1.91	1.0%
1226008131	4/23/2020	0.25	0.24	4.1%	2.21	2.14	3.2%
1226019283	4/23/2020	0.26	0.26	0.0%	0.13	0.12	8.0%
1226019295	4/23/2020	0.28	0.28	0.0%	1.80	1.75	2.8%
1226008135	4/23/2020	0.33	0.33	0.0%	1.98	1.99	0.5%
1226008409	4/23/2020	0.35	0.34	2.9%	1.15	1.14	0.9%
1226008265	4/23/2020	0.37	0.37	0.0%	1.07	1.07	0.0%
1226008120	4/23/2020	0.40	0.40	0.0%	1.59	1.68	5.5%
1226019163	4/23/2020	0.39	0.40	2.5%	2.60	2.60	0.0%
1226019247	4/23/2020	0.57	0.57	0.0%	2.28	2.30	0.9%
1226008106	4/23/2020	0.61	0.61	0.0%	0.90	0.96	6.5%
1226019234	4/23/2020	0.60	0.62	3.3%	2.08	2.06	1.0%
1226008124	4/23/2020	0.66	0.65	1.5%	0.76	0.77	1.3%
1226008101	4/23/2020	1.29	1.32	2.3%	0.45	0.44	2.2%
1226019023	4/24/2020	0.20	0.19	5.1%	0.10	0.10	0.0%
1226019017	4/24/2020	0.27	0.26	3.8%	0.22	0.22	0.0%
1225001198	4/24/2020	0.29	0.28	3.5%	0.40	0.40	0.0%
1225001091	4/24/2020	0.35	0.34	2.9%	1.59	1.62	1.9%
1226019101	4/24/2020	0.35	0.35	0.0%	0.37	0.34	8.5%
1225001158	4/24/2020	0.47	0.48	2.1%	1.37	1.41	2.9%
1226019046	4/24/2020	0.65	0.65	0.0%	1.84	1.92	4.3%
1226019184	4/24/2020	0.69	0.67	2.9%	2.11	2.05	2.9%
1226019031	4/24/2020	0.69	0.69	0.0%	1.76	1.79	1.7%
1226019083	4/24/2020	0.97	0.97	0.0%	2.31	2.39	3.4%
1226008086	4/25/2020	0.18	0.17	5.7%	4.33	4.34	0.2%
1226008331	4/25/2020	0.25	0.26	3.9%	1.95	1.90	2.6%
1226008035	4/25/2020	0.32	0.33	3.1%	1.99	2.03	2.0%
1226019153	4/25/2020	0.40	0.40	0.0%	2.33	2.32	0.4%
1226008141	4/25/2020	0.51	0.52	1.9%	0.85	0.85	0.0%
1226019069	4/25/2020	0.65	0.66	1.5%	2.41	2.44	1.2%
1225001229	4/26/2020	0.19	0.19	0.0%	0.89	0.90	1.1%
1225001173	4/26/2020	0.30	0.31	3.3%	1.20	1.22	1.7%
1225001102	4/26/2020	0.43	0.42	2.4%	2.70	2.68	0.7%
1225001006	4/26/2020	0.40	0.43	7.2%	1.94	1.95	0.5%
1225001001	4/26/2020	0.48	0.53	9.9%	1.77	1.86	5.0%
1225001002	4/26/2020	0.51	0.54	5.7%	1.85	1.91	3.2%
1225001413	4/26/2020	0.51	0.55	7.5%	1.59	1.70	6.7%
1225001062	4/26/2020	0.54	0.58	7.1%	1.94	2.00	3.0%
1225003196	4/27/2020	0.12	0.12	0.0%	0.33	0.31	6.3%
1225003223	4/27/2020	0.15	0.14	6.9%	0.40	0.52	26.1%
1226019113	4/27/2020	0.17	0.17	0.0%	1.53	1.48	3.3%
1226019120	4/27/2020	0.17	0.18	5.7%	1.94	1.92	1.0%
1226008291	4/27/2020	0.19	0.22	14.6%	2.10	2.09	0.5%
1226008303	4/27/2020	0.23	0.24	4.3%	2.91	2.95	1.4%
1225001078	4/27/2020	0.26	0.28	7.4%	2.02	2.04	1.0%
1225001148	4/27/2020	0.29	0.29	0.0%	2.36	2.32	1.7%
1226019201	4/27/2020	0.31	0.30	3.3%	1.01	0.98	3.0%
1225001175	4/27/2020	0.42	0.42	0.0%	2.14	2.12	0.9%
1225003234	4/27/2020	0.52	0.54	3.8%	0.47	0.46	2.2%
1225001076	4/27/2020	0.82	0.81	1.2%	2.08	2.10	1.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225001217	4/27/2020	0.95	0.94	1.1%	2.43	2.42	0.4%
1226018190	4/30/2020	0.20	0.19	5.1%	2.02	2.09	3.4%
1226018245	4/30/2020	0.20	0.23	14.0%	1.55	1.67	7.5%
1226018225	4/30/2020	0.22	0.23	4.4%	3.14	3.00	4.6%
1226018170	4/30/2020	0.24	0.23	4.3%	3.47	3.13	10.3%
1226018008	4/30/2020	0.25	0.27	7.7%	1.71	1.62	5.4%
1226018027	4/30/2020	0.27	0.27	0.0%	1.65	1.65	0.0%
1225001039	4/30/2020	0.23	0.27	16.0%	2.26	2.07	8.8%
1225001024	4/30/2020	0.29	0.29	0.0%	2.08	2.15	3.3%
1226026082	4/30/2020	0.29	0.30	3.4%	1.80	1.79	0.6%
1226026126	4/30/2020	0.35	0.35	0.0%	2.29	2.11	8.2%
1226018233	4/30/2020	0.34	0.36	5.7%	1.11	1.08	2.7%
1226026055	4/30/2020	0.35	0.36	2.8%	8.67	8.52	1.7%
1226026073	4/30/2020	0.39	0.38	2.6%	2.28	2.26	0.9%
1226018154	4/30/2020	0.39	0.39	0.0%	1.27	1.32	3.9%
1226026120	4/30/2020	0.38	0.39	2.6%	1.38	1.36	1.5%
1226026104	4/30/2020	0.41	0.40	2.5%	4.83	4.68	3.2%
1226018178	4/30/2020	0.42	0.42	0.0%	1.26	1.20	4.9%
1225001030	4/30/2020	0.41	0.42	2.4%	1.84	1.89	2.7%
1226026133	4/30/2020	0.47	0.49	4.2%	1.53	1.53	0.0%
1225001056	4/30/2020	0.50	0.49	2.0%	2.26	2.18	3.6%
1226026099	4/30/2020	0.62	0.56	10.2%	1.49	1.33	11.3%
1226026014	4/30/2020	0.68	0.65	4.5%	2.62	2.56	2.3%
1225003120	5/1/2020	0.10	0.11	9.5%	0.28	0.25	11.3%
1225003165	5/1/2020	0.14	0.14	0.0%	0.33	0.32	3.1%
1225003154	5/1/2020	0.15	0.15	0.0%	0.38	0.40	5.1%
1225003139	5/1/2020	0.17	0.15	12.5%	0.52	0.47	10.1%
1226027167	5/1/2020	0.19	0.17	11.1%	1.70	1.67	1.8%
1226027183	5/1/2020	0.20	0.20	0.0%	2.21	2.32	4.9%
1226027003	5/1/2020	0.22	0.22	0.0%	1.72	1.79	4.0%
1226027171	5/1/2020	0.21	0.23	9.1%	1.14	1.12	1.8%
1225003179	5/1/2020	0.26	0.26	0.0%	0.65	0.65	0.0%
1226018147	5/1/2020	0.29	0.29	0.0%	1.70	1.56	8.6%
1226026114	5/1/2020	0.37	0.33	11.4%	1.49	1.48	0.7%
1226027232	5/1/2020	0.33	0.33	0.0%	2.20	2.21	0.5%
1226018151	5/1/2020	0.32	0.35	9.0%	1.76	1.88	6.6%
1226027239	5/1/2020	0.37	0.37	0.0%	1.14	1.14	0.0%
1226018238	5/1/2020	0.40	0.41	2.5%	0.59	0.58	1.7%
1226027179	5/1/2020	0.60	0.56	6.9%	1.10	1.06	3.7%
1233004161	5/2/2020	0.28	0.27	3.6%	0.25	0.24	4.1%
1233004189	5/2/2020	0.31	0.30	3.3%	0.50	0.47	6.2%
1233004151	5/2/2020	0.48	0.47	2.1%	0.44	0.40	9.5%
1225003107	5/3/2020	0.23	0.24	4.3%	0.23	0.24	4.3%
1226018049	5/3/2020	0.25	0.24	4.1%	1.37	1.31	4.5%
1226018086	5/3/2020	0.26	0.24	8.0%	2.19	2.25	2.7%
1225003092	5/3/2020	0.27	0.26	3.8%	1.29	1.35	4.5%
1226027154	5/3/2020	0.29	0.27	7.1%	1.48	1.36	8.5%
1233004133	5/3/2020	0.25	0.30	18.2%	0.32	0.39	19.7%
1226018073	5/3/2020	0.33	0.32	3.1%	2.09	2.14	2.4%
1226027139	5/3/2020	0.44	0.40	9.5%	2.72	2.59	4.9%
1233004139	5/3/2020	0.43	0.43	0.0%	0.46	0.57	21.4%
1225003089	5/3/2020	0.53	0.48	9.9%	1.10	0.98	11.5%
1225006438	5/4/2020	0.19	0.19	0.0%	2.75	2.75	0.0%
1225003061	5/4/2020	0.22	0.21	4.7%	0.35	0.35	0.0%
1225006619	5/4/2020	0.21	0.22	4.7%	5.94	6.02	1.3%
1225003014	5/4/2020	0.24	0.23	4.3%	0.52	0.52	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1226018112	5/4/2020	0.24	0.24	0.0%	3.08	3.10	0.6%
1226027077	5/4/2020	0.26	0.27	3.8%	1.62	1.67	3.0%
1225003003	5/4/2020	0.28	0.28	0.0%	0.63	0.59	6.6%
1226018110	5/4/2020	0.30	0.31	3.3%	1.56	1.57	0.6%
1225003055	5/4/2020	0.32	0.32	0.0%	0.38	0.38	0.0%
1225006445	5/4/2020	0.38	0.38	0.0%	3.82	3.80	0.5%
1225006607	5/4/2020	0.47	0.46	2.2%	2.10	2.05	2.4%
1225003037	5/4/2020	0.51	0.50	2.0%	0.23	0.25	8.3%
1225003300	5/4/2020	0.58	0.57	1.7%	0.32	0.32	0.0%
1225003009	5/4/2020	0.97	0.96	1.0%	0.32	0.34	6.1%
1225006325	5/5/2020	0.16	0.15	6.5%	0.24	0.23	4.3%
1225003278	5/5/2020	0.19	0.18	5.4%	0.60	0.62	3.3%
1226009117	5/5/2020	0.24	0.24	0.0%	1.07	1.07	0.0%
1226009026	5/5/2020	0.28	0.27	3.6%	1.46	1.37	6.4%
1225006304	5/5/2020	0.27	0.27	0.0%	3.45	3.47	0.6%
1226009013	5/5/2020	0.30	0.29	3.4%	0.68	0.68	0.0%
1226009058	5/5/2020	0.37	0.38	2.7%	1.55	1.52	2.0%
1225006331	5/5/2020	0.41	0.40	2.5%	1.98	1.90	4.1%
1226009019	5/5/2020	0.46	0.46	0.0%	1.30	1.19	8.8%
1225003289	5/5/2020	0.49	0.48	2.1%	0.24	0.23	4.3%
1225006361	5/5/2020	0.54	0.57	5.4%	2.26	2.25	0.4%
1226009048	5/5/2020	0.58	0.58	0.0%	1.42	1.50	5.5%
1225003259	5/5/2020	0.75	0.75	0.0%	0.54	0.53	1.9%
1225006288	5/5/2020	0.76	0.76	0.0%	1.75	1.74	0.6%
1225006357	5/5/2020	0.78	0.79	1.3%	1.67	1.65	1.2%
1225006359	5/5/2020	0.77	0.80	3.8%	1.72	1.81	5.1%
1226009174	5/7/2020	0.24	0.24	0.0%	0.40	0.42	4.9%
1226027063	5/7/2020	0.24	0.24	0.0%	0.90	0.99	9.5%
1226009159	5/7/2020	0.26	0.26	0.0%	0.54	0.55	1.8%
1226009155	5/7/2020	0.31	0.31	0.0%	1.14	1.09	4.5%
1225006238	5/7/2020	0.35	0.35	0.0%	1.46	1.51	3.4%
1225006250	5/7/2020	0.36	0.36	0.0%	1.74	1.80	3.4%
1226009063	5/7/2020	0.37	0.37	0.0%	0.46	0.46	0.0%
1226027053	5/7/2020	0.45	0.45	0.0%	2.26	2.39	5.6%
1226027056	5/7/2020	0.59	0.59	0.0%	2.00	2.01	0.5%
1225006216	5/7/2020	0.95	0.95	0.0%	2.76	2.67	3.3%
1226009189	5/8/2020	0.17	0.18	5.7%	1.86	1.88	1.1%
1226009220	5/8/2020	0.20	0.19	5.1%	0.61	0.59	3.3%
1225006129	5/8/2020	0.20	0.20	0.0%	0.79	0.79	0.0%
1226009233	5/8/2020	0.25	0.26	3.9%	1.61	1.50	7.1%
1232013028	5/8/2020	0.31	0.30	3.3%	0.74	0.73	1.4%
1226009201	5/8/2020	0.30	0.31	3.3%	0.77	0.79	2.6%
1226027093	5/8/2020	0.34	0.33	3.0%	2.15	2.18	1.4%
1226009211	5/8/2020	0.41	0.40	2.5%	1.90	1.90	0.0%
1225006177	5/8/2020	0.45	0.44	2.2%	2.13	2.14	0.5%
1232013020	5/8/2020	0.45	0.45	0.0%	0.33	0.33	0.0%
1232013046	5/8/2020	0.46	0.45	2.2%	0.37	0.35	5.6%
1226009242	5/8/2020	0.44	0.46	4.4%	0.73	0.78	6.6%
1225006186	5/8/2020	0.52	0.52	0.0%	2.04	2.07	1.5%
1232013033	5/8/2020	0.63	0.64	1.6%	0.96	0.95	1.0%
1225006140	5/8/2020	0.66	0.67	1.5%	1.69	1.78	5.2%
1225006406	5/9/2020	0.53	0.52	1.9%	2.38	2.30	3.4%
1225006381	5/9/2020	0.74	0.74	0.0%	3.60	3.54	1.7%
1225006100	5/10/2020	0.12	0.12	0.0%	0.56	0.56	0.0%
1225009028	5/10/2020	0.21	0.19	10.0%	1.03	1.06	2.9%
1225009023	5/10/2020	0.21	0.21	0.0%	1.03	1.08	4.7%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225009034	5/10/2020	0.27	0.22	20.4%	1.06	0.95	10.9%
1225006096	5/10/2020	0.24	0.24	0.0%	0.66	0.66	0.0%
1225009123	5/10/2020	0.28	0.27	3.6%	0.56	0.56	0.0%
1225009066	5/10/2020	0.38	0.37	2.7%	1.38	1.39	0.7%
1225006066	5/10/2020	0.41	0.40	2.5%	3.31	3.46	4.4%
1225009079	5/10/2020	0.40	0.41	2.5%	1.48	1.51	2.0%
1225009057	5/10/2020	0.49	0.48	2.1%	1.08	1.09	0.9%
1225009108	5/10/2020	0.49	0.48	2.1%	1.29	1.27	1.6%
1225006074	5/10/2020	0.54	0.52	3.8%	1.60	1.59	0.6%
1225006037	5/10/2020	0.54	0.53	1.9%	1.65	1.66	0.6%
1225009051	5/10/2020	0.58	0.59	1.7%	1.29	1.25	3.1%
1225006011	5/10/2020	0.66	0.65	1.5%	1.99	1.93	3.1%
1225006057	5/10/2020	0.64	0.65	1.6%	2.24	2.30	2.6%
1225009096	5/10/2020	0.71	0.73	2.8%	1.49	1.52	2.0%
1225009132	5/10/2020	0.77	0.74	4.0%	1.80	1.67	7.5%
1225006063	5/10/2020	1.01	1.00	1.0%	2.28	2.24	1.8%
1225009062	5/10/2020	1.05	1.06	0.9%	0.86	0.87	1.2%
1225006020	5/10/2020	1.07	1.10	2.8%	1.60	1.64	2.5%
1225009141	5/10/2020	1.38	1.31	5.2%	1.85	1.75	5.6%
1225009171	5/10/2020	2.69	2.60	3.4%	0.91	0.92	1.1%
1233005011	5/11/2020	0.24	0.24	0.0%	0.17	0.18	5.7%
1233004116	5/11/2020	0.29	0.30	3.4%	0.38	0.38	0.0%
1233004042	5/11/2020	0.31	0.31	0.0%	0.22	0.22	0.0%
1233005023	5/11/2020	0.38	0.39	2.6%	0.29	0.29	0.0%
1233004018	5/11/2020	0.43	0.41	4.8%	0.98	1.01	3.0%
1233004053	5/11/2020	0.43	0.44	2.3%	0.19	0.20	5.1%
1233004012	5/11/2020	0.46	0.45	2.2%	0.26	0.23	12.2%
1233005034	5/11/2020	0.50	0.50	0.0%	0.28	0.30	6.9%
1225009015	5/12/2020	0.14	0.20	35.3%	1.22	1.20	1.7%
1225009005	5/12/2020	0.57	0.59	3.4%	1.21	1.20	0.8%
1225009189	5/14/2020	0.06	0.06	0.0%	0.28	0.24	15.4%
1233006009	5/14/2020	0.17	0.16	6.1%	0.25	0.25	0.0%
1225004003	5/14/2020	0.17	0.17	0.0%	0.69	0.68	1.5%
1225004172	5/14/2020	0.18	0.19	5.4%	1.88	1.91	1.6%
1225004215	5/14/2020	0.21	0.20	4.9%	2.66	2.71	1.9%
1225004109	5/14/2020	0.24	0.23	4.3%	1.39	1.40	0.7%
1225004099	5/14/2020	0.25	0.23	8.3%	1.73	1.65	4.7%
1225004078	5/14/2020	0.22	0.23	4.4%	1.84	1.79	2.8%
1225004337	5/14/2020	0.22	0.23	4.4%	2.12	2.11	0.5%
1225004135	5/14/2020	0.22	0.23	4.4%	2.20	2.16	1.8%
1225004198	5/14/2020	0.23	0.23	0.0%	2.30	2.39	3.8%
1225004322	5/14/2020	0.24	0.24	0.0%	2.69	2.76	2.6%
1225004086	5/14/2020	0.30	0.28	6.9%	2.11	2.14	1.4%
1225004089	5/14/2020	0.29	0.29	0.0%	2.19	2.16	1.4%
1225004053	5/14/2020	0.30	0.30	0.0%	0.92	0.93	1.1%
1225004050	5/14/2020	0.31	0.31	0.0%	0.71	0.77	8.1%
1225004177	5/14/2020	0.31	0.31	0.0%	2.56	2.51	2.0%
1225009202	5/14/2020	0.31	0.33	6.3%	0.96	0.96	0.0%
1225004056	5/14/2020	0.24	0.35	37.3%	0.98	0.73	29.2%
1225004035	5/14/2020	0.31	0.35	12.1%	1.70	2.05	18.7%
1225004324	5/14/2020	0.36	0.35	2.8%	2.81	2.79	0.7%
1225004161	5/14/2020	0.38	0.37	2.7%	1.75	1.81	3.4%
1225004014	5/14/2020	0.38	0.37	2.7%	1.84	1.83	0.5%
1225005035	5/14/2020	0.56	0.55	1.8%	1.65	1.63	1.2%
1225009239	5/14/2020	0.53	0.56	5.5%	1.81	1.88	3.8%
1225005224	5/14/2020	0.66	0.66	0.0%	1.87	1.88	0.5%

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1225005236	5/14/2020	0.66	0.71	7.3%	1.70	1.71	0.6%
1225005040	5/14/2020	0.78	0.75	3.9%	1.40	1.43	2.1%
1225005162	5/14/2020	0.78	0.79	1.3%	1.74	1.73	0.6%
1225009226	5/14/2020	0.94	0.96	2.1%	2.26	2.26	0.0%
1225005042	5/14/2020	1.05	1.04	1.0%	1.49	1.54	3.3%
1225005229	5/14/2020	1.20	1.17	2.5%	2.13	2.00	6.3%
1225007237	5/15/2020	0.16	0.16	0.0%	0.46	0.47	2.2%
1225007215	5/15/2020	0.19	0.19	0.0%	0.92	0.93	1.1%
1225004284	5/15/2020	0.23	0.22	4.4%	2.76	2.85	3.2%
1225005087	5/15/2020	0.23	0.23	0.0%	2.40	2.42	0.8%
1225007210	5/15/2020	0.31	0.26	17.5%	0.18	0.16	11.8%
1225005130	5/15/2020	0.29	0.28	3.5%	2.19	2.09	4.7%
1225005135	5/15/2020	0.28	0.29	3.5%	2.50	2.43	2.8%
1225007297	5/15/2020	0.31	0.33	6.3%	0.74	0.74	0.0%
1225007226	5/15/2020	0.36	0.34	5.7%	0.15	0.14	6.9%
1225005203	5/15/2020	0.34	0.36	5.7%	2.79	2.82	1.1%
1225007209	5/15/2020	0.33	0.37	11.4%	0.11	0.10	9.5%
1225005208	5/15/2020	0.39	0.38	2.6%	3.13	3.23	3.1%
1225005263	5/15/2020	0.42	0.42	0.0%	1.11	1.15	3.5%
1225004252	5/15/2020	0.45	0.45	0.0%	3.37	3.20	5.2%
1225005247	5/15/2020	0.52	0.51	1.9%	2.00	2.12	5.8%
1225005216	5/15/2020	0.52	0.52	0.0%	1.73	1.72	0.6%
1225005156	5/15/2020	0.53	0.59	10.7%	2.26	2.49	9.7%
1225005188	5/15/2020	0.67	0.72	7.2%	2.25	2.23	0.9%
1225007114	5/18/2020	0.18	0.17	5.7%	2.23	2.20	1.4%
1225007185	5/18/2020	0.23	0.22	4.4%	0.65	0.69	6.0%
1225007091	5/18/2020	0.25	0.25	0.0%	1.22	1.28	4.8%
1225005002	5/18/2020	0.26	0.26	0.0%	2.52	2.60	3.1%
1225005143	5/18/2020	0.25	0.26	3.9%	2.58	2.69	4.2%
1225007084	5/18/2020	0.26	0.28	7.4%	3.00	2.93	2.4%
1225007064	5/18/2020	0.32	0.30	6.5%	2.71	3.05	11.8%
1225007176	5/18/2020	0.34	0.42	21.1%	0.15	0.14	6.9%
1225007120	5/18/2020	0.43	0.44	2.3%	0.20	0.18	10.5%
1225007078	5/18/2020	0.57	0.58	1.7%	2.54	2.67	5.0%
1225007004	5/20/2020	0.19	0.18	5.4%	2.47	2.45	0.8%
1225007023	5/20/2020	0.19	0.19	0.0%	2.94	2.97	1.0%
1225007002	5/20/2020	0.23	0.23	0.0%	2.48	2.40	3.3%
1225007014	5/20/2020	0.27	0.28	3.6%	2.74	2.67	2.6%
1225007032	5/20/2020	0.35	0.34	2.9%	2.83	2.80	1.1%
1225007042	5/20/2020	0.44	0.45	2.2%	2.17	2.09	3.8%
1434002127	5/20/2020	1.29	1.35	4.5%	0.78	0.71	9.4%
1434002044	5/20/2020	2.18	2.22	1.8%	0.21	0.20	4.9%
1225014153	5/21/2020	0.15	0.15	0.0%	1.77	1.75	1.1%
1225014102	5/21/2020	0.20	0.19	5.1%	3.28	3.50	6.5%
1225014089	5/21/2020	0.21	0.22	4.7%	2.16	2.11	2.3%
1225014291	5/21/2020	0.25	0.24	4.1%	0.07	0.07	0.0%
1225014146	5/21/2020	0.24	0.24	0.0%	1.57	1.59	1.3%
1225014195	5/21/2020	0.23	0.25	8.3%	0.07	0.08	13.3%
1225014191	5/21/2020	0.29	0.28	3.5%	1.26	1.29	2.4%
1225014302	5/21/2020	0.34	0.32	6.1%	0.29	0.31	6.7%
1225014121	5/21/2020	0.33	0.32	3.1%	2.65	2.58	2.7%
1225014308	5/21/2020	0.33	0.33	0.0%	0.73	0.71	2.8%
1225014097	5/21/2020	0.37	0.36	2.7%	3.84	3.82	0.5%
1225014114	5/21/2020	0.38	0.37	2.7%	2.48	2.41	2.9%
1225014214	5/21/2020	0.49	0.48	2.1%	0.36	0.36	0.0%
1225014020	5/24/2020	0.11	0.12	8.7%	0.37	0.36	2.7%

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1225014080	5/24/2020	0.23	0.21	9.1%	1.76	1.97	11.3%
1225014048	5/24/2020	0.25	0.25	0.0%	1.87	1.93	3.2%
1225008390	5/24/2020	0.20	0.25	22.2%	2.52	2.46	2.4%
1225014074	5/24/2020	0.26	0.26	0.0%	4.90	4.93	0.6%
1225014062	5/24/2020	0.30	0.29	3.4%	4.57	4.51	1.3%
1225014027	5/24/2020	0.30	0.30	0.0%	2.35	2.43	3.3%
1225008410	5/24/2020	0.31	0.31	0.0%	2.02	2.10	3.9%
1433001158	5/24/2020	0.33	0.33	0.0%	0.16	0.16	0.0%
1225007266	5/24/2020	0.33	0.33	0.0%	1.27	1.23	3.2%
1225008368	5/24/2020	0.38	0.37	2.7%	2.10	2.08	1.0%
1225008358	5/24/2020	0.34	0.38	11.1%	2.16	2.06	4.7%
1433001080	5/24/2020	0.80	0.79	1.3%	0.76	0.76	0.0%
1433001022	5/24/2020	1.58	1.58	0.0%	3.65	3.61	1.1%
1433001063	5/24/2020	1.66	1.64	1.2%	2.64	2.58	2.3%
1433001046	5/24/2020	1.78	1.74	2.3%	1.75	1.78	1.7%
1433001146	5/24/2020	1.77	1.82	2.8%	3.23	3.27	1.2%
1433001095	5/24/2020	1.88	1.84	2.2%	0.62	0.61	1.6%
1433001036	5/24/2020	1.89	1.90	0.5%	0.97	0.99	2.0%
1433001009	5/24/2020	1.96	1.99	1.5%	0.75	0.78	3.9%
1433001109	5/24/2020	2.10	2.09	0.5%	0.68	0.71	4.3%
1433001050	5/24/2020	2.04	2.18	6.6%	0.86	0.95	9.9%
1225017214	5/25/2020	0.12	0.11	8.7%	0.55	0.58	5.3%
1225008008	5/25/2020	0.19	0.19	0.0%	0.21	0.22	4.7%
1225017233	5/25/2020	0.13	0.19	37.5%	1.71	1.73	1.2%
1225017180	5/25/2020	0.21	0.19	10.0%	1.88	1.95	3.7%
1225017316	5/25/2020	0.21	0.20	4.9%	1.43	1.45	1.4%
1225008234	5/25/2020	0.20	0.21	4.9%	2.13	2.15	0.9%
1225008182	5/25/2020	0.25	0.23	8.3%	1.83	1.81	1.1%
1225008038	5/25/2020	0.26	0.24	8.0%	1.77	1.80	1.7%
1225017177	5/25/2020	0.25	0.26	3.9%	1.99	2.02	1.5%
1225017017	5/25/2020	0.26	0.27	3.8%	1.04	1.01	2.9%
1225008128	5/25/2020	0.25	0.27	7.7%	1.99	2.00	0.5%
1225017138	5/25/2020	0.28	0.28	0.0%	1.29	1.29	0.0%
1225017010	5/25/2020	0.26	0.28	7.4%	1.30	1.40	7.4%
1225008342	5/25/2020	0.29	0.28	3.5%	1.81	1.85	2.2%
1225008101	5/25/2020	0.30	0.29	3.4%	2.00	1.94	3.0%
1225017130	5/25/2020	0.32	0.31	3.2%	1.12	1.09	2.7%
1225008309	5/25/2020	0.30	0.31	3.3%	1.87	1.95	4.2%
1225008154	5/25/2020	0.33	0.32	3.1%	2.06	2.18	5.7%
1225017112	5/25/2020	0.34	0.34	0.0%	1.03	1.09	5.7%
1225008290	5/25/2020	0.34	0.34	0.0%	2.11	2.08	1.4%
1225008030	5/25/2020	0.37	0.34	8.5%	2.36	2.29	3.0%
1225008205	5/25/2020	0.38	0.37	2.7%	1.51	1.46	3.4%
1225008121	5/25/2020	0.40	0.40	0.0%	2.18	2.21	1.4%
1225008051	5/25/2020	0.46	0.45	2.2%	0.97	0.95	2.1%
1225017061	5/25/2020	0.44	0.46	4.4%	1.29	1.35	4.5%
1225008339	5/25/2020	0.50	0.51	2.0%	1.84	1.89	2.7%
1225008139	5/25/2020	0.55	0.56	1.8%	1.30	1.32	1.5%
1225008015	5/25/2020	0.25	0.94	116.0%	1.98	1.47	29.6%
1225011072	5/27/2020	0.25	0.22	12.8%	1.84	1.61	13.3%
1225008221	5/27/2020	0.22	0.22	0.0%	2.20	2.38	7.9%
1225008116	5/27/2020	0.25	0.23	8.3%	0.44	0.38	14.6%
1225011132	5/27/2020	0.23	0.23	0.0%	1.80	1.80	0.0%
1225011001	5/27/2020	0.25	0.25	0.0%	2.19	2.23	1.8%
1225011122	5/27/2020	0.26	0.27	3.8%	1.71	1.64	4.2%
1225008327	5/27/2020	0.30	0.30	0.0%	1.16	1.19	2.6%

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1225011055	5/27/2020	0.37	0.35	5.6%	1.81	1.85	2.2%
1225008321	5/27/2020	0.37	0.38	2.7%	1.96	1.97	0.5%
1225011043	5/27/2020	0.44	0.47	6.6%	1.86	2.00	7.3%
1225008273	5/27/2020	0.50	0.50	0.0%	1.79	1.81	1.1%
1225012289	5/29/2020	0.12	0.11	8.7%	2.92	2.88	1.4%
1225012423	5/29/2020	0.16	0.15	6.5%	3.54	3.66	3.3%
1225017105	5/29/2020	0.16	0.16	0.0%	1.16	1.18	1.7%
1225012321	5/29/2020	0.18	0.16	11.8%	2.94	2.66	10.0%
1225012341	5/29/2020	0.19	0.17	11.1%	1.96	2.01	2.5%
1225017283	5/29/2020	0.18	0.19	5.4%	0.32	0.30	6.5%
1225012307	5/29/2020	0.22	0.23	4.4%	2.03	1.96	3.5%
1225017265	5/29/2020	0.24	0.24	0.0%	1.02	0.96	6.1%
1225017093	5/29/2020	0.22	0.24	8.7%	1.06	1.11	4.6%
1225012334	5/29/2020	0.22	0.24	8.7%	2.59	2.52	2.7%
1225012453	5/29/2020	0.24	0.25	4.1%	2.18	2.08	4.7%
1225012436	5/29/2020	0.25	0.25	0.0%	2.12	2.18	2.8%
1225012421	5/29/2020	0.25	0.26	3.9%	3.66	3.67	0.3%
1225017004	5/29/2020	0.31	0.29	6.7%	0.64	0.55	15.1%
1225017199	5/30/2020	0.14	0.14	0.0%	0.98	1.02	4.0%
1225012260	5/30/2020	0.15	0.15	0.0%	1.84	1.90	3.2%
1225012225	5/30/2020	0.16	0.16	0.0%	4.79	4.75	0.8%
1225017204	5/30/2020	0.17	0.17	0.0%	1.46	1.48	1.4%
1225012380	5/30/2020	0.19	0.17	11.1%	3.77	3.43	9.4%
1225012401	5/30/2020	0.19	0.19	0.0%	2.41	2.53	4.9%
1225012404	5/30/2020	0.17	0.19	11.1%	2.98	2.95	1.0%
1225017287	5/30/2020	0.23	0.22	4.4%	0.35	0.33	5.9%
1225017150	5/30/2020	0.24	0.23	4.3%	1.89	1.73	8.8%
1225012247	5/30/2020	0.23	0.23	0.0%	1.75	1.81	3.4%
1225012252	5/30/2020	0.23	0.24	4.3%	2.84	2.88	1.4%
1225012235	5/30/2020	0.26	0.26	0.0%	2.19	2.16	1.4%
1225012176	5/31/2020	0.08	0.09	11.8%	3.25	3.38	3.9%
1225012019	5/31/2020	0.12	0.13	8.0%	4.03	3.91	3.0%
1225020314	5/31/2020	0.16	0.14	13.3%	1.81	1.68	7.4%
1225012081	5/31/2020	0.17	0.15	12.5%	1.72	1.69	1.8%
1225012137	5/31/2020	0.15	0.16	6.5%	1.51	1.53	1.3%
1225012083	5/31/2020	0.17	0.17	0.0%	1.26	1.35	6.9%
1225012203	5/31/2020	0.22	0.21	4.7%	1.77	1.79	1.1%
1225012115	5/31/2020	0.22	0.24	8.7%	1.50	1.50	0.0%
1225012186	5/31/2020	0.26	0.26	0.0%	2.08	2.13	2.4%
1225012094	5/31/2020	0.28	0.29	3.5%	2.42	2.44	0.8%
1225012107	5/31/2020	0.28	0.30	6.9%	0.78	0.75	3.9%
1225012040	5/31/2020	0.32	0.31	3.2%	1.46	1.53	4.7%
1225012011	5/31/2020	0.33	0.33	0.0%	1.24	1.25	0.8%
1225012120	5/31/2020	0.42	0.41	2.4%	1.29	1.28	0.8%
1232014158	6/1/2020	0.28	0.25	11.3%	0.51	0.51	0.0%
1232014036	6/1/2020	0.30	0.29	3.4%	0.12	0.14	15.4%
1232014154	6/1/2020	0.34	0.33	3.0%	0.29	0.29	0.0%
1232014107	6/1/2020	0.38	0.37	2.7%	0.11	0.10	9.5%
1232014167	6/1/2020	0.32	0.37	14.5%	0.44	0.49	10.8%
1232014166	6/1/2020	0.40	0.39	2.5%	0.41	0.43	4.8%
1232014174	6/1/2020	0.49	0.47	4.2%	0.46	0.42	9.1%
1232014146	6/1/2020	0.47	0.48	2.1%	0.53	0.57	7.3%
1232014137	6/1/2020	0.58	0.61	5.0%	0.53	0.55	3.7%
1225020286	6/2/2020	0.17	0.17	0.0%	1.66	1.76	5.8%
1225020013	6/2/2020	0.18	0.17	5.7%	5.20	5.45	4.7%
1225020074	6/2/2020	0.17	0.17	0.0%	8.93	8.98	0.6%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225020106	6/2/2020	0.19	0.19	0.0%	1.13	1.12	0.9%
1225020250	6/2/2020	0.20	0.19	5.1%	1.85	1.77	4.4%
1225020227	6/2/2020	0.20	0.19	5.1%	1.80	1.80	0.0%
1225020191	6/2/2020	0.21	0.21	0.0%	1.24	1.26	1.6%
1225020277	6/2/2020	0.21	0.21	0.0%	1.89	1.87	1.1%
1225020320	6/2/2020	0.22	0.23	4.4%	0.28	0.28	0.0%
1225020057	6/2/2020	0.26	0.25	3.9%	3.91	4.05	3.5%
1225020176	6/2/2020	0.25	0.28	11.3%	2.09	2.12	1.4%
1225020031	6/2/2020	0.30	0.29	3.4%	1.15	1.18	2.6%
1232014123	6/2/2020	0.29	0.30	3.4%	0.16	0.17	6.1%
1225020046	6/2/2020	0.32	0.31	3.2%	1.42	1.38	2.9%
1225020146	6/2/2020	0.31	0.32	3.2%	1.51	1.56	3.3%
1225020202	6/2/2020	0.37	0.32	14.5%	1.85	1.75	5.6%
1225020102	6/2/2020	0.36	0.35	2.8%	1.50	1.55	3.3%
1225020239	6/2/2020	0.38	0.37	2.7%	2.20	2.18	0.9%
1232014060	6/2/2020	0.39	0.38	2.6%	0.56	0.60	6.9%
1232014116	6/2/2020	0.40	0.40	0.0%	0.55	0.56	1.8%
1225020018	6/2/2020	0.41	0.41	0.0%	1.77	1.83	3.3%
1225020115	6/2/2020	0.46	0.47	2.2%	4.42	4.31	2.5%
1225020005	6/2/2020	0.81	0.80	1.2%	1.56	1.57	0.6%
1225021155	6/3/2020	0.17	0.17	0.0%	1.83	1.83	0.0%
1225021188	6/3/2020	0.18	0.18	0.0%	0.93	0.90	3.3%
1225021106	6/3/2020	0.20	0.20	0.0%	1.96	2.00	2.0%
1225021174	6/3/2020	0.24	0.25	4.1%	1.14	1.12	1.8%
1225021125	6/3/2020	0.28	0.29	3.5%	1.23	1.22	0.8%
1232015224	6/3/2020	0.44	0.42	4.7%	0.38	0.35	8.2%
1232015231	6/3/2020	0.42	0.46	9.1%	0.32	0.31	3.2%
1232015207	6/3/2020	0.55	0.54	1.8%	0.35	0.34	2.9%
1232015234	6/3/2020	0.59	0.59	0.0%	0.20	0.20	0.0%
1232015149	6/3/2020	0.61	0.59	3.3%	0.42	0.44	4.7%
1225021081	6/4/2020	0.17	0.16	6.1%	2.05	1.96	4.5%
1225021088	6/4/2020	0.19	0.20	5.1%	1.19	1.18	0.8%
1225021018	6/4/2020	0.23	0.22	4.4%	2.48	2.32	6.7%
1225021004	6/4/2020	0.25	0.23	8.3%	1.41	1.48	4.8%
1225021031	6/4/2020	0.24	0.24	0.0%	1.34	1.33	0.7%
1232015058	6/4/2020	0.29	0.29	0.0%	0.19	0.19	0.0%
1232015116	6/4/2020	0.29	0.29	0.0%	0.29	0.30	3.4%
1225021043	6/4/2020	0.31	0.32	3.2%	2.00	1.95	2.5%
1225021015	6/4/2020	0.40	0.40	0.0%	2.09	2.03	2.9%
1232015083	6/4/2020	0.46	0.47	2.2%	0.35	0.35	0.0%
1225021095	6/4/2020	1.18	0.88	29.1%	2.44	2.08	15.9%
1225021274	6/6/2020	0.14	0.13	7.4%	2.31	1.94	17.4%
1225021276	6/6/2020	0.17	0.16	6.1%	2.22	1.87	17.1%
1225013359	6/6/2020	0.19	0.18	5.4%	1.73	1.84	6.2%
1225013424	6/6/2020	0.18	0.18	0.0%	3.20	3.21	0.3%
1225013319	6/6/2020	0.20	0.20	0.0%	0.32	0.32	0.0%
1225013480	6/6/2020	0.25	0.24	4.1%	2.25	2.26	0.4%
1225013350	6/6/2020	0.20	0.24	18.2%	2.53	2.63	3.9%
1225013426	6/6/2020	0.27	0.26	3.8%	2.66	2.72	2.2%
1232015026	6/6/2020	0.27	0.28	3.6%	0.36	0.36	0.0%
1232015001	6/6/2020	0.28	0.28	0.0%	1.00	1.01	1.0%
1225013445	6/6/2020	0.29	0.29	0.0%	2.48	2.55	2.8%
1225021255	6/6/2020	0.31	0.30	3.3%	0.93	0.89	4.4%
1232015270	6/6/2020	0.31	0.31	0.0%	0.61	0.58	5.0%
1225021230	6/6/2020	0.35	0.34	2.9%	1.79	1.87	4.4%
1232015156	6/6/2020	0.38	0.40	5.1%	0.09	0.10	10.5%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1232015276	6/6/2020	0.41	0.40	2.5%	0.37	0.36	2.7%
1232015075	6/6/2020	0.48	0.45	6.5%	0.40	0.38	5.1%
1232015263	6/6/2020	0.49	0.48	2.1%	0.49	0.49	0.0%
1232015074	6/6/2020	0.49	0.49	0.0%	0.45	0.45	0.0%
1225013309	6/6/2020	0.56	0.53	5.5%	1.16	1.14	1.7%
1225021216	6/7/2020	0.26	0.26	0.0%	0.78	0.77	1.3%
1225010014	6/7/2020	0.32	0.30	6.5%	1.80	1.72	4.5%
1225010005	6/7/2020	0.66	0.69	4.4%	1.57	1.54	1.9%
1225010087	6/7/2020	0.80	0.80	0.0%	2.02	1.99	1.5%
1225013278	6/8/2020	0.22	0.18	20.0%	1.94	2.10	7.9%
1225013296	6/8/2020	0.25	0.26	3.9%	0.78	0.77	1.3%
1225013300	6/8/2020	0.28	0.26	7.4%	1.70	1.49	13.2%
1225010073	6/8/2020	0.32	0.33	3.1%	2.15	2.18	1.4%
1225010070	6/8/2020	0.43	0.42	2.4%	2.52	2.57	2.0%
1433002113	6/8/2020	0.65	0.65	0.0%	1.13	1.15	1.8%
1225010035	6/8/2020	0.73	0.74	1.4%	0.75	0.83	10.1%
1225010058	6/8/2020	0.80	0.80	0.0%	2.05	2.04	0.5%
1225015102	6/9/2020	0.15	0.16	6.5%	1.05	1.06	0.9%
1225013214	6/9/2020	0.17	0.16	6.1%	2.88	2.91	1.0%
1225015054	6/9/2020	0.17	0.18	5.7%	0.93	0.92	1.1%
1225015061	6/9/2020	0.21	0.21	0.0%	0.14	0.11	24.0%
1225013228	6/9/2020	0.26	0.25	3.9%	1.85	1.78	3.9%
1225015154	6/9/2020	0.28	0.26	7.4%	0.63	0.61	3.2%
1225015096	6/9/2020	0.31	0.33	6.3%	0.43	0.44	2.3%
1225015048	6/9/2020	0.33	0.34	3.0%	0.65	0.67	3.0%
1225015058	6/9/2020	0.35	0.35	0.0%	0.52	0.52	0.0%
1225015138	6/9/2020	0.53	0.50	5.8%	1.23	1.14	7.6%
1225015036	6/9/2020	0.78	0.83	6.2%	1.46	1.53	4.7%
1225015132	6/9/2020	1.03	0.99	4.0%	2.31	2.16	6.7%
1225015123	6/9/2020	1.00	1.01	1.0%	2.18	2.18	0.0%
1225011113	6/10/2020	0.16	0.14	13.3%	1.04	1.01	2.9%
1225013414	6/10/2020	0.18	0.18	0.0%	3.28	3.37	2.7%
1225013420	6/10/2020	0.21	0.21	0.0%	2.44	2.41	1.2%
1225013367	6/10/2020	0.23	0.22	4.4%	2.03	1.93	5.1%
1225013405	6/10/2020	0.26	0.27	3.8%	1.07	1.11	3.7%
1225011096	6/10/2020	0.34	0.36	5.7%	2.09	2.15	2.8%
1225011165	6/10/2020	0.36	0.39	8.0%	1.96	2.14	8.8%
1225011097	6/10/2020	0.42	0.40	4.9%	1.92	1.90	1.0%
1225011092	6/10/2020	0.41	0.42	2.4%	1.61	1.65	2.5%
1225013195	6/11/2020	0.13	0.14	7.4%	0.08	0.09	11.8%
1225013163	6/11/2020	0.14	0.16	13.3%	1.29	1.34	3.8%
1225013117	6/11/2020	0.17	0.18	5.7%	1.31	1.36	3.7%
1225013183	6/11/2020	0.19	0.19	0.0%	2.60	2.55	1.9%
1225013139	6/11/2020	0.25	0.22	12.8%	0.62	0.62	0.0%
1225013121	6/11/2020	0.26	0.26	0.0%	1.52	1.56	2.6%
1225024180	6/12/2020	0.14	0.15	6.9%	3.10	3.55	13.5%
1225024082	6/12/2020	0.20	0.22	9.5%	1.58	1.74	9.6%
1225013012	6/12/2020	0.21	0.23	9.1%	1.27	1.38	8.3%
1225013022	6/12/2020	0.22	0.23	4.4%	2.71	2.70	0.4%
1225013034	6/12/2020	0.23	0.23	0.0%	3.74	3.82	2.1%
1225024142	6/12/2020	0.25	0.24	4.1%	1.09	1.01	7.6%
1225013018	6/12/2020	0.26	0.24	8.0%	2.01	1.89	6.2%
1225024072	6/12/2020	0.26	0.25	3.9%	1.37	1.36	0.7%
1232016259	6/12/2020	0.25	0.26	3.9%	0.19	0.19	0.0%
1225024060	6/12/2020	0.28	0.27	3.6%	2.01	1.91	5.1%
1225013110	6/12/2020	0.28	0.28	0.0%	2.16	2.12	1.9%

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1225024128	6/12/2020	0.33	0.34	3.0%	1.72	1.76	2.3%
1225013096	6/12/2020	0.41	0.41	0.0%	2.63	2.74	4.1%
1225013049	6/12/2020	0.48	0.49	2.1%	0.75	0.74	1.3%
1225024089	6/13/2020	0.17	0.14	19.4%	1.91	1.92	0.5%
1225024086	6/13/2020	0.19	0.19	0.0%	1.21	1.17	3.4%
1225025027	6/13/2020	0.19	0.19	0.0%	1.81	1.78	1.7%
1225018154	6/13/2020	0.19	0.20	5.1%	2.89	2.88	0.3%
1225018142	6/13/2020	0.22	0.22	0.0%	2.61	2.60	0.4%
1225025102	6/13/2020	0.23	0.26	12.2%	1.37	1.55	12.3%
1225025005	6/13/2020	0.25	0.26	3.9%	2.17	2.30	5.8%
1225018137	6/13/2020	0.31	0.30	3.3%	2.15	2.03	5.7%
1225025076	6/13/2020	0.31	0.32	3.2%	2.82	2.99	5.9%
1225025007	6/13/2020	0.32	0.33	3.1%	4.01	3.95	1.5%
1225018024	6/13/2020	0.34	0.34	0.0%	0.75	0.72	4.1%
1225018029	6/13/2020	0.47	0.48	2.1%	0.31	0.31	0.0%
1225025053	6/13/2020	0.47	0.50	6.2%	2.50	3.09	21.1%
1232016063	6/13/2020	0.54	0.51	5.7%	0.31	0.32	3.2%
1232016147	6/13/2020	0.55	0.55	0.0%	1.20	1.18	1.7%
1225024094	6/13/2020	0.59	0.59	0.0%	1.11	1.12	0.9%
1232016149	6/13/2020	0.67	0.66	1.5%	1.01	1.01	0.0%
1225025105	6/14/2020	0.12	0.12	0.0%	2.05	1.98	3.5%
1225025024	6/14/2020	0.17	0.17	0.0%	1.59	1.52	4.5%
1225018038	6/14/2020	0.47	0.48	2.1%	1.34	1.37	2.2%
1225016306	6/15/2020	0.11	0.12	8.7%	1.68	1.70	1.2%
1225018077	6/15/2020	0.14	0.16	13.3%	1.52	1.60	5.1%
1225018113	6/15/2020	0.20	0.22	9.5%	1.61	1.66	3.1%
1225016302	6/15/2020	0.24	0.23	4.3%	1.93	1.95	1.0%
1225016315	6/15/2020	0.24	0.24	0.0%	1.51	1.54	2.0%
1225018133	6/15/2020	0.25	0.25	0.0%	1.26	1.24	1.6%
1225018092	6/15/2020	0.34	0.34	0.0%	1.58	1.62	2.5%
1232016151	6/15/2020	0.40	0.39	2.5%	1.03	0.97	6.0%
1225016330	6/15/2020	0.42	0.43	2.4%	1.62	1.73	6.6%
1225016299	6/15/2020	0.42	0.44	4.7%	1.59	1.62	1.9%
1225016173	6/16/2020	0.20	0.19	5.1%	1.43	1.48	3.4%
1225016226	6/16/2020	0.23	0.23	0.0%	2.02	1.90	6.1%
1225016208	6/16/2020	0.25	0.25	0.0%	3.65	3.78	3.5%
1225016188	6/16/2020	0.27	0.27	0.0%	2.18	2.11	3.3%
1232016112	6/16/2020	0.39	0.38	2.6%	0.81	0.79	2.5%
1225016185	6/16/2020	0.40	0.40	0.0%	1.84	1.77	3.9%
1225028050	6/17/2020	0.15	0.15	0.0%	1.85	1.81	2.2%
1225028149	6/17/2020	0.39	0.39	0.0%	2.02	1.90	6.1%
1225016265	6/17/2020	0.65	0.66	1.5%	0.36	0.36	0.0%
1225016262	6/17/2020	0.71	0.71	0.0%	0.63	0.64	1.6%
1225016291	6/18/2020	0.10	0.10	0.0%	1.91	2.06	7.6%
1225016043	6/18/2020	0.13	0.13	0.0%	1.16	1.15	0.9%
1225016047	6/18/2020	0.18	0.19	5.4%	0.93	1.02	9.2%
1225016014	6/18/2020	0.24	0.23	4.3%	1.58	1.55	1.9%
1225028066	6/18/2020	0.24	0.25	4.1%	1.10	1.13	2.7%
1225016005	6/18/2020	0.28	0.27	3.6%	1.99	1.96	1.5%
1225016061	6/18/2020	0.30	0.28	6.9%	2.01	1.96	2.5%
1225028015	6/18/2020	0.39	0.37	5.3%	1.52	1.63	7.0%
1225028026	6/18/2020	0.66	0.61	7.9%	1.33	1.34	0.7%
1225027152	6/20/2020	0.09	0.09	0.0%	2.12	2.05	3.4%
1225022323	6/20/2020	0.15	0.14	6.9%	3.79	3.77	0.5%
1225022324	6/20/2020	0.13	0.14	7.4%	5.92	6.03	1.8%
1225027014	6/20/2020	0.19	0.17	11.1%	1.58	1.53	3.2%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225027102	6/20/2020	0.17	0.17	0.0%	1.90	1.96	3.1%
1225022346	6/20/2020	0.17	0.17	0.0%	2.37	2.29	3.4%
1225022244	6/20/2020	0.17	0.17	0.0%	3.34	3.21	4.0%
1225022363	6/20/2020	0.19	0.19	0.0%	1.79	1.75	2.3%
1225027026	6/20/2020	0.19	0.19	0.0%	2.90	2.99	3.1%
1225027159	6/20/2020	0.19	0.20	5.1%	0.25	0.24	4.1%
1225022205	6/20/2020	0.19	0.20	5.1%	1.98	1.99	0.5%
1225027031	6/20/2020	0.22	0.21	4.7%	1.92	2.12	9.9%
1225028118	6/20/2020	0.22	0.22	0.0%	2.32	2.33	0.4%
1225027110	6/20/2020	0.22	0.22	0.0%	2.42	2.51	3.7%
1225022145	6/20/2020	0.22	0.23	4.4%	1.05	1.10	4.7%
1225016117	6/20/2020	0.26	0.26	0.0%	1.32	1.27	3.9%
1225022098	6/20/2020	0.28	0.27	3.6%	1.22	1.23	0.8%
1225028121	6/20/2020	0.30	0.28	6.9%	1.47	1.42	3.5%
1225022123	6/20/2020	0.27	0.29	7.1%	1.49	1.55	3.9%
1225028091	6/20/2020	0.31	0.29	6.7%	1.67	1.64	1.8%
1225022368	6/20/2020	0.30	0.29	3.4%	1.96	1.95	0.5%
1225027066	6/20/2020	0.32	0.31	3.2%	1.51	1.48	2.0%
1225028127	6/20/2020	0.37	0.37	0.0%	1.90	1.96	3.1%
1225022023	6/20/2020	0.36	0.38	5.4%	1.09	1.14	4.5%
1225022100	6/20/2020	0.38	0.38	0.0%	1.21	1.21	0.0%
1225016098	6/20/2020	0.39	0.40	2.5%	1.24	1.15	7.5%
1225016161	6/20/2020	0.40	0.41	2.5%	1.31	1.34	2.3%
1225022072	6/20/2020	0.47	0.44	6.6%	1.92	1.94	1.0%
1433003057	6/20/2020	0.50	0.51	2.0%	0.39	0.41	5.0%
1225027164	6/20/2020	0.63	0.63	0.0%	1.05	0.97	7.9%
1225027106	6/20/2020	0.62	0.63	1.6%	0.96	0.98	2.1%
1433003130	6/20/2020	0.65	0.64	1.6%	0.74	0.75	1.3%
1433003067	6/20/2020	1.65	1.59	3.7%	1.58	1.55	1.9%
1433003019	6/20/2020	1.64	1.63	0.6%	0.48	0.47	2.1%
1433003048	6/20/2020	1.86	1.80	3.3%	3.15	3.05	3.2%
1225022017	6/22/2020	0.08	0.08	0.0%	1.92	1.91	0.5%
1225022034	6/22/2020	0.17	0.17	0.0%	2.04	2.00	2.0%
1225022130	6/22/2020	0.19	0.19	0.0%	2.70	2.66	1.5%
1225022307	6/22/2020	0.21	0.22	4.7%	1.62	1.73	6.6%
1433003104	6/22/2020	0.25	0.26	3.9%	0.81	0.86	6.0%
1225019058	6/22/2020	0.34	0.31	9.2%	0.52	0.48	8.0%
1225019082	6/22/2020	0.33	0.31	6.3%	2.05	2.08	1.5%
1225022303	6/22/2020	0.36	0.35	2.8%	1.79	1.70	5.2%
1225022216	6/22/2020	0.35	0.37	5.6%	1.55	1.72	10.4%
1225022285	6/22/2020	0.38	0.38	0.0%	1.08	1.15	6.3%
1225019078	6/22/2020	0.40	0.40	0.0%	0.72	0.83	14.2%
1225019094	6/22/2020	0.39	0.40	2.5%	0.91	0.93	2.2%
1225019041	6/22/2020	0.48	0.47	2.1%	1.60	1.61	0.6%
1225022179	6/22/2020	1.03	1.00	3.0%	0.40	0.38	5.1%
1225019050	6/22/2020	1.14	1.17	2.6%	0.12	0.10	18.2%
1225027147	6/23/2020	0.16	0.17	6.1%	1.66	1.62	2.4%
1225027123	6/23/2020	0.19	0.18	5.4%	2.17	2.26	4.1%
1225022059	6/23/2020	0.31	0.30	3.3%	0.96	0.92	4.3%
1225022337	6/23/2020	0.40	0.38	5.1%	2.36	2.37	0.4%
1225022008	6/23/2020	0.66	0.64	3.1%	1.22	1.18	3.3%
1324001144	6/24/2020	0.16	0.15	6.5%	1.36	1.39	2.2%
1324001270	6/24/2020	0.18	0.16	11.8%	1.43	1.36	5.0%
1324001175	6/24/2020	0.27	0.27	0.0%	1.43	1.61	11.8%
1324001291	6/24/2020	0.37	0.34	8.5%	1.05	0.98	6.9%
1324001184	6/24/2020	0.43	0.42	2.4%	2.53	2.52	0.4%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324001242	6/24/2020	0.41	0.43	4.8%	1.45	1.46	0.7%
1324001227	6/24/2020	0.43	0.45	4.5%	2.29	2.09	9.1%
1324001228	6/24/2020	0.52	0.50	3.9%	2.31	2.33	0.9%
1324001198	6/24/2020	0.49	0.51	4.0%	1.12	1.10	1.8%
1324001248	6/24/2020	0.57	0.56	1.8%	2.45	2.32	5.5%
1324001313	6/24/2020	0.64	0.64	0.0%	1.99	1.93	3.1%
1324001252	6/24/2020	1.10	1.14	3.6%	2.28	2.30	0.9%
1232019337	6/25/2020	0.22	0.22	0.0%	1.30	1.27	2.3%
1232019186	6/25/2020	0.23	0.23	0.0%	0.05	0.06	18.2%
1232019362	6/25/2020	0.24	0.24	0.0%	0.49	0.46	6.3%
1232019166	6/25/2020	0.31	0.30	3.3%	0.07	0.06	15.4%
1232019005	6/25/2020	0.30	0.31	3.3%	0.02	0.02	0.0%
1232019239	6/25/2020	0.35	0.36	2.8%	1.41	1.33	5.8%
1232019083	6/25/2020	0.37	0.36	2.7%	1.95	1.95	0.0%
1232019098	6/25/2020	0.39	0.39	0.0%	0.80	0.84	4.9%
1232019012	6/25/2020	0.40	0.42	4.9%	0.15	0.15	0.0%
1232019108	6/25/2020	0.45	0.43	4.5%	0.06	0.05	18.2%
1232019071	6/25/2020	0.44	0.44	0.0%	0.14	0.13	7.4%
1225019031	6/25/2020	0.46	0.44	4.4%	2.03	1.44	34.0%
1225019018	6/25/2020	0.48	0.47	2.1%	0.51	0.53	3.8%
1232019111	6/25/2020	0.49	0.49	0.0%	0.02	0.01	66.7%
1232019120	6/25/2020	0.49	0.49	0.0%	0.02	0.02	0.0%
1232019132	6/25/2020	0.49	0.49	0.0%	0.04	0.04	0.0%
1232019204	6/25/2020	0.52	0.50	3.9%	1.22	1.20	1.7%
1225019156	6/26/2020	0.16	0.15	6.5%	1.05	1.16	10.0%
1225019151	6/26/2020	0.19	0.18	5.4%	1.74	1.65	5.3%
1225019124	6/26/2020	0.20	0.20	0.0%	0.64	0.68	6.1%
1225019161	6/26/2020	0.31	0.34	9.2%	0.97	1.05	7.9%
1225019116	6/26/2020	0.48	0.46	4.3%	1.26	1.18	6.6%
1225019100	6/26/2020	0.58	0.56	3.5%	0.88	0.80	9.5%
1232019320	6/27/2020	0.12	0.12	0.0%	1.60	1.60	0.0%
1324001070	6/27/2020	0.12	0.13	8.0%	1.39	1.40	0.7%
1324001068	6/27/2020	0.16	0.15	6.5%	1.41	1.35	4.3%
1324001125	6/27/2020	0.19	0.19	0.0%	0.42	0.43	2.4%
1324001087	6/27/2020	0.30	0.31	3.3%	0.88	0.87	1.1%
1324001085	6/27/2020	0.32	0.32	0.0%	0.34	0.36	5.7%
1324001101	6/27/2020	0.35	0.37	5.6%	2.55	2.58	1.2%
1324001110	6/27/2020	0.45	0.46	2.2%	1.61	1.64	1.8%
1324001108	6/27/2020	0.50	0.50	0.0%	2.42	2.34	3.4%
1324001138	6/27/2020	0.65	0.70	7.4%	1.65	1.71	3.6%
1324001320	6/27/2020	0.90	0.94	4.3%	2.67	2.73	2.2%
1231034930	6/28/2020	0.09	0.08	11.8%	0.07	0.07	0.0%
1324001030	6/28/2020	0.16	0.16	0.0%	0.86	0.84	2.4%
1324001008	6/28/2020	0.20	0.19	5.1%	0.59	0.58	1.7%
1231034931	6/28/2020	0.32	0.32	0.0%	0.11	0.11	0.0%
1324001511	6/28/2020	0.37	0.36	2.7%	1.08	1.06	1.9%
1231034369	6/28/2020	0.39	0.38	2.6%	0.92	0.90	2.2%
1324001014	6/28/2020	0.54	0.51	5.7%	0.74	0.71	4.1%
1324001377	6/28/2020	0.59	0.59	0.0%	2.89	2.83	2.1%
1231034294	6/28/2020	0.62	0.61	1.6%	1.49	1.53	2.6%
1231034449	6/28/2020	0.67	0.64	4.6%	1.75	1.72	1.7%
1324001424	6/30/2020	0.17	0.17	0.0%	3.74	3.81	1.9%
1324001456	6/30/2020	0.31	0.34	9.2%	1.70	1.74	2.3%
1231034270	6/30/2020	0.41	0.38	7.6%	2.18	2.19	0.5%
1231034295	6/30/2020	0.40	0.41	2.5%	1.52	1.57	3.2%
1324001419	6/30/2020	0.49	0.50	2.0%	1.94	1.95	0.5%

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1324001462	6/30/2020	0.70	0.73	4.2%	2.89	3.00	3.7%
1324001471	6/30/2020	0.79	0.77	2.6%	1.78	1.79	0.6%
1232018134	7/1/2020	0.07	0.07	0.0%	5.10	5.36	5.0%
1232018113	7/1/2020	0.16	0.16	0.0%	2.90	2.81	3.2%
1324005278	7/1/2020	0.17	0.17	0.0%	2.19	2.29	4.5%
1324003101	7/1/2020	0.18	0.19	5.4%	1.37	1.36	0.7%
1324003105	7/1/2020	0.19	0.20	5.1%	2.79	2.88	3.2%
1324005294	7/1/2020	0.23	0.22	4.4%	2.78	2.76	0.7%
1324003183	7/1/2020	0.21	0.22	4.7%	2.88	2.97	3.1%
1324005286	7/1/2020	0.23	0.23	0.0%	2.00	2.08	3.9%
1232018162	7/1/2020	0.23	0.23	0.0%	3.69	3.77	2.1%
1232018008	7/1/2020	0.25	0.25	0.0%	0.24	0.25	4.1%
1324003013	7/1/2020	0.28	0.29	3.5%	2.69	2.72	1.1%
1324005251	7/1/2020	0.30	0.30	0.0%	2.35	2.40	2.1%
1324005298	7/1/2020	0.34	0.33	3.0%	2.74	2.72	0.7%
1232018035	7/1/2020	0.37	0.37	0.0%	3.27	3.67	11.5%
1232018001	7/1/2020	0.41	0.39	5.0%	0.44	0.45	2.2%
1324003121	7/1/2020	0.41	0.40	2.5%	2.05	1.99	3.0%
1232018097	7/1/2020	0.44	0.41	7.1%	1.72	1.70	1.2%
1324003050	7/1/2020	0.41	0.41	0.0%	2.30	2.35	2.2%
1324003074	7/1/2020	0.64	0.63	1.6%	1.88	1.84	2.2%
1324003116	7/1/2020	0.70	0.71	1.4%	2.27	2.34	3.0%
1324003005	7/1/2020	0.73	0.75	2.7%	2.47	2.55	3.2%
1324003037	7/1/2020	0.98	0.99	1.0%	2.53	2.48	2.0%
1324003113	7/1/2020	1.80	1.79	0.6%	1.84	1.89	2.7%
1231034123	7/3/2020	0.15	0.13	14.3%	1.41	1.56	10.1%
1324005090	7/3/2020	0.14	0.14	0.0%	1.92	1.96	2.1%
1324005118	7/3/2020	0.23	0.21	9.1%	0.64	0.62	3.2%
1324005149	7/3/2020	0.20	0.21	4.9%	1.96	2.05	4.5%
1324005223	7/3/2020	0.24	0.24	0.0%	1.83	1.95	6.3%
1231034189	7/3/2020	0.33	0.34	3.0%	0.23	0.22	4.4%
1324003023	7/3/2020	0.38	0.37	2.7%	2.29	2.37	3.4%
1324005094	7/3/2020	0.35	0.38	8.2%	1.86	1.99	6.8%
1324005078	7/3/2020	0.38	0.39	2.6%	1.25	1.20	4.1%
1231034277	7/3/2020	0.39	0.39	0.0%	2.29	2.20	4.0%
1231034307	7/3/2020	0.39	0.40	2.5%	0.51	0.50	2.0%
1231034413	7/3/2020	0.42	0.41	2.4%	0.54	0.56	3.6%
1324005184	7/3/2020	0.41	0.41	0.0%	2.92	2.94	0.7%
1324005082	7/3/2020	0.43	0.42	2.4%	0.82	0.81	1.2%
1231034303	7/3/2020	0.42	0.44	4.7%	0.57	0.59	3.4%
1231034309	7/3/2020	0.43	0.44	2.3%	0.78	0.80	2.5%
1231034240	7/3/2020	0.43	0.45	4.5%	1.41	1.42	0.7%
1231034465	7/3/2020	0.50	0.51	2.0%	0.95	0.99	4.1%
1231034022	7/3/2020	0.50	0.51	2.0%	1.18	1.20	1.7%
1231034117	7/3/2020	0.49	0.51	4.0%	2.31	2.40	3.8%
1231034254	7/3/2020	0.54	0.54	0.0%	0.47	0.46	2.2%
1324005063	7/3/2020	0.64	0.58	9.8%	1.97	1.83	7.4%
1231034606	7/3/2020	0.61	0.60	1.7%	2.08	2.09	0.5%
1231034462	7/3/2020	0.68	0.64	6.1%	0.66	0.61	7.9%
1231034063	7/3/2020	0.64	0.64	0.0%	1.67	1.74	4.1%
1231034218	7/3/2020	0.89	0.91	2.2%	1.58	1.61	1.9%
1231034132	7/3/2020	0.94	0.95	1.1%	1.65	1.63	1.2%
1324005161	7/3/2020	1.30	1.36	4.5%	2.11	2.28	7.7%
1232018025	7/4/2020	0.10	0.10	0.0%	2.67	2.55	4.6%
1324005006	7/4/2020	0.14	0.14	0.0%	1.80	1.70	5.7%
1324005321	7/4/2020	0.19	0.19	0.0%	2.90	2.78	4.2%

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1324005349	7/4/2020	0.19	0.20	5.1%	2.66	2.62	1.5%
1231034107	7/4/2020	0.21	0.22	4.7%	0.11	0.12	8.7%
1324005057	7/4/2020	0.26	0.23	12.2%	2.43	2.36	2.9%
1324005029	7/4/2020	0.33	0.32	3.1%	2.30	2.34	1.7%
1324005355	7/4/2020	0.34	0.35	2.9%	2.31	2.45	5.9%
1324003207	7/4/2020	0.41	0.43	4.8%	1.49	1.53	2.6%
1231034142	7/4/2020	0.44	0.44	0.0%	1.31	1.27	3.1%
1324003221	7/4/2020	0.49	0.48	2.1%	1.95	1.92	1.6%
1231036199	7/5/2020	0.10	0.10	0.0%	1.60	1.59	0.6%
1231034094	7/5/2020	0.17	0.12	34.5%	0.29	0.31	6.7%
1231034044	7/5/2020	0.14	0.14	0.0%	0.09	0.09	0.0%
1231036160	7/5/2020	0.14	0.14	0.0%	0.92	0.90	2.2%
1231036155	7/5/2020	0.19	0.18	5.4%	1.14	1.10	3.6%
1231034005	7/5/2020	0.19	0.19	0.0%	0.16	0.16	0.0%
1231036075	7/5/2020	0.52	0.51	1.9%	1.70	1.67	1.8%
1231034086	7/5/2020	0.80	0.77	3.8%	1.35	1.30	3.8%
1324004033	7/7/2020	0.12	0.11	8.7%	0.29	0.27	7.1%
1324004164	7/7/2020	0.19	0.17	11.1%	0.24	0.25	4.1%
1324004161	7/7/2020	0.19	0.19	0.0%	0.33	0.32	3.1%
1324004227	7/7/2020	0.29	0.29	0.0%	1.99	1.98	0.5%
1324004102	7/7/2020	0.39	0.38	2.6%	1.95	1.87	4.2%
1324004005	7/7/2020	0.35	0.38	8.2%	2.68	2.82	5.1%
1324004134	7/7/2020	0.47	0.47	0.0%	2.35	2.45	4.2%
1324004268	7/7/2020	0.51	0.51	0.0%	2.16	2.22	2.7%
1324004245	7/7/2020	0.61	0.59	3.3%	1.71	1.68	1.8%
1324004108	7/7/2020	0.63	0.60	4.9%	2.85	2.75	3.6%
1324004010	7/7/2020	0.80	0.91	12.9%	2.24	2.60	14.9%
1324004013	7/8/2020	0.10	0.10	0.0%	3.17	3.15	0.6%
1324004194	7/8/2020	0.20	0.21	4.9%	1.95	1.93	1.0%
1324004222	7/8/2020	0.41	0.42	2.4%	1.91	1.95	2.1%
1324004085	7/8/2020	0.47	0.47	0.0%	2.47	2.52	2.0%
1324006272	7/9/2020	0.14	0.16	13.3%	2.19	2.53	14.4%
1324006093	7/9/2020	0.19	0.21	10.0%	0.08	0.08	0.0%
1324006057	7/9/2020	0.23	0.23	0.0%	1.60	1.62	1.2%
1324006243	7/9/2020	0.22	0.23	4.4%	2.49	2.48	0.4%
1225026189	7/9/2020	0.31	0.26	17.5%	2.87	2.49	14.2%
1225026146	7/9/2020	0.28	0.28	0.0%	2.21	2.17	1.8%
1324006111	7/9/2020	0.33	0.30	9.5%	1.95	1.89	3.1%
1225026134	7/9/2020	0.30	0.31	3.3%	1.32	1.27	3.9%
1324006085	7/9/2020	0.32	0.32	0.0%	1.93	2.01	4.1%
1324006074	7/9/2020	0.34	0.36	5.7%	1.66	1.78	7.0%
1225026172	7/9/2020	0.38	0.37	2.7%	2.49	2.53	1.6%
1225026117	7/9/2020	0.39	0.38	2.6%	2.29	2.32	1.3%
1324006258	7/9/2020	0.43	0.42	2.4%	2.10	2.11	0.5%
1225026080	7/9/2020	0.42	0.46	9.1%	1.60	1.63	1.9%
1225026206	7/9/2020	0.42	0.46	9.1%	1.61	1.68	4.3%
1225026132	7/9/2020	0.50	0.50	0.0%	2.21	2.20	0.5%
1225026061	7/9/2020	0.67	0.67	0.0%	2.06	2.03	1.5%
1225026037	7/9/2020	0.83	0.96	14.5%	0.37	0.85	78.7%
1225029049	7/11/2020	0.14	0.14	0.0%	0.64	0.66	3.1%
1225029078	7/11/2020	0.20	0.20	0.0%	1.64	1.59	3.1%
1324006010	7/11/2020	0.21	0.21	0.0%	0.09	0.10	10.5%
1324006201	7/11/2020	0.22	0.22	0.0%	1.87	1.93	3.2%
1225029007	7/11/2020	0.23	0.23	0.0%	1.11	1.15	3.5%
1324006177	7/11/2020	0.24	0.24	0.0%	2.07	2.07	0.0%
1225029166	7/11/2020	0.26	0.27	3.8%	0.92	0.95	3.2%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1225029122	7/11/2020	0.28	0.29	3.5%	0.52	0.50	3.9%
1324006222	7/11/2020	0.30	0.31	3.3%	2.08	2.12	1.9%
1225029138	7/11/2020	0.33	0.32	3.1%	1.37	1.33	3.0%
1324006007	7/11/2020	0.39	0.39	0.0%	0.15	0.15	0.0%
1324006192	7/11/2020	0.40	0.41	2.5%	2.23	2.25	0.9%
1324006152	7/11/2020	0.40	0.42	4.9%	2.33	2.41	3.4%
1225029024	7/11/2020	0.45	0.44	2.2%	0.78	0.77	1.3%
1324006135	7/11/2020	0.50	0.46	8.3%	2.14	2.12	0.9%
1225026097	7/11/2020	1.02	1.00	2.0%	1.43	1.45	1.4%
1225029210	7/11/2020	0.97	1.02	5.0%	0.26	0.26	0.0%
1324010156	7/13/2020	0.04	0.04	0.0%	1.62	1.62	0.0%
1225029053	7/13/2020	0.13	0.13	0.0%	1.65	1.62	1.8%
1225029109	7/13/2020	0.16	0.17	6.1%	1.11	1.12	0.9%
1324010219	7/13/2020	0.18	0.18	0.0%	0.08	0.08	0.0%
1324010204	7/13/2020	0.18	0.18	0.0%	2.27	2.20	3.1%
1324010073	7/13/2020	0.19	0.19	0.0%	0.27	0.28	3.6%
1324010254	7/13/2020	0.20	0.19	5.1%	3.08	3.03	1.6%
1324010222	7/13/2020	0.20	0.19	5.1%	3.42	3.50	2.3%
1324010048	7/13/2020	0.19	0.20	5.1%	1.23	1.24	0.8%
1324010113	7/13/2020	0.21	0.21	0.0%	2.36	2.34	0.9%
1324010091	7/13/2020	0.21	0.22	4.7%	1.38	1.31	5.2%
1324010093	7/13/2020	0.24	0.24	0.0%	2.27	2.23	1.8%
1324010125	7/13/2020	0.25	0.26	3.9%	3.06	3.04	0.7%
1324010140	7/13/2020	0.28	0.27	3.6%	1.94	1.94	0.0%
1231036092	7/13/2020	0.31	0.30	3.3%	0.16	0.17	6.1%
1324010181	7/13/2020	0.30	0.30	0.0%	1.85	1.82	1.6%
1225029092	7/13/2020	0.31	0.31	0.0%	1.19	1.21	1.7%
1231036045	7/13/2020	0.32	0.33	3.1%	0.12	0.12	0.0%
1231036102	7/13/2020	0.44	0.46	4.4%	1.03	1.05	1.9%
1231036036	7/13/2020	0.52	0.50	3.9%	1.60	1.56	2.5%
1231036022	7/13/2020	0.55	0.54	1.8%	1.39	1.36	2.2%
1231036059	7/13/2020	0.57	0.56	1.8%	1.71	1.67	2.4%
1231036148	7/15/2020	0.44	0.41	7.1%	1.45	1.45	0.0%
1231036219	7/15/2020	0.49	0.49	0.0%	0.21	0.20	4.9%
1231036177	7/15/2020	0.65	0.65	0.0%	1.04	0.09	168.1%
1231039302	7/16/2020	0.08	0.07	13.3%	3.99	4.17	4.4%
1231039177	7/16/2020	0.10	0.10	0.0%	3.61	3.64	0.8%
1231039213	7/16/2020	0.13	0.12	8.0%	6.94	6.87	1.0%
1231039156	7/16/2020	0.14	0.14	0.0%	3.41	3.56	4.3%
1231039065	7/16/2020	0.18	0.19	5.4%	3.42	3.44	0.6%
1231039220	7/16/2020	0.20	0.20	0.0%	1.46	1.42	2.8%
1231039262	7/16/2020	0.19	0.20	5.1%	4.80	4.87	1.4%
1324010298	7/16/2020	0.22	0.21	4.7%	2.35	2.35	0.0%
1324010267	7/16/2020	0.24	0.25	4.1%	0.13	0.12	8.0%
1231039199	7/16/2020	0.25	0.25	0.0%	2.85	2.92	2.4%
1324010321	7/16/2020	0.25	0.26	3.9%	0.47	0.47	0.0%
1231039024	7/16/2020	0.32	0.33	3.1%	2.04	2.00	2.0%
1324010314	7/16/2020	0.37	0.37	0.0%	2.63	2.64	0.4%
1231039036	7/16/2020	0.51	0.51	0.0%	3.41	3.37	1.2%
1231039323	7/16/2020	0.56	0.56	0.0%	0.13	0.11	16.7%
1324009009	7/17/2020	0.15	0.15	0.0%	0.23	0.22	4.4%
1324011224	7/17/2020	0.19	0.20	5.1%	2.74	2.68	2.2%
1324009058	7/17/2020	0.24	0.24	0.0%	1.00	1.01	1.0%
1324009007	7/17/2020	0.39	0.40	2.5%	1.68	1.76	4.7%
1324009103	7/17/2020	0.49	0.48	2.1%	1.63	1.57	3.7%
1324009034	7/17/2020	1.03	1.00	3.0%	1.74	1.68	3.5%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324009079	7/17/2020	1.06	1.08	1.9%	1.90	1.91	0.5%
1324009075	7/17/2020	1.47	1.43	2.8%	1.64	1.59	3.1%
1231039096	7/18/2020	0.02	0.02	0.0%	2.11	2.20	4.2%
1231039088	7/18/2020	0.05	0.05	0.0%	3.09	3.14	1.6%
1231039092	7/18/2020	0.07	0.07	0.0%	1.98	1.89	4.7%
1231039043	7/18/2020	0.09	0.09	0.0%	3.64	3.69	1.4%
1231039179	7/18/2020	0.16	0.15	6.5%	1.97	1.95	1.0%
1231039142	7/18/2020	0.15	0.15	0.0%	2.54	2.49	2.0%
1231039090	7/18/2020	0.17	0.17	0.0%	2.25	2.23	0.9%
1324007148	7/18/2020	0.22	0.22	0.0%	0.64	0.59	8.1%
1231039361	7/18/2020	0.22	0.22	0.0%	1.37	1.39	1.4%
1324007110	7/18/2020	0.25	0.26	3.9%	0.09	0.09	0.0%
1324007186	7/18/2020	0.26	0.26	0.0%	2.69	2.67	0.7%
1231038163	7/18/2020	0.30	0.29	3.4%	0.93	0.97	4.2%
1231038208	7/18/2020	0.34	0.35	2.9%	1.19	1.21	1.7%
1324007072	7/18/2020	0.51	0.51	0.0%	1.60	1.65	3.1%
1324007197	7/18/2020	0.73	0.73	0.0%	3.58	3.57	0.3%
1324007124	7/19/2020	0.17	0.17	0.0%	1.70	1.71	0.6%
1324099017	7/19/2020	0.19	0.19	0.0%	1.36	1.29	5.3%
1324007243	7/19/2020	0.22	0.22	0.0%	3.04	2.93	3.7%
1324007146	7/19/2020	0.35	0.35	0.0%	2.19	2.19	0.0%
1231038005	7/19/2020	0.37	0.40	7.8%	0.13	0.13	0.0%
1231038105	7/19/2020	0.53	0.53	0.0%	0.64	0.64	0.0%
1231038111	7/19/2020	0.56	0.57	1.8%	0.24	0.24	0.0%
1231038136	7/19/2020	0.65	0.65	0.0%	1.93	1.94	0.5%
1324007034	7/20/2020	0.17	0.15	12.5%	0.06	0.06	0.0%
1324007012	7/20/2020	0.19	0.19	0.0%	0.66	0.65	1.5%
1324010005	7/20/2020	0.22	0.21	4.7%	1.28	1.23	4.0%
1324010013	7/20/2020	0.23	0.23	0.0%	2.99	3.12	4.3%
1324010014	7/20/2020	0.24	0.24	0.0%	2.92	2.88	1.4%
1324010023	7/20/2020	0.27	0.27	0.0%	0.12	0.11	8.7%
1324007092	7/20/2020	0.27	0.27	0.0%	1.05	1.07	1.9%
1324007017	7/21/2020	0.13	0.14	7.4%	0.52	0.56	7.4%
1324007098	7/21/2020	0.16	0.18	11.8%	1.03	1.07	3.8%
1324007138	7/21/2020	0.21	0.22	4.7%	2.20	2.22	0.9%
1324007176	7/21/2020	0.28	0.28	0.0%	3.03	3.07	1.3%
1324007058	7/21/2020	0.28	0.29	3.5%	0.16	0.17	6.1%
1324016017	7/22/2020	0.15	0.15	0.0%	1.35	1.36	0.7%
1324016065	7/22/2020	0.15	0.15	0.0%	2.05	2.04	0.5%
1324016039	7/22/2020	0.19	0.18	5.4%	1.60	1.67	4.3%
1324016101	7/22/2020	0.21	0.21	0.0%	2.15	2.09	2.8%
1324007317	7/22/2020	0.27	0.26	3.8%	3.19	3.11	2.5%
1324016079	7/22/2020	0.30	0.30	0.0%	2.35	2.34	0.4%
1324016355	7/23/2020	0.10	0.10	0.0%	1.87	1.90	1.6%
1324007373	7/23/2020	0.14	0.14	0.0%	2.02	2.04	1.0%
1324016336	7/23/2020	0.15	0.16	6.5%	3.33	3.41	2.4%
1324016255	7/23/2020	0.17	0.17	0.0%	2.53	2.45	3.2%
1324016226	7/23/2020	0.20	0.18	10.5%	1.84	1.62	12.7%
1324007295	7/23/2020	0.20	0.18	10.5%	2.91	2.68	8.2%
1324016227	7/23/2020	0.19	0.19	0.0%	1.76	1.70	3.5%
1324007404	7/23/2020	0.20	0.19	5.1%	1.88	1.85	1.6%
1324016291	7/23/2020	0.19	0.19	0.0%	2.56	2.51	2.0%
1324007334	7/23/2020	0.20	0.20	0.0%	2.15	2.16	0.5%
1324007299	7/23/2020	0.21	0.21	0.0%	2.51	2.51	0.0%
1324007347	7/23/2020	0.22	0.21	4.7%	2.66	2.56	3.8%
1231038084	7/23/2020	0.23	0.22	4.4%	1.68	1.67	0.6%

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1324007448	7/23/2020	0.23	0.22	4.4%	3.23	3.20	0.9%
1324016205	7/23/2020	0.23	0.23	0.0%	2.65	2.73	3.0%
1324007392	7/23/2020	0.25	0.25	0.0%	2.53	2.66	5.0%
1324007387	7/23/2020	0.28	0.27	3.6%	1.91	1.89	1.1%
1324016256	7/23/2020	0.28	0.27	3.6%	1.98	2.33	16.2%
1324007290	7/23/2020	0.27	0.27	0.0%	2.89	2.80	3.2%
1324007427	7/23/2020	0.28	0.29	3.5%	2.54	2.49	2.0%
1324016287	7/23/2020	0.33	0.34	3.0%	3.00	2.95	1.7%
1231038086	7/23/2020	0.38	0.38	0.0%	2.04	1.99	2.5%
1324016386	7/23/2020	0.39	0.39	0.0%	4.02	3.90	3.0%
1324016319	7/23/2020	0.43	0.43	0.0%	1.35	1.41	4.3%
1324016210	7/23/2020	0.46	0.47	2.2%	1.70	1.81	6.3%
1231038074	7/23/2020	0.48	0.48	0.0%	0.44	0.47	6.6%
1324007285	7/23/2020	0.45	0.48	6.5%	3.13	3.19	1.9%
1231038072	7/23/2020	0.52	0.53	1.9%	0.22	0.18	20.0%
1324016410	7/23/2020	0.60	0.56	6.9%	2.74	2.92	6.4%
1231038041	7/23/2020	0.70	0.81	14.6%	1.98	2.34	16.7%
1231038198	7/24/2020	0.20	0.19	5.1%	2.49	2.45	1.6%
1231040595	7/25/2020	0.07	0.07	0.0%	2.64	2.77	4.8%
1231040638	7/25/2020	0.11	0.11	0.0%	1.05	1.07	1.9%
1231040589	7/25/2020	0.12	0.12	0.0%	0.96	0.96	0.0%
1231040554	7/25/2020	0.13	0.13	0.0%	1.47	1.49	1.4%
1231040809	7/25/2020	0.16	0.17	6.1%	0.60	0.56	6.9%
1324007460	7/25/2020	0.27	0.25	7.7%	2.19	2.09	4.7%
1231040533	7/25/2020	0.27	0.27	0.0%	1.28	1.30	1.6%
1231040520	7/25/2020	0.42	0.42	0.0%	2.27	2.27	0.0%
1231040622	7/25/2020	0.44	0.43	2.3%	0.99	0.95	4.1%
1231040816	7/25/2020	0.49	0.50	2.0%	0.88	0.83	5.8%
1231040507	7/25/2020	0.74	0.73	1.4%	1.48	1.50	1.3%
1231037286	7/26/2020	0.12	0.12	0.0%	1.24	1.24	0.0%
1231040681	7/26/2020	0.14	0.13	7.4%	1.09	1.17	7.1%
1231037316	7/26/2020	0.32	0.32	0.0%	1.37	1.32	3.7%
1231040682	7/26/2020	0.35	0.33	5.9%	0.86	0.90	4.5%
1231037171	7/26/2020	0.37	0.38	2.7%	0.23	0.23	0.0%
1231037129	7/26/2020	0.41	0.40	2.5%	0.88	0.89	1.1%
1231037165	7/26/2020	0.41	0.40	2.5%	1.83	1.86	1.6%
1231037322	7/26/2020	0.48	0.47	2.1%	0.54	0.54	0.0%
1231040657	7/26/2020	0.50	0.50	0.0%	1.44	1.36	5.7%
1231037172	7/26/2020	0.53	0.53	0.0%	0.37	0.38	2.7%
1231037123	7/26/2020	0.63	0.63	0.0%	1.57	1.60	1.9%
1324013143	7/27/2020	0.07	0.07	0.0%	1.62	1.69	4.2%
1324013112	7/27/2020	0.10	0.10	0.0%	1.54	1.53	0.7%
1324013123	7/27/2020	0.16	0.17	6.1%	2.12	2.18	2.8%
1324013150	7/27/2020	0.17	0.18	5.7%	1.95	1.87	4.2%
1324007518	7/27/2020	0.23	0.26	12.2%	1.33	1.54	14.6%
1324007522	7/27/2020	0.30	0.30	0.0%	1.19	1.15	3.4%
1324007501	7/27/2020	0.28	0.30	6.9%	1.80	1.82	1.1%
1231037215	7/27/2020	0.33	0.33	0.0%	0.26	0.25	3.9%
1324007499	7/27/2020	0.35	0.37	5.6%	0.85	0.88	3.5%
1324013158	7/27/2020	0.38	0.38	0.0%	3.14	3.22	2.5%
1231037209	7/27/2020	0.39	0.39	0.0%	1.02	1.02	0.0%
1231037255	7/29/2020	0.10	0.10	0.0%	0.33	0.32	3.1%
1324013019	7/29/2020	0.17	0.20	16.2%	1.82	2.03	10.9%
1324013070	7/29/2020	0.21	0.21	0.0%	1.28	1.31	2.3%
1324013011	7/29/2020	0.20	0.22	9.5%	1.33	1.38	3.7%
1324013269	7/29/2020	0.33	0.32	3.1%	2.16	2.14	0.9%

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1231037073	7/29/2020	0.33	0.33	0.0%	0.82	0.85	3.6%
1324013026	7/29/2020	0.41	0.36	13.0%	1.34	1.35	0.7%
1231037251	7/29/2020	0.37	0.36	2.7%	1.95	1.88	3.7%
1324013021	7/29/2020	0.41	0.37	10.3%	1.93	1.80	7.0%
1231037053	7/29/2020	0.45	0.45	0.0%	1.57	1.55	1.3%
1324013194	7/30/2020	0.24	0.25	4.1%	1.70	1.66	2.4%
1231037273	7/30/2020	0.26	0.26	0.0%	2.91	2.93	0.7%
1231037011	7/30/2020	0.34	0.34	0.0%	0.68	0.67	1.5%
1231037027	7/30/2020	0.34	0.34	0.0%	0.70	0.68	2.9%
1324017042	7/30/2020	0.39	0.43	9.8%	1.71	1.86	8.4%
1324013203	7/30/2020	0.43	0.43	0.0%	1.92	1.91	0.5%
1231037091	7/30/2020	0.46	0.44	4.4%	0.92	0.91	1.1%
1231037066	7/30/2020	0.68	0.67	1.5%	1.71	1.60	6.6%
1231037005	7/30/2020	0.72	0.73	1.4%	1.29	1.31	1.5%
1231037029	7/30/2020	0.74	0.74	0.0%	1.06	1.04	1.9%
1230058054	7/31/2020	0.12	0.11	8.7%	1.56	1.52	2.6%
1230058266	7/31/2020	0.66	0.67	1.5%	2.13	2.19	2.8%
1433004363	7/31/2020	1.00	1.00	0.0%	1.39	1.38	0.7%
1433004044	7/31/2020	1.04	1.01	2.9%	1.47	1.42	3.5%
1433004150	7/31/2020	1.02	1.08	5.7%	2.51	2.51	0.0%
1433004168	7/31/2020	1.14	1.18	3.4%	2.70	2.65	1.9%
1433004197	7/31/2020	1.53	1.52	0.7%	3.83	3.79	1.0%
1433004080	7/31/2020	1.61	1.62	0.6%	3.99	4.06	1.7%
1324008439	8/2/2020	0.06	0.05	18.2%	0.97	0.91	6.4%
1324008408	8/2/2020	0.07	0.07	0.0%	4.86	4.97	2.2%
1230058200	8/2/2020	0.08	0.08	0.0%	1.43	1.35	5.8%
1324008451	8/2/2020	0.17	0.10	51.9%	0.25	0.19	27.3%
1324008395	8/2/2020	0.10	0.10	0.0%	0.22	0.20	9.5%
1324008481	8/2/2020	0.14	0.14	0.0%	2.31	2.25	2.6%
1324008461	8/2/2020	0.14	0.14	0.0%	4.23	4.25	0.5%
1324008323	8/2/2020	0.15	0.15	0.0%	1.21	1.22	0.8%
1324008302	8/2/2020	0.17	0.15	12.5%	2.58	2.54	1.6%
1324008490	8/2/2020	0.17	0.17	0.0%	1.19	1.02	15.4%
1324008413	8/2/2020	0.16	0.17	6.1%	1.54	1.54	0.0%
1324008387	8/2/2020	0.18	0.18	0.0%	0.66	0.63	4.7%
1324017127	8/2/2020	0.22	0.18	20.0%	2.54	1.90	28.8%
1324008267	8/2/2020	0.18	0.18	0.0%	2.94	3.07	4.3%
1324017195	8/2/2020	0.20	0.19	5.1%	2.06	1.94	6.0%
1324008486	8/2/2020	0.19	0.22	14.6%	2.71	3.02	10.8%
1324008385	8/2/2020	0.23	0.23	0.0%	0.13	0.13	0.0%
1324008174	8/2/2020	0.24	0.24	0.0%	0.11	0.11	0.0%
1324008183	8/2/2020	0.24	0.24	0.0%	0.40	0.40	0.0%
1230058168	8/2/2020	0.24	0.24	0.0%	0.70	0.72	2.8%
1324017178	8/2/2020	0.25	0.24	4.1%	2.07	2.01	2.9%
1324008179	8/2/2020	0.29	0.25	14.8%	0.61	0.54	12.2%
1230058164	8/2/2020	0.26	0.26	0.0%	0.46	0.47	2.2%
1324008519	8/2/2020	0.21	0.26	21.3%	0.64	0.73	13.1%
1324008360	8/2/2020	0.29	0.27	7.1%	0.86	0.81	6.0%
1324008138	8/2/2020	0.27	0.27	0.0%	2.78	2.83	1.8%
1324008556	8/2/2020	0.28	0.28	0.0%	0.13	0.13	0.0%
1324008260	8/2/2020	0.33	0.32	3.1%	0.53	0.55	3.7%
1324008197	8/2/2020	0.36	0.34	5.7%	1.36	1.30	4.5%
1230058221	8/2/2020	0.39	0.38	2.6%	1.17	1.18	0.9%
1324008254	8/2/2020	0.39	0.40	2.5%	0.44	0.41	7.1%
1230058506	8/2/2020	0.46	0.45	2.2%	1.75	1.76	0.6%
1230058264	8/2/2020	0.43	0.45	4.5%	3.00	3.35	11.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324008150	8/2/2020	0.50	0.51	2.0%	0.92	0.93	1.1%
1324017163	8/2/2020	0.53	0.52	1.9%	2.13	2.06	3.3%
1230058151	8/2/2020	0.53	0.56	5.5%	1.45	1.46	0.7%
1230058023	8/4/2020	0.09	0.08	11.8%	4.65	4.60	1.1%
1230058181	8/4/2020	0.15	0.14	6.9%	1.32	1.39	5.2%
1230058084	8/4/2020	0.15	0.15	0.0%	2.85	2.81	1.4%
1230058088	8/4/2020	0.16	0.16	0.0%	0.35	0.34	2.9%
1324008058	8/4/2020	0.15	0.16	6.5%	4.84	4.74	2.1%
1324008108	8/4/2020	0.17	0.17	0.0%	1.35	1.34	0.7%
1230058014	8/4/2020	0.17	0.18	5.7%	0.98	0.99	1.0%
1324008120	8/4/2020	0.17	0.18	5.7%	2.78	2.80	0.7%
1324008005	8/4/2020	0.18	0.19	5.4%	0.45	0.43	4.5%
1230058242	8/4/2020	0.20	0.20	0.0%	2.59	2.62	1.2%
1324008069	8/4/2020	0.23	0.22	4.4%	1.45	1.42	2.1%
1230059083	8/4/2020	0.22	0.22	0.0%	2.60	2.52	3.1%
1230058177	8/4/2020	0.22	0.24	8.7%	0.65	0.66	1.5%
1230058289	8/4/2020	0.26	0.26	0.0%	1.30	1.29	0.8%
1324008062	8/4/2020	0.25	0.26	3.9%	2.13	2.17	1.9%
1230058020	8/4/2020	0.27	0.27	0.0%	1.16	1.20	3.4%
1324008029	8/4/2020	0.33	0.32	3.1%	5.78	5.63	2.6%
1230058008	8/4/2020	0.34	0.36	5.7%	0.76	0.77	1.3%
1230058116	8/4/2020	0.36	0.37	2.7%	0.58	0.57	1.7%
1324008052	8/4/2020	0.45	0.46	2.2%	1.88	2.00	6.2%
1230058527	8/4/2020	0.56	0.56	0.0%	2.35	2.33	0.9%
1230059005	8/5/2020	0.17	0.16	6.1%	6.97	6.80	2.5%
1230059020	8/5/2020	0.18	0.17	5.7%	1.15	1.08	6.3%
1230059116	8/5/2020	0.18	0.17	5.7%	2.47	2.40	2.9%
1230059221	8/5/2020	0.18	0.18	0.0%	2.76	2.66	3.7%
1230059103	8/5/2020	0.19	0.19	0.0%	1.53	1.53	0.0%
1230059167	8/5/2020	0.23	0.21	9.1%	2.79	2.59	7.4%
1230059236	8/5/2020	0.20	0.22	9.5%	1.19	0.75	45.4%
1230059069	8/5/2020	0.21	0.22	4.7%	1.06	1.05	0.9%
1230059187	8/5/2020	0.30	0.28	6.9%	2.31	2.37	2.6%
1324018173	8/5/2020	0.31	0.32	3.2%	1.33	1.32	0.8%
1230059023	8/5/2020	0.38	0.32	17.1%	3.02	3.02	0.0%
1230059152	8/5/2020	0.32	0.34	6.1%	1.90	2.03	6.6%
1230059199	8/5/2020	0.46	0.44	4.4%	2.85	2.78	2.5%
1324014540	8/10/2020	0.08	0.09	11.8%	2.16	2.07	4.3%
1230059332	8/10/2020	0.10	0.10	0.0%	5.57	5.80	4.0%
1324018273	8/10/2020	0.13	0.14	7.4%	1.19	1.19	0.0%
1230059393	8/10/2020	0.15	0.16	6.5%	1.08	1.09	0.9%
1324014243	8/10/2020	0.16	0.16	0.0%	3.32	3.33	0.3%
1324018225	8/10/2020	0.18	0.17	5.7%	1.57	1.51	3.9%
1324014362	8/10/2020	0.17	0.17	0.0%	1.57	1.51	3.9%
1324018255	8/10/2020	0.17	0.18	5.7%	1.82	1.92	5.3%
1230059274	8/10/2020	0.20	0.20	0.0%	2.96	2.99	1.0%
1230059262	8/10/2020	0.22	0.23	4.4%	0.99	0.95	4.1%
1324018177	8/10/2020	0.23	0.23	0.0%	1.23	1.23	0.0%
1324014308	8/10/2020	0.24	0.24	0.0%	4.72	4.71	0.2%
1324020173	8/10/2020	0.26	0.26	0.0%	2.09	2.07	1.0%
1230059348	8/10/2020	0.27	0.26	3.8%	2.10	2.08	1.0%
1324014189	8/10/2020	0.25	0.26	3.9%	4.46	4.55	2.0%
1324018184	8/10/2020	0.26	0.27	3.8%	2.06	2.06	0.0%
1324020183	8/10/2020	0.28	0.28	0.0%	2.51	2.57	2.4%
1324018243	8/10/2020	0.34	0.33	3.0%	1.37	1.42	3.6%
1230059297	8/10/2020	0.36	0.38	5.4%	1.74	1.86	6.7%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1231048098	8/10/2020	0.45	0.44	2.2%	0.47	0.46	2.2%
1324020056	8/10/2020	0.50	0.48	4.1%	1.92	1.89	1.6%
1324020232	8/10/2020	0.53	0.53	0.0%	1.71	1.71	0.0%
1230059098	8/10/2020	0.55	0.55	0.0%	1.39	1.38	0.7%
1324014426	8/10/2020	0.65	0.64	1.6%	0.46	0.46	0.0%
1230059322	8/10/2020	0.77	0.70	9.5%	1.68	1.59	5.5%
1231048112	8/10/2020	0.71	0.71	0.0%	1.13	1.15	1.8%
1324020064	8/12/2020	0.25	0.25	0.0%	2.15	2.01	6.7%
1324020097	8/12/2020	0.34	0.32	6.1%	1.26	1.29	2.4%
1324020108	8/12/2020	0.33	0.32	3.1%	2.85	2.87	0.7%
1324020128	8/12/2020	0.55	0.55	0.0%	2.14	2.13	0.5%
1324014338	8/13/2020	0.17	0.17	0.0%	0.99	1.01	2.0%
1324014505	8/13/2020	0.23	0.23	0.0%	1.26	1.30	3.1%
1324014161	8/13/2020	0.28	0.27	3.6%	0.81	0.80	1.2%
1324014273	8/13/2020	0.30	0.29	3.4%	0.80	0.78	2.5%
1324014390	8/13/2020	0.35	0.32	9.0%	1.41	1.30	8.1%
1324020029	8/14/2020	0.19	0.18	5.4%	3.27	3.34	2.1%
1324015043	8/14/2020	0.19	0.19	0.0%	1.43	1.48	3.4%
1231048080	8/14/2020	0.24	0.24	0.0%	0.49	0.49	0.0%
1324020085	8/14/2020	0.24	0.25	4.1%	2.14	2.22	3.7%
1324015100	8/14/2020	0.28	0.28	0.0%	1.33	1.36	2.2%
1231048036	8/14/2020	0.31	0.31	0.0%	0.81	0.81	0.0%
1231048093	8/14/2020	0.34	0.33	3.0%	0.29	0.30	3.4%
1324020093	8/14/2020	0.29	0.33	12.9%	2.38	2.37	0.4%
1235003024	8/14/2020	0.40	0.39	2.5%	0.26	0.25	3.9%
1231047129	8/14/2020	0.39	0.39	0.0%	0.36	0.34	5.7%
1231048053	8/14/2020	0.52	0.53	1.9%	0.32	0.33	3.1%
1231048075	8/14/2020	0.54	0.53	1.9%	1.38	1.38	0.0%
1235003132	8/14/2020	0.64	0.62	3.2%	0.20	0.20	0.0%
1235003102	8/14/2020	0.77	0.80	3.8%	0.37	0.38	2.7%
1235003100	8/14/2020	0.79	0.83	4.9%	0.69	0.73	5.6%
1324015082	8/14/2020	0.92	0.93	1.1%	0.18	0.17	5.7%
1231047006	8/16/2020	0.34	0.35	2.9%	0.28	0.32	13.3%
1231047014	8/16/2020	0.38	0.38	0.0%	0.35	0.34	2.9%
1231047038	8/16/2020	0.58	0.59	1.7%	0.45	0.45	0.0%
1223001005	8/17/2020	0.21	0.21	0.0%	0.54	0.54	0.0%
1323002309	8/17/2020	0.22	0.22	0.0%	1.44	1.42	1.4%
1223001013	8/17/2020	0.24	0.25	4.1%	0.52	0.51	1.9%
1223001079	8/17/2020	0.24	0.25	4.1%	0.96	1.00	4.1%
1223001203	8/17/2020	0.24	0.25	4.1%	2.24	2.20	1.8%
1323002223	8/17/2020	0.25	0.25	0.0%	2.19	2.21	0.9%
1223001087	8/17/2020	0.25	0.26	3.9%	1.23	1.21	1.6%
1223001058	8/17/2020	0.27	0.27	0.0%	0.47	0.47	0.0%
1223001112	8/17/2020	0.30	0.30	0.0%	1.11	1.12	0.9%
1231047117	8/17/2020	0.35	0.34	2.9%	0.18	0.18	0.0%
1223001032	8/17/2020	0.34	0.34	0.0%	1.69	1.72	1.8%
1223001212	8/17/2020	0.47	0.35	29.3%	2.18	1.58	31.9%
1223001120	8/17/2020	0.40	0.39	2.5%	1.84	1.79	2.8%
1223001223	8/17/2020	0.43	0.42	2.4%	1.82	1.75	3.9%
1223001186	8/17/2020	0.42	0.43	2.4%	2.36	2.36	0.0%
1324015126	8/17/2020	0.44	0.44	0.0%	1.15	1.13	1.8%
1231047060	8/17/2020	0.45	0.47	4.3%	0.16	0.16	0.0%
1223001153	8/17/2020	0.52	0.51	1.9%	2.29	2.30	0.4%
1223001311	8/17/2020	0.55	0.54	1.8%	1.92	1.83	4.8%
1223001167	8/17/2020	0.84	0.83	1.2%	2.64	2.63	0.4%
1231046191	8/19/2020	0.35	0.36	2.8%	0.77	0.74	4.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1231046176	8/19/2020	0.59	0.63	6.6%	0.70	0.76	8.2%
1231046225	8/19/2020	0.77	0.78	1.3%	0.67	0.67	0.0%
1323002169	8/21/2020	0.13	0.14	7.4%	0.35	0.33	5.9%
1323002250	8/21/2020	0.21	0.20	4.9%	2.06	2.09	1.4%
1323002206	8/21/2020	0.20	0.20	0.0%	2.46	2.43	1.2%
1323003159	8/21/2020	0.20	0.22	9.5%	4.31	4.29	0.5%
1231046200	8/21/2020	0.25	0.25	0.0%	0.28	0.26	7.4%
1231046148	8/21/2020	0.26	0.27	3.8%	0.29	0.27	7.1%
1231046032	8/21/2020	0.28	0.27	3.6%	0.69	0.68	1.5%
1231046090	8/21/2020	0.29	0.29	0.0%	0.11	0.11	0.0%
1323002174	8/21/2020	0.39	0.29	29.4%	1.88	1.56	18.6%
1231046014	8/21/2020	0.32	0.32	0.0%	0.52	0.53	1.9%
1231046034	8/21/2020	0.37	0.37	0.0%	0.51	0.49	4.0%
1323003124	8/21/2020	0.38	0.39	2.6%	2.40	2.49	3.7%
1231047022	8/21/2020	0.38	0.41	7.6%	0.36	0.38	5.4%
1231046116	8/21/2020	0.44	0.41	7.1%	0.68	0.65	4.5%
1231047069	8/21/2020	0.43	0.43	0.0%	0.38	0.39	2.6%
1231047103	8/21/2020	0.46	0.46	0.0%	0.22	0.23	4.4%
1231046059	8/21/2020	0.45	0.46	2.2%	0.59	0.58	1.7%
1323003099	8/21/2020	0.45	0.46	2.2%	2.24	2.20	1.8%
1323003144	8/21/2020	0.45	0.47	4.3%	2.95	2.98	1.0%
1231046084	8/21/2020	0.47	0.49	4.2%	0.81	0.80	1.2%
1231046120	8/21/2020	0.53	0.52	1.9%	0.61	0.57	6.8%
1323003193	8/21/2020	0.54	0.52	3.8%	2.43	2.47	1.6%
1323003116	8/21/2020	0.60	0.61	1.7%	1.39	1.31	5.9%
1323003073	8/21/2020	0.63	0.61	3.2%	2.90	2.78	4.2%
1323003178	8/21/2020	0.66	0.63	4.7%	2.60	2.56	1.6%
1323002159	8/21/2020	0.43	0.97	77.1%	1.62	3.61	76.1%
1333099101	8/22/2020	0.43	0.44	2.3%	0.95	0.93	2.1%
1333099020	8/22/2020	0.45	0.47	4.3%	2.37	2.28	3.9%
1333099055	8/22/2020	0.52	0.51	1.9%	0.88	0.90	2.2%
1333099078	8/22/2020	0.57	0.56	1.8%	1.56	1.51	3.3%
1333099036	8/22/2020	0.59	0.61	3.3%	0.61	0.59	3.3%
1333099082	8/22/2020	0.97	0.94	3.1%	0.95	0.93	2.1%
1324021203	8/24/2020	0.13	0.13	0.0%	1.03	1.04	1.0%
1323002045	8/24/2020	0.19	0.19	0.0%	1.72	1.75	1.7%
1324021125	8/24/2020	0.19	0.19	0.0%	2.92	2.84	2.8%
1323003022	8/24/2020	0.21	0.21	0.0%	0.74	0.73	1.4%
1324021259	8/24/2020	0.20	0.21	4.9%	2.04	2.08	1.9%
1323002241	8/24/2020	0.24	0.25	4.1%	1.72	1.78	3.4%
1324021158	8/24/2020	0.28	0.27	3.6%	2.45	2.37	3.3%
1324021185	8/24/2020	0.27	0.27	0.0%	3.10	3.08	0.6%
1324021234	8/24/2020	0.29	0.31	6.7%	2.12	2.27	6.8%
1323002025	8/24/2020	0.35	0.34	2.9%	1.04	1.06	1.9%
1323002183	8/24/2020	0.36	0.35	2.8%	1.87	1.93	3.2%
1323002062	8/24/2020	0.36	0.35	2.8%	2.99	3.00	0.3%
1231046174	8/24/2020	0.39	0.38	2.6%	0.52	0.53	1.9%
1323002014	8/24/2020	0.43	0.43	0.0%	0.69	0.71	2.9%
1323002145	8/24/2020	0.48	0.47	2.1%	2.66	2.60	2.3%
1324021054	8/24/2020	0.51	0.53	3.8%	1.75	1.76	0.6%
1231046137	8/24/2020	0.54	0.54	0.0%	0.33	0.33	0.0%
1324021066	8/24/2020	0.53	0.54	1.9%	2.12	2.12	0.0%
1323002112	8/24/2020	0.57	0.56	1.8%	2.38	2.42	1.7%
1323003056	8/24/2020	0.58	0.58	0.0%	2.02	1.99	1.5%
1323002121	8/24/2020	0.59	0.59	0.0%	2.30	2.29	0.4%
1323002096	8/24/2020	0.62	0.62	0.0%	3.16	3.20	1.3%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323002086	8/24/2020	0.65	0.65	0.0%	2.65	2.66	0.4%
1323003005	8/24/2020	0.49	0.67	31.0%	1.93	1.75	9.8%
1324021034	8/24/2020	0.69	0.68	1.5%	0.99	0.99	0.0%
1323003027	8/24/2020	0.79	0.79	0.0%	2.08	2.08	0.0%
1324021110	8/27/2020	0.14	0.14	0.0%	1.73	1.77	2.3%
1324021087	8/27/2020	0.14	0.15	6.9%	2.46	2.48	0.8%
1324021175	8/27/2020	0.24	0.23	4.3%	2.86	2.85	0.4%
1324021022	8/27/2020	0.25	0.25	0.0%	3.48	3.16	9.6%
1324021084	8/27/2020	0.32	0.32	0.0%	1.24	1.21	2.4%
1324021005	8/27/2020	0.90	0.90	0.0%	1.56	1.58	1.3%
1230060078	8/28/2020	0.06	0.06	0.0%	4.11	4.06	1.2%
1230060132	8/28/2020	0.09	0.08	11.8%	2.62	2.61	0.4%
1324024107	8/28/2020	0.09	0.09	0.0%	1.00	1.11	10.4%
1230060074	8/28/2020	0.08	0.09	11.8%	4.02	3.99	0.7%
1230061042	8/28/2020	0.11	0.14	24.0%	3.10	2.99	3.6%
1322001006	8/28/2020	0.20	0.20	0.0%	0.23	0.10	78.8%
1230061015	8/28/2020	0.21	0.22	4.7%	1.57	1.58	0.6%
1230062262	8/28/2020	0.22	0.22	0.0%	2.05	2.12	3.4%
1230060542	8/28/2020	0.20	0.22	9.5%	3.54	3.73	5.2%
1324022017	8/28/2020	0.24	0.24	0.0%	1.41	1.42	0.7%
1230060126	8/28/2020	0.24	0.24	0.0%	1.79	1.72	4.0%
1230062254	8/28/2020	0.25	0.25	0.0%	0.20	0.19	5.1%
1230060086	8/28/2020	0.24	0.25	4.1%	0.96	0.95	1.0%
1322001021	8/28/2020	0.24	0.25	4.1%	2.29	2.31	0.9%
1230060101	8/28/2020	0.26	0.26	0.0%	0.96	0.94	2.1%
1323004143	8/28/2020	0.27	0.26	3.8%	2.12	2.07	2.4%
1324028015	8/28/2020	0.28	0.27	3.6%	2.74	2.74	0.0%
1324024039	8/28/2020	0.29	0.29	0.0%	1.33	1.34	0.7%
1324022112	8/28/2020	0.32	0.31	3.2%	1.23	1.21	1.6%
1324028081	8/28/2020	0.32	0.31	3.2%	2.36	2.34	0.9%
1324022062	8/28/2020	0.31	0.32	3.2%	1.97	1.95	1.0%
1323004161	8/28/2020	0.34	0.35	2.9%	2.31	2.42	4.7%
1324028076	8/28/2020	0.36	0.36	0.0%	2.31	2.32	0.4%
1324022105	8/28/2020	0.38	0.37	2.7%	1.55	1.41	9.5%
1324028041	8/28/2020	0.40	0.40	0.0%	1.63	1.63	0.0%
1324028047	8/28/2020	0.43	0.41	4.8%	1.59	1.58	0.6%
1323004112	8/28/2020	0.41	0.41	0.0%	2.87	2.90	1.0%
1324022147	8/28/2020	0.42	0.42	0.0%	1.46	1.42	2.8%
1324022097	8/28/2020	0.44	0.43	2.3%	1.49	1.45	2.7%
1324028067	8/28/2020	0.44	0.45	2.2%	2.74	2.56	6.8%
1324028053	8/28/2020	0.47	0.47	0.0%	1.17	1.10	6.2%
1324022150	8/28/2020	0.46	0.49	6.3%	0.81	0.85	4.8%
1323004034	8/28/2020	0.49	0.49	0.0%	3.05	3.07	0.7%
1323004068	8/28/2020	0.51	0.53	3.8%	2.33	2.38	2.1%
1324022012	8/28/2020	0.47	0.54	13.9%	1.32	1.61	19.8%
1324024117	8/28/2020	0.53	0.55	3.7%	0.84	0.84	0.0%
1323004126	8/28/2020	0.68	0.68	0.0%	2.74	2.77	1.1%
1230060520	8/28/2020	0.68	0.69	1.5%	1.06	1.05	0.9%
1230062182	8/28/2020	0.74	0.76	2.7%	1.35	1.39	2.9%
1324024089	8/28/2020	0.80	0.79	1.3%	0.42	0.42	0.0%
1323004105	8/28/2020	0.82	0.81	1.2%	2.19	2.19	0.0%
1324027050	8/30/2020	0.32	0.29	9.8%	2.84	2.74	3.6%
1230062191	8/30/2020	0.28	0.30	6.9%	2.02	2.05	1.5%
1324024103	8/30/2020	0.32	0.32	0.0%	0.73	0.74	1.4%
1324027051	8/30/2020	0.33	0.32	3.1%	2.29	2.27	0.9%
1323005100	8/30/2020	0.32	0.32	0.0%	2.53	2.55	0.8%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1230062216	8/30/2020	0.34	0.33	3.0%	2.02	2.01	0.5%
1230062188	8/30/2020	0.35	0.34	2.9%	1.45	1.41	2.8%
1324024047	8/30/2020	0.38	0.36	5.4%	0.77	0.76	1.3%
1230062143	8/30/2020	0.35	0.36	2.8%	1.48	1.46	1.4%
1230062207	8/30/2020	0.50	0.49	2.0%	0.47	0.46	2.2%
1230062147	8/30/2020	0.50	0.49	2.0%	2.08	2.01	3.4%
1324027026	8/30/2020	0.54	0.54	0.0%	2.77	2.83	2.1%
1323005074	8/30/2020	0.53	0.54	1.9%	3.58	3.84	7.0%
1230062054	8/30/2020	0.61	0.62	1.6%	1.22	1.22	0.0%
1324027086	8/30/2020	0.63	0.64	1.6%	3.28	3.36	2.4%
1230062062	8/30/2020	0.76	0.77	1.3%	1.20	1.21	0.8%
1230062007	8/30/2020	0.90	0.87	3.4%	1.79	1.74	2.8%
1324027042	8/30/2020	0.92	0.94	2.2%	7.88	8.01	1.6%
1324024054	8/31/2020	0.23	0.24	4.3%	0.93	1.00	7.3%
1324024005	8/31/2020	0.25	0.25	0.0%	0.98	1.02	4.0%
1323006236	9/1/2020	0.10	0.10	0.0%	1.60	1.62	1.2%
1324027014	9/1/2020	0.18	0.18	0.0%	2.04	1.97	3.5%
1333096071	9/1/2020	0.20	0.19	5.1%	0.18	0.18	0.0%
1324027008	9/1/2020	0.21	0.22	4.7%	1.87	1.92	2.6%
1323005005	9/1/2020	0.22	0.22	0.0%	2.32	2.30	0.9%
1323006216	9/1/2020	0.23	0.23	0.0%	0.61	0.60	1.7%
1432097090	9/1/2020	0.27	0.27	0.0%	0.72	0.74	2.7%
1432097353	9/1/2020	0.27	0.28	3.6%	3.04	3.00	1.3%
1323005037	9/1/2020	0.31	0.30	3.3%	2.46	2.47	0.4%
1333096158	9/1/2020	0.32	0.31	3.2%	1.36	1.29	5.3%
1323005021	9/1/2020	0.31	0.31	0.0%	2.13	2.13	0.0%
1432097361	9/1/2020	0.36	0.36	0.0%	0.71	0.71	0.0%
1323006199	9/1/2020	0.38	0.37	2.7%	2.11	2.04	3.4%
1230065243	9/1/2020	0.40	0.39	2.5%	1.68	1.63	3.0%
1432097298	9/1/2020	0.44	0.43	2.3%	2.13	2.14	0.5%
1333096153	9/1/2020	0.45	0.44	2.2%	0.36	0.35	2.8%
1333096234	9/1/2020	0.49	0.48	2.1%	0.51	0.53	3.8%
1333096007	9/1/2020	0.53	0.50	5.8%	0.63	0.60	4.9%
1333096263	9/1/2020	0.53	0.52	1.9%	0.80	0.87	8.4%
1333096120	9/1/2020	0.51	0.53	3.8%	0.50	0.48	4.1%
1230065134	9/1/2020	0.54	0.53	1.9%	1.66	1.62	2.4%
1323005047	9/1/2020	0.53	0.54	1.9%	2.15	2.17	0.9%
1333096028	9/1/2020	0.58	0.57	1.7%	0.67	0.69	2.9%
1432097331	9/1/2020	0.63	0.61	3.2%	2.95	2.90	1.7%
1230065193	9/1/2020	0.68	0.69	1.5%	0.61	0.64	4.8%
1230065200	9/1/2020	0.67	0.69	2.9%	2.08	2.13	2.4%
1230065223	9/1/2020	0.75	0.77	2.6%	1.47	1.45	1.4%
1432097117	9/1/2020	0.77	0.78	1.3%	2.45	2.43	0.8%
1323005068	9/3/2020	0.32	0.31	3.2%	2.51	2.53	0.8%
1323007165	9/4/2020	0.14	0.14	0.0%	3.57	3.51	1.7%
1324026005	9/4/2020	0.16	0.15	6.5%	1.12	1.15	2.6%
1324026080	9/4/2020	0.21	0.20	4.9%	0.82	0.82	0.0%
1230065240	9/4/2020	0.22	0.20	9.5%	1.15	1.12	2.6%
1323006292	9/4/2020	0.22	0.22	0.0%	2.43	2.40	1.2%
1323006081	9/4/2020	0.24	0.23	4.3%	1.66	1.75	5.3%
1323006169	9/4/2020	0.24	0.23	4.3%	2.23	2.21	0.9%
1323007176	9/4/2020	0.23	0.24	4.3%	2.44	2.61	6.7%
1323007200	9/4/2020	0.24	0.25	4.1%	2.30	2.29	0.4%
1323007143	9/4/2020	0.25	0.26	3.9%	0.10	0.09	10.5%
1323006055	9/4/2020	0.26	0.26	0.0%	2.08	2.06	1.0%
1323007132	9/4/2020	0.27	0.28	3.6%	2.09	2.05	1.9%

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1323006275	9/4/2020	0.28	0.28	0.0%	2.31	2.31	0.0%
1323007116	9/4/2020	0.31	0.29	6.7%	2.40	2.43	1.2%
1323006172	9/4/2020	0.29	0.29	0.0%	2.64	2.56	3.1%
1323006153	9/4/2020	0.32	0.32	0.0%	1.38	1.39	0.7%
1323006183	9/4/2020	0.34	0.34	0.0%	1.70	1.71	0.6%
1323006095	9/4/2020	0.34	0.34	0.0%	1.78	1.86	4.4%
1323006049	9/4/2020	0.35	0.35	0.0%	1.92	2.01	4.6%
1230065040	9/4/2020	0.38	0.36	5.4%	0.40	0.42	4.9%
1323006072	9/4/2020	0.39	0.39	0.0%	1.98	1.95	1.5%
1230065114	9/4/2020	0.41	0.40	2.5%	0.10	0.08	22.2%
1323006137	9/4/2020	0.41	0.41	0.0%	1.79	1.77	1.1%
1323006113	9/4/2020	0.44	0.43	2.3%	1.95	1.88	3.7%
1323006042	9/4/2020	0.43	0.44	2.3%	1.86	1.85	0.5%
1323006161	9/4/2020	0.45	0.44	2.2%	1.84	1.87	1.6%
1230065100	9/4/2020	0.44	0.46	4.4%	0.05	0.05	0.0%
1323006025	9/4/2020	0.51	0.50	2.0%	2.41	2.42	0.4%
1230065112	9/4/2020	0.51	0.52	1.9%	0.04	0.04	0.0%
1230065055	9/4/2020	0.57	0.56	1.8%	0.63	0.64	1.6%
1230065086	9/4/2020	0.62	0.61	1.6%	1.55	1.51	2.6%
1230065126	9/4/2020	0.68	0.68	0.0%	0.96	0.99	3.1%
1230065031	9/4/2020	0.71	0.72	1.4%	0.05	0.05	0.0%
1324026068	9/6/2020	0.11	0.11	0.0%	1.83	1.79	2.2%
1324026026	9/6/2020	0.16	0.16	0.0%	1.58	1.69	6.7%
1323007022	9/6/2020	0.20	0.20	0.0%	2.25	2.40	6.5%
1324026064	9/6/2020	0.22	0.21	4.7%	0.81	0.81	0.0%
1323007071	9/6/2020	0.23	0.24	4.3%	0.34	0.34	0.0%
1323007082	9/6/2020	0.24	0.24	0.0%	2.69	2.66	1.1%
1323007005	9/6/2020	0.24	0.25	4.1%	2.12	2.15	1.4%
1323007101	9/6/2020	0.26	0.25	3.9%	2.43	2.36	2.9%
1323007045	9/6/2020	0.28	0.27	3.6%	1.75	1.79	2.3%
1432097229	9/6/2020	0.28	0.28	0.0%	0.95	0.96	1.0%
1323007159	9/6/2020	0.29	0.29	0.0%	2.41	2.37	1.7%
1432097306	9/6/2020	0.30	0.31	3.3%	0.61	0.61	0.0%
1324026011	9/6/2020	0.34	0.34	0.0%	1.05	1.08	2.8%
1432097232	9/6/2020	0.38	0.40	5.1%	0.96	0.92	4.3%
1432097244	9/6/2020	0.41	0.41	0.0%	1.27	1.25	1.6%
1432097102	9/6/2020	0.48	0.49	2.1%	1.00	0.99	1.0%
1432097115	9/6/2020	0.49	0.50	2.0%	2.24	2.19	2.3%
1432097163	9/6/2020	0.57	0.57	0.0%	1.69	1.63	3.6%
1323007231	9/7/2020	0.29	0.29	0.0%	1.45	1.49	2.7%
1323016117	9/8/2020	0.16	0.15	6.5%	2.44	2.44	0.0%
1323007250	9/8/2020	0.17	0.17	0.0%	3.25	3.39	4.2%
1323016059	9/8/2020	0.17	0.18	5.7%	2.51	2.47	1.6%
1323007260	9/8/2020	0.20	0.19	5.1%	0.10	0.10	0.0%
1323007244	9/8/2020	0.26	0.26	0.0%	1.87	1.88	0.5%
1323016030	9/8/2020	0.28	0.27	3.6%	3.34	3.39	1.5%
1323016015	9/8/2020	0.31	0.31	0.0%	2.91	2.88	1.0%
1323007264	9/8/2020	0.34	0.34	0.0%	1.22	1.24	1.6%
1323016073	9/8/2020	0.36	0.35	2.8%	2.67	2.66	0.4%
1323016034	9/8/2020	0.43	0.44	2.3%	3.23	3.34	3.3%
1323016110	9/8/2020	0.48	0.48	0.0%	2.46	2.51	2.0%
1323016148	9/8/2020	0.59	0.62	5.0%	1.48	1.53	3.3%
1323016142	9/8/2020	0.75	0.75	0.0%	2.05	2.08	1.5%
1323016098	9/8/2020	0.77	0.77	0.0%	2.03	2.06	1.5%
1323008178	9/9/2020	0.10	0.10	0.0%	1.97	2.06	4.5%
1323008131	9/9/2020	0.11	0.11	0.0%	1.95	1.96	0.5%

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1323008125	9/9/2020	0.14	0.14	0.0%	3.29	3.29	0.0%
1323008190	9/9/2020	0.29	0.29	0.0%	1.66	1.68	1.2%
1323008119	9/9/2020	0.33	0.32	3.1%	0.13	0.14	7.4%
1323008114	9/9/2020	0.53	0.54	1.9%	0.90	0.90	0.0%
1432097346	9/9/2020	0.70	0.71	1.4%	0.19	0.19	0.0%
1323008005	9/10/2020	0.19	0.18	5.4%	2.96	2.96	0.0%
1323008026	9/10/2020	0.20	0.20	0.0%	2.17	2.19	0.9%
1323008070	9/10/2020	0.26	0.26	0.0%	1.74	1.70	2.3%
1323008013	9/10/2020	0.25	0.27	7.7%	1.34	1.36	1.5%
1323008066	9/10/2020	0.35	0.34	2.9%	3.17	3.17	0.0%
1323008040	9/10/2020	0.36	0.35	2.8%	1.66	1.66	0.0%
1323008061	9/10/2020	0.58	0.59	1.7%	0.86	0.85	1.2%
1323009124	9/12/2020	0.24	0.25	0.0%	1.58	1.57	2.0%
1323009160	9/12/2020	0.23	0.23	0.0%	2.77	2.68	3.3%
1323009192	9/12/2020	0.16	0.16	4.1%	5.54	5.43	0.6%
1323009244	9/12/2020	0.62	0.62	0.0%	1.67	1.68	0.6%
1323009034	9/14/2020	0.42	0.43	8.0%	1.12	1.12	1.3%
1323009058	9/14/2020	0.39	0.39	0.0%	0.94	0.96	4.2%
1323009073	9/14/2020	0.46	0.45	5.7%	1.77	1.80	0.0%
1323009324	9/14/2020	0.17	0.17	0.0%	1.92	1.94	1.0%
1323009340	9/14/2020	0.31	0.29	5.7%	1.20	1.15	1.8%
1323012193	9/14/2020	0.16	0.16	0.0%	1.17	1.22	1.5%
1323012198	9/14/2020	0.13	0.12	5.1%	2.29	2.32	2.0%
1323012242	9/14/2020	0.38	0.39	0.0%	2.83	2.87	2.6%
1323012255	9/14/2020	0.18	0.17	6.7%	1.24	1.24	4.3%
1323012273	9/14/2020	0.17	0.18	0.0%	1.67	1.70	2.1%
1323012283	9/14/2020	0.20	0.19	2.6%	1.48	1.51	1.4%
1323012292	9/14/2020	0.24	0.24	2.4%	2.66	2.73	0.0%
1323012316	9/14/2020	0.19	0.19	2.2%	1.29	1.31	1.7%
1230063005	9/16/2020	0.45	0.44	0.0%	0.78	0.78	1.0%
1230063022	9/16/2020	0.16	0.16	7.4%	0.15	0.15	3.5%
1230063034	9/16/2020	0.45	0.43	0.0%	0.82	0.82	2.9%
1230063052	9/16/2020	0.54	0.51	0.0%	0.56	0.53	2.1%
1230063053	9/16/2020	0.52	0.50	4.9%	0.59	0.59	1.1%
1230063062	9/16/2020	0.17	0.18	0.0%	0.15	0.15	0.7%
1230063073	9/16/2020	0.26	0.27	4.3%	0.48	0.45	2.6%
1230063107	9/16/2020	0.08	0.09	0.0%	0.13	0.12	0.9%
1230063110	9/16/2020	0.19	0.19	2.7%	0.15	0.14	10.3%
1230063137	9/16/2020	0.40	0.39	0.0%	0.57	0.54	1.7%
1230063151	9/16/2020	0.30	0.34	2.2%	0.51	0.54	2.0%
1230063179	9/16/2020	0.45	0.44	2.0%	0.52	0.52	0.0%
1230063199	9/16/2020	0.50	0.49	11.8%	0.76	0.76	8.0%
1230063230	9/16/2020	0.52	0.51	0.0%	0.43	0.42	0.0%
1230063270	9/16/2020	0.42	0.42	5.7%	0.44	0.43	0.0%
1230063411	9/16/2020	0.54	0.51	0.0%	1.10	1.09	6.9%
1230063453	9/16/2020	0.31	0.31	3.8%	0.79	0.78	6.5%
1230063473	9/16/2020	0.50	0.50	4.5%	1.03	1.01	0.0%
1230063483	9/16/2020	0.46	0.47	3.9%	1.18	1.23	0.0%
1230063494	9/16/2020	0.84	0.83	1.9%	1.22	1.23	2.4%
1323011005	9/16/2020	0.21	0.20	5.7%	1.77	1.79	5.5%
1323011017	9/16/2020	0.26	0.26	1.7%	1.13	1.14	2.4%
1323011023	9/16/2020	0.45	0.44	0.0%	1.49	1.46	1.3%
1323011049	9/16/2020	0.38	0.38	12.5%	1.17	1.15	5.7%
1323011060	9/16/2020	0.17	0.17	2.5%	0.94	0.96	5.4%
1323011094	9/16/2020	0.24	0.23	0.0%	1.93	1.88	2.3%
1323011106	9/16/2020	0.13	0.13	2.2%	1.05	1.04	0.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323011125	9/16/2020	0.38	0.37	2.2%	2.14	1.93	0.0%
1323011152	9/16/2020	0.16	0.16	2.2%	1.77	1.72	4.1%
1323011153	9/16/2020	0.13	0.14	0.0%	1.98	2.05	2.0%
1323011176	9/16/2020	0.22	0.22	5.7%	1.38	1.37	0.9%
1432089315	9/16/2020	2.38	2.42	1.2%	0.81	0.83	0.8%
1230063340	9/18/2020	0.44	0.45	2.2%	0.28	0.29	3.5%
1230063401	9/18/2020	0.33	0.33	0.0%	0.21	0.19	10.0%
1432089041	9/19/2020	2.45	2.45	1.2%	0.80	0.79	0.0%
1432089179	9/19/2020	2.07	2.09	1.0%	2.85	2.88	1.0%
1432089491	9/19/2020	0.81	0.80	0.0%	0.16	0.16	1.3%
1432089017	9/20/2020	1.29	1.27	0.0%	0.62	0.64	1.9%
1432089062	9/20/2020	1.07	1.08	5.4%	0.99	1.00	0.8%
1432089080	9/20/2020	1.59	1.58	0.0%	1.80	1.80	8.3%
1432089081	9/20/2020	2.70	2.66	0.9%	3.14	3.11	1.0%
1432089269	9/20/2020	0.55	0.54	0.9%	1.48	1.55	2.5%
1432089280	9/20/2020	0.99	1.02	0.0%	2.14	2.23	0.0%
1432089346	9/20/2020	1.18	1.18	1.6%	0.75	0.75	3.2%
1432089348	9/20/2020	0.69	0.69	0.7%	0.53	0.52	0.0%
1432089350	9/20/2020	0.95	0.90	0.0%	1.25	1.24	0.0%
1432089416	9/20/2020	1.11	1.10	0.6%	0.40	0.39	0.0%
1432089453	9/20/2020	2.28	2.29	0.4%	0.98	1.02	2.1%
1432089458	9/20/2020	1.37	1.36	0.4%	0.95	0.95	4.0%
1432089496	9/20/2020	1.47	1.47	1.2%	0.20	0.20	1.3%
1432089522	9/20/2020	2.25	2.24	1.5%	0.95	0.93	1.0%
1432089528	9/20/2020	2.49	2.46	1.8%	0.78	0.79	4.6%
1432089531	9/20/2020	0.92	0.92	3.0%	0.23	0.25	4.1%
1230067006	9/24/2020	0.27	0.26	0.0%	0.37	0.37	1.4%
1230067023	9/24/2020	0.03	0.03	0.0%	2.77	2.94	1.3%
1230067042	9/24/2020	0.30	0.30	2.8%	1.43	1.44	1.2%
1230067051	9/24/2020	0.03	0.04	6.1%	1.63	1.70	8.1%
1230067070	9/24/2020	0.29	0.28	0.0%	0.32	0.34	1.6%
1230067082	9/24/2020	0.36	0.35	2.5%	2.53	2.56	3.6%
1230067120	9/24/2020	0.04	0.04	2.3%	6.29	6.20	0.8%
1230067137	9/24/2020	0.09	0.09	2.2%	3.84	3.89	1.2%
1230068070	9/24/2020	0.70	0.68	2.2%	1.40	1.45	1.2%
1230068100	9/24/2020	0.34	0.36	0.0%	0.32	0.31	4.2%
1230068154	9/24/2020	0.42	0.40	0.0%	1.32	1.30	6.0%
1230068186	9/24/2020	0.70	0.68	28.6%	1.53	1.40	4.2%
1230068200	9/24/2020	0.48	0.43	3.5%	0.60	0.56	0.0%
1230068209	9/24/2020	0.17	0.17	2.9%	0.27	0.27	2.2%
1230068219	9/24/2020	0.52	0.50	10.3%	0.44	0.45	4.1%
1230068245	9/24/2020	0.94	0.95	0.0%	0.81	0.81	2.1%
1323010021	9/24/2020	0.29	0.28	6.7%	1.19	1.19	0.0%
1323010027	9/24/2020	0.50	0.50	0.0%	0.56	0.61	1.1%
1323010034	9/24/2020	0.35	0.34	0.0%	1.41	1.38	0.9%
1323010056	9/24/2020	0.47	0.47	0.0%	0.70	0.73	3.6%
1323010060	9/24/2020	0.45	0.44	18.2%	0.82	0.81	1.7%
1323010061	9/24/2020	0.40	0.39	11.0%	1.14	1.10	6.9%
1323010118	9/24/2020	0.41	0.41	3.9%	0.48	0.47	2.2%
1323010142	9/24/2020	0.44	0.45	6.4%	0.83	0.82	6.0%
1323010166	9/24/2020	0.35	0.35	0.5%	1.28	1.30	1.7%
1323010228	9/24/2020	0.44	0.43	0.0%	1.30	1.31	0.0%
1323010322	9/24/2020	0.17	0.16	8.3%	1.41	1.30	0.9%
1323017059	9/24/2020	0.43	0.46	3.8%	1.10	1.10	0.0%
1323017076	9/24/2020	0.40	0.41	3.5%	2.00	2.01	6.1%
1323017086	9/24/2020	0.34	0.35	0.0%	1.95	1.97	0.7%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323017091	9/24/2020	0.50	0.49	10.2%	1.95	1.99	12.3%
1323017102	9/24/2020	0.37	0.33	11.4%	1.65	1.50	9.5%
1323017118	9/24/2020	0.34	0.34	0.0%	2.20	2.19	0.5%
1323017159	9/24/2020	0.41	0.37	2.9%	1.76	1.69	1.0%
1323017181	9/24/2020	0.12	0.10	5.7%	1.81	1.78	3.2%
1323017186	9/24/2020	0.28	0.31	4.9%	1.45	1.64	1.5%
1323017205	9/24/2020	0.23	0.25	2.5%	2.26	2.28	0.5%
1432089006	9/24/2020	1.99	2.00	2.0%	4.66	4.70	2.0%
1432089093	9/24/2020	1.93	1.92	0.0%	2.91	2.83	8.5%
1432089306	9/24/2020	2.09	2.08	2.9%	1.77	1.74	8.9%
1432089379	9/24/2020	1.94	1.82	2.9%	1.89	1.78	3.5%
1432089381	9/24/2020	2.41	2.41	1.1%	1.38	1.43	0.0%
1433094042	9/24/2020	1.77	1.79	12.7%	7.07	7.13	11.5%
1433094174	9/24/2020	1.34	1.18	1.3%	5.07	4.52	1.5%
1433094177	9/24/2020	1.52	1.50	1.2%	5.47	5.39	0.2%
1433094231	9/24/2020	2.15	2.15	1.1%	4.52	4.56	0.8%
1433094301	9/24/2020	1.66	2.38	0.0%	5.96	5.59	1.6%
1433094349	9/24/2020	1.92	1.92	0.5%	2.46	2.50	2.8%
1433094422	9/24/2020	1.68	1.66	0.5%	5.04	5.05	0.9%
1433094486	9/24/2020	1.59	1.59	35.6%	1.91	1.89	6.4%
1432089178	9/25/2020	2.44	2.33	4.6%	2.68	2.52	6.2%
1432089177	9/26/2020	2.21	2.17	1.8%	4.83	4.75	1.7%
1230068053	9/27/2020	0.53	0.48	19.1%	0.38	0.34	19.0%
1230068101	9/27/2020	0.25	0.25	0.7%	0.26	0.28	2.3%
1230068118	9/27/2020	0.35	0.35	0.0%	0.39	0.40	4.1%
1230068204	9/27/2020	0.15	0.21	3.8%	0.20	0.20	1.9%
1323018041	9/27/2020	0.25	0.25	0.0%	1.48	1.48	3.3%
1323018054	9/27/2020	0.20	0.20	0.0%	0.53	0.51	0.0%
1323018101	9/27/2020	0.26	0.27	7.4%	0.25	0.26	7.4%
1323018110	9/27/2020	0.15	0.15	0.0%	1.86	1.81	3.8%
1323018119	9/27/2020	0.16	0.16	33.3%	0.67	0.65	0.0%
1323018133	9/27/2020	0.11	0.10	4.7%	1.17	1.19	0.0%
1323018156	9/27/2020	0.18	0.18	8.0%	2.83	2.83	6.1%
1323018162	9/27/2020	0.24	0.24	0.0%	1.70	1.70	4.9%
1323021007	9/27/2020	0.13	0.13	19.4%	1.24	1.20	0.0%
1323021019	9/27/2020	0.21	0.22	0.0%	0.05	0.05	2.5%
1323021057	9/27/2020	0.19	0.19	9.9%	1.26	1.29	11.1%
1323021068	9/27/2020	0.30	0.29	9.5%	2.00	2.02	1.7%
1323021089	9/27/2020	0.31	0.31	0.0%	2.67	2.60	2.5%
1323021116	9/27/2020	0.33	0.33	0.0%	0.21	0.20	2.7%
1323021135	9/27/2020	0.36	0.37	0.0%	2.63	2.60	3.0%
1323021154	9/27/2020	0.24	0.26	0.0%	0.17	0.16	0.0%
1323021163	9/27/2020	0.19	0.20	0.0%	2.67	2.53	2.4%
1323021196	9/27/2020	0.13	0.14	5.1%	0.14	0.13	5.4%
1323022008	9/27/2020	0.14	0.14	4.7%	0.06	0.06	9.5%
1323022023	9/27/2020	0.28	0.34	4.7%	0.45	0.45	2.3%
1323022053	9/27/2020	0.21	0.22	0.0%	0.43	0.44	0.0%
1323022068	9/27/2020	0.21	0.22	0.0%	0.10	0.11	7.4%
1323022128	9/27/2020	0.34	0.34	0.0%	1.55	1.59	0.0%
1323022142	9/27/2020	0.14	0.14	3.8%	1.97	2.02	3.9%
1323022163	9/27/2020	0.35	0.35	3.4%	2.37	2.40	1.0%
1433094394	9/27/2020	1.86	1.79	0.0%	2.61	2.56	2.7%
1433094505	9/27/2020	1.36	1.35	0.0%	1.69	1.73	2.5%
1433094522	9/27/2020	0.89	0.90	0.0%	2.46	2.48	1.3%
1433094529	9/27/2020	1.49	1.50	2.7%	2.32	2.38	1.1%
1433094544	9/27/2020	1.32	1.09	1.1%	1.90	1.57	0.8%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1433094565	9/27/2020	0.84	0.84	1.0%	3.10	3.23	1.8%
1433094569	9/27/2020	1.03	1.02	0.7%	2.29	2.25	2.6%
1433094604	9/27/2020	1.48	1.70	13.8%	1.32	1.53	14.7%
1323019071	9/28/2020	0.26	0.25	0.0%	2.67	2.62	4.6%
1323019082	9/28/2020	1.30	1.28	0.0%	0.58	0.60	3.2%
1323019099	9/28/2020	0.56	0.49	3.9%	1.53	1.38	1.9%
1323021131	9/28/2020	0.19	0.19	13.3%	2.80	2.89	10.3%
1323021169	9/28/2020	0.16	0.16	1.6%	2.79	2.92	3.4%
1323018066	9/30/2020	0.18	0.19	5.4%	1.50	1.68	11.3%
1229066037	10/1/2020	0.80	0.82	25.0%	1.83	1.80	3.0%
1229066073	10/1/2020	0.14	0.16	0.0%	3.36	3.90	2.9%
1229066164	10/1/2020	0.26	0.28	4.7%	2.17	2.13	1.5%
1229066208	10/1/2020	0.18	0.18	4.3%	0.78	0.77	1.0%
1229066224	10/1/2020	0.31	0.34	5.1%	1.53	1.40	1.2%
1229066236	10/1/2020	0.69	0.68	3.6%	2.57	2.56	2.2%
1229066252	10/1/2020	0.51	0.50	2.6%	0.69	0.70	1.6%
1229066265	10/1/2020	0.50	0.50	13.3%	0.67	0.67	14.9%
1229066267	10/1/2020	0.30	0.30	4.0%	1.63	1.70	0.0%
1229066292	10/1/2020	0.55	0.55	1.5%	1.09	1.10	0.4%
1229066295	10/1/2020	0.69	0.69	0.0%	1.28	1.28	0.0%
1229066309	10/1/2020	0.19	0.17	2.5%	0.77	0.76	1.7%
1229066317	10/1/2020	0.88	0.90	2.2%	2.18	2.18	0.0%
1229066332	10/1/2020	0.51	0.49	0.0%	0.99	0.99	0.0%
1322020005	10/1/2020	0.96	0.95	7.4%	2.82	2.89	1.9%
1322020020	10/1/2020	0.91	0.89	0.0%	2.07	2.07	2.1%
1322020051	10/1/2020	0.38	0.39	3.6%	1.28	1.30	1.7%
1322020058	10/1/2020	0.29	0.29	21.2%	2.42	2.37	22.4%
1322020165	10/1/2020	0.48	0.46	1.0%	1.96	1.94	2.5%
1322020187	10/1/2020	0.54	0.56	0.0%	1.79	1.82	0.0%
1322020221	10/1/2020	0.26	0.26	0.0%	2.15	2.15	1.5%
1322020339	10/1/2020	0.60	0.57	0.0%	1.68	1.66	1.3%
1322020353	10/1/2020	0.73	0.59	11.1%	1.89	1.51	1.3%
1322020364	10/1/2020	0.21	0.22	0.0%	1.36	1.34	1.3%
1322020411	10/1/2020	0.07	0.09	0.0%	3.62	3.73	4.2%
1322020459	10/1/2020	0.17	0.17	9.2%	2.47	2.40	8.9%
1322020506	10/1/2020	0.55	0.57	0.0%	1.77	1.81	0.0%
1323022030	10/1/2020	0.12	0.12	2.0%	0.23	0.23	1.4%
1323022097	10/1/2020	0.10	0.10	0.0%	0.76	0.75	0.9%
1323022164	10/1/2020	0.04	0.04	2.2%	2.61	2.57	0.0%
1323019040	10/2/2020	0.31	0.31	66.7%	1.79	1.75	0.0%
1323019054	10/2/2020	0.30	0.28	0.0%	2.55	2.49	6.1%
GC20-0401-009	10/2/2020	0.14	0.14	0.0%	9.80	9.89	2.4%
GC20-0401-018	10/2/2020	0.18	0.22	0.0%	2.16	2.28	0.0%
GC20-0402-002	10/2/2020	0.07	0.08	40.0%	1.22	1.19	1.3%
GC20-0402-018	10/2/2020	0.10	0.09	28.6%	4.71	4.70	2.9%
GC20-0403-005	10/2/2020	1.21	1.19	22.2%	1.10	1.12	0.8%
GC20-0403-018	10/2/2020	0.04	0.03	0.0%	4.74	4.88	0.8%
GC20-0404-006	10/2/2020	0.87	0.88	0.0%	1.11	1.13	3.0%
GC20-0405-005	10/2/2020	0.27	0.27	0.0%	0.63	0.63	0.0%
GC20-0406-006	10/2/2020	0.01	0.01	13.3%	5.00	5.12	2.5%
GC20-0407-007	10/2/2020	0.28	0.28	0.0%	1.35	1.36	3.9%
GC20-0408-010	10/2/2020	0.03	0.02	10.5%	4.68	4.74	0.2%
GC20-0408-018	10/2/2020	0.12	0.14	0.0%	6.72	6.64	2.4%
GC20-0409-005	10/2/2020	0.24	0.25	15.4%	5.47	5.54	1.2%
GC20-0409-017	10/2/2020	0.10	0.10	0.0%	7.87	8.06	0.9%
GC20-0410-006	10/2/2020	0.88	0.87	0.0%	1.14	1.12	0.9%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0412-004	10/2/2020	0.99	1.02	0.0%	1.25	1.21	3.1%
GC20-0412-010	10/2/2020	0.04	0.05	0.0%	4.93	4.89	2.4%
GC20-0413-002	10/2/2020	0.86	0.89	0.0%	1.25	1.14	2.5%
GC20-0414-004	10/2/2020	0.08	0.08	0.0%	0.79	0.79	1.5%
GC20-0416-012	10/2/2020	0.78	0.75	5.1%	1.76	1.72	0.3%
GC20-0417-006	10/2/2020	0.01	0.01	4.9%	0.31	0.31	1.1%
GC20-0417-018	10/2/2020	0.82	0.82	0.0%	0.81	0.79	3.6%
GC20-0418-005	10/2/2020	0.22	0.22	0.0%	2.27	2.22	2.2%
GC20-0418-016	10/2/2020	0.90	0.89	20.0%	1.12	1.15	5.4%
GC20-0419-002	10/2/2020	0.63	0.63	4.1%	1.59	1.59	1.3%
GC20-0419-020	10/2/2020	0.19	0.20	0.0%	6.40	6.42	0.0%
GC20-0420-008	10/2/2020	0.18	0.18	0.0%	2.65	2.61	0.7%
GC20-0421-006	10/2/2020	0.01	0.01	0.0%	0.17	0.16	2.1%
GC20-0421-018	10/2/2020	0.45	0.45	0.0%	1.54	1.65	1.1%
GC20-0422-018	10/2/2020	0.64	0.66	0.0%	1.34	1.39	6.9%
GC20-0425-006	10/2/2020	0.02	0.02	0.0%	0.16	0.16	1.0%
GC20-0426-010	10/2/2020	0.15	0.15	0.0%	3.44	3.41	2.0%
GC20-0428-005	10/2/2020	0.08	0.08	0.0%	3.82	3.97	0.0%
GC20-0430-003	10/2/2020	0.47	0.47	3.1%	3.07	3.10	3.7%
GC20-0431-005	10/2/2020	0.88	0.86	3.9%	1.09	1.09	2.3%
GC20-0433-005	10/2/2020	0.21	0.21	0.0%	1.89	1.96	2.5%
GC20-0434-012	10/2/2020	0.55	0.55	2.3%	1.00	1.02	0.0%
GC20-0435-002	10/2/2020	0.07	0.07	1.1%	3.91	4.03	1.8%
GC20-0435-018	10/2/2020	0.35	0.35	1.1%	1.77	1.79	1.8%
GC20-0436-014	10/2/2020	0.18	0.18	3.4%	1.61	1.65	9.2%
GC20-0437-005	10/2/2020	0.17	0.17	1.1%	1.62	1.57	2.6%
GC20-0437-018	10/2/2020	0.20	0.21	3.0%	1.78	1.76	3.3%
GC20-0438-014	10/2/2020	0.17	0.17	1.7%	1.67	1.63	1.8%
GC20-0439-005	10/2/2020	0.07	0.07	6.9%	2.52	2.54	2.4%
GC20-0440-007	10/2/2020	0.31	0.31	0.0%	2.87	2.81	2.3%
1229067459	10/3/2020	0.96	0.96	4.1%	2.20	2.22	2.0%
1229067464	10/3/2020	0.07	0.04	3.5%	5.14	5.38	3.2%
1229067638	10/3/2020	0.69	0.69	7.0%	2.41	2.24	2.5%
1322002097	10/3/2020	0.54	0.53	0.0%	1.33	1.31	0.9%
1322002122	10/3/2020	0.93	0.92	0.9%	2.13	2.15	2.5%
1322002126	10/3/2020	0.17	0.17	54.5%	1.74	1.73	4.6%
1322002151	10/3/2020	0.60	0.60	0.0%	2.51	2.47	0.6%
1322002172	10/3/2020	0.72	0.73	2.3%	2.53	2.58	3.8%
1322002197	10/3/2020	0.64	0.65	1.9%	2.29	2.29	1.5%
1322020092	10/3/2020	0.74	0.71	0.0%	3.02	2.96	1.6%
1322020111	10/3/2020	1.07	1.08	1.6%	2.34	2.40	0.0%
1322020149	10/3/2020	0.59	0.55	0.0%	2.39	2.45	7.3%
1322020161	10/3/2020	0.73	0.71	2.8%	2.18	2.15	1.4%
1323023088	10/3/2020	0.44	0.43	1.4%	1.35	1.30	2.0%
1323023090	10/3/2020	0.29	0.28	1.1%	1.52	1.57	0.9%
1229067531	10/4/2020	0.77	0.90	0.0%	1.27	1.53	0.2%
1229067563	10/4/2020	0.12	0.12	0.0%	2.96	2.96	1.9%
1229067600	10/4/2020	0.58	0.61	0.0%	3.31	3.29	0.9%
1322002005	10/4/2020	0.16	0.16	0.0%	1.87	1.91	6.4%
1322002029	10/4/2020	0.43	0.43	0.0%	2.46	2.45	0.7%
1322002055	10/4/2020	0.24	0.24	0.0%	1.33	1.32	0.0%
1322002088	10/4/2020	0.43	0.42	5.4%	2.35	2.33	7.5%
1323023046	10/4/2020	0.08	0.08	0.0%	2.17	2.19	2.1%
1323023064	10/4/2020	0.23	0.23	0.0%	2.64	2.59	0.8%
1323023073	10/4/2020	0.18	0.18	0.0%	1.44	1.43	4.4%
1323023201	10/4/2020	0.58	0.57	2.4%	1.58	1.62	0.9%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1323023224	10/4/2020	0.11	0.11	0.0%	5.71	5.72	0.4%
1323023248	10/4/2020	0.38	0.38	1.7%	1.39	1.33	2.5%
1323023263	10/4/2020	0.12	0.12	5.0%	1.51	1.61	0.6%
1433094205	10/4/2020	1.26	1.34	15.6%	2.74	2.73	18.6%
1433094308	10/4/2020	1.91	1.93	0.0%	6.21	6.27	4.7%
1433094325	10/4/2020	1.09	1.09	6.2%	2.09	2.19	0.4%
1433094359	10/4/2020	0.19	0.18	1.0%	0.64	0.69	1.0%
1322006065	10/5/2020	0.21	0.21	0.0%	0.23	0.22	1.3%
1322006101	10/5/2020	0.27	0.28	8.0%	0.19	0.19	1.4%
1322006107	10/5/2020	0.14	0.15	0.0%	1.29	1.24	2.0%
1322006108	10/5/2020	0.23	0.23	0.0%	1.59	1.54	4.4%
1322006189	10/5/2020	0.10	0.10	3.6%	2.46	2.40	0.0%
1322006237	10/5/2020	0.06	0.06	0.0%	3.14	3.21	2.2%
1323023103	10/5/2020	0.27	0.27	0.0%	0.79	0.78	2.5%
1323023127	10/5/2020	0.30	0.29	6.9%	1.43	1.39	4.0%
1323023155	10/5/2020	0.12	0.13	0.0%	2.23	2.20	3.2%
1323023167	10/5/2020	0.29	0.29	3.4%	1.59	1.58	2.8%
1323023170	10/5/2020	0.46	0.47	0.0%	0.90	0.90	0.6%
1323023182	10/5/2020	0.14	0.14	2.2%	1.52	1.49	0.0%
1323024226	10/6/2020	0.22	0.21	4.7%	1.58	1.54	2.6%
1322002043	10/7/2020	0.22	0.23	0.0%	0.58	0.58	0.0%
1322002105	10/7/2020	0.13	0.12	7.4%	1.53	1.69	3.2%
1322002205	10/7/2020	0.33	0.34	3.0%	2.20	2.16	1.8%
1322003003	10/7/2020	0.34	0.35	0.0%	3.47	3.46	0.3%
1322003021	10/7/2020	0.53	0.55	8.0%	2.20	2.17	9.9%
1322003038	10/7/2020	0.46	0.45	4.4%	2.53	2.69	0.0%
1322003170	10/7/2020	0.27	0.26	4.1%	2.87	3.01	0.9%
1322003189	10/7/2020	0.25	0.24	3.8%	2.24	2.26	4.8%
1322004021	10/7/2020	0.06	0.06	2.9%	0.82	0.82	0.3%
1322006043	10/7/2020	0.40	0.39	5.1%	1.65	1.64	3.3%
1322006079	10/7/2020	0.41	0.41	2.5%	2.01	1.96	0.6%
1322006116	10/7/2020	0.40	0.40	0.0%	1.91	1.84	3.7%
1322006153	10/7/2020	0.56	0.55	0.0%	2.05	2.04	2.5%
1322006197	10/7/2020	0.40	0.38	2.2%	2.65	2.74	6.1%
1322006245	10/7/2020	0.50	0.49	2.0%	2.49	2.42	2.9%
1322006258	10/7/2020	0.10	0.10	1.8%	2.93	2.94	0.5%
1323024163	10/7/2020	0.14	0.13	3.7%	1.60	1.55	1.4%
1322004149	10/9/2020	0.25	0.25	5.7%	2.82	2.82	1.4%
1322004180	10/9/2020	0.12	0.13	0.0%	2.28	2.20	0.0%
1322005035	10/9/2020	0.16	0.16	0.0%	1.71	1.75	0.0%
1322005095	10/9/2020	0.29	0.29	8.0%	1.92	1.91	3.6%
1322005155	10/9/2020	0.23	0.24	0.0%	1.55	1.54	2.3%
1322005274	10/9/2020	0.19	0.19	0.0%	1.42	1.38	2.9%
1323024135	10/9/2020	0.18	0.17	4.3%	2.79	2.75	0.6%
1432090021	10/9/2020	0.32	0.36	3.4%	1.59	1.50	0.0%
1432090042	10/9/2020	0.71	0.71	0.0%	1.64	1.61	0.5%
1432090049	10/9/2020	0.49	0.50	0.0%	0.62	0.63	2.9%
1432090059	10/9/2020	0.34	0.34	0.0%	0.71	0.69	0.5%
1432090093	10/9/2020	0.46	0.44	11.8%	0.69	0.69	5.8%
1432090129	10/9/2020	0.54	0.53	4.4%	1.15	1.17	0.0%
1432090150	10/9/2020	0.56	0.57	2.0%	0.99	0.99	1.6%
1432090175	10/9/2020	0.56	0.56	0.0%	0.95	0.91	0.0%
1432090188	10/9/2020	0.55	0.53	1.9%	1.51	1.51	1.7%
1432090205	10/9/2020	0.67	0.67	3.7%	1.45	1.40	0.0%
1432090234	10/9/2020	0.52	0.52	0.0%	0.60	0.60	4.3%
1432090244	10/9/2020	0.34	0.34	1.8%	2.04	2.05	0.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1432090253	10/9/2020	0.91	0.89	0.0%	1.17	1.16	3.5%
1432090259	10/9/2020	1.11	1.11	0.0%	3.17	3.14	1.8%
1432090289	10/9/2020	0.24	0.24	2.2%	0.55	0.55	0.9%
1432090469	10/9/2020	0.30	0.29	0.0%	0.08	0.08	1.0%
1229068208	10/11/2020	0.67	0.67	2.0%	2.05	2.05	2.5%
1322003196	10/11/2020	0.25	0.25	0.0%	2.36	2.40	1.5%
1322003201	10/11/2020	0.17	0.18	6.5%	0.75	0.73	2.8%
1322004072	10/11/2020	0.45	0.46	0.0%	2.07	2.07	1.1%
1322004075	10/11/2020	0.50	0.51	2.2%	1.58	1.62	0.0%
1322004095	10/11/2020	0.15	0.16	0.0%	2.52	2.45	0.0%
1322005046	10/11/2020	0.18	0.19	28.6%	2.09	2.13	6.9%
1322005113	10/11/2020	0.13	0.13	0.0%	3.43	3.38	9.5%
1322005137	10/11/2020	0.20	0.20	5.4%	1.87	1.88	1.9%
1322005139	10/11/2020	0.16	0.16	0.0%	1.89	1.83	3.2%
1322005167	10/11/2020	0.23	0.23	21.1%	1.85	1.86	2.4%
1322005174	10/11/2020	0.34	0.33	0.0%	0.79	0.78	1.0%
1322005250	10/11/2020	0.09	0.12	5.7%	0.14	0.15	2.7%
1322005286	10/11/2020	0.21	0.17	0.0%	2.95	2.88	0.5%
1322005306	10/11/2020	0.14	0.14	0.0%	0.11	0.10	0.5%
1322006010	10/11/2020	0.25	0.25	0.0%	1.42	1.47	3.5%
1322006028	10/11/2020	0.35	0.35	0.0%	1.76	1.78	1.7%
1322006049	10/11/2020	0.28	0.28	0.0%	1.79	1.83	2.2%
1322006191	10/11/2020	0.17	0.17	3.0%	3.11	3.14	1.3%
1322003050	10/14/2020	0.38	0.38	7.4%	1.85	1.82	2.9%
1322003063	10/14/2020	0.34	0.34	4.3%	3.10	3.17	0.8%
1322003073	10/14/2020	0.46	0.46	8.7%	1.92	1.90	1.2%
1322003089	10/14/2020	0.61	0.61	3.5%	1.89	1.88	0.0%
1322003107	10/14/2020	0.28	0.25	0.0%	1.09	1.10	1.8%
1322003123	10/14/2020	0.49	0.49	11.3%	2.78	2.79	0.9%
1322003149	10/14/2020	0.99	0.98	0.0%	2.23	2.15	3.2%
1322004065	10/14/2020	0.29	0.28	0.0%	1.79	1.79	2.2%
1322004109	10/14/2020	0.24	0.23	0.0%	2.61	2.59	1.6%
1322004123	10/14/2020	0.17	0.17	0.0%	2.69	2.74	1.0%
1322004137	10/14/2020	0.30	0.30	0.0%	2.49	2.57	0.4%
1322005065	10/14/2020	0.13	0.14	0.0%	3.37	3.47	0.5%
1322005240	10/14/2020	0.22	0.24	1.0%	2.45	2.42	3.7%
1229068127	10/15/2020	0.66	0.68	0.0%	2.58	2.38	1.1%
1229068288	10/15/2020	0.42	0.45	7.4%	2.03	2.16	4.4%
1322004162	10/15/2020	0.46	0.47	3.5%	2.92	2.96	1.0%
1322004207	10/15/2020	1.11	1.10	6.9%	2.63	2.66	6.2%
1322007020	10/15/2020	0.29	0.28	0.0%	2.03	2.01	0.9%
1322007030	10/15/2020	0.34	0.37	3.0%	1.73	1.72	8.1%
1322007033	10/15/2020	0.69	0.81	0.0%	2.19	2.18	3.4%
1322007043	10/15/2020	0.23	0.22	4.4%	0.92	0.91	1.1%
1322007068	10/15/2020	0.12	0.12	3.9%	1.71	1.77	5.5%
1322007121	10/15/2020	0.25	0.26	10.5%	1.94	2.05	0.5%
1322007144	10/15/2020	0.26	0.28	8.5%	1.79	1.87	0.6%
1322007150	10/15/2020	0.30	0.27	2.2%	1.86	1.85	1.4%
1322007156	10/15/2020	0.48	0.48	16.0%	1.15	1.16	0.5%
1322007194	10/15/2020	0.22	0.22	0.9%	1.82	1.80	1.1%
1229071039	10/16/2020	0.33	0.33	6.3%	0.50	0.50	2.2%
1229071046	10/16/2020	0.53	0.43	10.5%	2.43	2.02	10.5%
1229071049	10/16/2020	0.97	0.96	0.0%	2.01	2.02	2.9%
1229071056	10/16/2020	0.46	0.46	66.7%	2.36	2.39	0.7%
1229071076	10/16/2020	0.38	0.38	0.0%	1.13	1.11	0.0%
1229071106	10/16/2020	1.03	1.02	8.0%	2.43	2.40	2.2%

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1229071111	10/16/2020	0.45	0.44	0.0%	2.04	2.06	2.2%
1229071154	10/16/2020	0.47	0.50	6.9%	1.60	1.62	0.0%
1322007191	10/16/2020	0.31	0.33	11.1%	1.81	1.85	3.4%
1322008007	10/16/2020	0.09	0.10	0.0%	0.10	0.09	0.0%
1322008023	10/16/2020	0.34	0.34	12.9%	1.82	1.83	3.1%
1322008055	10/16/2020	0.01	0.01	0.0%	2.70	2.68	0.5%
1322008061	10/16/2020	0.19	0.17	0.0%	2.39	2.31	1.8%
1322008068	10/16/2020	0.13	0.13	20.8%	0.69	0.67	18.4%
1322008100	10/16/2020	0.14	0.15	2.2%	2.98	2.98	1.0%
1322008110	10/16/2020	0.13	0.12	0.0%	1.41	1.38	1.3%
1322008111	10/16/2020	0.06	0.06	6.2%	1.52	1.52	1.2%
1322008139	10/16/2020	0.58	0.60	3.4%	0.51	0.52	1.9%
1322008170	10/16/2020	0.29	0.33	1.0%	1.60	1.65	0.5%
1322008184	10/16/2020	0.15	0.15	1.0%	1.41	1.38	1.2%
1229069085	10/17/2020	0.14	0.14	8.7%	2.47	2.45	2.8%
1322009075	10/17/2020	0.21	0.22	0.0%	2.32	2.33	0.8%
1322009104	10/17/2020	0.23	0.23	0.0%	2.02	2.08	1.3%
1322009117	10/17/2020	0.87	0.96	4.7%	0.57	0.55	0.4%
1322009135	10/17/2020	0.23	0.23	0.0%	2.99	3.02	2.9%
1322009150	10/17/2020	0.12	0.11	0.0%	2.13	2.19	1.0%
1322009160	10/17/2020	0.20	0.20	9.8%	2.24	2.21	3.6%
1322009265	10/17/2020	0.12	0.12	0.0%	5.30	5.31	0.2%
1322009298	10/17/2020	0.27	0.26	3.8%	1.74	1.78	2.3%
1322009322	10/17/2020	0.13	0.13	0.0%	2.62	2.64	0.8%
1229070024	10/18/2020	0.69	0.71	5.1%	1.27	1.25	1.5%
1229070092	10/18/2020	0.90	0.90	4.3%	1.19	1.17	0.0%
1229070375	10/18/2020	0.63	0.62	0.0%	1.39	1.37	0.8%
1229070441	10/18/2020	0.37	0.38	3.4%	1.35	1.36	0.4%
1229070452	10/18/2020	0.18	0.17	5.4%	0.26	0.26	1.2%
1322009384	10/18/2020	0.24	0.23	5.7%	0.83	0.83	0.0%
1322009430	10/18/2020	0.18	0.19	2.7%	2.50	2.47	0.7%
1322009431	10/18/2020	0.30	0.29	1.6%	2.40	2.39	1.4%
1322009444	10/18/2020	0.24	0.24	2.9%	1.22	1.23	1.6%
1322009459	10/18/2020	0.20	0.19	0.0%	1.36	1.34	1.7%
1229070049	10/20/2020	0.60	0.60	6.9%	1.92	1.96	0.8%
1229070077	10/20/2020	0.37	0.40	0.0%	1.04	0.97	0.6%
1229070126	10/20/2020	0.44	0.44	0.0%	0.89	0.87	2.3%
1229070218	10/20/2020	0.30	0.31	1.8%	0.65	0.65	0.6%
1229070275	10/20/2020	0.56	0.57	3.3%	1.78	1.79	0.0%
1322009068	10/20/2020	0.23	0.23	7.8%	1.79	1.80	7.0%
1322009214	10/20/2020	0.15	0.14	0.0%	2.41	2.43	2.1%
1322009009	10/22/2020	0.11	0.12	8.7%	1.56	1.58	1.3%
1322009026	10/22/2020	0.20	0.20	0.0%	3.18	2.99	9.3%
1322009042	10/22/2020	0.62	0.63	1.6%	0.65	0.62	4.7%
1322009045	10/22/2020	0.19	0.19	0.0%	2.93	2.94	0.3%
1322009054	10/22/2020	0.14	0.14	0.0%	1.85	2.03	6.2%
1229070133	10/23/2020	0.20	0.19	0.0%	0.57	0.57	0.8%
1229070139	10/23/2020	0.48	0.49	0.0%	1.06	1.07	0.3%
1229070177	10/23/2020	0.22	0.22	3.5%	0.41	0.42	4.0%
1229070235	10/23/2020	0.38	0.38	0.0%	0.77	0.77	0.9%
1229070252	10/23/2020	0.32	0.32	9.5%	1.05	1.06	0.0%
1229073101	10/23/2020	0.11	0.10	0.0%	0.09	0.09	0.0%
1229073104	10/23/2020	0.24	0.24	0.0%	1.00	1.01	0.0%
1322010005	10/23/2020	0.25	0.25	6.5%	3.06	3.07	0.0%
1322010021	10/23/2020	0.28	0.28	0.0%	2.90	2.90	4.2%
1322010033	10/23/2020	0.19	0.19	5.7%	2.37	2.40	0.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1322010064	10/23/2020	0.22	0.22	5.4%	2.44	2.46	0.0%
1322010081	10/23/2020	0.13	0.13	5.1%	0.12	0.12	0.0%
1322010105	10/23/2020	0.29	0.29	0.0%	2.16	2.14	2.1%
1322010129	10/23/2020	0.13	0.13	0.0%	0.29	0.29	1.3%
1322010134	10/23/2020	0.28	0.29	9.5%	1.56	1.59	7.4%
1322010143	10/23/2020	0.22	0.20	0.0%	2.34	2.52	2.4%
1322010168	10/23/2020	0.09	0.09	4.4%	0.47	0.49	5.1%
1322010180	10/23/2020	0.16	0.15	0.0%	0.08	0.08	1.0%
1322011022	10/23/2020	0.19	0.19	4.3%	0.98	0.96	1.7%
1322011071	10/23/2020	0.40	0.41	4.1%	0.86	0.85	3.0%
1322011112	10/23/2020	0.28	0.28	3.8%	1.05	1.06	8.5%
1322011155	10/23/2020	0.29	0.28	0.0%	2.01	1.99	0.9%
1322011182	10/23/2020	0.29	0.28	3.5%	1.52	1.46	1.0%
1322011187	10/23/2020	0.23	0.24	0.0%	1.21	1.19	0.0%
1322011230	10/23/2020	0.24	0.25	3.5%	1.69	1.64	1.9%
1433092013	10/23/2020	0.19	0.18	3.4%	0.31	0.31	2.5%
1433092041	10/23/2020	0.26	0.27	0.0%	0.49	0.45	0.9%
1433092093	10/23/2020	0.22	0.23	0.0%	0.20	0.19	0.0%
1433092227	10/23/2020	0.17	0.18	2.5%	0.12	0.12	1.2%
1433092247	10/23/2020	0.29	0.30	2.1%	0.40	0.39	0.9%
1229073005	10/24/2020	0.14	0.13	0.0%	0.13	0.13	2.8%
1229073073	10/24/2020	0.66	0.69	0.0%	1.10	1.07	2.0%
1229073083	10/24/2020	0.13	0.13	0.0%	0.10	0.10	0.0%
1229073256	10/24/2020	0.54	0.55	4.7%	2.40	2.44	2.3%
1229073391	10/24/2020	0.56	0.56	1.8%	1.33	1.36	1.7%
1322010137	10/24/2020	0.21	0.21	0.0%	0.92	0.92	2.2%
1322013459	10/24/2020	0.20	0.20	0.0%	3.45	3.38	0.0%
1322013500	10/24/2020	0.32	0.33	7.4%	1.33	1.31	0.0%
1322015021	10/24/2020	0.19	0.19	0.0%	1.79	1.84	1.1%
1322015035	10/24/2020	0.21	0.22	0.0%	1.27	1.30	3.7%
1322015081	10/24/2020	0.15	0.16	6.5%	1.35	1.37	1.5%
1322015088	10/24/2020	0.41	0.42	0.0%	1.18	1.24	2.9%
1322015102	10/24/2020	0.16	0.16	6.7%	1.07	1.11	0.0%
1322015110	10/24/2020	0.20	0.20	3.1%	1.03	1.06	1.5%
1322015124	10/24/2020	0.16	0.16	2.4%	0.91	0.92	5.0%
1322015138	10/24/2020	0.49	0.49	0.0%	1.04	1.03	4.7%
1322015145	10/24/2020	0.31	0.29	0.0%	1.55	1.55	1.0%
1433092106	10/24/2020	0.46	0.46	4.4%	0.42	0.44	2.8%
1322013246	10/25/2020	0.25	0.25	0.0%	2.00	1.90	6.7%
1322013258	10/25/2020	0.22	0.21	0.0%	1.99	2.06	1.7%
1322013318	10/25/2020	0.20	0.20	0.0%	1.19	1.21	9.5%
1322013320	10/25/2020	0.17	0.17	4.7%	1.30	1.39	3.5%
1322013405	10/25/2020	0.41	0.41	4.3%	0.81	0.84	5.1%
1322013410	10/25/2020	0.31	0.30	0.0%	1.45	1.39	5.1%
1322013412	10/25/2020	0.23	0.24	3.3%	1.82	1.73	4.2%
1322013481	10/25/2020	0.21	0.21	0.0%	0.66	0.60	3.6%
1229073038	10/27/2020	0.14	0.15	0.0%	0.14	0.14	5.3%
1229073091	10/27/2020	0.46	0.47	0.0%	0.50	0.51	0.6%
1322013339	10/27/2020	0.18	0.18	6.9%	1.48	1.56	0.0%
1322013374	10/27/2020	0.14	0.14	2.2%	1.79	1.78	2.0%
1432003110	10/27/2020	1.89	1.93	1.0%	0.50	0.55	1.6%
1432003175	10/27/2020	1.02	1.03	2.1%	0.62	0.63	9.5%
1229070087	10/28/2020	0.14	0.15	8.7%	0.37	0.37	1.6%
1229070315	10/28/2020	0.20	0.20	0.0%	0.39	0.38	1.9%
1229070378	10/28/2020	0.48	0.48	1.4%	1.60	1.63	1.4%
1322012063	10/28/2020	0.30	0.33	1.8%	1.50	1.50	0.0%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1322012086	10/28/2020	0.27	0.25	1.1%	1.93	1.89	1.3%
1322012116	10/28/2020	0.15	0.15	1.5%	2.85	2.87	3.5%
1322015301	10/28/2020	0.12	0.11	0.4%	1.26	1.28	0.0%
1322015347	10/28/2020	0.32	0.32	0.4%	1.03	1.02	1.7%
1432003057	10/28/2020	1.43	1.45	6.9%	2.16	2.13	0.0%
1432003090	10/28/2020	2.37	2.38	0.0%	0.59	0.60	0.7%
1432003095	10/28/2020	1.88	1.90	0.0%	0.79	0.80	2.6%
1432003191	10/28/2020	1.70	1.67	7.7%	0.54	0.54	2.1%
1432003233	10/28/2020	2.37	2.36	0.0%	0.24	0.24	1.0%
1432003303	10/28/2020	1.98	1.95	9.5%	0.88	0.85	0.0%
1322012049	10/30/2020	0.06	0.05	9.5%	0.14	0.13	3.2%
1322012055	10/30/2020	0.18	0.18	18.2%	0.56	0.54	7.4%
1322012074	10/30/2020	0.10	0.11	0.0%	4.61	4.76	3.6%
1432003013	10/30/2020	2.22	2.19	2.1%	1.47	1.37	4.0%
1432003018	10/30/2020	1.51	1.48	2.0%	1.49	1.51	1.3%
1432003030	10/30/2020	1.67	1.62	3.0%	1.00	0.98	2.0%
1432003050	10/30/2020	1.44	1.47	1.4%	0.73	0.76	7.0%
1432003088	10/30/2020	2.48	2.49	0.4%	0.67	0.67	0.0%
1432005143	10/30/2020	0.40	0.40	0.0%	1.11	1.07	0.0%
1432005189	10/30/2020	0.37	0.37	0.0%	0.71	0.73	2.8%
1432005267	10/30/2020	0.34	0.34	0.0%	0.31	0.31	3.7%
1322004216	10/31/2020	0.30	0.31	0.0%	3.39	3.17	10.5%
1322012013	10/31/2020	0.09	0.09	0.0%	0.09	0.10	13.3%
1322012035	10/31/2020	0.11	0.11	2.1%	0.08	0.07	1.7%
1432003525	10/31/2020	0.48	0.47	3.3%	0.60	0.59	6.7%
1432005042	10/31/2020	0.47	0.46	4.5%	1.58	1.55	5.1%
1432005237	10/31/2020	0.45	0.43	2.2%	0.60	0.57	1.9%
1229075184	11/2/2020	0.19	0.19	0.0%	0.17	0.18	2.8%
1229075218	11/2/2020	0.47	0.47	1.1%	0.37	0.37	0.9%
1229075233	11/2/2020	0.10	0.10	0.0%	0.13	0.14	5.7%
1229075240	11/2/2020	0.23	0.22	4.4%	0.33	0.38	14.1%
1229075266	11/2/2020	0.41	0.41	2.5%	1.20	1.21	9.5%
1331002009	11/2/2020	0.53	0.52	1.9%	0.23	0.22	4.4%
1331002048	11/2/2020	0.78	0.80	0.0%	0.49	0.49	4.7%
1331002051	11/2/2020	0.83	0.83	2.2%	1.07	1.10	4.4%
1331002065	11/2/2020	0.99	0.99	0.0%	0.41	0.40	2.5%
1331002071	11/2/2020	0.92	0.93	0.7%	1.16	1.15	0.0%
1331002077	11/2/2020	0.46	0.44	1.6%	0.94	0.93	0.0%
1331002122	11/2/2020	1.12	1.06	0.0%	1.22	1.16	7.4%
1331002179	11/2/2020	1.87	1.90	0.0%	1.31	1.31	0.8%
1331002181	11/2/2020	2.09	2.09	4.4%	1.60	1.54	1.1%
1331002195	11/2/2020	0.41	0.40	0.0%	0.30	0.33	0.0%
1331002196	11/2/2020	0.48	0.49	2.1%	0.85	0.82	3.6%
1331002244	11/2/2020	1.48	1.47	2.5%	0.60	0.60	0.0%
1331002309	11/2/2020	0.90	0.88	5.5%	0.89	0.93	5.0%
1331002419	11/2/2020	0.68	0.68	0.0%	0.44	0.42	3.8%
1229075514	11/5/2020	0.45	0.43	0.0%	0.11	0.11	1.8%
1229075521	11/5/2020	0.41	0.45	0.7%	0.19	0.21	0.3%
1229075533	11/5/2020	0.43	0.38	0.6%	0.68	0.63	0.8%
1229075553	11/5/2020	0.43	0.45	1.2%	0.42	0.41	0.5%
1229075561	11/5/2020	0.23	0.24	0.0%	0.13	0.14	2.2%
1229075568	11/5/2020	0.25	0.25	1.0%	0.46	0.45	0.3%
1321001075	11/5/2020	0.15	0.16	0.5%	2.77	2.82	1.5%
1322015060	11/5/2020	0.10	0.10	1.4%	6.03	5.92	0.0%
1331002311	11/5/2020	0.66	0.66	0.5%	0.42	0.45	4.0%
1432004022	11/5/2020	1.98	2.02	2.0%	1.27	1.23	3.2%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1432004057	11/5/2020	1.06	1.05	4.3%	0.57	0.57	7.4%
1432004096	11/5/2020	1.73	1.73	4.5%	3.59	3.67	0.0%
1432004107	11/5/2020	1.94	1.93	9.3%	1.01	0.97	10.0%
1432004122	11/5/2020	2.12	2.10	4.5%	1.38	1.44	2.4%
1432004137	11/5/2020	1.42	1.40	0.0%	3.55	3.55	6.9%
1432006002	11/5/2020	1.99	2.01	0.9%	3.64	3.65	0.0%
1432006007	11/5/2020	2.03	2.04	1.7%	2.69	2.65	4.5%
1432006103	11/5/2020	2.32	2.32	0.0%	5.17	5.07	0.0%
1432006125	11/5/2020	1.43	1.44	0.9%	6.94	6.96	4.3%
1432006155	11/5/2020	2.11	2.19	3.7%	1.18	1.18	0.0%
1432006167	11/5/2020	2.01	2.01	6.5%	1.98	1.98	1.8%
1432006194	11/5/2020	1.71	1.74	0.0%	1.75	1.83	2.2%
1432006208	11/5/2020	1.63	1.62	12.3%	8.46	8.53	7.6%
1432006209	11/5/2020	1.70	1.72	0.0%	6.24	6.21	2.0%
1321001023	11/6/2020	0.28	0.28	155.6%	2.13	2.13	3.8%
1321001073	11/6/2020	0.25	0.25	0.0%	3.70	3.75	3.3%
1432006069	11/6/2020	1.00	1.04	120.0%	0.89	0.89	4.4%
1432006084	11/6/2020	0.85	0.85	0.0%	0.40	0.41	0.5%
1432006095	11/6/2020	2.33	2.33	0.0%	5.80	5.76	0.0%
GC20-0441-010	11/6/2020	0.19	0.19	0.0%	2.04	2.06	1.1%
GC20-0442-005	11/6/2020	0.17	0.17	0.0%	1.68	1.74	1.8%
GC20-0442-020	11/6/2020	0.15	0.15	0.0%	1.78	1.84	6.2%
GC20-0443-017	11/6/2020	0.24	0.25	0.0%	1.82	1.81	1.6%
GC20-0444-013	11/6/2020	0.19	0.20	15.4%	1.82	1.85	3.5%
GC20-0445-005	11/6/2020	0.22	0.20	0.0%	2.48	2.46	1.3%
GC20-0446-002	11/6/2020	0.22	0.22	0.0%	1.88	1.91	4.2%
GC20-0446-018	11/6/2020	0.38	0.38	18.2%	2.97	3.02	1.4%
GC20-0447-007	11/6/2020	0.35	0.33	15.4%	1.89	1.86	3.0%
GC20-0448-005	11/6/2020	0.15	0.16	0.0%	2.43	2.40	0.0%
GC20-0449-001	11/6/2020	0.26	0.26	0.0%	2.32	2.33	2.2%
GC20-0449-017	11/6/2020	0.13	0.13	0.0%	2.01	2.07	2.1%
GC20-0450-014	11/6/2020	0.22	0.22	15.4%	1.86	1.82	1.7%
GC20-0451-005	11/6/2020	0.33	0.34	0.0%	2.29	2.33	0.6%
GC20-0452-001	11/6/2020	0.29	0.30	11.8%	2.34	2.33	0.0%
GC20-0453-005	11/6/2020	0.33	0.33	0.0%	2.21	2.11	9.6%
GC20-0454-005	11/6/2020	0.09	0.09	11.8%	2.11	2.10	1.1%
GC20-0455-002	11/6/2020	0.15	0.14	0.0%	1.92	1.94	0.0%
GC20-0455-019	11/6/2020	0.45	0.45	0.0%	2.22	2.22	0.5%
GC20-0456-015	11/6/2020	0.24	0.24	0.0%	2.21	2.22	2.3%
GC20-0457-012	11/6/2020	0.28	0.28	10.5%	2.74	2.76	0.4%
GC20-0458-005	11/6/2020	0.09	0.09	0.0%	1.98	1.98	0.0%
GC20-0458-018	11/6/2020	0.23	0.23	0.0%	2.24	2.32	3.4%
GC20-0459-005	11/6/2020	0.04	0.01	0.0%	2.08	2.16	3.1%
GC20-0460-005	11/6/2020	0.26	0.26	0.0%	2.00	2.00	6.5%
GC20-0461-002	11/6/2020	0.16	0.14	0.0%	2.59	2.50	4.7%
GC20-0461-018	11/6/2020	0.45	0.47	0.0%	1.32	1.33	0.0%
GC20-0462-014	11/6/2020	0.62	0.63	0.0%	1.26	1.29	0.4%
GC20-0463-005	11/6/2020	0.07	0.06	0.0%	2.35	2.28	2.8%
GC20-0464-001	11/6/2020	0.04	0.01	0.0%	2.01	2.10	5.6%
GC20-0464-018	11/6/2020	0.06	0.07	0.0%	1.78	1.75	1.2%
GC20-0465-015	11/6/2020	0.10	0.10	8.7%	2.56	2.49	4.7%
GC20-0466-010	11/6/2020	0.01	0.01	8.7%	2.40	2.48	3.6%
GC20-0467-005	11/6/2020	0.03	0.03	8.0%	2.18	2.17	0.0%
GC20-0468-015	11/6/2020	0.17	0.17	8.7%	2.19	2.16	2.8%
GC20-0469-009	11/6/2020	0.21	0.21	0.0%	2.18	2.05	0.5%
GC20-0470-002	11/6/2020	0.30	0.29	0.0%	2.10	2.09	1.3%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0471-017	11/6/2020	0.36	0.35	0.0%	1.87	1.86	0.8%
GC20-0472-017	11/6/2020	0.10	0.10	8.7%	2.37	2.36	1.5%
GC20-0472-019	11/6/2020	0.18	0.18	0.0%	2.42	2.49	3.2%
GC20-0474-006	11/6/2020	0.23	0.23	0.0%	2.23	2.20	2.8%
GC20-0475-019	11/6/2020	0.17	0.18	8.0%	1.85	1.99	5.1%
GC20-0500-002	11/6/2020	0.20	0.18	0.0%	3.85	0.85	2.9%
GC20-0501-005	11/6/2020	0.07	0.07	6.9%	1.40	1.37	1.8%
GC20-0504-003	11/6/2020	0.12	0.12	7.4%	2.04	2.03	1.1%
GC20-0505-005	11/6/2020	0.10	0.10	0.0%	1.94	1.94	3.6%
GC20-0506-006	11/6/2020	0.09	0.08	7.4%	0.38	0.38	4.3%
GC20-0509-013	11/6/2020	0.06	0.06	0.0%	1.62	1.69	0.7%
GC20-0511-006	11/6/2020	0.08	0.09	19.4%	1.74	1.76	0.7%
GC20-0512-013	11/6/2020	0.22	0.22	7.4%	1.72	1.69	3.0%
GC20-0514-005	11/6/2020	0.78	0.79	0.0%	0.06	0.06	1.1%
GC20-0515-009	11/6/2020	0.36	0.37	6.9%	2.58	2.62	1.0%
GC20-0517-005	11/6/2020	0.32	0.33	13.3%	1.24	1.26	3.5%
GC20-0518-009	11/6/2020	0.71	0.70	0.0%	0.20	0.20	3.3%
GC20-0519-005	11/6/2020	0.75	0.77	0.0%	0.07	0.06	0.0%
GC20-0524-012	11/6/2020	0.19	0.19	6.5%	1.39	1.47	4.4%
GC20-0525-010	11/6/2020	0.72	0.73	6.1%	1.33	1.33	2.0%
GC20-0526-002	11/6/2020	0.29	0.29	0.0%	1.79	1.78	2.6%
GC20-0527-003	11/6/2020	0.50	0.50	20.7%	1.54	1.49	20.2%
GC20-0528-006	11/6/2020	0.19	0.19	0.0%	2.18	2.22	0.7%
GC20-0532-004	11/6/2020	0.12	0.12	13.3%	2.43	2.41	1.3%
GC20-0533-005	11/6/2020	1.12	1.11	0.0%	0.59	0.58	3.2%
GC20-0534-011	11/6/2020	0.11	0.12	6.5%	2.63	2.59	1.2%
GC20-0537-010	11/6/2020	0.20	0.20	0.0%	2.14	2.22	0.0%
GC20-0539-007	11/6/2020	0.16	0.17	0.0%	1.96	1.91	5.7%
GC20-0541-006	11/6/2020	0.14	0.14	6.1%	1.13	1.09	0.0%
GC20-0541-007	11/6/2020	0.17	0.14	0.0%	1.51	1.52	2.1%
GC20-0542-012	11/6/2020	0.13	0.16	6.1%	1.20	1.47	1.7%
GC20-0543-007	11/6/2020	0.21	0.19	0.0%	1.39	1.40	3.5%
GC20-0544-005	11/6/2020	0.14	0.16	6.1%	1.56	1.54	2.6%
GC20-0546-013	11/6/2020	0.05	0.06	0.0%	2.19	2.16	1.4%
GC20-0549-005	11/6/2020	0.35	0.34	10.5%	1.44	1.38	127.7%
GC20-0551-005	11/6/2020	0.24	0.24	0.0%	2.07	2.02	0.6%
GC20-0553-005	11/6/2020	0.13	0.14	5.7%	1.14	1.19	7.3%
GC20-0554-011	11/6/2020	0.12	0.13	0.0%	1.93	2.03	2.9%
GC20-0556-005	11/6/2020	0.15	0.16	0.0%	0.93	0.89	0.0%
GC20-0557-009	11/6/2020	0.12	0.11	10.0%	1.53	1.46	0.7%
GC20-0557-012	11/6/2020	0.14	0.14	0.0%	1.36	1.35	5.6%
GC20-0558-002	11/6/2020	0.16	0.16	0.0%	2.44	2.44	1.0%
GC20-0559-002	11/6/2020	0.11	0.11	0.0%	0.84	0.85	1.8%
GC20-0563-005	11/6/2020	0.10	0.09	4.9%	2.55	2.54	4.7%
GC20-0565-006	11/6/2020	0.06	0.06	5.1%	0.62	0.61	1.6%
GC20-0566-013	11/6/2020	0.07	0.06	0.0%	1.39	1.44	3.7%
GC20-0567-007	11/6/2020	0.08	0.08	9.5%	1.09	1.20	0.8%
GC20-0567-012	11/6/2020	0.16	0.16	4.9%	0.71	0.71	8.7%
GC20-0568-012	11/6/2020	0.07	0.07	4.7%	0.62	0.62	0.0%
GC20-0569-010	11/6/2020	0.15	0.14	0.0%	0.56	0.55	6.1%
GC20-0570-011	11/6/2020	0.11	0.11	0.0%	0.73	0.69	0.0%
GC20-0572-009	11/6/2020	0.13	0.13	0.0%	1.41	1.45	1.8%
GC20-0574-004	11/6/2020	0.11	0.12	0.0%	1.78	1.83	2.2%
GC20-0575-007	11/6/2020	0.05	0.05	0.0%	1.10	1.12	1.6%
GC20-0576-007	11/6/2020	0.17	0.16	0.0%	1.01	0.99	1.4%
GC20-0579-005	11/6/2020	0.16	0.17	0.0%	0.58	0.59	3.5%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0581-005	11/6/2020	0.16	0.16	0.0%	1.52	1.53	2.4%
GC20-0582-006	11/6/2020	0.13	0.14	0.0%	0.92	0.91	0.5%
GC20-0583-006	11/6/2020	0.22	0.21	4.1%	0.71	0.71	0.6%
GC20-0585-007	11/6/2020	0.13	0.12	0.0%	0.86	0.86	0.0%
GC20-0586-003	11/6/2020	0.04	0.04	0.0%	0.73	0.73	0.4%
GC20-0588-006	11/6/2020	0.10	0.10	0.0%	0.60	0.60	3.1%
GC20-0589-005	11/6/2020	0.10	0.10	0.0%	1.31	1.27	0.7%
GC20-0590-009	11/6/2020	0.13	0.13	0.0%	0.32	0.31	0.6%
GC20-0591-006	11/6/2020	0.06	0.06	3.4%	1.54	1.52	0.5%
GC20-0592-012	11/6/2020	0.35	0.36	3.4%	1.19	1.23	0.4%
GC20-0594-005	11/6/2020	0.16	0.16	3.1%	1.53	1.58	1.6%
GC20-0596-001	11/6/2020	0.33	0.33	5.9%	4.52	4.56	1.6%
GC20-0597-005	11/6/2020	0.10	0.10	0.0%	1.33	1.42	4.6%
GC20-0598-005	11/6/2020	0.20	0.21	0.0%	0.24	0.22	0.9%
GC20-0599-009	11/6/2020	0.05	0.05	2.9%	1.88	2.00	4.3%
GC20-0602-008	11/6/2020	0.16	0.17	3.0%	0.34	0.34	1.7%
GC20-0603-008	11/6/2020	0.22	0.22	2.8%	0.81	0.81	0.5%
GC20-0604-005	11/6/2020	0.38	0.39	2.8%	0.47	0.47	3.3%
GC20-0605-011	11/6/2020	0.17	0.17	2.8%	0.48	0.47	0.6%
GC20-0607-002	11/6/2020	0.10	0.10	2.7%	1.18	1.14	1.5%
GC20-0608-005	11/6/2020	0.17	0.17	0.0%	0.18	0.17	1.7%
GC20-0609-005	11/6/2020	0.13	0.14	2.6%	1.64	1.69	0.0%
GC20-0610-005	11/6/2020	0.19	0.19	0.0%	0.48	0.48	0.0%
GC20-0611-009	11/6/2020	0.10	0.10	4.3%	1.54	1.47	0.8%
GC20-0612-005	11/6/2020	0.12	0.12	0.0%	2.23	2.26	3.3%
GC20-0613-005	11/6/2020	0.07	0.07	1.6%	1.80	1.81	2.4%
GC20-0614-008	11/6/2020	0.07	0.07	1.4%	1.43	1.46	0.0%
GC20-0615-005	11/6/2020	0.12	0.11	1.4%	2.74	2.84	0.0%
GC20-0616-009	11/6/2020	0.05	0.05	2.6%	0.88	0.89	15.4%
GC20-0617-012	11/6/2020	0.14	0.14	1.3%	1.86	1.88	0.0%
GC20-0619-003	11/6/2020	0.18	0.18	0.9%	1.63	1.64	1.7%
GC20-0620-005	11/6/2020	0.21	0.20	0.0%	1.10	1.05	2.5%
GC20-0621-009	11/6/2020	0.09	0.09	3.9%	2.21	2.16	0.0%
GC20-0622-012	11/6/2020	0.16	0.16	0.0%	1.15	1.18	1.3%
GC20-0624-002	11/6/2020	0.35	0.36	0.0%	3.38	3.36	0.0%
GC20-0625-005	11/6/2020	0.27	0.27	0.0%	1.30	1.26	0.7%
1321001047	11/7/2020	0.21	0.21	2.3%	1.18	1.25	6.4%
1321001062	11/7/2020	0.24	0.25	0.0%	3.49	3.52	5.8%
1321001094	11/7/2020	0.21	0.21	0.0%	3.04	3.07	1.0%
1321001112	11/7/2020	0.31	0.31	4.3%	2.02	2.12	3.5%
1321001114	11/7/2020	0.26	0.25	3.9%	3.31	3.22	2.8%
1321001117	11/7/2020	0.31	0.30	4.1%	3.39	3.48	0.9%
1321001159	11/7/2020	0.24	0.23	3.3%	2.23	2.31	2.6%
1432006029	11/7/2020	1.72	1.76	0.0%	1.21	1.29	4.8%
1322015241	11/9/2020	0.24	0.25	0.0%	1.46	1.42	7.1%
1322015304	11/9/2020	0.03	0.03	0.0%	0.98	0.96	2.1%
1331004107	11/9/2020	1.41	1.42	4.1%	0.31	0.31	2.8%
1331004113	11/9/2020	1.12	1.12	0.0%	0.22	0.23	4.1%
1331004159	11/9/2020	1.02	1.02	0.0%	0.45	0.47	2.0%
1331004223	11/9/2020	0.83	0.83	0.0%	0.24	0.25	4.3%
1331004231	11/9/2020	1.33	1.30	0.0%	0.28	0.28	4.4%
1331004302	11/9/2020	0.83	0.83	2.3%	0.50	0.51	0.0%
1331004340	11/9/2020	0.90	0.90	0.7%	1.45	1.35	0.0%
1229075005	11/10/2020	0.36	0.37	0.0%	1.15	1.11	0.0%
1229075020	11/10/2020	0.30	0.30	0.0%	0.34	0.34	66.7%
1229075038	11/10/2020	0.55	0.55	14.0%	0.62	0.67	11.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1229075054	11/10/2020	0.36	0.36	0.0%	0.02	0.01	4.9%
1331004009	11/10/2020	0.91	0.90	2.5%	0.32	0.34	6.8%
1331004043	11/10/2020	1.13	1.11	1.1%	0.43	0.33	6.1%
1331004049	11/10/2020	1.21	1.21	1.8%	0.21	0.20	26.3%
1331004057	11/10/2020	0.81	0.79	0.0%	0.71	0.76	4.9%
1331004355	11/10/2020	2.00	2.05	0.0%	0.99	1.03	3.8%
1331004361	11/10/2020	0.69	0.60	2.5%	0.19	0.17	4.0%
1331004404	11/10/2020	0.68	0.68	2.7%	0.42	0.40	3.5%
1331004413	11/10/2020	1.85	1.85	0.0%	0.52	0.54	7.8%
1331004307	11/11/2020	0.74	0.71	0.0%	1.25	1.17	0.0%
1331004337	11/11/2020	0.55	0.55	4.1%	0.69	0.69	6.6%
1321005019	11/12/2020	0.33	0.33	7.4%	2.07	1.98	2.8%
1321005036	11/12/2020	0.11	0.10	6.1%	1.65	1.60	4.5%
1321005098	11/12/2020	0.21	0.22	5.4%	2.16	2.11	4.1%
1321005103	11/12/2020	0.25	0.25	9.5%	1.30	1.25	3.1%
1322016001	11/12/2020	0.19	0.18	4.7%	1.44	1.50	2.3%
1322016149	11/12/2020	0.17	0.16	0.0%	1.13	1.08	3.9%
1322016188	11/12/2020	0.14	0.13	0.0%	1.07	1.10	4.4%
1321005064	11/13/2020	0.17	0.16	6.1%	1.27	1.25	1.8%
1321005191	11/13/2020	0.06	0.05	18.2%	2.62	2.66	1.5%
1321005205	11/13/2020	0.16	0.17	6.1%	2.81	2.86	1.6%
1321005237	11/13/2020	0.26	0.25	3.9%	1.95	1.87	4.2%
1229074016	11/15/2020	0.28	0.27	22.2%	1.47	1.49	2.8%
1229074061	11/15/2020	0.50	0.49	1.2%	0.07	0.08	0.5%
1229074068	11/15/2020	0.41	0.41	0.7%	0.75	0.74	0.6%
1229074084	11/15/2020	0.05	0.04	0.7%	1.74	1.79	2.2%
1229074091	11/15/2020	0.67	0.65	0.0%	1.53	1.43	2.3%
1229074109	11/15/2020	0.55	0.55	13.8%	1.75	1.78	14.4%
1229074279	11/15/2020	0.32	0.33	0.0%	1.59	1.59	1.5%
1229074280	11/15/2020	0.43	0.44	0.6%	1.65	1.58	3.9%
1229074305	11/15/2020	0.74	0.76	2.6%	0.95	0.94	0.0%
1229074322	11/15/2020	0.83	0.82	2.6%	0.88	0.91	0.6%
1229074367	11/15/2020	0.38	0.37	24.5%	1.11	1.03	30.0%
1229074371	11/15/2020	0.24	0.24	0.8%	0.84	0.83	0.7%
1229074608	11/15/2020	1.15	1.02	3.0%	0.72	0.64	13.3%
1331003007	11/15/2020	2.44	2.40	0.0%	0.92	0.90	0.0%
1331003456	11/15/2020	1.20	1.20	0.0%	0.84	0.81	40.0%
1331013230	11/15/2020	0.78	0.79	2.0%	0.18	0.18	13.3%
1331013252	11/15/2020	0.58	0.60	3.4%	0.36	0.40	10.5%
1331013346	11/15/2020	0.71	0.71	1.6%	0.61	0.62	2.5%
1331013380	11/15/2020	0.49	0.47	1.3%	1.38	1.33	0.0%
1331013387	11/15/2020	0.34	0.33	0.0%	0.08	0.07	3.6%
1331013410	11/15/2020	0.62	0.63	1.7%	0.41	0.40	2.2%
1331013424	11/15/2020	0.38	0.38	0.0%	0.03	0.02	1.2%
1331013435	11/15/2020	0.37	0.37	3.6%	0.38	0.38	1.4%
1432098009	11/15/2020	1.15	1.32	3.1%	7.02	8.11	0.0%
1432098013	11/15/2020	2.01	2.57	2.7%	4.16	5.63	7.5%
1432098038	11/15/2020	2.65	2.63	0.0%	4.46	4.43	1.3%
1432098049	11/15/2020	2.05	2.05	2.3%	4.79	4.68	4.3%
1432098071	11/15/2020	1.91	1.96	4.2%	5.32	5.29	3.7%
1432098077	11/15/2020	1.95	1.90	0.0%	3.01	3.01	1.7%
1432098097	11/15/2020	1.42	1.42	3.0%	4.08	4.02	6.8%
1432098107	11/15/2020	1.65	1.64	0.0%	3.65	3.51	1.6%
1432098120	11/15/2020	0.87	0.86	2.7%	6.01	5.98	1.1%
1432098125	11/15/2020	1.39	1.40	1.2%	1.72	1.71	3.4%
1432098144	11/15/2020	1.42	1.41	12.0%	1.85	1.81	11.8%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1321005254	11/16/2020	0.11	0.12	0.0%	2.51	2.59	0.0%
1321005258	11/16/2020	0.17	0.17	3.5%	1.67	1.67	5.6%
1321005289	11/16/2020	0.18	0.18	1.6%	1.66	1.75	3.8%
1331013280	11/16/2020	0.56	0.58	1.5%	0.37	0.35	11.8%
1331013304	11/16/2020	0.68	0.68	0.0%	0.30	0.30	0.0%
1331013329	11/16/2020	0.46	0.46	8.7%	0.19	0.22	3.1%
1331013337	11/16/2020	0.64	0.65	0.0%	0.52	0.54	0.0%
1331013505	11/16/2020	0.48	0.50	0.0%	1.22	1.23	5.3%
1331013522	11/16/2020	0.52	0.54	0.0%	1.64	1.57	2.8%
1331013596	11/16/2020	0.46	0.46	0.0%	0.13	0.13	14.6%
1331013639	11/16/2020	0.40	0.40	4.1%	0.35	0.36	0.8%
1331013659	11/16/2020	0.65	0.66	3.8%	0.09	0.08	4.4%
1331003117	11/17/2020	1.49	1.53	8.9%	0.32	0.33	7.7%
1331003222	11/17/2020	1.44	1.54	0.0%	0.10	0.10	0.0%
1331003223	11/17/2020	1.12	1.12	1.9%	0.09	0.09	7.1%
1331003439	11/17/2020	1.24	1.26	4.6%	0.32	0.32	2.5%
1331003447	11/17/2020	1.30	1.28	0.0%	0.68	0.66	0.0%
1331003463	11/17/2020	1.11	1.06	1.6%	0.40	0.39	0.0%
1331003476	11/17/2020	1.05	1.03	1.6%	0.29	0.27	3.0%
1331013260	11/17/2020	0.53	0.51	2.6%	0.62	0.59	3.1%
1331013269	11/17/2020	0.47	0.43	6.7%	0.54	0.50	0.0%
1331013305	11/17/2020	0.79	0.79	4.3%	0.13	0.13	4.6%
1331013539	11/17/2020	0.45	0.47	3.8%	1.28	1.34	5.0%
1331013583	11/17/2020	0.53	0.57	7.3%	5.10	4.41	14.5%
1229074257	11/18/2020	0.24	0.24	2.2%	1.07	1.05	31.0%
1321002082	11/18/2020	0.20	0.20	0.0%	2.31	2.39	0.0%
1321002173	11/18/2020	0.31	0.31	0.0%	2.10	2.10	3.9%
1321002186	11/18/2020	0.34	0.33	0.9%	1.46	1.45	1.7%
1321002191	11/18/2020	0.33	0.32	0.8%	2.03	2.00	5.0%
1321002259	11/18/2020	0.21	0.21	4.9%	2.14	2.26	4.1%
1321002263	11/18/2020	0.23	0.24	0.6%	2.45	2.44	1.6%
1331003154	11/18/2020	1.39	1.46	0.0%	0.25	0.24	1.0%
1331003249	11/18/2020	2.61	2.58	1.2%	0.27	0.28	3.6%
1331003365	11/18/2020	1.56	1.55	0.0%	0.62	0.63	3.4%
1331003388	11/18/2020	1.92	1.92	0.0%	0.98	0.97	5.5%
1331003422	11/18/2020	0.72	0.72	0.0%	0.26	0.25	1.9%
1331003427	11/18/2020	1.29	1.28	4.3%	1.43	1.36	0.4%
1331003495	11/18/2020	1.17	1.18	0.0%	0.58	0.57	0.0%
1331013218	11/18/2020	0.45	0.46	3.1%	0.41	0.30	1.5%
1331013236	11/18/2020	0.55	0.55	3.0%	0.39	0.39	0.7%
1321002005	11/20/2020	0.14	0.15	0.7%	1.62	1.65	3.9%
1321002020	11/20/2020	0.06	0.06	1.2%	1.21	1.18	4.4%
1321002099	11/20/2020	0.46	0.46	0.5%	0.78	0.80	6.3%
1321002116	11/20/2020	0.13	0.13	2.4%	1.98	2.01	0.0%
1321002240	11/20/2020	0.35	0.35	0.4%	1.40	1.37	0.0%
1321002332	11/20/2020	0.54	0.54	0.0%	1.60	1.64	2.5%
1321002347	11/20/2020	0.25	0.25	0.0%	2.29	2.33	1.5%
1321002368	11/20/2020	0.26	0.26	6.9%	1.77	1.74	1.8%
1331003041	11/20/2020	2.48	2.47	0.0%	0.14	0.14	1.7%
1331003047	11/20/2020	2.05	2.10	0.0%	1.21	1.21	1.7%
1331003104	11/20/2020	1.72	1.70	0.0%	0.22	0.23	2.2%
1331003161	11/20/2020	1.46	1.47	0.0%	0.25	0.26	2.5%
1331003274	11/20/2020	2.07	2.06	0.0%	0.46	0.49	2.5%
1331003028	11/21/2020	1.58	1.59	15.4%	0.21	0.20	2.8%
1331003243	11/21/2020	2.03	2.02	0.0%	0.21	0.21	0.0%
1331003331	11/21/2020	1.88	1.87	9.5%	0.26	0.24	4.5%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
GC20-0626-005	11/21/2020	0.26	0.26	0.0%	2.26	2.30	0.5%
GC20-0627-005	11/21/2020	0.22	0.23	0.0%	2.57	2.53	2.0%
GC20-0628-005	11/21/2020	0.15	0.13	14.3%	1.51	1.62	7.0%
GC20-0629-005	11/21/2020	0.17	0.16	6.1%	0.88	0.85	3.5%
GC20-0630-005	11/21/2020	0.10	0.10	4.4%	1.94	1.93	1.6%
GC20-0631-009	11/21/2020	0.06	0.07	0.0%	1.06	1.09	1.8%
GC20-0632-012	11/21/2020	0.11	0.10	0.6%	1.14	1.09	4.9%
GC20-0634-003	11/21/2020	0.08	0.08	0.5%	1.12	1.12	8.0%
GC20-0635-007	11/21/2020	0.13	0.13	0.5%	1.01	0.99	0.0%
1321003082	11/22/2020	0.35	0.36	35.3%	0.47	0.44	0.9%
1325001001	11/22/2020	0.86	0.87	1.8%	0.37	0.36	1.4%
1325001017	11/22/2020	0.49	0.51	4.0%	0.16	0.17	6.1%
1325001038	11/22/2020	0.10	0.07	3.8%	2.36	2.34	5.3%
1325001059	11/22/2020	0.53	0.54	1.9%	0.69	0.68	1.5%
1325001070	11/22/2020	0.89	0.88	0.0%	0.34	0.34	3.2%
1325001085	11/22/2020	0.33	0.95	1.4%	0.27	0.82	6.1%
1325001095	11/22/2020	0.55	0.54	1.2%	2.15	2.18	2.7%
1325001119	11/22/2020	0.72	0.72	1.1%	0.31	0.32	0.0%
1325001147	11/22/2020	0.54	0.52	96.9%	0.37	0.39	100.9%
1325001152	11/22/2020	0.74	0.73	2.8%	0.79	0.84	6.6%
1325001167	11/22/2020	0.58	0.58	0.0%	1.08	1.04	3.8%
1321003049	11/23/2020	0.66	0.66	0.0%	1.06	1.02	6.9%
1321004006	11/23/2020	0.25	0.25	15.4%	1.20	1.21	1.0%
1321004051	11/23/2020	0.18	0.19	13.3%	0.76	0.76	2.2%
1321004085	11/23/2020	0.33	0.31	0.0%	0.32	0.32	2.4%
1331003096	11/23/2020	2.58	2.61	0.0%	2.69	2.70	3.2%
1331003262	11/23/2020	1.37	1.37	0.0%	0.30	0.30	3.3%
GC20-0636-010	11/23/2020	0.16	0.16	0.0%	1.11	1.11	0.0%
GC20-0638-002	11/23/2020	0.14	0.14	0.0%	1.35	1.35	3.9%
GC20-0639-005	11/23/2020	0.19	0.19	8.7%	1.45	1.45	0.4%
GC20-0640-008	11/23/2020	0.10	0.10	0.0%	2.07	2.14	0.0%
GC20-0641-005	11/23/2020	0.14	0.14	0.0%	1.78	1.71	4.0%
GC20-0642-005	11/23/2020	0.10	0.10	0.0%	0.83	0.81	0.0%
GC20-0643-009	11/23/2020	0.07	0.06	0.0%	1.01	1.00	0.0%
GC20-0644-012	11/23/2020	0.11	0.12	0.0%	7.59	7.56	0.0%
GC20-0646-003	11/23/2020	0.12	0.12	4.7%	1.25	1.30	7.9%
GC20-0647-005	11/23/2020	0.21	0.22	0.0%	1.58	1.71	0.8%
GC20-0648-005	11/23/2020	0.04	0.04	0.0%	1.25	1.34	0.0%
GC20-0649-005	11/23/2020	0.18	0.18	1.2%	0.75	0.75	0.4%
GC20-0650-009	11/23/2020	0.10	0.10	5.4%	1.22	1.26	0.0%
GC20-0651-005	11/23/2020	0.08	0.07	6.3%	1.37	1.34	0.0%
GC20-0652-009	11/23/2020	0.11	0.11	0.0%	10.20	10.20	3.8%
1321007129	11/25/2020	0.34	0.34	0.0%	1.55	1.56	2.6%
1321007199	11/25/2020	0.11	0.11	0.0%	1.15	1.18	0.8%
1321007202	11/25/2020	0.12	0.12	0.0%	1.21	1.20	0.6%
1321007225	11/25/2020	0.39	0.39	0.0%	1.24	1.24	0.0%
1321007084	11/26/2020	0.31	0.31	0.7%	0.98	0.92	4.9%
1321007165	11/26/2020	0.37	0.37	0.7%	1.49	1.46	0.9%
1325001705	11/26/2020	1.34	1.35	28.6%	1.39	1.46	10.2%
1325001710	11/26/2020	1.36	1.37	1.3%	2.26	2.24	3.3%
1325001746	11/26/2020	0.76	0.75	40.0%	2.80	2.71	0.0%
1325001763	11/26/2020	0.60	0.45	9.5%	2.47	2.23	6.2%
1328070063	11/26/2020	0.87	0.82	0.0%	1.33	1.34	6.3%
1328070071	11/26/2020	0.22	0.20	0.0%	0.67	0.63	2.0%
1328070092	11/26/2020	0.06	0.04	5.9%	0.24	0.24	0.7%
1321007011	11/27/2020	0.14	0.16	0.0%	2.38	2.47	1.1%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1321007022	11/27/2020	0.10	0.12	0.0%	1.10	1.11	4.3%
1321007058	11/27/2020	0.01	0.01	66.7%	1.52	1.51	0.7%
1321007075	11/27/2020	0.15	0.15	0.0%	2.29	2.19	6.2%
1321007078	11/27/2020	0.06	0.06	18.2%	1.82	1.71	0.9%
1328070018	11/27/2020	0.45	0.43	0.0%	1.58	1.61	4.5%
1328070144	11/27/2020	0.74	0.64	13.3%	1.24	1.22	3.7%
1328070154	11/27/2020	0.49	0.49	3.0%	1.83	1.81	12.8%
1328070155	11/27/2020	0.55	0.55	0.0%	1.91	1.83	2.0%
1328070189	11/27/2020	0.44	0.45	4.5%	0.24	0.23	1.9%
1328070222	11/27/2020	1.09	1.08	2.2%	1.02	1.04	4.3%
1328070236	11/27/2020	0.58	0.57	0.0%	1.43	1.42	2.2%
1330050207	11/27/2020	0.47	0.47	1.9%	1.37	1.40	4.7%
1330050278	11/27/2020	0.53	0.54	1.7%	1.09	1.04	0.7%
1330050281	11/27/2020	0.36	0.36	14.5%	0.49	0.50	1.6%
1330050308	11/27/2020	0.33	0.34	0.9%	0.44	0.50	1.9%
1328070264	11/28/2020	0.50	0.52	2.1%	1.46	1.48	0.0%
1328070269	11/28/2020	0.75	0.76	3.9%	1.30	1.34	1.4%
1330050165	11/28/2020	0.48	0.49	1.3%	0.49	0.49	3.0%
1330050254	11/28/2020	0.83	0.83	0.0%	0.06	0.06	0.0%
1321007100	11/29/2020	0.15	0.14	2.1%	1.82	1.82	3.9%
1325001780	11/29/2020	0.98	0.96	4.3%	1.82	1.75	22.2%
1330050181	11/29/2020	1.26	1.28	1.0%	0.59	0.64	2.2%
1330050190	11/29/2020	0.46	0.48	1.6%	0.15	0.12	8.1%
1330050201	11/29/2020	1.03	1.04	6.9%	0.44	0.45	0.0%
1330050291	11/29/2020	0.56	0.55	2.4%	0.75	0.70	7.4%
1330050303	11/29/2020	0.73	0.69	1.8%	0.21	0.23	6.9%
1330050316	11/29/2020	0.42	0.41	5.6%	0.39	0.42	9.1%
1330050145	11/30/2020	1.04	1.07	1.9%	0.71	0.67	2.8%
1331011319	11/30/2020	0.32	0.32	4.1%	0.04	0.04	1.3%
1331011413	11/30/2020	0.40	0.39	1.7%	0.66	0.60	1.9%
1331011415	11/30/2020	0.56	0.58	0.0%	0.59	0.59	0.0%
1331011465	11/30/2020	0.57	0.55	2.8%	0.89	0.89	5.8%
1331011482	11/30/2020	0.49	0.48	2.5%	0.41	0.39	9.5%
1432096020	11/30/2020	1.58	1.61	2.1%	3.60	3.50	5.0%
1432096072	11/30/2020	1.76	1.69	3.6%	2.30	2.33	0.0%
1432096075	11/30/2020	1.76	1.79	3.5%	3.56	3.63	0.0%
1330050011	12/1/2020	0.75	0.75	2.9%	0.42	0.42	4.4%
1330050031	12/1/2020	0.70	0.68	1.6%	0.72	0.72	0.0%
1330050033	12/1/2020	0.87	0.85	0.0%	1.14	1.13	5.1%
1330050058	12/1/2020	0.74	0.72	0.0%	0.52	0.50	0.7%
1330050091	12/1/2020	0.64	0.64	2.9%	0.80	0.76	0.0%
1330050112	12/1/2020	1.36	1.36	2.8%	0.62	0.62	0.0%
1331006057	12/1/2020	0.85	0.84	2.7%	0.95	0.94	3.9%
1331011346	12/1/2020	0.34	0.35	0.0%	0.22	0.23	0.0%
1331011374	12/1/2020	0.82	0.82	2.5%	0.41	0.43	7.4%
1331011393	12/1/2020	0.73	0.71	0.0%	0.23	0.23	4.8%
1331011420	12/1/2020	0.78	0.80	1.2%	0.70	0.65	1.1%
1331011437	12/1/2020	0.67	0.67	2.3%	1.35	1.36	0.9%
1331011485	12/1/2020	0.62	0.63	0.0%	0.66	0.66	0.0%
1320001024	12/3/2020	0.28	0.27	5.4%	1.89	1.91	1.7%
1320001033	12/3/2020	0.22	0.22	0.0%	2.49	2.59	3.0%
1320001067	12/3/2020	0.26	0.27	2.6%	1.85	1.87	5.1%
1320001088	12/3/2020	0.29	0.30	2.1%	2.13	2.11	8.8%
1320001122	12/3/2020	0.19	0.18	0.0%	1.79	1.82	3.8%
1320001151	12/3/2020	0.35	0.35	0.0%	1.62	1.67	0.0%
1324029053	12/3/2020	0.93	0.94	3.0%	1.68	1.69	1.8%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1324029076	12/3/2020	1.90	1.81	1.9%	1.10	1.06	8.7%
1330050005	12/3/2020	1.05	1.07	1.6%	0.60	0.55	1.4%
1330050045	12/3/2020	0.75	0.75	0.5%	1.70	1.70	4.4%
1330050106	12/3/2020	0.71	0.71	0.0%	0.80	0.77	1.3%
1331006022	12/3/2020	0.98	1.01	0.0%	0.54	0.55	3.9%
1331006047	12/3/2020	2.18	2.18	3.8%	0.79	0.78	1.1%
1331006070	12/3/2020	2.12	2.13	3.6%	0.22	0.23	1.1%
1331006270	12/3/2020	0.38	0.39	3.4%	0.19	0.20	0.9%
1331006272	12/3/2020	1.87	1.84	5.4%	1.48	1.46	2.6%
1331007026	12/3/2020	0.87	0.86	0.0%	1.68	1.75	2.7%
1331007114	12/3/2020	0.91	0.91	1.6%	1.53	1.48	3.6%
1331011050	12/3/2020	0.53	0.53	1.2%	1.09	1.12	4.1%
1331011061	12/3/2020	0.64	0.65	0.0%	0.56	0.54	3.3%
1331011111	12/3/2020	0.36	0.38	1.1%	0.39	0.38	0.6%
1331011151	12/3/2020	0.49	0.48	4.9%	0.59	0.54	3.7%
1331006102	12/4/2020	1.41	1.46	2.6%	2.25	2.41	3.0%
1331006111	12/4/2020	1.97	1.97	1.4%	1.35	1.35	0.0%
1331006138	12/4/2020	1.38	1.40	2.0%	0.84	0.84	0.7%
1331006175	12/4/2020	1.92	1.92	1.1%	1.44	1.50	0.4%
1331006184	12/4/2020	1.80	1.83	1.7%	0.98	0.97	1.0%
1331006192	12/4/2020	0.49	0.51	2.1%	1.47	1.41	2.7%
1331006215	12/4/2020	1.50	1.47	0.0%	1.38	1.37	4.1%
1331006249	12/4/2020	2.10	2.11	0.0%	1.66	1.63	0.0%
1331006284	12/4/2020	1.91	1.87	0.5%	0.74	0.76	1.8%
1331006297	12/4/2020	2.19	2.16	1.4%	0.49	0.50	2.0%
1331006306	12/4/2020	1.85	1.83	0.4%	2.66	2.68	7.8%
1331006311	12/4/2020	2.70	2.65	1.9%	0.85	0.86	1.2%
1331006316	12/4/2020	2.32	2.31	0.0%	0.37	0.40	2.9%
1331006346	12/4/2020	1.80	1.82	4.0%	2.51	2.52	4.2%
1331011033	12/4/2020	0.37	0.37	1.8%	1.37	1.41	0.0%
1331011069	12/4/2020	0.57	0.56	3.5%	0.33	0.33	6.9%
1331011115	12/4/2020	0.38	0.39	1.1%	0.34	0.33	0.7%
1320001053	12/5/2020	0.22	0.21	5.4%	3.18	3.16	2.6%
1320001076	12/5/2020	0.14	0.15	0.0%	3.10	3.04	11.7%
1320001107	12/5/2020	0.13	0.12	0.0%	3.52	3.63	1.8%
1320002120	12/5/2020	0.34	0.32	1.2%	2.00	1.98	2.5%
1320003125	12/5/2020	0.25	0.25	0.0%	1.21	1.36	1.2%
1320003141	12/5/2020	0.17	0.19	3.5%	2.88	2.99	0.0%
1320003148	12/5/2020	0.95	0.95	8.0%	2.28	2.24	3.1%
1320003161	12/5/2020	0.18	0.19	6.9%	1.52	1.56	2.0%
1324029005	12/5/2020	1.19	1.21	5.7%	2.27	2.29	2.6%
1331006155	12/5/2020	1.77	1.72	11.1%	3.39	3.43	3.7%
1331007060	12/5/2020	0.85	0.81	4.7%	0.92	0.94	0.6%
1331007601	12/5/2020	1.17	1.13	6.1%	0.53	0.53	1.0%
1331007658	12/5/2020	1.00	1.00	4.8%	0.85	0.84	2.2%
1331007661	12/5/2020	0.86	0.87	1.7%	0.41	0.40	0.9%
1331007666	12/5/2020	0.18	0.17	2.9%	2.30	2.36	1.2%
1331014022	12/6/2020	0.48	0.47	0.0%	1.25	1.28	0.0%
1331014032	12/6/2020	0.57	0.57	0.0%	0.31	0.32	3.2%
1331014044	12/6/2020	0.31	0.31	7.2%	0.71	0.71	4.9%
1331014069	12/6/2020	0.40	0.40	0.0%	0.33	0.33	0.0%
1331014135	12/6/2020	0.63	0.64	2.1%	0.45	0.48	2.4%
1331014144	12/6/2020	0.72	0.67	1.7%	0.60	0.63	2.4%
1331014160	12/6/2020	0.58	0.59	1.6%	0.81	0.83	6.5%
1330051011	12/7/2020	1.02	1.05	0.0%	0.53	0.53	3.2%
1330051015	12/7/2020	1.67	1.63	0.0%	0.92	0.91	0.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330051016	12/7/2020	0.60	0.60	0.0%	2.18	2.25	0.0%
1330051047	12/7/2020	1.40	1.39	2.9%	0.69	0.69	0.0%
1330051098	12/7/2020	1.26	1.33	2.5%	0.29	0.29	0.0%
1330051132	12/7/2020	1.03	1.03	5.4%	0.21	0.21	0.0%
1330051163	12/7/2020	2.46	2.41	0.7%	0.56	0.55	0.0%
1330051176	12/7/2020	1.04	1.03	2.4%	1.25	1.20	1.1%
1330051210	12/7/2020	1.81	1.81	0.0%	0.77	0.76	1.3%
1330051215	12/7/2020	0.63	0.63	2.1%	0.57	0.57	1.8%
1331007078	12/7/2020	1.10	1.12	1.0%	6.88	6.86	4.1%
1331007094	12/7/2020	2.29	2.29	1.8%	4.24	4.27	0.3%
1331007097	12/7/2020	1.88	1.93	2.6%	4.14	4.10	1.0%
1331007138	12/7/2020	2.11	2.11	0.0%	7.49	7.47	0.3%
1331007609	12/7/2020	1.19	1.22	0.0%	0.79	0.79	0.7%
1330051065	12/8/2020	1.30	1.23	3.2%	0.64	0.64	2.9%
1330051077	12/8/2020	0.96	0.95	1.0%	0.83	0.83	0.0%
1330051108	12/8/2020	0.92	0.95	5.5%	0.35	0.34	0.0%
1331014054	12/8/2020	0.53	0.53	0.0%	1.00	0.99	0.0%
1331014085	12/8/2020	0.48	0.48	0.0%	0.74	0.74	0.0%
1331014091	12/8/2020	0.64	0.60	0.0%	0.50	0.51	1.0%
1331014120	12/8/2020	0.32	0.32	6.5%	0.44	0.44	2.0%
1320002040	12/9/2020	0.19	0.19	0.0%	2.74	2.61	5.2%
1320002042	12/9/2020	0.09	0.09	1.6%	1.63	1.70	3.4%
1320002047	12/9/2020	0.16	0.16	0.0%	1.13	1.20	4.2%
1320002103	12/9/2020	0.20	0.20	0.0%	0.88	0.88	6.0%
1320003203	12/9/2020	1.29	1.27	0.0%	0.29	0.30	4.9%
1320003249	12/9/2020	0.23	0.23	0.0%	0.79	0.75	0.0%
1320003024	12/10/2020	0.13	0.13	0.0%	1.36	1.33	2.2%
1320003027	12/10/2020	0.21	0.21	0.0%	0.70	0.72	2.8%
1320003029	12/10/2020	0.29	0.29	0.0%	0.81	0.79	2.1%
1320003032	12/10/2020	0.20	0.20	0.0%	0.94	0.96	2.5%
1330051101	12/10/2020	1.71	1.81	1.8%	2.50	2.60	0.8%
1331015043	12/10/2020	1.64	1.58	5.7%	3.83	3.71	3.9%
1331015092	12/10/2020	1.86	1.88	3.7%	2.40	2.43	3.2%
1331015126	12/10/2020	1.64	1.67	1.1%	1.22	1.23	1.2%
1320004383	12/12/2020	0.25	0.26	4.7%	1.88	1.96	7.1%
1320004446	12/12/2020	0.21	0.22	3.9%	2.45	2.63	4.2%
1320004447	12/12/2020	0.53	0.53	0.0%	0.90	0.96	1.4%
1330052091	12/12/2020	0.37	0.37	2.0%	0.73	0.72	1.0%
1330052112	12/12/2020	0.49	0.50	1.9%	1.02	1.01	4.4%
1330052118	12/12/2020	0.52	0.53	0.0%	0.67	0.70	6.5%
1331015088	12/12/2020	1.24	1.29	4.0%	4.75	5.06	6.3%
1331015104	12/12/2020	1.63	1.63	0.0%	1.92	1.96	2.1%
1331015142	12/12/2020	1.91	1.95	2.1%	7.02	7.24	3.1%
1330052005	12/13/2020	0.86	0.87	1.2%	0.30	0.31	3.3%
1330052041	12/13/2020	0.58	0.60	3.4%	0.61	0.62	1.6%
1328073008	12/14/2020	0.19	0.18	5.3%	7.14	7.31	2.1%
1328073036	12/14/2020	0.97	0.92	5.4%	1.93	1.89	2.4%
1320003223	12/15/2020	0.40	0.40	0.0%	1.19	1.16	2.6%
1324030223	12/15/2020	0.91	0.91	0.8%	0.73	0.74	2.7%
1324030226	12/15/2020	0.69	0.70	1.9%	0.81	0.81	0.0%
1324030241	12/15/2020	1.19	1.20	1.4%	1.85	1.80	0.0%
1324030276	12/15/2020	0.52	0.51	0.0%	0.70	0.70	1.4%
1330052018	12/17/2020	0.68	0.67	28.6%	0.41	0.42	5.4%
1330052025	12/17/2020	0.28	0.27	12.5%	0.87	0.90	3.6%
1330052026	12/17/2020	0.94	0.98	3.6%	1.19	1.26	3.4%
1330052030	12/17/2020	0.51	0.52	0.0%	0.49	0.51	1.1%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330052084	12/17/2020	0.49	0.50	0.0%	0.68	0.68	2.2%
1330052131	12/17/2020	0.17	0.15	2.0%	1.13	1.09	0.0%
1330052137	12/17/2020	0.37	0.37	1.9%	3.66	3.70	4.0%
1330052209	12/17/2020	0.06	0.08	1.9%	1.53	1.45	2.7%
1330052219	12/17/2020	0.46	0.46	1.5%	0.46	0.47	2.4%
1330052226	12/17/2020	0.52	0.53	4.2%	0.38	0.37	5.7%
1324030004	12/18/2020	0.80	0.80	2.2%	0.58	0.59	0.0%
1324030025	12/18/2020	1.31	1.31	0.0%	1.73	1.71	2.3%
1324030031	12/18/2020	1.34	1.35	3.4%	2.74	2.80	0.6%
1324030067	12/18/2020	0.57	0.59	1.7%	0.92	0.92	1.8%
1324030084	12/18/2020	0.91	0.91	1.7%	0.89	0.89	0.6%
1324030103	12/18/2020	1.67	1.65	1.3%	1.18	1.14	0.4%
1324030132	12/18/2020	0.83	0.83	3.5%	1.77	1.78	1.8%
1324030134	12/18/2020	0.63	0.64	1.7%	1.35	1.37	2.1%
1324030150	12/18/2020	0.43	0.43	0.9%	0.37	0.37	1.8%
1324030157	12/18/2020	0.85	0.86	0.0%	0.97	0.98	0.5%
1324030163	12/18/2020	0.84	0.84	0.0%	1.72	1.68	1.2%
1324030172	12/18/2020	1.17	1.18	0.7%	1.68	1.71	2.2%
1324030215	12/18/2020	0.31	0.31	1.2%	0.79	0.80	3.4%
1324030255	12/18/2020	1.30	1.30	0.0%	2.03	2.04	1.3%
1324031005	12/18/2020	1.17	1.19	0.0%	1.85	1.89	0.0%
1324031028	12/18/2020	0.61	0.60	3.4%	1.81	1.80	0.0%
1324031041	12/18/2020	0.85	0.88	1.6%	2.25	2.29	1.5%
1324031084	12/18/2020	0.54	0.54	0.0%	2.20	2.15	1.7%
1324031091	12/18/2020	0.60	0.58	0.0%	1.55	1.56	0.6%
1324031130	12/18/2020	0.60	0.59	0.0%	2.23	2.19	2.4%
1324031162	12/18/2020	0.79	0.80	1.2%	2.54	2.55	1.0%
1324031213	12/18/2020	0.47	0.46	0.0%	1.78	1.78	0.0%
1320004134	12/19/2020	0.56	0.56	5.4%	1.66	1.57	0.5%
1320004136	12/19/2020	0.08	0.08	0.0%	4.26	4.36	1.1%
1320004234	12/19/2020	0.18	0.19	0.0%	2.15	2.16	2.3%
1320004270	12/19/2020	0.21	0.21	0.0%	1.75	1.77	5.6%
1320004281	12/19/2020	0.45	0.41	0.9%	1.80	1.30	0.0%
1320004296	12/19/2020	0.33	0.33	6.5%	1.49	1.46	5.8%
1320004378	12/19/2020	0.29	0.28	2.3%	1.47	1.43	0.0%
1320004380	12/19/2020	0.31	0.32	0.0%	2.25	2.26	0.0%
1320004409	12/19/2020	0.24	0.25	0.7%	2.49	2.48	5.0%
1320004438	12/19/2020	0.37	0.37	2.9%	1.10	1.14	1.8%
1330053012	12/19/2020	2.23	2.20	1.3%	0.36	0.36	0.9%
1330053018	12/19/2020	1.94	1.95	1.2%	1.08	1.08	0.0%
1330053056	12/19/2020	1.80	1.79	0.6%	0.22	0.22	0.0%
1330053064	12/19/2020	2.36	2.31	0.0%	1.09	1.09	0.0%
1330053080	12/19/2020	2.13	2.15	1.1%	0.35	0.35	6.1%
1330053114	12/19/2020	1.80	1.80	1.6%	0.35	0.35	4.3%
1330053122	12/19/2020	1.36	1.40	0.5%	1.08	1.10	0.0%
1330053127	12/19/2020	1.90	1.88	1.4%	0.32	0.34	1.4%
1330053136	12/19/2020	2.32	2.40	0.5%	0.55	0.54	3.3%
1330053157	12/19/2020	1.53	1.51	0.9%	1.18	1.17	0.0%
1330053176	12/19/2020	1.27	1.30	1.4%	0.24	0.24	0.0%
1330053227	12/19/2020	2.76	2.73	2.1%	0.71	0.69	0.0%
1330053249	12/19/2020	2.12	2.09	3.4%	0.71	0.72	1.8%
1330053263	12/19/2020	2.08	2.09	1.1%	1.47	1.52	2.9%
1330053304	12/19/2020	1.39	1.38	4.1%	1.96	2.06	0.4%
1330053329	12/19/2020	1.09	1.08	3.5%	0.38	0.38	2.8%
1330053335	12/19/2020	1.33	1.33	3.2%	0.25	0.25	0.4%
1330053336	12/19/2020	1.20	1.28	0.0%	0.53	0.50	2.0%

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1330053347	12/19/2020	1.93	1.90	0.0%	1.43	1.37	3.6%
1330053367	12/19/2020	1.62	1.60	9.3%	0.63	0.63	32.3%
1324090360	12/22/2020	0.10	0.10	0.0%	0.46	0.44	4.4%
1320006048	12/23/2020	0.43	0.43	1.5%	0.99	0.98	4.1%
1331008005	12/23/2020	1.17	1.18	0.0%	1.53	1.45	2.2%
1331008023	12/23/2020	1.41	1.44	1.6%	0.67	0.69	1.9%
1331008045	12/23/2020	1.08	1.09	2.1%	1.78	1.78	2.9%
1331008070	12/23/2020	1.68	1.64	2.4%	1.01	0.98	3.0%
1331008072	12/23/2020	1.84	1.91	3.7%	1.08	1.14	5.4%
1331008078	12/23/2020	0.41	0.41	0.5%	0.57	0.59	2.4%
1331008295	12/23/2020	1.97	2.05	4.0%	1.26	1.32	4.7%
1331008296	12/23/2020	1.80	1.83	0.0%	3.73	3.77	3.4%
1331008300	12/23/2020	1.93	1.94	0.0%	0.86	0.84	1.0%
1331008368	12/23/2020	1.56	1.64	6.2%	2.09	2.25	17.4%
1331008425	12/23/2020	0.75	0.75	0.9%	0.45	0.46	0.0%
1331008454	12/23/2020	1.28	1.26	0.9%	1.05	1.03	5.4%
1331008472	12/23/2020	0.69	0.68	5.0%	0.25	0.24	7.4%
1331008494	12/23/2020	1.00	0.94	1.7%	0.50	0.42	1.1%
1331008133	12/24/2020	1.87	1.92	0.8%	1.47	1.50	1.1%
1331008135	12/24/2020	1.58	1.57	0.6%	2.77	2.71	0.9%
1331008145	12/24/2020	1.83	1.89	3.2%	1.19	1.18	0.8%
1331008150	12/24/2020	2.02	2.06	2.6%	1.13	1.19	2.0%
1331008227	12/24/2020	1.70	1.69	2.0%	1.17	1.16	5.2%
1331008228	12/24/2020	1.26	1.25	0.6%	0.94	0.93	2.2%
1331008096	12/25/2020	1.49	1.52	0.7%	4.07	4.11	2.7%
1331008111	12/25/2020	1.68	1.70	1.2%	0.43	0.43	0.0%
1331008159	12/25/2020	1.49	1.48	6.5%	1.50	1.46	3.0%
1331008174	12/25/2020	0.30	0.32	2.7%	1.01	0.98	0.7%
1331008260	12/25/2020	1.10	1.11	0.9%	0.50	0.48	4.1%
1331009181	12/25/2020	0.36	0.37	2.0%	1.48	1.49	1.0%
1320006113	12/26/2020	0.24	0.22	10.9%	1.45	1.43	4.3%
1320006114	12/26/2020	0.30	0.32	3.2%	1.38	1.43	5.9%
1320006133	12/26/2020	0.47	0.50	0.0%	1.17	1.17	7.2%
1320006157	12/26/2020	0.16	0.15	1.1%	1.61	1.68	5.7%
1320006193	12/26/2020	0.18	0.18	6.5%	1.48	1.47	4.3%
1331008254	12/26/2020	0.49	0.49	0.0%	1.04	1.06	0.7%
1331008324	12/26/2020	0.93	0.94	8.7%	0.34	0.36	1.4%
1331009033	12/26/2020	0.29	0.26	6.5%	0.94	0.90	3.6%
1331009064	12/26/2020	0.73	0.73	0.0%	0.43	0.40	1.9%
1331009071	12/26/2020	0.32	0.31	6.2%	2.61	2.46	0.0%
1328074044	12/27/2020	0.90	0.86	0.0%	1.44	1.44	1.9%
1328074152	12/27/2020	0.80	0.81	3.9%	2.38	2.32	5.0%
1328074178	12/27/2020	0.67	0.68	1.8%	2.19	2.21	2.0%
1328074196	12/27/2020	0.58	0.59	5.4%	1.44	1.44	1.8%
1328074205	12/27/2020	0.12	0.12	12.5%	9.60	9.42	1.4%
1331008329	12/27/2020	0.48	0.50	6.7%	1.41	1.54	1.3%
1331008345	12/27/2020	0.56	0.57	0.0%	0.50	0.51	2.2%
1331008386	12/27/2020	0.52	0.50	4.1%	0.58	0.61	8.8%
1331009049	12/27/2020	0.52	0.52	0.0%	1.39	1.39	0.0%
1331009106	12/27/2020	0.18	0.19	0.0%	1.13	1.15	0.0%
1331009108	12/27/2020	0.34	0.30	1.7%	0.70	0.71	0.0%
1331009110	12/27/2020	0.39	0.39	1.5%	0.44	0.45	0.9%
1331009192	12/27/2020	0.29	0.31	1.2%	1.58	1.60	2.6%
1331009201	12/27/2020	0.51	0.51	4.5%	1.33	1.33	0.0%
1331009208	12/27/2020	1.14	1.04	9.2%	1.95	1.78	9.1%
1328074005	12/28/2020	0.63	0.64	3.0%	0.38	0.40	2.5%

Appendix A-1: Carbon and Sulfur Duplicate Data from Rainy River Mine Onsite LECO Facility

Sample Site Name	Sample Date	Total Carbon (wt.%)	Total Carbon Duplicate (wt.%)	Carbon Relative Percent Difference (RPD)	Total Sulfur (wt.%)	Total Sulfur Duplicate (wt.%)	Sulfur Relative Percent Difference (RPD)
1328074013	12/28/2020	0.59	0.61	8.5%	1.85	1.84	1.7%
1328074099	12/28/2020	0.56	0.57	1.8%	2.63	2.67	1.5%
1328074100	12/28/2020	0.96	0.98	3.3%	2.49	2.57	0.5%
1328074110	12/28/2020	0.62	0.61	1.6%	2.15	2.10	2.4%
1328074312	12/28/2020	0.61	0.63	3.2%	0.93	0.91	2.2%
1331009024	12/28/2020	0.33	0.34	1.6%	0.80	0.82	5.1%
1331009227	12/28/2020	0.37	0.34	2.1%	3.02	2.97	3.2%
1320007145	12/29/2020	0.18	0.16	0.0%	1.73	1.77	0.0%
1330064015	12/29/2020	0.38	0.38	2.2%	0.31	0.31	7.7%
1330064023	12/29/2020	0.46	0.47	2.2%	0.35	0.33	5.9%
1330064052	12/29/2020	0.68	0.67	1.5%	0.90	0.91	1.1%
1330064067	12/29/2020	0.38	0.37	11.8%	0.58	0.57	2.3%
1330064078	12/29/2020	0.43	0.43	2.7%	0.47	0.49	1.7%
1330064097	12/29/2020	0.48	0.48	0.0%	0.42	0.45	4.2%
1330064116	12/29/2020	0.46	0.47	0.0%	0.27	0.25	6.9%
1330064132	12/29/2020	0.58	0.59	1.7%	0.72	0.75	4.1%
1320007039	12/31/2020	0.17	0.17	0.0%	1.32	1.35	3.2%
1320007046	12/31/2020	0.18	0.17	0.9%	1.15	1.14	2.2%
1320007052	12/31/2020	0.15	0.15	0.8%	1.61	1.56	3.8%
1320007074	12/31/2020	0.12	0.12	1.5%	2.49	2.50	5.6%
1320007081	12/31/2020	0.28	0.29	0.0%	2.48	2.34	0.4%
1320007098	12/31/2020	0.27	0.27	5.7%	1.49	1.50	0.9%
1320007104	12/31/2020	1.01	0.98	0.0%	1.48	1.52	2.2%
1330058148	12/31/2020	1.21	1.20	0.0%	0.78	0.81	0.7%
1330058180	12/31/2020	1.16	1.17	3.5%	0.44	0.45	5.8%
1330058249	12/31/2020	1.34	1.32	3.0%	1.29	1.22	2.7%

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1226002009	2/12/2020	0.19	0.50	15.21	15.63	0.97	37	15.0	2.47
1226002198	2/12/2020	0.39	1.80	31.22	56.25	0.56	29	53.9	0.53
1226002188	2/12/2020	0.27	1.78	21.62	55.63	0.39	22	53.6	0.41
1226002155	2/12/2020	0.87	2.14	69.66	66.88	1.04	61	62.2	0.99
1226002151	2/12/2020	0.17	0.89	13.61	27.81	0.49	6	24.8	0.24
1226002127	2/12/2020	0.95	2.26	76.06	70.63	1.08	68	67.4	1.01
1226002124	2/12/2020	0.24	0.52	19.22	16.25	1.18	4	15.9	0.27
1226002092	2/12/2020	0.19	0.82	15.21	25.63	0.59	9	23.6	0.36
1226002059	2/12/2020	0.72	2.14	57.65	66.88	0.86	43	65.2	0.66
1226002017	2/12/2020	0.52	0.43	41.63	13.44	3.10	44	13.2	3.33
1226002040	2/13/2020	0.23	0.37	18.41	11.56	1.59	11	11.0	0.99
1226005001	2/18/2020	0.38	1.57	30.42	49.06	0.62	19	48.4	0.39
1226005084	2/18/2020	0.71	1.01	56.85	31.56	1.80	44	31.9	1.39
1226005166	2/18/2020	0.26	0.88	20.82	27.50	0.76	20	24.8	0.81
1226005088	2/18/2020	0.11	0.92	8.81	28.75	0.31	7	25.1	0.27
1226005082	2/18/2020	0.44	1.46	35.23	45.63	0.77	23	44.7	0.52
1226005327	2/19/2020	0.22	3.28	17.61	102.50	0.17	16	99.5	0.16
1226013178	2/20/2020	0.22	2.69	17.61	84.06	0.21	16	85.8	0.18
1226005010	2/20/2020	0.40	0.84	32.03	26.25	1.22	22	24.8	0.89
1226005031	2/20/2020	0.20	0.51	16.01	15.94	1.00	14	16.5	0.86
1226013064	2/20/2020	0.22	2.91	17.61	90.94	0.19	8	86.4	0.09
1226005139	2/20/2020	0.07	1.39	5.60	43.44	0.13	6	43.5	0.14
1226013207	2/21/2020	0.29	2.42	23.22	75.63	0.31	10	72.9	0.14
1226013095	2/21/2020	0.17	1.97	13.61	61.56	0.22	10	57.3	0.17
1226013016	2/21/2020	0.08	2.82	6.41	88.13	0.07	8	83.3	0.10
1226013516	2/22/2020	0.21	2.50	16.81	78.13	0.22	11	79.3	0.14
1226013231	2/22/2020	0.31	2.06	24.82	64.38	0.39	10	65.8	0.15
1226013048	2/22/2020	0.36	1.64	28.82	51.25	0.56	16	53.0	0.30
1226013037	2/22/2020	0.36	0.81	28.82	25.31	1.14	19	23.0	0.84
1226013007	2/22/2020	0.27	1.17	21.62	36.56	0.59	20	35.5	0.56
1226013004	2/22/2020	0.29	0.81	23.22	25.31	0.92	16	22.0	0.71
1226013236	2/23/2020	0.30	1.90	24.02	59.38	0.40	13	63.1	0.21
1226013221	2/23/2020	0.29	1.72	23.22	53.75	0.43	13	51.8	0.24
1226013198	2/23/2020	0.21	1.37	16.81	42.81	0.39	12	44.7	0.27
1226005024	2/23/2020	0.41	0.97	32.83	30.31	1.08	25	33.1	0.76
1226005018	2/23/2020	0.33	1.06	26.42	33.13	0.80	16	34.9	0.44
1226005013	2/23/2020	0.32	0.63	25.62	19.69	1.30	16	19.0	0.85
1226013002	2/23/2020	0.47	2.49	37.63	77.81	0.48	26	77.8	0.33
1226005354	2/23/2020	0.19	1.14	15.21	35.63	0.43	5	32.8	0.16
1226005347	2/23/2020	0.17	1.19	13.61	37.19	0.37	5	37.1	0.14
1226005154	2/23/2020	0.21	0.81	16.81	25.31	0.66	7	23.0	0.31
1226005146	2/23/2020	0.27	1.60	21.62	50.00	0.43	11	49.3	0.23
1226010042	2/23/2020	0.22	0.29	17.61	9.06	1.94	13	8.6	1.47
1226010005	2/23/2020	0.24	0.57	19.22	17.81	1.08	14	16.2	0.86
1226010096	2/24/2020	0.44	0.43	35.23	13.44	2.62	7	11.9	0.63
1226010091	2/24/2020	0.24	0.25	19.22	7.81	2.46	9	7.4	1.21
1226010062	2/24/2020	0.21	0.29	16.81	9.06	1.86	4	9.2	0.48
1226010026	2/24/2020	0.37	0.61	29.62	19.06	1.55	27	19.0	1.44
1226010020	2/24/2020	0.46	0.44	36.83	13.75	2.68	26	12.6	2.06
1226010202	2/25/2020	0.22	0.38	17.61	11.88	1.48	10	11.6	0.85
1226010169	2/25/2020	0.28	0.46	22.42	14.38	1.56	16	14.4	1.11
1226010163	2/25/2020	0.32	0.58	25.62	18.13	1.41	20	17.5	1.15
1226010141	2/25/2020	0.20	0.45	16.01	14.06	1.14	7	13.5	0.55
1226011093	2/26/2020	0.07	0.11	5.60	3.44	1.63	5	3.1	1.72
1226011270	2/26/2020	0.20	2.30	16.01	71.88	0.22	11	70.7	0.16
1226011230	2/26/2020	0.22	1.76	17.61	55.00	0.32	10	83.6	0.12
1226011219	2/26/2020	0.42	1.85	33.63	57.81	0.58	30	55.4	0.53
1226011202	2/26/2020	0.32	2.37	25.62	74.06	0.35	15	74.1	0.21
1226011197	2/26/2020	0.12	2.16	9.61	67.50	0.14	4	65.5	0.06

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1226011181	2/26/2020	0.19	0.34	15.21	10.63	1.43	13	10.4	1.23
1226011099	2/26/2020	0.51	0.80	40.83	25.00	1.63	8	22.4	0.37
1226011085	2/26/2020	0.25	0.09	20.02	2.81	7.12	17	2.8	6.20
1226010228	2/26/2020	0.22	0.56	17.61	17.50	1.01	11	18.1	0.61
1226010210	2/26/2020	0.25	0.43	20.02	13.44	1.49	8	12.9	0.66
1226011145	2/26/2020	0.31	0.09	24.82	2.81	8.82	8	2.8	3.07
1226010111	2/26/2020	0.28	0.37	22.42	11.56	1.94	81	11.0	7.38
1226010107	2/26/2020	0.22	0.39	17.61	12.19	1.45	9	12.3	0.70
1226011084	2/28/2020	0.17	0.13	13.61	4.06	3.35	12	3.4	3.50
1226011055	2/28/2020	0.23	0.11	18.41	3.44	5.36	9	3.1	2.90
1226006152	2/28/2020	0.16	0.85	12.81	26.56	0.48	12	27.3	0.42
1226006139	2/28/2020	0.12	1.36	9.61	42.50	0.23	9	39.5	0.22
1226006117	2/28/2020	0.33	0.74	26.42	23.13	1.14	9	22.4	0.39
1226006098	2/28/2020	0.25	1.25	20.02	39.06	0.51	10	42.0	0.23
1226006031	2/28/2020	0.23	0.71	18.41	22.19	0.83	12	22.0	0.55
1226006001	2/28/2020	0.32	1.38	25.62	43.13	0.59	17	41.7	0.41
1226011024	2/29/2020	0.15	0.84	12.01	26.25	0.46	9	25.1	0.38
1226011015	2/29/2020	0.12	0.64	9.61	20.00	0.48	5	21.1	0.24
1226011011	2/29/2020	0.12	0.59	9.61	18.44	0.52	7	17.5	0.42
1226006023	2/29/2020	0.33	1.25	26.42	39.06	0.68	19	38.6	0.50
1226006180	2/29/2020	0.21	1.78	16.81	55.63	0.30	11	56.3	0.19
1226006176	2/29/2020	0.22	2.10	17.61	65.63	0.27	11	63.4	0.18
1226006169	2/29/2020	0.17	0.86	13.61	26.88	0.51	63	24.8	2.53
1226006167	2/29/2020	0.12	0.71	9.61	22.19	0.43	10	22.0	0.46
1226006044	2/29/2020	0.31	1.29	24.82	40.31	0.62	17	39.5	0.42
1226006416	2/29/2020	0.43	1.27	34.43	39.69	0.87	31	37.7	0.81
1226006433	2/29/2020	0.29	1.27	23.22	39.69	0.59	15	38.6	0.39
1226006013	2/29/2020	0.31	1.04	24.82	32.50	0.76	22	34.6	0.63
1226006042	2/29/2020	0.32	1.16	25.62	36.25	0.71	12	35.8	0.34
1226006195	2/29/2020	0.31	2.28	24.82	71.25	0.35	17	69.8	0.24
1226006435	2/29/2020	0.43	0.95	34.43	29.69	1.16	33	29.4	1.11
1227015347	3/1/2020	1.18	2.23	94.48	69.69	1.36	74	69.5	1.06
1227015257	3/1/2020	0.84	1.34	67.25	41.88	1.61	55	40.7	1.35
1227015183	3/1/2020	0.67	0.99	53.64	30.94	1.73	45	24.5	1.82
1227015148	3/1/2020	0.26	1.34	20.82	41.88	0.50	14	41.7	0.34
1227015137	3/1/2020	0.54	1.03	43.23	32.19	1.34	15	29.7	0.51
1227015135	3/1/2020	0.26	1.12	20.82	35.00	0.59	22	33.1	0.66
1227015066	3/1/2020	0.25	0.08	20.02	2.50	8.01	19	2.8	6.96
1227015270	3/1/2020	1.25	1.72	100.08	53.75	1.86	96	55.7	1.72
1227015017	3/1/2020	0.31	0.84	24.82	26.25	0.95	15	24.2	0.63
1226007163	3/3/2020	0.22	1.90	17.61	59.38	0.30	11	51.5	0.21
1226007198	3/3/2020	0.24	0.47	19.22	14.69	1.31	9	14.7	0.64
1226007169	3/3/2020	0.15	1.75	12.01	54.69	0.22	9	52.1	0.18
1226007151	3/3/2020	0.22	2.00	17.61	62.50	0.28	6	61.3	0.10
1226007129	3/3/2020	0.25	1.67	20.02	52.19	0.38	14	44.7	0.30
1226007127	3/3/2020	0.25	1.47	20.02	45.94	0.44	14	45.0	0.31
1226007125	3/3/2020	0.30	2.18	24.02	68.13	0.35	13	65.8	0.19
1226007100	3/3/2020	0.15	1.71	12.01	53.44	0.22	8	49.9	0.17
1226007074	3/3/2020	0.16	0.88	12.81	27.50	0.47	7	26.3	0.28
1226007069	3/3/2020	0.15	1.52	12.01	47.50	0.25	7	45.0	0.16
1226007051	3/3/2020	0.22	2.02	17.61	63.13	0.28	9	58.8	0.15
1226007022	3/3/2020	0.23	1.68	18.41	52.50	0.35	6	51.5	0.12
1226007019	3/3/2020	0.12	1.07	9.61	33.44	0.29	5	30.0	0.16
1226007173	3/3/2020	0.22	1.43	17.61	44.69	0.39	8	48.4	0.17
1227015289	3/5/2020	1.07	1.58	85.67	49.38	1.74	82	49.9	1.65
1227015273	3/5/2020	1.34	0.97	107.29	30.31	3.54	107	24.2	4.42
1227015169	3/5/2020	0.26	1.15	20.82	35.94	0.58	14	26.0	0.53
1227015126	3/5/2020	0.14	0.08	11.21	2.50	4.48	7	2.1	3.44
1227015077	3/5/2020	0.30	0.67	24.02	20.94	1.15	25	19.0	1.32

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Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1227015010	3/5/2020	0.33	6.36	26.42	198.75	0.13	13	145.0	0.09
1227015037	3/5/2020	0.19	2.51	15.21	78.44	0.19	12	77.2	0.16
1227015245	3/6/2020	0.08	1.98	6.41	61.88	0.10	67	56.3	1.19
1227015240	3/6/2020	0.31	0.14	24.82	4.38	5.67	12	3.7	3.32
1227015200	3/6/2020	0.17	0.10	13.61	3.13	4.36	13	3.1	4.28
1227016047	3/7/2020	0.21	3.08	16.81	96.25	0.17	11	89.1	0.12
1227016045	3/7/2020	0.54	3.71	43.23	115.94	0.37	33	112.0	0.29
1227016037	3/7/2020	0.03	2.34	2.40	73.13	0.03	3	68.3	0.05
1227016024	3/7/2020	0.04	0.14	3.20	4.38	0.73	2	3.7	0.51
1227016023	3/7/2020	0.06	0.23	4.80	7.19	0.67	3	5.8	0.47
1227016020	3/7/2020	0.03	2.98	2.40	93.13	0.03	1	94.6	0.01
1227016014	3/7/2020	0.13	3.82	10.41	119.38	0.09	2	119.0	0.02
1227016090	3/7/2020	0.59	1.36	47.24	42.50	1.11	49	42.0	1.16
1227016050	3/7/2020	0.47	2.86	37.63	89.38	0.42	23	86.7	0.26
1227016057	3/7/2020	0.55	1.10	44.04	34.38	1.28	43	34.6	1.24
1227016186	3/7/2020	0.75	2.18	60.05	68.13	0.88	53	64.6	0.83
1227016146	3/7/2020	0.35	3.03	28.02	94.69	0.30	19	90.3	0.21
1227016126	3/7/2020	0.88	2.69	70.46	84.06	0.84	57	90.0	0.63
1227016117	3/7/2020	0.82	1.44	65.65	45.00	1.46	55	45.9	1.20
1227016101	3/7/2020	0.46	2.33	36.83	72.81	0.51	30	69.5	0.44
1226022157	3/8/2020	0.28	1.58	22.42	49.38	0.45	10	49.3	0.20
1226022107	3/8/2020	0.07	1.46	5.60	45.63	0.12	5	44.1	0.12
1226022097	3/8/2020	0.18	1.50	14.41	46.88	0.31	7	44.7	0.17
1226022080	3/8/2020	0.42	1.50	33.63	46.88	0.72	29	29.1	0.98
1226022171	3/8/2020	0.11	2.13	8.81	66.56	0.13	6	61.9	0.09
1226022172	3/8/2020	0.09	2.43	7.21	75.94	0.09	4	77.8	0.05
1226022163	3/8/2020	0.62	1.38	49.64	43.13	1.15	50	42.9	1.16
1226022300	3/8/2020	0.52	1.31	41.63	40.94	1.02	26	39.8	0.66
1226022273	3/8/2020	0.17	1.31	13.61	40.94	0.33	10	38.9	0.25
1226022268	3/8/2020	0.16	1.46	12.81	45.63	0.28	7	45.3	0.15
1226022182	3/8/2020	0.13	1.11	10.41	34.69	0.30	7	34.9	0.20
1226022040	3/10/2020	0.53	3.82	42.43	119.38	0.36	35	119.0	0.29
1226022029	3/10/2020	0.50	4.30	40.03	134.38	0.30	34	137.0	0.25
1226022027	3/10/2020	0.22	1.25	17.61	39.06	0.45	7	36.8	0.19
1226022006	3/10/2020	0.45	0.99	36.03	30.94	1.16	29	29.1	1.00
1226022002	3/10/2020	0.49	3.56	39.23	111.25	0.35	32	112.0	0.29
1226022001	3/10/2020	0.46	5.12	36.83	160.00	0.23	29	153.0	0.19
1226022265	3/10/2020	0.22	1.03	17.61	32.19	0.55	8	29.1	0.27
1226022229	3/10/2020	0.17	1.03	13.61	32.19	0.42	5	33.1	0.17
1227016247	3/10/2020	1.49	2.12	119.30	66.25	1.80	92	63.1	1.45
1227016240	3/10/2020	3.40	0.90	272.22	28.13	9.68	128	27.0	4.74
1226014265	3/11/2020	0.17	1.99	13.61	62.19	0.22	11	61.9	0.17
1226014251	3/11/2020	0.18	0.28	14.41	8.75	1.65	10	68.0	0.14
1226014211	3/11/2020	0.32	1.92	25.62	60.00	0.43	15	54.8	0.26
1226014209	3/11/2020	0.38	1.76	30.42	55.00	0.55	21	52.1	0.40
1226014199	3/11/2020	0.15	0.15	12.01	4.69	2.56	9	5.2	1.65
1226014310	3/11/2020	0.24	2.39	19.22	74.69	0.26	14	71.4	0.20
1226014293	3/11/2020	0.32	1.94	25.62	60.63	0.42	15	57.9	0.25
1226014304	3/11/2020	0.26	1.66	20.82	51.88	0.40	10	47.8	0.20
1226014376	3/11/2020	0.27	1.65	21.62	51.56	0.42	18	46.9	0.39
1226014082	3/12/2020	0.25	3.16	20.02	98.75	0.20	12	95.2	0.12
1226014074	3/12/2020	0.25	2.08	20.02	65.00	0.31	13	63.4	0.20
1226014024	3/12/2020	0.33	2.21	26.42	69.06	0.38	14	65.5	0.22
1226014020	3/12/2020	0.30	1.72	24.02	53.75	0.45	20	54.2	0.37
1226014013	3/12/2020	0.24	0.18	19.22	5.63	3.42	6	4.9	1.20
1226014050	3/13/2020	0.37	2.37	29.62	74.06	0.40	15	69.2	0.22
1226014230	3/13/2020	0.28	1.58	22.42	49.38	0.45	13	47.8	0.28
1226014121	3/13/2020	0.30	1.55	24.02	48.44	0.50	16	49.0	0.33
1226014051	3/13/2020	0.24	2.68	19.22	83.75	0.23	12	80.5	0.15

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Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1226014008	3/13/2020	0.26	2.71	20.82	84.69	0.25	11	84.5	0.12
1226014067	3/13/2020	0.24	1.87	19.22	58.44	0.33	16	55.1	0.29
1226014334	3/13/2020	0.46	1.75	36.83	54.69	0.67	28	50.8	0.56
1226014289	3/15/2020	0.30	1.63	24.02	50.94	0.47	18	47.5	0.38
1226004260	3/16/2020	0.21	1.55	16.81	48.44	0.35	15	45.9	0.32
1226015228	3/19/2020	0.12	0.68	9.61	21.25	0.45	9	23.3	0.38
1226015100	3/19/2020	0.22	1.21	17.61	37.81	0.47	8	35.8	0.23
1226015064	3/20/2020	0.22	1.24	17.61	38.75	0.45	13	39.8	0.33
1226015062	3/20/2020	0.35	0.91	28.02	28.44	0.99	22	28.5	0.78
1226015038	3/20/2020	1.08	0.68	86.47	21.25	4.07	80	19.9	3.99
1226015155	3/31/2020	0.27	0.09	21.62	2.81	7.69	20	3.1	6.37
1226015363	3/31/2020	0.15	0.74	12.01	23.13	0.52	9	22.0	0.39
1226015356	3/31/2020	0.17	0.65	13.61	20.31	0.67	7	18.7	0.38
1226015312	3/31/2020	0.07	2.44	5.60	76.25	0.07	8	72.0	0.11
1226015265	3/31/2020	0.15	2.00	12.01	62.50	0.19	10	56.3	0.18
1226015255	3/31/2020	0.17	0.09	13.61	2.81	4.84	12	3.1	3.82
1226015159	3/31/2020	0.15	1.16	12.01	36.25	0.33	12	36.4	0.33
1226015106	3/31/2020	0.30	0.65	24.02	20.31	1.18	22	20.8	1.05
1226015080	3/31/2020	0.20	0.75	16.01	23.44	0.68	16	23.0	0.70
1226015203	3/31/2020	0.30	0.44	24.02	13.75	1.75	20	13.5	1.44
1226015222	4/2/2020	0.26	0.60	20.82	18.75	1.11	11	17.5	0.63
1226015002	4/2/2020	0.39	2.68	31.22	83.75	0.37	13	81.8	0.16
1226015001	4/2/2020	0.10	3.49	8.01	109.06	0.07	9	108.0	0.08
1226016288	4/3/2020	0.07	0.10	5.60	3.13	1.79	5	2.8	1.86
1226016330	4/3/2020	0.22	2.14	17.61	66.88	0.26	19	64.3	0.30
1226016274	4/3/2020	0.17	1.62	13.61	50.63	0.27	7	52.4	0.13
1226016250	4/3/2020	0.14	2.78	11.21	86.88	0.13	4	87.3	0.05
1226016169	4/3/2020	0.09	2.31	7.21	72.19	0.10	11	65.5	0.16
1226016137	4/3/2020	0.29	2.43	23.22	75.94	0.31	14	75.0	0.19
1226016234	4/4/2020	0.04	0.07	3.20	2.19	1.46	7	2.1	3.21
1226016224	4/4/2020	0.12	2.02	9.61	63.13	0.15	11	61.9	0.18
1226016205	4/4/2020	0.08	2.93	6.41	91.56	0.07	5	86.7	0.06
1226016115	4/4/2020	0.05	3.40	4.00	106.25	0.04	5	107.0	0.05
1226016110	4/4/2020	0.12	1.02	9.61	31.88	0.30	10	32.8	0.30
1226016104	4/4/2020	0.06	1.16	4.80	36.25	0.13	6	35.2	0.18
1226017322	4/5/2020	0.18	2.79	14.41	87.19	0.17	7	87.0	0.08
1226017222	4/5/2020	0.22	1.57	17.61	49.06	0.36	11	50.8	0.22
1226017215	4/5/2020	0.02	3.71	1.60	115.94	0.01	3	112.0	0.03
1226017085	4/5/2020	0.24	4.95	19.22	154.69	0.12	21	148.0	0.14
1226017032	4/5/2020	0.09	1.34	7.21	41.88	0.17	9	40.1	0.21
1226016068	4/5/2020	0.22	2.43	17.61	75.94	0.23	9	72.9	0.12
1226017429	4/5/2020	0.21	2.79	16.81	87.19	0.19	9	86.1	0.11
1226017021	4/5/2020	0.20	1.12	16.01	35.00	0.46	144	35.2	4.09
1226017398	4/5/2020	0.35	2.54	28.02	79.38	0.35	7	80.5	0.09
1226017443	4/5/2020	0.15	2.88	12.01	90.00	0.13	5	63.7	0.07
1226016050	4/5/2020	0.15	1.09	12.01	34.06	0.35	17	32.5	0.52
1226016048	4/5/2020	0.28	1.28	22.42	40.00	0.56	21	35.2	0.59
1226016031	4/5/2020	0.18	2.62	14.41	81.88	0.18	9	77.5	0.11
1226016027	4/5/2020	0.13	0.14	10.41	4.38	2.38	5	3.7	1.32
1226017202	4/8/2020	0.17	2.46	13.61	76.88	0.18	8	76.9	0.10
1226020109	4/8/2020	0.20	1.49	16.01	46.56	0.34	16	46.5	0.34
1226017150	4/9/2020	0.18	0.57	14.41	17.81	0.81	8	16.5	0.51
1226017107	4/9/2020	0.28	0.53	22.42	16.56	1.35	18	15.6	1.13
1226017105	4/9/2020	0.28	0.90	22.42	28.13	0.80	18	25.7	0.70
1226020200	4/9/2020	0.14	1.21	11.21	37.81	0.30	8	37.7	0.22
1226020410	4/9/2020	0.17	3.09	13.61	96.56	0.14	6	95.2	0.06
1226020180	4/9/2020	0.25	1.68	20.02	52.50	0.38	13	53.9	0.24
1226020141	4/9/2020	0.14	1.97	11.21	61.56	0.18	3	61.3	0.05
1226020069	4/9/2020	0.04	0.24	3.20	7.50	0.43	3	8.3	0.33

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1226020057	4/9/2020	0.26	1.95	20.82	60.94	0.34	12	60.9	0.20
1226020048	4/9/2020	0.47	2.13	37.63	66.56	0.57	30	67.1	0.44
1226020039	4/9/2020	0.82	1.43	65.65	44.69	1.47	60	44.1	1.35
1226020704	4/9/2020	0.08	1.49	6.41	46.56	0.14	5	44.4	0.12
1225002321	4/9/2020	0.84	2.78	67.25	86.88	0.77	69	86.1	0.80
1225002244	4/9/2020	0.65	2.25	52.04	70.31	0.74	35	68.6	0.51
1225002344	4/9/2020	0.88	2.02	70.46	63.13	1.12	64	62.5	1.03
1226017337	4/10/2020	0.26	2.99	20.82	93.44	0.22	14	91.0	0.16
1226020324	4/10/2020	0.12	0.43	9.61	13.44	0.71	5	13.5	0.37
1226020223	4/10/2020	0.18	2.94	14.41	91.88	0.16	12	90.7	0.13
1226020152	4/10/2020	0.16	3.60	12.81	112.50	0.11	9	113.0	0.08
1226020228	4/10/2020	0.16	0.47	12.81	14.69	0.87	14	14.7	0.93
1226020417	4/10/2020	0.29	3.10	23.22	96.88	0.24	20	94.9	0.21
1226020588	4/10/2020	0.81	2.14	64.85	66.88	0.97	64	68.0	0.94
1226020503	4/10/2020	0.75	1.68	60.05	52.50	1.14	59	53.0	1.12
1226020419	4/10/2020	0.71	3.22	56.85	100.63	0.56	28	93.1	0.30
1225002271	4/10/2020	0.46	1.20	36.83	37.50	0.98	31	38.9	0.80
1225002259	4/10/2020	0.42	2.16	33.63	67.50	0.50	33	68.3	0.49
1225002242	4/10/2020	0.74	1.77	59.25	55.31	1.07	55	56.7	0.97
1225002230	4/10/2020	0.46	1.51	36.83	47.19	0.78	33	49.6	0.67
1225002228	4/10/2020	0.55	1.42	44.04	44.38	0.99	34	46.5	0.73
1225002330	4/10/2020	0.59	1.76	47.24	55.00	0.86	33	51.5	0.64
1225002333	4/10/2020	0.71	2.04	56.85	63.75	0.89	47	62.5	0.76
1226017384	4/11/2020	0.14	2.45	11.21	76.56	0.15	4	83.3	0.05
1225002133	4/11/2020	0.47	2.81	37.63	87.81	0.43	29	84.5	0.34
1225002204	4/11/2020	0.36	1.96	28.82	61.25	0.47	30	62.5	0.48
1225002186	4/11/2020	0.30	2.28	24.02	71.25	0.34	23	70.1	0.33
1225002174	4/11/2020	0.36	2.16	28.82	67.50	0.43	21	66.5	0.31
1225002145	4/11/2020	0.45	2.42	36.03	75.63	0.48	27	76.3	0.35
1225002125	4/11/2020	0.25	1.66	20.02	51.88	0.39	14	51.5	0.27
1225002086	4/11/2020	0.28	2.11	22.42	65.94	0.34	18	65.2	0.27
1225002074	4/11/2020	0.90	3.11	72.06	97.19	0.74	34	95.9	0.35
1225002072	4/11/2020	0.91	2.81	72.86	87.81	0.83	14	83.9	0.16
1225002060	4/11/2020	0.35	2.66	28.02	83.13	0.34	19	75.9	0.25
1225002045	4/11/2020	0.41	2.07	32.83	64.69	0.51	25	64.6	0.38
1225002038	4/11/2020	0.24	2.74	19.22	85.63	0.22	12	79.9	0.15
1225002029	4/11/2020	0.34	2.47	27.22	77.19	0.35	17	79.0	0.22
1225002016	4/11/2020	0.23	3.30	18.41	103.13	0.18	13	87.6	0.14
1225002004	4/11/2020	0.27	2.49	21.62	77.81	0.28	13	73.8	0.18
1225002165	4/11/2020	0.49	1.91	39.23	59.69	0.66	27	59.1	0.46
1226020380	4/12/2020	0.17	0.09	13.61	2.81	4.84	16	3.1	5.26
1226020365	4/12/2020	0.29	2.09	23.22	65.31	0.36	17	64.0	0.26
1226020339	4/12/2020	0.95	2.30	76.06	71.88	1.06	54	72.0	0.75
1226020288	4/12/2020	0.15	1.52	12.01	47.50	0.25	5	47.2	0.11
1226020284	4/12/2020	0.14	5.76	11.21	180.00	0.06	15	176.0	0.08
1226020261	4/12/2020	0.31	2.12	24.82	66.25	0.37	27	67.1	0.40
1226020250	4/12/2020	3.72	0.37	297.84	11.56	25.76	185	12.3	15.04
1226020028	4/12/2020	0.60	1.82	48.04	56.88	0.84	40	54.8	0.73
1226020438	4/12/2020	0.19	0.23	15.21	7.19	2.12	7	7.4	0.97
1226020466	4/12/2020	0.32	0.43	25.62	13.44	1.91	23	12.6	1.81
1226020459	4/12/2020	0.20	2.26	16.01	70.63	0.23	11	67.7	0.16
1226020393	4/13/2020	2.36	1.31	188.95	40.94	4.62	153	40.4	3.79
1226020615	4/13/2020	0.34	2.13	27.22	66.56	0.41	25	71.1	0.35
1226020552	4/13/2020	0.34	0.81	27.22	25.31	1.08	28	24.2	1.14
1226020538	4/13/2020	0.24	1.56	19.22	48.75	0.39	15	48.1	0.31
1226020480	4/13/2020	1.41	2.28	112.89	71.25	1.58	100	63.7	1.57
1226024159	4/13/2020	0.27	0.69	21.62	21.56	1.00	17	21.7	0.80
1226024139	4/13/2020	0.17	2.08	13.61	65.00	0.21	8	61.6	0.13
1226024124	4/13/2020	0.27	1.38	21.62	43.13	0.50	15	42.0	0.36

Appendix A-2: Acid-Base Accounting Audit Data

Sample Site Name	Date	Total Carbon RRM LECO (wt.%)	Total Sulfur RRM LECO (wt.%)	LECO NP (kg $CaCO_3$/t)	LECO AP (kg $CaCO_3$/t)	LECO NPR	Sobek NP (kg $CaCO_3$/t)	MPA (kg $CaCO_3$/t)	Sobek NPR
1226024062	4/13/2020	0.17	1.55	13.61	48.44	0.28	9	50.2	0.18
1226024058	4/13/2020	0.28	1.32	22.42	41.25	0.54	16	41.3	0.39
1226024051	4/13/2020	0.23	1.93	18.41	60.31	0.31	10	59.7	0.16
1226024036	4/13/2020	0.25	1.18	20.02	36.88	0.54	10	38.0	0.27
1226024088	4/14/2020	0.32	0.78	25.62	24.38	1.05	17	22.7	0.76
1226024112	4/14/2020	0.35	1.75	28.02	54.69	0.51	15	55.1	0.27
1226024086	4/14/2020	0.40	0.91	32.03	28.44	1.13	23	27.0	0.86
1226024114	4/14/2020	0.38	0.85	30.42	26.56	1.15	20	24.2	0.81
1225002455	4/14/2020	0.22	0.37	17.61	11.56	1.52	9	13.2	0.68
1225002440	4/14/2020	0.31	1.03	24.82	32.19	0.77	15	30.3	0.51
1225002430	4/14/2020	0.35	0.58	28.02	18.13	1.55	16	17.8	0.89
1225002422	4/14/2020	0.18	0.86	14.41	26.88	0.54	8	27.0	0.31
1225002402	4/14/2020	0.56	0.78	44.84	24.38	1.84	17	23.9	0.72
1226021011	4/15/2020	0.61	1.02	48.84	31.88	1.53	30	30.0	0.99
1226021443	4/16/2020	0.32	1.42	25.62	44.38	0.58	16	46.5	0.33
1226021447	4/16/2020	0.54	0.95	43.23	29.69	1.46	33	29.4	1.12

Appendix B

Independent Laboratory Certificates of Analysis

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-00325**
Report Date:	**07-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

69 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-03 21:29:54
4F-C, S	Infrared	2020-01-31 20:38:14

REPORT **A20-00325**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.:	**A20-00325**
Report Date:	**07-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

69 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-01-19 14:35:32
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-01-23 19:57:11

REPORT **A20-00325**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227020122	49.5	7.48	-42.0	53.9	0.139	8.43	269	0.6	< 0.5	181	396	3	14	< 2	54	2.75	11	< 10	22	< 0.5	3	1.12	12
1227020084	78.3	5.62	-72.7	86.7	0.0649	8.67	267	1.6	2.9	300	804	1	19	7	993	2.60	43	< 10	12	< 0.5	2	0.42	14
1234005527	14.3	22.9	8.60	17.5	1.31	8.80	36	0.4	1.4	51	408	2	14	2	381	1.60	7	< 10	51	< 0.5	< 2	1.29	9
1227020111	48.4	8.37	-40.1	52.7	0.159	8.61	331	0.7	2.5	130	498	1	12	3	596	2.36	23	< 10	18	< 0.5	2	0.89	10
V845143							1550	10.2	< 0.5	52	350	20	12	9	57	1.40	< 2	< 10	81	< 0.5	< 2	1.16	13
1227020107	115	12.1	-103	126	0.0962	8.51	336	2.6	< 0.5	567	528	1	12	3	189	2.89	54	< 10	13	< 0.5	6	0.82	9
1227020077	100	6.24	-94.3	112	0.0555	8.79	213	1.5	8.3	79	1100	< 1	14	9	2140	2.65	81	< 10	< 10	< 0.5	4	0.29	12
1228031330	39.8	14.6	-25.2	43.2	0.338	8.46	148	0.6	1.1	203	323	2	9	6	272	2.12	19	10	25	< 0.5	2	0.96	18
1234005482	12.2	24.1	11.9	11.9	2.01	9.26	< 5	< 0.2	< 0.5	10	572	< 1	51	2	97	1.96	3	< 10	101	< 0.5	< 2	1.76	13
1234005426	6.66	21.1	14.4	9.80	2.15	8.87	10	0.3	1.6	20	516	< 1	14	7	532	1.36	6	< 10	48	< 0.5	< 2	1.38	10
1228031283	30.8	18.1	-12.7	34.3	0.527	8.44	308	0.5	< 0.5	145	355	2	10	9	106	2.40	16	11	26	< 0.5	2	1.15	13
1228031286	28.7	22.6	-6.13	31.5	0.717	8.55	798	0.6	< 0.5	147	314	1	11	3	46	1.62	20	< 10	31	< 0.5	< 2	1.00	11
1228031260	30.6	16.0	-14.7	34.3	0.465	8.50	373	0.9	< 0.5	248	343	2	8	10	78	1.91	12	< 10	27	< 0.5	< 2	0.96	14
1234005460	11.3	16.0	4.70	11.0	1.45	8.91	6	0.2	0.9	20	482	< 1	16	3	173	1.82	7	< 10	52	< 0.5	< 2	1.88	8
1228031336	24.1	11.2	-12.8	27.6	0.408	8.61	182	0.5	< 0.5	174	360	2	9	4	155	1.83	6	< 10	36	< 0.5	< 2	0.73	9
1234005313	0.0954	31.8	31.7	5.82	5.47	9.16	5	< 0.2	< 0.5	22	508	< 1	24	< 2	127	1.60	< 2	< 10	70	< 0.5	< 2	1.79	13
1234005330	14.9	33.2	18.3	18.1	1.84	9.05	21	0.2	< 0.5	34	469	1	13	4	135	1.51	6	< 10	61	< 0.5	< 2	1.89	10
1228031150	19.1	13.4	-5.69	18.7	0.716	8.75	185	0.4	< 0.5	58	389	3	13	6	78	1.94	20	12	41	< 0.5	5	1.12	16
1228031266	43.4	15.7	-27.7	47.5	0.332	8.50	1060	1.0	< 0.5	241	332	2	11	5	57	1.82	18	< 10	24	< 0.5	2	1.29	8
1228031167	32.4	17.8	-14.5	35.5	0.502	8.65	141	0.3	< 0.5	42	408	3	11	2	195	2.36	8	17	35	< 0.5	5	1.51	9
1227011016	120	5.61	-114	126	0.0446	8.41	82	0.4	< 0.5	35	381	< 1	8	6	53	1.50	9	< 10	< 10	< 0.5	4	0.51	9
1227011058	115	10.9	-104	122	0.0891	8.49	473	0.9	< 0.5	159	384	< 1	9	6	50	1.49	14	< 10	< 10	< 0.5	9	0.60	7
1228031209	26.3	38.7	12.3	30.0	1.29	8.59	61	1.1	3.5	36	400	2	11	487	893	1.50	12	< 10	41	< 0.5	3	1.89	10
1228031147	32.4	6.97	-25.4	35.8	0.195	8.60	54	< 0.2	< 0.5	6	204	1	11	< 2	50	1.86	7	< 10	32	< 0.5	< 2	0.91	10
1227011013	172	6.11	-166	178	0.0344	8.15	98	0.6	< 0.5	64	278	< 1	12	6	44	1.08	9	< 10	< 10	< 0.5	5	0.34	6
1228031102	33.6	33.4	-0.236	37.7	0.887	8.78	60	0.6	< 0.5	15	686	< 1	16	4	184	2.62	11	13	42	< 0.5	4	2.08	12
V845144							946	2.5	< 0.5	61	411	11	16	8	60	1.48	< 2	< 10	81	< 0.5	< 2	1.31	15
1230093470	45.6	28.2	-17.4	49.0	0.576	8.81	392	14.2	0.8	73	674	2	29	< 2	282	1.48	7	< 10	26	< 0.5	4	1.46	12
1227007078	53.2	22.1	-31.1	57.6	0.384	8.57	47	0.4	3.3	101	485	3	14	< 2	880	1.07	9	< 10	19	< 0.5	< 2	1.13	10
1227010006	53.4	13.2	-40.2	57.3	0.231	8.52	93	0.7	1.3	95	565	3	12	7	348	1.86	9	< 10	21	< 0.5	< 2	1.54	10
1227010003	61.0	17.2	-43.8	65.5	0.263	8.68	1000	0.9	2.9	123	472	3	12	7	750	1.42	26	< 10	21	< 0.5	< 2	1.47	9
1227010046	61.6	17.4	-44.1	67.4	0.259	8.45	165	1.2	1.3	101	423	< 1	8	4	421	1.68	13	< 10	19	< 0.5	6	1.21	10
1227008250	0.501	20.1	19.6	13.5	1.49	8.45	13	< 0.2	< 0.5	17	504	< 1	6	5	109	2.80	6	12	38	< 0.5	< 2	1.81	8
1227010095	60.7	12.7	-48.0	64.9	0.196	8.59	179	0.9	1.8	116	426	1	12	3	445	2.30	15	< 10	21	< 0.5	3	1.14	10
1227010064	65.8	13.1	-52.7	71.4	0.184	8.55	218	0.7	2.3	111	454	1	12	3	738	1.79	11	< 10	21	< 0.5	3	0.84	11
1230093483	55.9	26.6	-29.3	60.6	0.439	8.71	114	1.9	0.5	142	870	< 1	20	3	184	2.09	7	< 10	22	< 0.5	2	1.65	13
1227010200	19.5	56.9	37.5	25.1	2.27	8.54	797	3.3	2.1	43	984	1	63	3	535	2.65	7	< 10	31	0.6	< 2	3.05	16
1227010069	75.5	12.2	-63.3	80.8	0.152	8.48	166	1.6	2.4	235	384	4	11	< 2	663	1.51	19	< 10	16	< 0.5	8	0.70	12
1227010106	62.0	12.1	-49.9	66.8	0.181	8.54	176	0.7	1.8	31	572	1	14	3	429	2.23	19	< 10	23	< 0.5	3	1.25	9
1227010156	83.9	11.4	-72.6	89.7	0.127	8.41	235	0.8	1.3	134	477	< 1	12	< 2	335	1.95	13	< 10	17	< 0.5	5	0.75	10
1227010163	42.6	8.60	-34.0	45.3	0.190	8.63	424	0.8	0.9	44	605	2	15	4	260	1.67	16	< 10	27	< 0.5	5	0.66	11
1227010220	1.54	42.6	41.0	15.6	2.73	8.97	63	< 0.2	< 0.5	33	464	1	5	2	85	0.95	2	< 10	69	< 0.5	< 2	2.00	5
1234005438	0.826	23.7	22.9	5.82	4.08	8.96	6	0.2	< 0.5	11	473	< 1	11	< 2	82	1.53	5	< 10	46	< 0.5	< 2	1.47	8
1227010170	39.6	9.36	-30.2	45.3	0.206	8.71	283	4.9	2.5	39	746	1	8	< 2	776	1.92	11	< 10	23	< 0.5	5	0.89	9
1227011113	84.2	5.99	-78.2	92.5	0.0648	8.42	278	0.5	< 0.5	19	365	< 1	9	4	102	1.60	19	< 10	11	< 0.5	3	0.29	10
1227011162	47.3	10.6	-36.7	53.0	0.200	8.49	396	1.3	7.9	92	837	1	11	3	2160	1.91	16	< 10	27	< 0.5	< 2	1.04	10
1227010211	34.8	19.1	-15.7	39.2	0.488	8.61	134	0.2	0.8	32	451	1	13	3	266	1.59	7	< 10	22	< 0.5	4	1.04	11
1227012361	45.2	5.87	-39.3	52.4	0.112	8.21	520	0.9	6.3	44	854	< 1	13	67	1560	1.57	77	< 10	22	< 0.5	< 2	0.71	9
1227011199	26.5	16.1	-10.4	29.4	0.547	8.51	286	0.6	< 0.5	169	616	1	11	7	105	1.78	8	< 10	35	< 0.5	< 2	1.14	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
V845145							121	1.7	< 0.5	59	360	4	13	8	67	1.45	< 2	< 10	82	< 0.5	< 2	1.18	13
1228031136	26.7	27.9	1.25	30.0	0.930	8.66	356	0.4	< 0.5	109	304	2	13	5	92	1.89	8	18	42	< 0.5	< 2	1.63	7
1234005450	12.2	17.7	5.53	15.0	1.18	9.37	11	0.2	< 0.5	18	503	< 1	19	< 2	120	2.15	14	< 10	79	< 0.5	< 2	1.52	11
1228031131	22.3	11.4	-10.9	25.7	0.442	8.68	205	0.8	< 0.5	299	296	1	10	2	36	1.83	11	11	33	< 0.5	5	0.85	11
1228031097	38.5	51.5	12.9	43.2	1.19	8.63	140	0.5	0.7	12	411	< 1	12	3	229	2.26	10	19	35	< 0.5	< 2	1.52	9
1228031179	16.1	12.1	-4.05	19.6	0.617	8.60	199	0.3	< 0.5	61	340	1	6	6	122	1.66	6	25	44	< 0.5	3	2.08	7
1228031010	27.4	33.0	5.66	31.9	1.04	8.65	108	0.8	< 0.5	25	755	1	15	3	127	2.73	13	14	33	< 0.5	< 2	2.07	12
1228031091	27.7	20.6	-7.14	30.3	0.678	8.82	93	< 0.2	< 0.5	11	185	2	10	< 2	56	1.43	3	11	37	< 0.5	< 2	1.14	4
1228031016	22.9	33.0	10.1	26.3	1.25	8.86	63	0.5	< 0.5	26	819	< 1	18	9	90	2.11	21	< 10	43	< 0.5	2	1.95	11
1228031025	20.6	20.4	-0.180	23.3	0.878	8.83	51	0.3	< 0.5	17	216	1	11	4	65	1.70	7	< 10	36	< 0.5	4	1.12	9
12270111015	70.8	18.1	-52.7	77.5	0.234	8.68	91	0.8	1.2	159	487	5	14	3	431	1.72	10	< 10	15	< 0.5	3	1.28	11
1228031021	30.2	18.1	-12.1	33.1	0.547	8.68	106	0.7	< 0.5	35	510	2	8	< 2	88	2.63	12	15	36	< 0.5	< 2	1.51	10
1227011052	81.3	11.6	-69.7	87.0	0.133	8.56	135	0.6	< 0.5	139	465	1	8	8	61	2.31	15	< 10	13	< 0.5	3	1.16	8
1227011100	116	7.85	-108	121	0.0651	8.31	260	3.1	< 0.5	4	298	3	20	8	60	1.24	23	< 10	< 10	< 0.5	20	0.50	17
1227011072	94.3	12.0	-82.3	101	0.119	8.43	976	0.9	< 0.5	288	480	< 1	9	7	62	2.01	13	< 10	13	< 0.5	5	1.02	10
1228031035	27.2	9.99	-17.2	26.6	0.375	8.78	29	< 0.2	< 0.5	24	209	2	9	< 2	47	2.57	< 2	10	37	< 0.5	6	1.36	7
1228031140	36.7	20.9	-15.8	40.1	0.520	8.57	211	0.5	0.7	47	377	2	15	7	186	1.75	11	15	28	< 0.5	< 2	1.20	11
1229053034	33.0	15.8	-17.2	36.4	0.435	8.85	87	0.7	< 0.5	27	387	< 1	14	2	158	1.58	12	< 10	25	< 0.5	4	0.87	10
1228031031	12.2	6.24	-5.95	11.9	0.523	8.87	59	< 0.2	< 0.5	32	208	2	9	< 2	63	2.37	3	< 10	34	< 0.5	3	0.91	8
v845146							933	2.5	< 0.5	61	412	11	16	6	62	1.50	< 2	< 10	82	< 0.5	< 2	1.34	18

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227020122	136	3.73	< 10	< 1	0.21	14	1.41	0.184	0.041	1.89	3	1	105	0.02	1	< 2	< 10	18	< 10	3	20	0.16	1.76
1227020084	112	4.67	< 10	1	0.28	12	2.42	0.061	0.046	2.93	4	2	33	0.01	< 1	< 2	< 10	31	< 10	4	25	0.14	2.83
1234005527	174	2.37	< 10	< 1	0.28	19	0.87	0.087	0.046	0.56	3	2	48	0.04	< 1	< 2	< 10	21	< 10	3	11	0.39	0.57
1227020111	111	2.91	< 10	< 1	0.18	13	1.30	0.103	0.042	1.88	2	1	69	< 0.01	< 1	< 2	< 10	15	< 10	2	16	0.13	1.72
V845143	13	3.43	< 10	< 1	0.22	11	0.54	0.242	0.059	0.06	2	4	38	0.45	< 1	< 2	< 10	97	< 10	17	13	0.01	0.06
1227020107	99	5.50	< 10	1	0.24	13	2.36	0.120	0.036	3.94	4	1	59	0.01	3	< 2	< 10	17	< 10	3	25	0.11	4.11
1227020077	72	4.99	< 10	2	0.27	16	2.96	0.023	0.048	3.68	3	1	13	< 0.01	< 1	< 2	< 10	20	< 10	3	22	0.10	3.67
1228031330	112	3.35	< 10	< 1	0.23	15	0.95	0.049	0.038	1.56	< 2	< 1	54	< 0.01	< 1	< 2	< 10	13	< 10	2	8	0.21	1.41
1234005482	234	2.43	< 10	< 1	0.53	24	1.44	0.123	0.062	0.39	3	3	65	0.12	2	< 2	< 10	41	< 10	4	15	0.34	0.39
1234005426	191	2.08	< 10	< 1	0.20	17	0.76	0.059	0.046	0.34	2	2	31	0.08	4	< 2	< 10	24	< 10	3	12	0.33	0.32
1228031283	96	3.34	< 10	< 1	0.24	14	1.03	0.060	0.037	1.22	2	1	59	< 0.01	< 1	< 2	< 10	15	< 10	2	8	0.23	1.12
1228031286	185	2.69	< 10	< 1	0.22	12	0.84	0.061	0.037	1.16	3	< 1	45	< 0.01	< 1	< 2	< 10	11	< 10	2	9	0.32	1.03
1228031260	78	3.11	< 10	< 1	0.24	15	0.98	0.054	0.037	1.17	< 2	< 1	39	< 0.01	1	< 2	< 10	12	< 10	2	10	0.18	1.12
1234005460	183	1.93	< 10	< 1	0.25	17	0.93	0.090	0.044	0.38	< 2	2	50	0.09	3	< 2	< 10	26	< 10	3	14	0.35	0.36
1228031336	130	2.85	< 10	< 1	0.26	12	1.16	0.042	0.034	1.03	3	< 1	42	< 0.01	< 1	< 2	< 10	13	< 10	1	5	0.18	0.90
1234005313	165	2.36	< 10	< 1	0.28	21	1.10	0.086	0.053	0.19	< 2	3	80	0.11	< 1	< 2	< 10	33	< 10	4	14	0.37	0.19
1234005330	130	2.13	< 10	< 1	0.28	16	0.80	0.108	0.042	0.65	< 2	2	55	0.07	< 1	< 2	< 10	22	< 10	3	22	0.40	0.59
1228031150	134	2.12	< 10	< 1	0.19	30	0.98	0.147	0.037	0.69	2	2	75	0.02	1	3	< 10	18	< 10	4	8	0.20	0.61
1228031266	182	2.50	< 10	< 1	0.25	19	0.84	0.146	0.040	1.70	< 2	1	71	< 0.01	< 1	< 2	< 10	13	< 10	3	11	0.32	1.55
1228031167	134	2.44	< 10	< 1	0.22	17	1.27	0.089	0.045	1.28	< 2	2	86	0.03	< 1	< 2	< 10	17	< 10	2	13	0.29	1.16
1227011016	89	4.32	< 10	< 1	0.25	15	1.14	0.043	0.039	4.34	3	< 1	28	< 0.01	2	< 2	< 10	7	< 10	2	20	0.10	4.11
1227011058	77	4.36	< 10	< 1	0.28	15	1.12	0.032	0.037	4.21	< 2	< 1	22	< 0.01	1	< 2	< 10	8	< 10	2	18	0.15	3.98
1228031209	139	2.35	< 10	< 1	0.30	16	1.01	0.029	0.043	1.15	< 2	< 1	30	< 0.01	3	< 2	< 10	11	< 10	1	5	0.61	0.98
1228031147	131	1.79	< 10	< 1	0.21	15	0.82	0.107	0.041	1.32	< 2	< 1	72	< 0.01	< 1	< 2	< 10	8	< 10	1	7	0.20	1.17
1227011013	126	5.55	< 10	< 1	0.25	18	0.81	0.025	0.036	6.05	< 2	< 1	15	< 0.01	3	< 2	< 10	6	< 10	2	17	0.10	5.81
1228031102	129	2.68	< 10	< 1	0.25	34	1.71	0.121	0.088	1.36	< 2	2	81	< 0.01	< 1	< 2	< 10	24	< 10	4	3	0.41	1.23
V845144	12	3.89	< 10	< 1	0.31	12	0.70	0.184	0.071	0.07	< 2	5	33	0.41	< 1	< 2	< 10	118	< 10	16	12	0.03	0.07
1230093470	195	2.51	< 10	< 1	0.17	18	1.05	0.091	0.052	1.66	< 2	1	51	< 0.01	4	< 2	< 10	13	< 10	2	6	0.41	1.60
1227007078	227	2.67	< 10	< 1	0.14	12	0.87	0.065	0.038	2.02	< 2	1	28	0.01	2	< 2	< 10	17	< 10	3	15	0.28	1.88
1227010006	204	2.39	< 10	< 1	0.18	14	0.95	0.141	0.041	1.97	< 2	1	63	0.05	3	< 2	< 10	15	< 10	3	18	0.26	1.87
1227010003	179	2.51	< 10	< 1	0.18	16	0.62	0.127	0.045	2.33	< 2	< 1	57	0.04	< 1	< 2	< 10	12	< 10	3	21	0.29	2.14
1227010046	125	2.61	< 10	< 1	0.16	20	1.15	0.142	0.048	2.38	< 2	< 1	55	< 0.01	3	< 2	< 10	9	< 10	3	15	0.23	2.20
1227008250	62	2.15	< 10	< 1	0.17	18	1.13	0.067	0.053	0.48	2	1	103	< 0.01	3	< 2	< 10	13	< 10	2	2	0.28	0.44
1227010095	167	2.80	< 10	< 1	0.17	16	1.35	0.151	0.045	2.23	2	1	67	< 0.01	< 1	< 2	< 10	12	< 10	3	15	0.28	2.12
1227010064	134	2.84	< 10	< 1	0.15	18	1.35	0.092	0.042	2.42	4	< 1	37	< 0.01	1	< 2	< 10	10	< 10	3	15	0.28	2.33
1230093483	135	3.05	< 10	< 1	0.23	17	1.07	0.184	0.050	2.01	< 2	2	92	0.03	3	< 2	< 10	26	< 10	4	23	0.32	1.98
1227010200	316	3.18	< 10	< 1	0.39	52	2.44	0.088	0.119	0.81	< 2	6	253	0.07	2	< 2	< 10	49	< 10	6	4	1.07	0.82
1227010069	102	3.08	< 10	< 1	0.19	16	1.11	0.051	0.042	2.77	2	< 1	25	< 0.01	1	< 2	< 10	9	< 10	3	17	0.11	2.64
1227010106	163	3.01	< 10	< 1	0.17	19	1.22	0.153	0.049	2.25	< 2	< 1	67	0.01	2	< 2	< 10	12	< 10	3	15	0.29	2.18
1227010156	87	3.64	< 10	< 1	0.16	17	1.51	0.078	0.046	2.95	< 2	1	36	< 0.01	1	2	< 10	14	< 10	3	18	0.27	2.93
1227010163	229	2.71	< 10	< 1	0.16	14	1.30	0.073	0.041	1.63	2	1	41	0.02	1	< 2	< 10	13	< 10	4	13	0.15	1.48
1227010220	82	1.46	< 10	< 1	0.29	51	0.46	0.053	0.071	0.54	< 2	< 1	106	< 0.01	2	< 2	< 10	7	< 10	4	1	0.59	0.51
1234005438	119	2.03	< 10	< 1	0.21	14	0.82	0.075	0.041	0.19	< 2	2	37	0.08	< 1	< 2	< 10	23	< 10	3	14	0.26	0.19
1227010170	110	2.36	< 10	< 1	0.22	13	1.43	0.070	0.038	1.57	< 2	< 1	35	0.02	1	< 2	< 10	10	< 10	2	19	0.12	1.48
1227011113	81	4.06	< 10	< 1	0.21	13	1.40	0.025	0.041	3.33	< 2	< 1	11	< 0.01	2	< 2	< 10	8	< 10	2	20	0.03	3.02
1227011162	97	2.83	< 10	< 1	0.20	14	1.45	0.052	0.042	1.82	< 2	1	29	0.03	2	< 2	< 10	14	< 10	2	20	0.21	1.73
1227010211	232	2.46	< 10	< 1	0.19	23	1.15	0.064	0.054	1.38	< 2	< 1	49	< 0.01	1	2	< 10	12	< 10	3	3	0.76	1.28
1227012361	88	2.49	< 10	< 1	0.21	15	1.04	0.023	0.047	1.85	< 2	< 1	24	0.02	< 1	< 2	< 10	9	< 10	2	11	0.11	1.71
1227011199	172	2.12	< 10	< 1	0.17	13	1.06	0.116	0.037	1.03	< 2	< 1	52	< 0.01	< 1	< 2	< 10	10	< 10	2	8	0.23	0.96
V845145	14	3.19	< 10	< 1	0.23	11	0.55	0.246	0.060	0.06	< 2	4	39	0.46	3	2	< 10	98	< 10	17	11	< 0.01	0.05
1228031136	180	2.09	< 10	< 1	0.26	18	0.93	0.141	0.043	1.09	< 2	1	75	< 0.01	< 1	< 2	< 10	13	< 10	2	6	0.45	0.98

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1234005450	115	2.38	< 10	< 1	0.43	22	1.16	0.141	0.057	0.51	< 2	2	90	0.09	2	< 2	< 10	32	< 10	4	19	0.18	0.49
1228031131	172	2.06	< 10	< 1	0.21	14	0.94	0.105	0.039	0.92	< 2	< 1	60	< 0.01	< 1	< 2	< 10	10	< 10	2	6	0.24	0.84
1228031097	109	2.29	< 10	< 1	0.24	17	1.11	0.108	0.042	1.54	2	1	65	< 0.01	4	< 2	< 10	11	< 10	2	7	0.48	1.41
1228031179	90	1.72	< 10	< 1	0.28	12	0.72	0.068	0.036	0.67	< 2	< 1	58	< 0.01	< 1	< 2	< 10	10	< 10	2	5	0.55	0.64
1228031010	113	2.92	< 10	< 1	0.19	22	1.45	0.147	0.054	1.09	< 2	3	70	< 0.01	< 1	< 2	< 10	29	< 10	4	6	0.44	1.04
1228031091	179	1.56	< 10	< 1	0.20	14	0.82	0.114	0.036	1.02	< 2	< 1	58	< 0.01	2	< 2	< 10	10	< 10	2	7	0.29	0.99
1228031016	153	2.39	< 10	< 1	0.26	27	1.38	0.123	0.061	0.89	< 2	2	49	0.03	< 1	< 2	< 10	27	< 10	4	11	0.39	0.86
1228031025	164	1.67	< 10	< 1	0.21	16	1.01	0.103	0.040	0.82	< 2	1	52	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.23	0.76
12270111015	213	2.69	< 10	< 1	0.19	14	1.08	0.142	0.043	2.57	2	1	77	0.01	2	< 2	< 10	13	< 10	3	20	0.27	2.53
1228031021	56	2.05	< 10	< 1	0.23	16	1.14	0.162	0.041	1.13	< 2	< 1	77	< 0.01	< 1	< 2	< 10	11	< 10	2	9	0.21	1.08
1227011052	92	3.02	< 10	< 1	0.18	15	1.15	0.098	0.043	2.78	2	< 1	64	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.18	2.84
1227011100	129	3.71	< 10	< 1	0.25	15	0.92	0.042	0.036	4.16	3	< 1	19	< 0.01	8	3	< 10	5	< 10	2	23	0.22	3.94
1227011072	103	3.62	< 10	< 1	0.24	17	1.13	0.061	0.041	3.33	< 2	< 1	44	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.21	3.29
1228031035	111	1.64	< 10	< 1	0.16	17	1.01	0.180	0.044	0.95	< 2	1	145	< 0.01	< 1	< 2	< 10	11	< 10	2	3	0.13	0.87
1228031140	184	2.74	< 10	< 1	0.23	17	0.84	0.071	0.041	1.44	2	2	51	< 0.01	< 1	< 2	< 10	18	< 10	3	10	0.28	1.31
1229053034	181	2.31	< 10	< 1	0.22	13	1.05	0.070	0.039	1.31	< 2	< 1	49	< 0.01	< 1	< 2	< 10	11	< 10	2	4	0.37	1.19
1228031031	121	1.45	< 10	< 1	0.16	17	0.98	0.153	0.040	0.45	< 2	< 1	79	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.11	0.39
v845146	12	3.93	< 10	< 1	0.31	12	0.70	0.189	0.069	0.07	2	6	34	0.41	7	< 2	< 10	120	< 10	17	11	0.03	0.08

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1050	1	22	94	130	6.30	244	< 10	713	0.9	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	70	1090	1	23	103	134	6.44	228	< 10	728	0.9	< 2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (Aqua Regia) Meas								38.4		> 10000				255	1180						< 2		102
OREAS 98 (Aqua Regia) Cert								42.8		14700 0.0				343	1302						92.8		111
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.12																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2100	752	< 1	31	57	264	2.60	3		85	0.8	4	0.43	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2270	788	< 1	36	59	286	2.65	2		76	0.8	< 2	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4170	862	< 1	30	81	343	2.62	8		68	0.7	14	0.43	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	885	< 1	33	81	350	2.66	6		58	0.7	20	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	429						32		46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				92	445						25		50
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							541																
OREAS 218 Cert							531																
OREAS 218 Meas							527																
OREAS 218 Cert							531																
OREAS 218 Meas							538																
OREAS 218 Cert							531																
Oreas 621 (Aqua Regia) Meas								65.2	260	3290	514	13	22	> 5000	> 10000	1.53	73			0.6	6	1.62	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.4	276	3520	541	12	25	> 5000	> 10000	1.53	74			0.6	5	1.55	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										329	175	< 1	223	12	28	6.77			130	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	172	< 1	228	16	28	6.65			136	1.1	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2970																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1228031330 Orig								0.5	1.0	203	326	2	9	5	274	2.11	18	10	25	< 0.5	2	0.96	17
1228031330 Dup								0.6	1.2	203	320	2	9	7	269	2.12	19	10	26	< 0.5	2	0.97	19
1234005426 Orig							10																
1234005426 Dup							9																
1228031167 Orig							142																
1228031167 Dup							140																
1228031209 Orig								1.0	3.2	34	379	2	11	460	851	1.43	11	< 10	40	< 0.5	3	1.80	9
1228031209 Dup								1.2	3.8	39	420	2	12	514	936	1.57	12	< 10	42	< 0.5	4	1.98	10
1227010006 Orig							93																
1227010006 Dup							93																
1227010003 Orig																							
1227010003 Dup																							
1227010046 Orig								1.0	1.3	99	416	< 1	8	4	419	1.65	13	< 10	19	< 0.5	5	1.19	10
1227010046 Dup								1.3	1.3	103	430	1	8	4	424	1.72	13	< 10	20	< 0.5	8	1.24	10
1227010163 Orig																							
1227010163 Dup																							
1227011113 Orig							255																
1227011113 Dup							300																
1227012361 Orig	45.2	5.87	-39.3	52.4	0.112																		
1227012361 Dup	45.2	5.87	-39.3	52.4	0.112																		
1228031136 Orig								0.4	0.5	119	309	3	16	6	96	1.90	9	18	44	< 0.5	< 2	1.65	8
1228031136 Dup								0.4	< 0.5	98	299	2	11	4	88	1.89	7	18	40	< 0.5	< 2	1.62	6
1234005450 Orig																							
1234005450 Dup																							
1228031179 Orig							203																
1228031179 Dup							194																
1227011052 Orig																							
1227011052 Dup																							
1228031035 Orig							30																
1228031035 Dup							28																
1229053034 Orig						8.85																	
1229053034 Dup						8.85																	
1228031031 Orig	12.2	6.24	-5.95	11.9	0.523																		
1228031031 Dup	12.2	6.24	-5.95	11.9	0.522																		
v845146 Orig																							
v845146 Dup																							
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	83	5.47	20	< 1	1.15	11	0.40	0.112	0.035	0.01	5	21	31		< 1	< 2	< 10	170	< 10	5	11		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	86	5.66	20	< 1	1.14	10	0.40	0.113	0.035	0.01	3	21	31		< 1	< 2	< 10	174	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
SGR-1b Meas																						27.7	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.50
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.55
SGR-1b Cert																						28	1.53
OREAS 98 (Aqua Regia) Meas											18												
OREAS 98 (Aqua Regia) Cert											14.7												
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	4.89	< 10		0.53	39	1.31	0.031	0.061	0.36	< 2	4	16			< 2	< 10	37	< 10	22	26		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.26	< 10		0.49	40	1.41	0.031	0.064	0.39	3	4	17			< 2	< 10	37	< 10	22	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	5.69	< 10		0.45	37	1.42		0.058	0.66	4	4	15			< 2	< 10	36	< 10	20	31		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	6.02	< 10		0.42	37	1.50		0.062	0.70	3	4	15			< 2	< 10	36	< 10	20	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.64	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.20	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	31	3.07	10	3	0.37	20	0.41	0.150	0.032	4.33	107	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.25	< 10	4	0.36	19	0.43	0.150	0.033	4.33	101	2	17			< 2	< 10	13	< 10	8	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	358	13.3	20	< 1	0.11	12	0.18	0.045	0.021	0.02		28	15	0.14		< 2	< 10	205		5	23		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	377	14.1	20	< 1	0.11	11	0.18	0.046	0.021	0.02		29	15	0.10		< 2	< 10	209		6	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.04	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
1228031330 Orig	113	3.36	< 10	< 1	0.23	15	0.96	0.049	0.038	1.51	< 2	< 1	53	< 0.01	< 1	< 2	< 10	14	< 10	2	8		
1228031330 Dup	110	3.34	< 10	< 1	0.24	14	0.95	0.050	0.038	1.60	3	< 1	54	< 0.01	2	< 2	< 10	13	< 10	2	8		
1234005426 Orig																						0.33	0.32
1234005426 Dup																						0.33	0.32
1228031167 Orig																						0.29	1.15
1228031167 Dup																						0.29	1.16
1228031209 Orig	132	2.23	< 10	< 1	0.29	15	0.96	0.029	0.041	1.09	2	< 1	28	< 0.01	4	< 2	< 10	10	< 10	1	5		
1228031209 Dup	145	2.48	< 10	< 1	0.31	17	1.07	0.030	0.046	1.21	< 2	< 1	31	< 0.01	2	< 2	< 10	11	< 10	1	6		
1227010006 Orig																							
1227010006 Dup																							
1227010003 Orig																						0.29	2.10
1227010003 Dup																						0.30	2.18
1227010046 Orig	123	2.55	< 10	< 1	0.16	20	1.13	0.139	0.048	2.33	2	< 1	53	< 0.01	4	< 2	< 10	9	< 10	3	14		
1227010046 Dup	128	2.67	< 10	< 1	0.17	20	1.17	0.146	0.048	2.43	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	3	17		
1227010163 Orig																						0.16	1.50
1227010163 Dup																						0.15	1.46
1227011113 Orig																							
1227011113 Dup																							
1227012361 Orig																							
1227012361 Dup																							
1228031136 Orig	183	2.13	< 10	< 1	0.26	18	0.94	0.141	0.043	1.10	< 2	1	75	< 0.01	< 1	< 2	< 10	13	< 10	2	7		
1228031136 Dup	177	2.05	< 10	< 1	0.26	18	0.92	0.140	0.043	1.07	< 2	1	75	< 0.01	3	< 2	< 10	13	< 10	2	5		
1234005450 Orig																						0.18	0.49
1234005450 Dup																						0.18	0.48
1228031179 Orig																							
1228031179 Dup																							
1227011052 Orig																						0.18	2.81
1227011052 Dup																						0.18	2.86
1228031035 Orig																							
1228031035 Dup																							
1229053034 Orig																							
1229053034 Dup																							
1228031031 Orig																							
1228031031 Dup																							
v845146 Orig																						0.03	0.08
v845146 Dup																						0.03	0.08
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-00327**
Report Date:	**05-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-01-19 15:50:16
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-01-23 19:57:11

REPORT **A20-00327**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Report No.:	**A20-00327**
Report Date:	**05-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-01-28 21:12:12
4F-C, S	Infrared	2020-01-28 21:15:24

REPORT **A20-00327**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227002001	20.6	6.86	-13.8	20.2	0.339	8.76	46	< 0.2	< 0.5	33	533	< 1	10	8	190	2.85	3	< 10	46	< 0.5	3	1.44	11
1228025003	40.7	24.7	-16.0	44.7	0.553	9.04	24	0.5	2.9	13	668	< 1	12	17	875	1.72	9	< 10	28	< 0.5	< 2	1.84	9
1227002039	38.4	14.9	-23.6	37.7	0.395	8.63	101	< 0.2	< 0.5	20	314	1	10	5	80	2.27	17	< 10	31	< 0.5	2	1.27	10
1227002010	22.2	4.61	-17.6	21.7	0.212	8.73	57	< 0.2	< 0.5	18	509	< 1	9	5	93	2.57	4	< 10	37	< 0.5	3	1.15	8
1227002054	62.8	7.86	-54.9	68.6	0.115	8.42	141	0.7	6.6	98	483	2	10	8	1830	2.41	10	< 10	22	< 0.5	2	1.21	8
1227002155	67.2	8.87	-58.3	72.0	0.123	8.90	346	1.5	< 0.5	241	415	3	11	7	70	2.73	12	< 10	19	< 0.5	4	1.45	8
1227002118	72.9	12.4	-60.5	78.1	0.159	8.88	179	0.9	1.2	107	488	< 1	11	10	348	2.52	7	< 10	20	< 0.5	3	1.45	10
1229050084	54.9	30.6	-24.3	60.0	0.510	8.83	70	0.8	2.2	44	1010	< 1	11	21	514	1.29	52	< 10	22	< 0.5	4	1.35	9
1227002022	23.1	10.7	-12.4	22.7	0.473	8.94	35	0.3	< 0.5	41	544	1	11	8	112	2.38	8	< 10	45	< 0.5	2	1.79	8
1229050184	54.4	16.5	-37.8	57.9	0.286	8.30	156	3.3	1.4	42	765	< 1	18	58	354	1.39	87	< 10	20	< 0.5	< 2	1.19	13
1227002147	35.8	25.9	-9.96	38.9	0.665	9.09	351	0.8	0.7	32	860	1	17	16	225	1.78	13	< 10	38	< 0.5	< 2	1.84	11
1229050116	37.1	28.0	-9.09	40.1	0.698	8.85	75	1.2	0.6	25	744	< 1	14	31	100	1.56	32	< 10	30	< 0.5	2	1.60	10
1229050189	65.0	40.2	-24.8	70.4	0.570	8.96	148	2.5	0.7	24	1160	< 1	13	93	276	1.70	54	< 10	26	< 0.5	< 2	2.02	10
1229050277	59.2	56.7	-2.44	63.7	0.890	8.67	92	2.2	< 0.5	25	1160	< 1	14	11	71	1.34	59	< 10	26	< 0.5	4	2.56	11
1227002110	37.4	8.62	-28.8	40.4	0.213	8.66	480	0.8	< 0.5	167	582	5	9	6	96	2.54	13	< 10	36	< 0.5	3	1.24	10
1230057352	24.2	52.8	28.7	27.6	1.92	8.96	182	1.3	< 0.5	67	757	< 1	8	21	115	1.14	126	< 10	41	< 0.5	3	2.26	6
1227002092	50.9	8.24	-42.7	54.5	0.151	8.78	553	1.1	< 0.5	135	429	3	10	6	76	2.17	11	< 10	25	< 0.5	< 2	1.00	8
1227002254	62.8	8.88	-53.9	66.5	0.134	9.01	548	1.3	0.5	146	541	4	10	3	96	1.86	16	< 10	16	< 0.5	< 2	1.18	11
1228026226	89.4	9.11	-80.3	94.0	0.0969	8.77	603	1.7	< 0.5	532	372	< 1	6	11	106	1.23	28	< 10	12	< 0.5	10	0.70	5
V845130							122	1.7	< 0.5	58	352	5	12	10	66	1.39	< 2	< 10	75	< 0.5	< 2	1.16	14
1227002200	73.7	7.46	-66.3	79.0	0.0944	8.91	229	0.8	1.3	73	528	< 1	13	12	338	1.95	10	< 10	16	< 0.5	4	1.36	10
1227002173	50.7	8.09	-42.6	53.9	0.150	9.02	695	0.8	< 0.5	158	451	3	11	20	72	2.99	15	< 10	31	< 0.5	2	1.87	9
1227002205	63.1	7.72	-55.4	67.4	0.115	8.86	1230	1.1	< 0.5	320	533	3	10	8	57	2.98	10	< 10	19	< 0.5	3	1.81	11
1229050193	51.6	1.37	-50.2	54.5	0.0251	8.12	468	2.9	< 0.5	47	627	1	14	67	256	1.40	206	< 10	18	< 0.5	< 2	0.25	12
1228026280	75.2	13.7	-61.5	79.3	0.173	8.81	203	0.3	< 0.5	33	337	< 1	15	4	64	1.42	27	< 10	14	< 0.5	2	1.04	12
1229050279	50.4	26.4	-24.0	54.2	0.487	8.69	81	2.3	< 0.5	35	1090	2	27	31	148	1.79	75	< 10	29	< 0.5	< 2	1.52	17
1227002258	60.1	17.3	-42.8	63.7	0.272	8.54	162	0.8	< 0.5	152	474	4	9	3	88	1.38	7	< 10	20	< 0.5	< 2	1.18	11
1228026212	38.8	12.7	-26.1	42.0	0.304	8.85	57	0.4	< 0.5	45	526	1	7	8	176	2.10	13	12	22	< 0.5	< 2	1.41	7
1229050286	50.5	12.1	-38.4	53.3	0.227	8.76	378	2.3	< 0.5	34	656	< 1	10	16	137	1.05	45	< 10	20	< 0.5	2	0.81	13
1229050250	48.3	12.7	-35.6	51.5	0.247	9.01	49	1.2	0.8	57	954	< 1	12	138	208	2.07	53	< 10	29	< 0.5	3	2.00	8
1228026105	41.1	39.5	-1.61	45.3	0.872	8.83	254	0.6	0.6	139	705	< 1	23	4	397	2.64	18	< 10	37	< 0.5	< 2	2.48	12
1228026230	37.8	9.09	-28.7	43.8	0.208	9.02	902	0.8	< 0.5	204	537	1	9	9	99	2.24	9	< 10	32	< 0.5	< 2	1.48	7
1228026181	25.2	16.8	-8.42	27.9	0.602	8.87	315	0.3	1.1	51	647	1	8	4	475	2.68	7	< 10	41	< 0.5	3	1.96	8
1228026307	51.6	5.62	-45.9	54.2	0.104	8.96	1150	1.3	< 0.5	220	324	< 1	9	8	65	2.00	8	< 10	21	< 0.5	12	1.17	6
1227002239	52.5	9.83	-42.7	56.7	0.173	8.68	249	1.2	0.8	196	563	4	9	2	99	2.08	11	< 10	23	< 0.5	< 2	1.51	10
1228026150	55.8	17.1	-38.7	60.3	0.284	8.73	95	0.9	< 0.5	101	519	3	12	8	194	2.61	16	< 10	29	< 0.5	4	1.63	9
1228026104	45.6	19.5	-26.1	49.9	0.392	8.80	410	0.5	3.5	88	666	< 1	12	6	990	2.84	9	< 10	34	< 0.5	4	1.79	9
1228026215	56.1	10.8	-45.3	59.4	0.182	8.79	203	1.2	< 0.5	107	450	2	9	24	90	2.06	10	< 10	21	< 0.5	4	1.26	8
V845131							1550	9.8	< 0.5	50	348	20	12	6	56	1.41	< 2	< 10	77	< 0.5	< 2	1.18	16
1229050239	20.9	7.62	-13.3	20.5	0.371	8.55	16	0.4	< 0.5	23	368	< 1	10	11	86	1.52	23	< 10	24	< 0.5	3	0.63	8
1227006089	26.3	10.9	-15.4	25.7	0.423	8.95	159	< 0.2	< 0.5	107	381	3	22	< 2	75	3.26	3	< 10	42	< 0.5	< 2	2.63	15
1227006138	58.8	12.5	-46.4	62.2	0.201	8.84	115	0.5	< 0.5	154	373	3	12	10	87	1.49	10	< 10	21	< 0.5	< 2	0.98	9
1228026334	45.9	9.24	-36.7	49.0	0.189	8.96	726	1.6	< 0.5	352	507	2	8	35	72	2.22	6	< 10	30	< 0.5	16	1.28	7
1227006084	47.3	28.0	-19.3	50.8	0.550	8.79	191	0.9	1.9	129	518	3	10	2	525	1.41	15	< 10	20	< 0.5	< 2	1.66	10
1227006148	25.5	17.6	-7.89	28.5	0.619	8.92	50	0.3	< 0.5	144	522	2	30	< 2	154	2.92	< 2	< 10	35	< 0.5	< 2	2.56	19
1227006114	9.06	11.6	2.55	8.88	1.31	9.13	48	< 0.2	0.6	128	534	< 1	38	< 2	131	4.09	2	< 10	18	< 0.5	< 2	3.08	19
1227006064	47.3	14.0	-33.3	52.1	0.269	9.06	129	0.5	< 0.5	61	444	< 1	12	4	132	1.79	8	< 10	25	< 0.5	3	1.20	9
1227006202	58.4	12.0	-46.4	63.1	0.190	8.81	706	1.1	0.6	193	467	2	10	3	194	1.52	18	< 10	17	< 0.5	3	0.94	10
1227006081	55.2	23.1	-32.1	59.1	0.390	9.10	112	0.6	1.9	100	566	3	11	< 2	474	1.09	12	< 10	17	< 0.5	< 2	1.29	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1228026292	38.5	21.2	-17.3	42.3	0.502	9.07	207	0.4	< 0.5	89	484	2	12	11	87	1.54	12	< 10	27	< 0.5	2	1.33	13
1228026339	52.1	11.8	-40.2	55.7	0.213	8.94	824	1.6	< 0.5	332	562	1	8	4	69	1.91	6	< 10	24	< 0.5	10	1.07	8
1227003063	45.5	13.7	-31.9	49.0	0.279	9.08	140	0.5	2.8	120	546	3	16	32	831	0.99	7	< 10	17	< 0.5	< 2	0.78	10
1227006177	72.5	6.89	-65.6	77.2	0.0892	8.98	115	0.7	< 0.5	90	405	6	11	3	135	1.55	11	< 10	15	< 0.5	3	0.68	9
1227006176	64.5	5.62	-58.9	67.4	0.0834	8.91	64	0.2	< 0.5	13	274	2	12	4	44	1.25	8	< 10	14	< 0.5	4	0.62	11
1227003091	63.7	12.1	-51.6	68.3	0.177	9.01	135	0.5	< 0.5	70	536	5	16	53	115	1.16	10	< 10	14	< 0.5	< 2	0.86	12
1227006082	57.1	25.5	-31.6	61.6	0.414	9.15	68	0.4	1.2	87	531	3	10	< 2	394	1.20	14	< 10	18	< 0.5	2	1.40	9
V845132							959	2.4	< 0.5	58	401	10	15	9	59	1.44	< 2	< 10	76	< 0.5	< 2	1.31	18
1228025359	28.0	18.1	-9.96	31.2	0.578	8.89	490	0.7	0.6	301	408	1	11	3	156	1.21	8	< 10	29	< 0.5	< 2	0.90	8
1228025409	23.4	17.3	-6.11	23.0	0.755	9.18	116	0.6	< 0.5	120	413	2	12	4	69	1.33	7	< 10	42	< 0.5	< 2	0.86	8
1229050006	70.1	39.7	-30.4	76.6	0.518	8.83	162	6.0	< 0.5	48	1180	< 1	19	37	140	1.55	69	< 10	17	< 0.5	< 2	1.80	11
1228025392	18.1	16.7	-1.43	17.8	0.940	8.97	56	0.2	< 0.5	61	396	2	10	5	51	2.28	5	< 10	37	< 0.5	< 2	1.07	8
1228025403	2.19	81.1	78.9	2.14	37.8	9.15	7	< 0.2	< 0.5	12	800	< 1	61	3	78	2.40	4	< 10	279	< 0.5	< 2	3.46	25
1228025415	24.7	17.3	-7.36	24.2	0.716	9.05	82	0.4	< 0.5	55	443	1	8	3	108	1.84	5	< 10	43	< 0.5	< 2	1.41	6
1228023295	54.0	24.4	-29.6	58.5	0.417	9.11	70	0.4	< 0.5	93	351	< 1	40	< 2	103	2.15	17	< 10	28	< 0.5	< 2	1.48	12
1229050167	27.8	9.73	-18.1	30.9	0.314	9.12	11	0.5	< 0.5	21	388	3	26	7	114	2.35	13	< 10	37	< 0.5	3	1.67	10
1228025263	11.9	25.1	13.2	11.6	2.16	9.01	21	< 0.2	< 0.5	7	413	2	8	9	76	2.32	3	10	40	< 0.5	< 2	0.98	6
1229050204	16.3	15.8	-0.476	15.9	0.990	8.89	22	0.4	< 0.5	27	434	1	11	10	96	2.00	13	< 10	30	< 0.5	2	1.42	7
1228025019	22.3	15.8	-6.46	25.4	0.623	8.78	191	0.4	1.9	68	467	2	12	3	555	1.73	9	< 10	34	< 0.5	3	0.90	9
1228025199	24.7	13.2	-11.5	24.2	0.547	8.82	67	< 0.2	< 0.5	74	292	2	11	15	41	2.70	< 2	11	26	< 0.5	6	1.14	8
1228025477	24.5	30.1	5.62	27.9	1.08	9.28	115	0.3	< 0.5	98	635	1	37	< 2	136	1.72	4	< 10	23	< 0.5	< 2	1.73	15
1228025053	44.7	28.7	-16.0	49.9	0.574	8.81	102	1.3	3.4	132	564	3	13	5	1120	1.09	10	< 10	23	< 0.5	< 2	1.36	9
1228025113	14.4	19.0	4.67	14.1	1.35	9.35	24	< 0.2	< 0.5	14	682	1	11	< 2	108	1.30	4	< 10	51	< 0.5	< 2	0.88	9
1228025030	18.8	22.5	3.73	18.4	1.22	8.83	35	0.2	< 0.5	27	458	2	10	8	99	1.97	6	< 10	53	< 0.5	2	1.22	7
1228025208	23.6	8.15	-15.5	26.3	0.309	8.75	583	1.2	< 0.5	304	499	2	10	2	96	2.47	6	< 10	47	< 0.5	< 2	1.27	8
1228025040	46.0	17.2	-28.9	49.9	0.344	8.51	153	1.7	1.5	81	489	2	15	6	468	1.62	18	< 10	19	< 0.5	< 2	1.22	10
1228025150	0.510	54.8	54.3	6.74	8.13	9.00	19	< 0.2	< 0.5	54	715	< 1	35	14	76	2.36	2	< 10	219	< 0.5	< 2	2.65	21
1229050081	61.5	68.5	6.98	67.1	1.02	8.69	66	2.9	1.2	43	1490	1	12	65	272	1.01	71	< 10	23	< 0.5	< 2	2.49	10
1228025087	24.0	12.2	-11.8	26.6	0.458	8.77	653	1.6	3.3	64	549	1	10	16	864	1.98	15	12	40	< 0.5	4	0.80	9
1229050145	17.9	35.5	17.6	20.8	1.70	8.79	27	0.5	< 0.5	21	783	1	13	15	108	1.72	22	< 10	48	< 0.5	2	1.89	10
V845133							705	3.5	< 0.5	33	272	14	11	15	46	1.12	< 2	< 10	60	< 0.5	< 2	2.05	9
1228023241	36.1	7.73	-28.4	39.8	0.194	9.01	72	0.2	< 0.5	22	315	2	10	3	92	2.69	6	< 10	18	< 0.5	< 2	1.26	10
1230057377	22.2	10.2	-11.9	21.7	0.471	8.62	42	0.2	0.7	44	560	< 1	12	17	124	1.52	23	< 10	53	< 0.5	< 2	0.92	10
1229050064	15.1	25.7	10.6	19.6	1.31	8.86	238	10.0	1.7	107	661	1	17	140	646	2.03	14	< 10	46	< 0.5	< 2	1.73	9
1228023238	52.1	12.6	-39.5	57.0	0.221	8.84	62	0.7	< 0.5	116	405	8	14	< 2	89	3.23	7	< 10	24	< 0.5	3	1.33	9
1230057164	25.0	11.6	-13.4	24.5	0.474	8.30	55	0.3	< 0.5	25	230	< 1	11	6	142	1.50	28	< 10	23	< 0.5	2	0.82	7
1230057346	7.19	13.0	5.79	7.04	1.84	8.62	22	0.2	< 0.5	105	676	< 1	45	< 2	54	4.50	< 2	< 10	20	< 0.5	< 2	3.61	21
1229050100	25.9	30.9	4.93	30.3	1.02	8.81	10	0.3	< 0.5	43	404	< 1	19	6	87	1.50	12	< 10	41	< 0.5	< 2	1.59	9
1228023314	51.7	8.37	-43.3	55.4	0.151	8.51	57	0.5	< 0.5	81	259	1	11	< 2	58	2.50	11	< 10	26	< 0.5	6	1.11	10
1230057040	18.8	7.12	-11.6	18.4	0.387	8.29	19	< 0.2	< 0.5	26	302	< 1	17	2	37	2.12	16	< 10	47	< 0.5	< 2	0.73	11
1228023249	51.3	15.8	-35.5	55.4	0.286	8.77	22	0.5	0.7	102	286	3	13	2	122	2.40	10	< 10	23	< 0.5	< 2	1.19	7
1229050202	15.6	14.6	-1.00	15.3	0.955	8.73	9	0.4	< 0.5	21	405	< 1	9	8	61	2.39	14	< 10	34	< 0.5	3	1.72	6
1230057163	8.44	3.99	-4.45	8.27	0.483	8.00	< 5	< 0.2	< 0.5	13	162	< 1	7	2	56	1.79	16	< 10	11	< 0.5	< 2	0.52	7
1228025404	41.8	22.0	-19.8	47.8	0.460	8.59	113	1.0	< 0.5	256	412	2	19	10	61	1.48	22	< 10	25	< 0.5	4	1.08	10
1228025504	29.0	11.7	-17.2	32.5	0.362	8.85	86	0.5	< 0.5	104	479	2	22	3	83	1.69	5	< 10	30	< 0.5	< 2	0.98	7
1230057169	29.0	53.6	24.6	34.0	1.58	8.79	71	0.6	1.1	20	816	< 1	12	33	299	1.60	53	< 10	34	< 0.5	2	2.47	6
V845134							1150	4.6	< 0.5	22	145	8	5	< 2	27	0.60	< 2	< 10	22	< 0.5	< 2	0.64	4
1228027170	25.3	21.2	-4.09	29.7	0.714	8.59	99	0.7	3.3	55	771	< 1	9	57	1090	2.24	11	10	35	< 0.5	< 2	1.40	8
1228027056	66.2	23.3	-42.9	72.6	0.322	8.63	284	4.2	0.9	280	584	< 1	12	27	276	1.61	42	11	19	< 0.5	< 2	1.26	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1228027177	47.0	6.87	-40.1	50.5	0.136	8.58	964	1.6	< 0.5	447	484	< 1	10	27	116	1.84	19	< 10	26	< 0.5	7	0.83	8
1227004186	61.0	26.8	-34.2	65.8	0.407	8.55	629	7.5	3.3	92	932	1	12	96	799	1.60	42	< 10	17	< 0.5	3	1.66	9
1228027209	19.1	24.8	5.77	18.7	1.33	8.73	38	0.8	< 0.5	28	934	< 1	11	47	180	2.40	7	< 10	37	< 0.5	< 2	1.97	7
1228027102	59.3	28.4	-30.8	66.8	0.426	8.59	512	2.3	8.0	227	642	< 1	12	99	2340	1.61	23	11	23	< 0.5	3	1.58	9
1229051194	15.7	43.0	27.3	20.2	2.13	8.76	121	< 0.2	0.9	28	653	< 1	8	7	221	1.18	11	< 10	40	< 0.5	< 2	2.09	9
1227004047	26.2	18.0	-8.26	30.6	0.587	8.59	602	0.7	1.5	70	641	1	9	11	406	2.49	18	< 10	46	< 0.5	< 2	1.89	11
1229051122	4.38	7.37	2.99	4.29	1.72	9.16	10	< 0.2	< 0.5	115	458	< 1	41	32	116	4.43	< 2	< 10	19	< 0.5	< 2	3.56	22
1227006045	60.0	11.6	-48.4	64.9	0.179	8.67	85	0.5	1.1	96	500	4	14	< 2	294	1.18	13	< 10	15	< 0.5	< 2	0.91	10
1228027308	41.7	9.24	-32.4	44.4	0.208	8.55	313	1.1	0.5	80	619	2	10	38	290	2.31	18	< 10	27	< 0.5	7	1.03	9
1227003029	46.0	15.7	-30.3	49.6	0.317	8.78	219	0.4	< 0.5	93	510	3	14	< 2	129	1.26	7	< 10	22	< 0.5	< 2	1.09	9
1227004062	72.9	17.0	-56.0	78.4	0.216	8.44	78	1.0	2.4	39	592	2	11	7	604	2.15	7	< 10	17	< 0.5	4	1.49	9
1234003105	11.3	21.2	9.95	11.0	1.92	8.75	9	0.3	0.7	28	630	< 1	23	25	130	1.41	6	< 10	50	< 0.5	< 2	1.54	12
1234003137	13.8	17.0	3.23	13.5	1.26	8.55	32	0.3	< 0.5	30	389	< 1	17	30	95	1.24	7	< 10	49	< 0.5	< 2	1.20	12
1229051224	2.81	6.75	3.94	2.76	2.45	9.06	5	0.2	< 0.5	131	493	< 1	43	< 2	58	4.50	< 2	< 10	23	< 0.5	< 2	3.47	25
1229051152	3.75	8.23	4.48	3.67	2.24	8.86	7	< 0.2	< 0.5	113	513	< 1	41	11	63	4.82	< 2	< 10	20	< 0.5	< 2	3.64	22
1227003023	50.3	9.23	-41.1	54.2	0.170	8.67	173	1.2	< 0.5	260	473	4	11	2	70	1.77	8	< 10	19	< 0.5	2	1.08	9
1228027263	7.19	23.2	16.0	7.04	3.29	8.91	20	0.4	< 0.5	104	718	< 1	46	< 2	56	4.13	4	10	30	< 0.5	< 2	3.31	25
1227004217	62.6	30.5	-32.1	68.0	0.448	8.29	101	1.3	1.3	44	503	3	12	21	337	1.37	25	< 10	17	< 0.5	2	1.41	10
1227004259	69.6	51.4	-18.2	78.4	0.656	8.56	114	1.8	1.8	57	769	2	14	26	497	1.36	28	< 10	38	< 0.5	4	2.23	10
1228027229	0.940	16.2	15.3	0.919	17.7	8.96	6	1.3	< 0.5	113	640	< 1	48	< 2	54	4.87	< 2	< 10	18	< 0.5	3	3.91	24
1228027288	7.50	19.2	11.7	7.35	2.62	9.04	19	0.7	< 0.5	110	671	< 1	42	< 2	96	4.47	< 2	< 10	27	< 0.5	< 2	3.60	23
1228027150	26.6	20.0	-6.56	29.4	0.680	8.55	62	0.6	< 0.5	34	730	1	12	15	108	1.73	30	< 10	35	< 0.5	2	1.31	8
1229051229	85.0	44.8	-40.2	92.2	0.486	8.57	228	2.5	4.7	54	1090	< 1	16	56	994	1.44	126	< 10	28	< 0.5	< 2	1.85	11
V845135							1600	9.5	< 0.5	50	350	19	12	5	56	1.51	< 2	< 10	73	< 0.5	< 2	1.26	14
1228027044	43.0	68.0	24.9	48.1	1.41	8.71	70	1.8	< 0.5	28	1200	2	18	11	90	1.53	68	< 10	36	< 0.5	< 2	2.97	12
1227004228	32.8	6.74	-26.1	32.2	0.210	8.61	21	0.5	< 0.5	20	157	3	13	9	116	1.47	17	< 10	51	< 0.5	< 2	0.74	10
1229051165	17.5	25.2	7.70	17.1	1.47	8.77	126	1.0	1.9	47	721	< 1	7	12	450	1.67	25	< 10	45	< 0.5	< 2	1.74	5
1227004291	55.1	17.3	-37.8	59.1	0.293	8.68	471	3.5	1.8	54	641	2	10	44	403	2.04	23	< 10	36	< 0.5	4	1.62	10
1228027116	5.62	12.4	6.73	5.51	2.24	9.19	10	0.2	< 0.5	108	494	< 1	43	3	61	4.67	< 2	< 10	25	< 0.5	< 2	3.64	23
1229051133	46.1	58.7	12.6	50.5	1.16	8.94	99	0.8	0.9	18	683	< 1	9	12	254	0.81	55	< 10	39	< 0.5	< 2	2.35	7
1228027035	36.3	53.7	17.3	40.7	1.32	8.79	63	1.7	< 0.5	33	986	2	15	8	119	1.84	46	< 10	39	< 0.5	< 2	2.64	10
1227004200	60.7	35.6	-25.2	66.8	0.533	8.62	64	0.9	1.6	38	676	3	13	33	411	1.97	13	< 10	36	< 0.5	2	2.22	10
1230095040	38.3	10.7	-27.6	42.3	0.254	8.88	142	1.1	4.5	39	583	< 1	12	4	1230	1.64	13	< 10	48	< 0.5	6	0.44	10
1228027038	60.7	49.1	-11.6	67.1	0.733	8.97	91	1.6	1.3	37	1080	1	14	103	444	1.53	94	< 10	35	< 0.5	3	2.26	9
1228027157	7.50	13.0	5.47	7.35	1.76	9.04	22	0.3	0.5	111	661	< 1	45	48	121	4.29	5	< 10	20	< 0.5	< 2	3.32	23
1227005026	78.3	22.1	-56.2	84.5	0.262	8.62	96	1.0	2.7	44	510	1	15	6	755	1.67	8	< 10	26	< 0.5	7	1.21	11
1228027240	79.6	71.9	-7.72	87.0	0.826	8.42	198	2.5	0.6	39	1310	4	16	23	232	1.13	88	< 10	27	< 0.5	< 2	2.75	14
1228027198	55.0	63.7	8.73	60.6	1.05	8.93	116	4.0	0.7	51	891	3	15	22	251	1.23	55	< 10	33	< 0.5	< 2	2.56	11
1227004271	55.6	43.3	-12.3	60.3	0.717	8.58	117	1.9	0.9	31	472	1	12	27	283	1.00	46	< 10	29	< 0.5	3	1.73	9
1227004317	62.3	45.2	-17.0	68.6	0.659	8.77	93	1.1	< 0.5	36	630	< 1	10	16	152	1.04	23	< 10	36	< 0.5	< 2	2.13	9
1227005041	68.9	32.3	-36.6	75.0	0.431	8.98	119	1.0	1.1	30	529	1	15	58	275	1.59	13	< 10	34	< 0.5	3	1.60	11
1227005100	41.8	47.4	5.67	47.2	1.01	8.97	163	1.3	0.9	46	929	1	19	22	174	1.84	30	< 10	42	< 0.5	2	2.04	11

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227002001	126	2.30	< 10	< 1	0.15	18	0.99	0.145	0.050	0.68	3	1	104	0.02	2	2	< 10	14	< 10	3	2	0.28	0.66
1228025003	90	2.07	< 10	< 1	0.16	13	0.80	0.126	0.037	1.54	< 2	1	89	0.03	< 1	< 2	< 10	17	< 10	2	17	0.29	1.46
1227002039	100	1.96	< 10	< 1	0.13	15	0.79	0.107	0.046	1.23	< 2	1	119	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.07	1.23
1227002010	110	2.12	< 10	< 1	0.12	17	0.84	0.097	0.051	0.70	< 2	1	83	0.02	< 1	< 2	< 10	13	< 10	3	2	0.17	0.71
1227002054	87	2.96	< 10	< 1	0.16	20	1.01	0.132	0.048	2.34	2	1	107	< 0.01	< 1	< 2	< 10	10	< 10	3	21	0.05	2.24
1227002155	138	3.29	< 10	< 1	0.17	15	0.92	0.182	0.041	2.31	2	< 1	145	< 0.01	< 1	< 2	< 10	10	< 10	3	18	0.19	2.35
1227002118	88	2.74	< 10	< 1	0.13	17	1.04	0.201	0.046	2.64	< 2	< 1	142	< 0.01	< 1	< 2	< 10	9	< 10	3	18	0.18	2.55
1229050084	61	2.39	< 10	< 1	0.26	14	1.13	0.041	0.045	2.12	< 2	< 1	19	< 0.01	< 1	< 2	< 10	9	< 10	3	10	0.37	1.96
1227002022	154	2.08	< 10	< 1	0.16	18	0.90	0.115	0.047	0.79	2	< 1	106	0.02	< 1	< 2	< 10	12	< 10	3	3	0.46	0.74
1229050184	100	2.64	< 10	< 1	0.21	15	0.85	0.082	0.044	2.01	3	2	22	0.02	< 1	< 2	< 10	25	< 10	3	9	0.22	1.89
1227002147	143	2.28	< 10	< 1	0.19	21	0.80	0.156	0.050	1.33	< 2	1	81	0.04	< 1	< 2	< 10	12	< 10	3	16	0.39	1.27
1229050116	160	2.23	< 10	< 1	0.27	15	0.91	0.098	0.045	1.32	< 2	1	66	0.03	< 1	< 2	< 10	14	< 10	3	13	0.33	1.31
1229050189	62	2.38	< 10	< 1	0.31	16	0.90	0.162	0.045	2.21	< 2	< 1	65	0.02	3	< 2	< 10	10	< 10	3	14	0.47	2.30
1229050277	78	2.29	< 10	< 1	0.25	19	0.53	0.108	0.046	1.97	3	< 1	78	< 0.01	< 1	< 2	< 10	5	< 10	3	4	0.78	2.08
1227002110	71	2.90	< 10	< 1	0.14	16	1.04	0.131	0.041	1.33	< 2	< 1	89	< 0.01	< 1	3	< 10	11	< 10	3	6	0.22	1.32
1230057352	99	1.66	< 10	< 1	0.34	17	0.57	0.043	0.042	0.94	2	< 1	30	< 0.01	< 1	4	< 10	7	< 10	2	2	0.64	0.90
1227002092	79	2.93	< 10	< 1	0.15	15	0.94	0.091	0.043	1.87	< 2	< 1	94	< 0.01	< 1	< 2	< 10	10	< 10	3	11	0.19	1.78
1227002254	81	2.82	< 10	< 1	0.18	14	0.73	0.183	0.039	2.18	2	< 1	87	0.03	< 1	< 2	< 10	13	< 10	3	17	0.11	2.17
1228026226	73	3.29	< 10	< 1	0.19	11	0.83	0.027	0.038	3.14	< 2	< 1	32	< 0.01	< 1	< 2	< 10	5	< 10	1	14	0.15	3.07
V845130	13	3.12	< 10	< 1	0.22	10	0.54	0.238	0.058	0.06	< 2	4	38	0.44	5	5	< 10	97	< 10	16	11	0.02	0.06
1227002200	95	2.58	< 10	< 1	0.12	18	1.10	0.176	0.047	2.63	2	< 1	103	< 0.01	2	< 2	< 10	10	< 10	3	11	0.31	2.58
1227002173	95	2.59	< 10	< 1	0.14	14	0.83	0.222	0.040	1.65	< 2	< 1	155	0.02	4	< 2	< 10	9	< 10	3	14	0.22	1.76
1227002205	82	2.99	< 10	< 1	0.16	14	0.80	0.262	0.038	2.16	< 2	< 1	160	0.02	< 1	< 2	< 10	11	< 10	3	16	0.14	2.20
1229050193	62	2.38	< 10	< 1	0.16	19	0.82	0.027	0.053	1.74	< 2	< 1	14	< 0.01	< 1	< 2	< 10	13	< 10	3	8	0.03	1.78
1228026280	99	2.91	< 10	< 1	0.18	15	0.83	0.057	0.043	2.76	< 2	< 1	44	0.01	< 1	< 2	< 10	8	< 10	2	17	0.16	2.59
1229050279	67	2.45	< 10	< 1	0.29	20	0.97	0.106	0.052	1.87	< 2	< 1	55	0.02	< 1	< 2	< 10	12	< 10	3	12	0.33	1.77
1227002258	94	2.69	< 10	< 1	0.18	15	0.72	0.125	0.042	2.26	< 2	1	77	0.04	4	< 2	< 10	14	< 10	3	18	0.27	2.08
1228026212	72	2.38	< 10	< 1	0.21	14	0.77	0.117	0.043	1.47	< 2	< 1	94	0.02	< 1	< 2	< 10	11	< 10	2	13	0.14	1.37
1229050286	70	2.22	< 10	< 1	0.32	14	0.55	0.031	0.047	1.84	< 2	1	22	0.01	2	< 2	< 10	11	< 10	2	11	0.15	1.74
1229050250	52	2.15	< 10	< 1	0.33	14	1.04	0.204	0.041	1.74	3	< 1	79	0.03	< 1	< 2	< 10	15	< 10	2	15	0.36	1.68
1228026105	119	2.61	< 10	< 1	0.27	18	1.44	0.134	0.069	1.30	< 2	2	171	0.07	< 1	< 2	< 10	27	< 10	3	15	0.45	1.48
1228026230	80	2.38	< 10	< 1	0.20	16	0.76	0.141	0.043	1.45	< 2	< 1	106	0.04	2	< 2	< 10	10	< 10	3	15	0.12	1.43
1228026181	104	2.36	< 10	< 1	0.21	15	0.91	0.140	0.040	1.01	< 2	1	92	0.06	3	< 2	< 10	15	< 10	2	15	0.30	0.91
1228026307	127	2.23	< 10	< 1	0.19	12	0.51	0.232	0.036	1.78	< 2	< 1	171	< 0.01	< 1	< 2	< 10	8	< 10	2	14	0.11	1.77
1227002239	91	2.66	< 10	< 1	0.21	14	0.77	0.212	0.040	1.89	< 2	1	102	0.04	1	< 2	< 10	14	< 10	3	17	0.18	1.85
1228026150	138	2.49	< 10	< 1	0.17	14	1.14	0.123	0.040	1.98	< 2	1	117	< 0.01	< 1	< 2	< 10	11	< 10	2	13	0.28	1.97
1228026104	133	2.79	< 10	< 1	0.20	16	1.19	0.150	0.044	1.51	< 2	1	157	0.03	< 1	< 2	< 10	15	< 10	2	18	0.30	1.63
1228026215	100	2.62	< 10	< 1	0.22	15	0.67	0.121	0.044	2.03	< 2	< 1	87	0.02	< 1	< 2	< 10	9	< 10	2	17	0.16	1.94
V845131	13	3.35	< 10	< 1	0.22	10	0.53	0.238	0.058	0.06	< 2	4	38	0.44	6	< 2	< 10	96	< 10	16	12	0.02	0.06
1229050239	98	1.71	< 10	< 1	0.12	11	0.53	0.083	0.037	0.72	2	< 1	52	< 0.01	< 1	< 2	< 10	7	< 10	1	6	0.13	0.67
1227006089	94	3.06	< 10	< 1	0.15	< 10	0.93	0.331	0.029	0.89	< 2	3	47	0.13	2	< 2	< 10	70	< 10	3	8	0.10	0.84
1227006138	142	2.75	< 10	< 1	0.12	13	0.98	0.097	0.041	2.14	2	1	86	0.03	1	< 2	< 10	13	< 10	2	15	0.14	2.03
1228026334	98	2.68	< 10	< 1	0.17	15	0.84	0.160	0.040	1.62	< 2	< 1	78	0.02	< 1	< 2	< 10	10	< 10	2	14	0.11	1.60
1227006084	150	2.14	< 10	< 1	0.16	13	0.69	0.132	0.037	1.64	2	< 1	80	0.04	3	< 2	< 10	14	< 10	2	14	0.39	1.66
1227006148	157	3.18	< 10	< 1	0.11	< 10	1.42	0.189	0.030	0.93	< 2	4	47	0.14	< 1	< 2	< 10	67	< 10	3	9	0.38	0.93
1227006114	164	3.86	< 10	1	0.06	< 10	1.52	0.413	0.022	0.29	< 2	4	58	0.17	4	< 2	< 10	110	< 10	4	4	0.11	0.29
1227006064	97	2.58	< 10	< 1	0.15	13	0.90	0.141	0.038	1.76	< 2	1	85	0.03	< 1	< 2	< 10	14	< 10	3	19	0.23	1.70
1227006202	143	2.50	< 10	< 1	0.17	18	0.87	0.128	0.049	2.12	< 2	< 1	48	< 0.01	3	< 2	< 10	9	< 10	3	5	0.25	2.06
1227006081	108	2.51	< 10	< 1	0.19	13	0.76	0.067	0.040	1.97	< 2	1	36	0.05	1	< 2	< 10	18	< 10	3	18	0.26	1.93
1228026292	80	2.50	< 10	< 1	0.23	13	0.81	0.105	0.041	1.50	2	1	75	0.04	< 1	< 2	< 10	15	< 10	3	16	0.30	1.38
1228026339	83	3.01	< 10	< 1	0.22	15	0.95	0.083	0.041	1.85	< 2	< 1	54	0.02	< 1	< 2	< 10	10	< 10	2	17	0.14	1.82

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227003063	195	2.27	< 10	< 1	0.35	13	0.78	0.063	0.039	1.64	< 2	2	26	0.05	2	< 2	< 10	20	< 10	3	19	0.17	1.60
1227006177	127	2.66	< 10	< 1	0.20	17	1.02	0.086	0.046	2.68	< 2	< 1	42	0.02	2	< 2	< 10	9	< 10	3	21	0.08	2.52
1227006176	122	2.21	< 10	< 1	0.18	20	0.75	0.079	0.048	2.28	< 2	< 1	40	< 0.01	2	< 2	< 10	6	< 10	3	15	0.07	2.20
1227003091	169	2.91	< 10	2	0.17	14	0.81	0.069	0.040	2.37	< 2	1	32	0.04	< 1	< 2	< 10	17	< 10	3	19	0.22	2.23
1227006082	116	2.37	< 10	< 1	0.22	12	0.70	0.098	0.040	2.00	< 2	1	56	0.03	< 1	< 2	< 10	13	< 10	3	17	0.31	2.01
V845132	12	3.73	< 10	< 1	0.29	12	0.67	0.176	0.069	0.07	< 2	5	33	0.41	5	< 2	< 10	116	< 10	16	11	0.04	0.08
1228025359	93	2.15	< 10	< 1	0.19	10	0.79	0.048	0.034	1.03	< 2	1	26	0.02	< 1	< 2	< 10	12	< 10	2	12	0.19	1.02
1228025409	207	2.33	< 10	< 1	0.24	12	1.05	0.051	0.040	0.78	< 2	2	23	0.04	< 1	< 2	< 10	18	< 10	3	13	0.34	0.75
1229050006	94	2.43	< 10	< 1	0.28	20	1.10	0.130	0.055	2.45	3	1	59	< 0.01	< 1	< 2	< 10	12	< 10	3	7	0.51	2.50
1228025392	89	3.19	< 10	< 1	0.21	13	1.31	0.052	0.037	0.55	< 2	1	47	0.02	< 1	< 2	< 10	14	< 10	2	9	0.28	0.58
1228025403	131	4.34	< 10	2	0.53	82	3.02	0.068	0.232	0.07	3	11	197	0.16	1	< 2	< 10	113	< 10	7	3	0.95	0.07
1228025415	99	1.79	< 10	< 1	0.19	12	0.71	0.187	0.037	0.79	< 2	1	145	0.04	< 1	< 2	< 10	14	< 10	2	12	0.17	0.79
1228023295	331	2.97	< 10	< 1	0.26	16	1.58	0.085	0.060	1.76	< 2	2	71	0.03	< 1	< 2	< 10	17	< 10	3	12	0.35	1.91
1229050167	414	2.18	< 10	< 1	0.24	10	0.61	0.260	0.034	1.08	3	1	132	0.02	< 1	< 2	< 10	13	< 10	2	11	0.21	1.01
1228025263	63	3.24	< 10	< 1	0.22	13	1.42	0.053	0.037	0.40	< 2	1	44	0.03	2	< 2	< 10	18	< 10	2	10	0.20	0.38
1229050204	99	1.77	< 10	< 1	0.14	10	0.64	0.159	0.035	0.57	3	< 1	98	0.01	< 1	< 2	< 10	10	< 10	2	4	0.27	0.52
1228025019	113	2.35	< 10	< 1	0.22	14	1.20	0.036	0.040	0.84	2	1	28	0.01	2	< 2	< 10	12	< 10	2	7	0.36	0.83
1228025199	79	2.77	< 10	< 1	0.15	14	1.07	0.141	0.036	0.83	< 2	1	121	0.01	< 1	< 2	< 10	15	< 10	2	9	0.15	0.79
1228025477	200	2.72	< 10	< 1	0.51	37	1.52	0.072	0.090	0.93	3	4	93	0.09	2	< 2	< 10	37	< 10	4	10	0.32	0.91
1228025053	206	2.27	< 10	< 1	0.14	14	0.75	0.074	0.040	1.69	< 2	1	47	< 0.01	2	< 2	< 10	13	< 10	2	8	0.48	1.63
1228025113	133	1.84	< 10	< 1	0.31	13	1.20	0.049	0.037	0.47	< 2	2	22	0.03	1	< 2	< 10	19	< 10	2	11	0.21	0.46
1228025030	87	2.40	< 10	< 1	0.26	13	1.45	0.037	0.036	0.59	< 2	1	36	0.02	< 1	< 2	< 10	15	< 10	2	8	0.29	0.60
1228025208	85	2.58	< 10	< 1	0.18	12	0.82	0.211	0.035	0.84	< 2	1	93	0.04	< 1	< 2	< 10	12	< 10	2	15	0.08	0.86
1228025040	153	2.54	< 10	< 1	0.20	20	0.83	0.130	0.050	1.71	< 2	2	64	0.02	< 1	< 2	< 10	16	< 10	2	11	0.35	1.63
1228025150	142	4.05	< 10	< 1	1.16	67	2.23	0.077	0.198	0.19	< 2	9	155	0.18	< 1	< 2	< 10	96	< 10	6	5	0.70	0.22
1229050081	68	2.18	< 10	< 1	0.23	14	0.79	0.036	0.045	1.98	2	< 1	27	< 0.01	2	< 2	< 10	6	< 10	3	3	0.84	2.19
1228025087	74	2.68	< 10	< 1	0.27	15	1.52	0.043	0.038	0.87	< 2	1	30	0.04	< 1	< 2	< 10	16	< 10	2	12	0.17	0.87
1229050145	105	2.04	< 10	< 1	0.41	17	1.07	0.129	0.041	0.71	< 2	2	46	0.05	2	< 2	< 10	22	< 10	3	9	0.38	0.68
V845133	12	3.09	< 10	< 1	0.25	17	0.45	0.166	0.046	0.04	< 2	3	49	0.28	2	< 2	< 10	59	< 10	18	9	0.40	0.04
1228023241	26	2.43	< 10	< 1	0.08	16	1.41	0.178	0.046	1.50	2	< 1	122	< 0.01	< 1	< 2	< 10	11	< 10	2	9	0.10	1.30
1230057377	204	2.13	< 10	< 1	0.36	17	0.63	0.075	0.062	0.74	2	2	41	0.05	< 1	< 2	< 10	19	< 10	2	9	0.13	0.71
1229050064	344	2.35	< 10	< 1	0.28	20	0.81	0.181	0.047	0.71	< 2	1	85	0.06	3	< 2	< 10	17	< 10	2	15	0.36	0.64
1228023238	218	3.61	< 10	< 1	0.25	12	1.78	0.170	0.035	1.86	3	1	129	< 0.01	< 1	< 2	< 10	14	< 10	2	23	0.14	1.86
1230057164	131	1.45	< 10	< 1	0.16	< 10	0.39	0.061	0.035	0.79	2	1	35	< 0.01	3	< 2	< 10	14	< 10	1	5	0.14	0.80
1230057346	121	4.24	< 10	2	0.06	< 10	1.84	0.465	0.018	0.20	3	8	63	0.15	< 1	< 2	< 10	129	< 10	4	3	0.15	0.23
1229050100	445	2.17	< 10	< 1	0.28	12	0.73	0.124	0.036	1.01	2	1	56	< 0.01	2	< 2	< 10	13	< 10	2	5	0.42	0.99
1228023314	140	2.51	< 10	< 1	0.21	12	1.16	0.161	0.036	1.77	< 2	< 1	125	< 0.01	3	< 2	< 10	9	< 10	2	19	0.06	1.81
1230057040	202	2.29	< 10	< 1	0.38	< 10	0.61	0.096	0.044	0.62	2	3	36	0.01	1	3	< 10	28	< 10	2	5	0.05	0.60
1228023249	224	2.42	< 10	< 1	0.30	12	1.64	0.111	0.037	1.75	< 2	1	62	0.01	< 1	< 2	< 10	11	< 10	2	20	0.14	1.81
1229050202	118	1.51	< 10	< 1	0.16	10	0.58	0.227	0.035	0.51	< 2	< 1	138	0.01	4	< 2	< 10	9	< 10	2	5	0.22	0.50
1230057163	86	0.97	< 10	< 1	0.04	< 10	0.26	0.057	0.035	0.29	< 2	1	36	< 0.01	1	< 2	< 10	10	< 10	< 1	4	0.01	0.27
1228025404	369	2.91	< 10	< 1	0.28	13	0.92	0.055	0.038	1.62	< 2	1	27	0.01	< 1	< 2	< 10	11	< 10	2	15	0.29	1.56
1228025504	492	2.49	< 10	< 1	0.34	12	1.03	0.104	0.036	1.06	2	2	59	0.05	< 1	< 2	< 10	19	< 10	2	18	0.18	1.06
1230057169	236	1.59	< 10	< 1	0.36	13	0.31	0.058	0.038	1.14	3	< 1	53	< 0.01	4	< 2	< 10	7	< 10	1	6	0.68	1.11
V845134	9	1.53	< 10	< 1	0.07	< 10	0.12	0.138	0.031	0.02	< 2	1	22	0.28	3	< 2	< 10	37	< 10	8	12	0.05	0.02
1228027170	71	1.97	< 10	< 1	0.19	14	1.12	0.054	0.037	0.95	< 2	< 1	51	< 0.01	< 1	< 2	< 10	10	< 10	1	7	0.24	0.97
1228027056	84	2.59	< 10	< 1	0.31	15	1.14	0.041	0.041	2.54	2	< 1	29	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.34	2.37
1228027177	113	2.61	< 10	< 1	0.20	15	0.80	0.076	0.044	1.73	< 2	< 1	68	0.02	< 1	< 2	< 10	8	< 10	2	14	0.09	1.65
1227004186	100	2.15	< 10	< 1	0.22	15	0.74	0.070	0.041	2.27	3	< 1	44	< 0.01	5	< 2	< 10	5	< 10	2	5	0.45	2.15
1228027209	95	1.77	< 10	< 1	0.27	12	1.28	0.085	0.032	0.62	2	1	60	0.03	3	< 2	< 10	13	< 10	2	7	0.40	0.61
1228027102	129	2.62	< 10	< 1	0.26	13	1.07	0.054	0.046	2.26	< 2	< 1	36	< 0.01	2	< 2	< 10	9	< 10	2	12	0.36	2.18

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229051194	122	2.01	< 10	< 1	0.27	19	0.61	0.060	0.039	0.70	< 2	1	32	0.07	< 1	< 2	< 10	13	< 10	2	14	0.57	0.66
1227004047	88	2.41	< 10	< 1	0.19	18	0.66	0.181	0.045	1.06	< 2	1	159	0.02	< 1	< 2	< 10	11	< 10	3	9	0.27	1.00
1229051122	104	4.12	< 10	2	0.05	< 10	1.71	0.460	0.020	0.14	< 2	6	57	0.20	1	< 2	< 10	130	< 10	4	3	0.13	0.14
1227006045	236	2.63	< 10	< 1	0.26	13	0.77	0.069	0.040	2.22	< 2	1	28	0.06	< 1	< 2	< 10	17	< 10	3	20	0.20	2.12
1228027308	75	2.43	< 10	< 1	0.15	14	1.17	0.052	0.040	1.43	< 2	< 1	71	< 0.01	< 1	< 2	< 10	10	< 10	2	11	0.13	1.45
1227003029	262	2.32	< 10	< 1	0.26	12	0.70	0.106	0.036	1.66	< 2	1	54	0.06	< 1	< 2	< 10	17	< 10	3	17	0.23	1.62
1227004062	89	2.55	< 10	< 1	0.10	26	1.03	0.106	0.058	2.59	< 2	1	66	< 0.01	< 1	< 2	< 10	13	< 10	2	16	0.18	2.56
1234003105	149	2.43	< 10	< 1	0.22	20	0.92	0.075	0.057	0.38	< 2	3	45	0.14	< 1	< 2	< 10	41	< 10	4	10	0.26	0.36
1234003137	96	2.18	< 10	< 1	0.20	14	0.82	0.072	0.047	0.48	2	3	45	0.10	1	< 2	< 10	36	< 10	4	9	0.20	0.44
1229051224	100	4.35	< 10	< 1	0.05	< 10	1.81	0.462	0.020	0.08	< 2	7	66	0.18	< 1	< 2	< 10	130	< 10	5	3	0.11	0.09
1229051152	99	4.14	< 10	< 1	0.06	< 10	1.70	0.583	0.020	0.12	3	7	73	0.13	< 1	< 2	< 10	121	< 10	4	2	0.08	0.12
1227003023	202	2.56	< 10	< 1	0.23	14	0.74	0.177	0.041	1.85	< 2	1	80	0.03	< 1	< 2	< 10	15	< 10	3	17	0.16	1.77
1228027263	128	4.23	< 10	2	0.17	< 10	2.24	0.373	0.021	0.22	< 2	10	75	0.17	< 1	< 2	< 10	115	< 10	4	4	0.26	0.23
1227004217	76	2.38	< 10	< 1	0.20	13	0.71	0.060	0.044	2.30	< 2	< 1	38	< 0.01	1	< 2	< 10	7	< 10	2	13	0.35	2.22
1227004259	202	2.67	< 10	< 1	0.25	19	0.93	0.088	0.052	2.74	3	< 1	48	< 0.01	4	< 2	< 10	9	< 10	3	8	1.19	2.56
1228027229	127	4.64	< 10	2	0.06	< 10	2.21	0.528	0.020	0.10	< 2	9	78	0.21	< 1	2	< 10	135	< 10	5	4	0.10	0.03
1228027288	107	4.39	< 10	< 1	0.12	< 10	2.13	0.486	0.022	0.22	< 2	9	79	0.20	< 1	< 2	< 10	126	< 10	5	5	0.19	0.24
1228027150	107	2.04	< 10	< 1	0.25	15	0.92	0.058	0.045	1.02	< 2	1	44	0.02	< 1	< 2	< 10	12	< 10	2	10	0.30	0.96
1229051229	85	2.87	< 10	< 1	0.33	15	1.06	0.058	0.045	3.03	< 2	1	28	< 0.01	< 1	< 2	< 10	11	< 10	2	18	0.56	3.01
V845135	13	3.40	< 10	< 1	0.22	11	0.53	0.256	0.058	0.06	< 2	4	41	0.47	6	< 2	< 10	98	< 10	17	22	0.02	0.07
1228027044	116	2.07	< 10	< 1	0.29	17	0.86	0.118	0.044	1.59	< 2	< 1	72	< 0.01	< 1	< 2	< 10	8	< 10	3	11	0.93	1.57
1227004228	159	1.17	< 10	< 1	0.19	16	0.15	0.138	0.044	1.08	< 2	< 1	135	< 0.01	< 1	< 2	< 10	7	< 10	2	12	0.18	1.05
1229051165	93	1.53	< 10	< 1	0.26	17	0.61	0.155	0.040	0.56	< 2	< 1	71	0.05	2	< 2	< 10	13	< 10	2	10	0.41	0.56
1227004291	77	2.01	< 10	< 1	0.31	15	0.84	0.103	0.043	1.92	< 2	< 1	50	0.02	5	< 2	< 10	9	< 10	2	22	0.24	1.93
1228027116	119	4.15	< 10	2	0.09	< 10	1.75	0.506	0.022	0.16	< 2	6	66	0.20	< 1	< 2	< 10	125	< 10	4	4	0.12	0.18
1229051133	69	1.58	< 10	< 1	0.43	11	0.33	0.035	0.041	1.74	3	< 1	35	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.77	1.65
1228027035	151	2.05	< 10	< 1	0.27	17	0.85	0.189	0.043	1.32	2	1	92	< 0.01	1	< 2	< 10	12	< 10	3	12	0.77	1.33
1227004200	149	2.18	< 10	< 1	0.23	15	1.03	0.141	0.041	2.22	3	< 1	86	0.04	< 1	< 2	< 10	7	< 10	3	19	0.54	2.18
1230095040	83	2.35	< 10	< 1	0.23	14	0.91	0.075	0.041	1.42	3	1	34	0.01	< 1	< 2	< 10	16	< 10	3	18	0.07	1.38
1228027038	63	2.30	< 10	< 1	0.33	16	1.02	0.094	0.042	2.12	3	< 1	40	0.02	2	< 2	< 10	11	< 10	2	18	0.61	2.19
1228027157	114	4.23	< 10	1	0.06	< 10	1.95	0.442	0.022	0.23	< 2	7	73	0.21	1	< 2	< 10	122	< 10	4	6	0.14	0.24
1227005026	236	2.63	< 10	< 1	0.12	17	1.21	0.109	0.044	2.73	3	1	54	< 0.01	4	< 2	< 10	12	< 10	3	21	0.48	2.76
1228027240	108	2.97	< 10	< 1	0.29	19	0.86	0.028	0.055	2.85	< 2	< 1	31	< 0.01	1	< 2	< 10	8	< 10	3	12	1.02	2.84
1228027198	77	2.35	< 10	< 1	0.27	15	0.90	0.051	0.045	2.06	2	< 1	36	< 0.01	2	< 2	< 10	8	< 10	3	10	0.81	1.98
1227004271	110	2.07	< 10	< 1	0.22	13	0.66	0.042	0.042	1.98	< 2	< 1	28	< 0.01	2	2	< 10	6	< 10	2	9	0.80	1.97
1227004317	75	2.08	< 10	< 1	0.29	16	0.49	0.079	0.046	2.30	< 2	< 1	56	< 0.01	< 1	< 2	< 10	5	< 10	2	16	0.72	2.24
1227005041	146	2.39	< 10	< 1	0.18	20	1.07	0.149	0.054	2.44	< 2	1	75	< 0.01	3	< 2	< 10	12	< 10	3	21	0.40	2.45
1227005100	162	2.23	< 10	< 1	0.20	20	1.34	0.121	0.048	1.46	< 2	1	59	< 0.01	1	< 2	< 10	14	< 10	3	12	0.63	1.54

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1050	1	22	94	130	6.30	244	< 10	713	0.9	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	70	1090	1	23	103	134	6.44	228	< 10	728	0.9	< 2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
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SGR-1b Meas																							
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SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (Aqua Regia) Meas								38.4		> 10000				255	1180						< 2		102
OREAS 98 (Aqua Regia) Cert								42.8		147000.0				343	1302						92.8		111
GS311-4 Meas																							
GS311-4 Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.21																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.2				8.47																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2100	752	< 1	31	57	264	2.60	3		85	0.8	4	0.43	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2270	788	< 1	36	59	286	2.65	2		76	0.8	< 2	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4170	862	< 1	30	81	343	2.62	8		68	0.7	14	0.43	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	885	< 1	33	81	350	2.66	6		58	0.7	20	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	429						32		46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				92	445						25		50
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							542																
OREAS 218 Cert							531																
OREAS 218 Meas							508																
OREAS 218 Cert							531																
OREAS 218 Meas							528																
OREAS 218 Cert							531																
OREAS 218 Meas							531																
OREAS 218 Cert							531																
OREAS 218 Meas							541																
OREAS 218 Cert							531																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Meas								65.2	260	3290	514	13	22	> 5000	> 10000	1.53	73			0.6	6	1.62	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.4	276	3520	541	12	25	> 5000	> 10000	1.53	74			0.6	5	1.55	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										329	175	< 1	223	12	28	6.77			130	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	172	< 1	228	16	28	6.65			136	1.1	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2960																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2990																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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1228025003 Orig								0.5	3.0	14	663	< 1	12	15	868	1.73	9	< 10	29	< 0.5	< 2	1.83	9
1228025003 Dup								0.5	2.7	13	672	< 1	11	19	881	1.70	9	< 10	26	< 0.5	2	1.84	8
1229050184 Orig							157																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229050184 Dup							154																
1227002092 Orig								1.2	< 0.5	135	428	4	10	6	76	2.17	14	< 10	26	< 0.5	< 2	1.00	8
1227002092 Dup								1.0	< 0.5	134	431	3	10	7	76	2.18	9	< 10	25	< 0.5	< 2	1.01	8
1228026226 Orig							592																
1228026226 Dup							614																
V845130 Orig																							
V845130 Dup																							
1229050279 Orig								2.2	< 0.5	35	1090	2	26	30	148	1.77	74	< 10	29	< 0.5	< 2	1.51	18
1229050279 Dup								2.3	0.5	36	1090	2	28	31	148	1.82	76	< 10	29	< 0.5	< 2	1.54	16
1229050250 Orig							48																
1229050250 Dup							49																
1228026105 Orig																							
1228026105 Dup																							
1227006089 Orig																							
1227006089 Dup																							
1227006148 Orig							53	0.2	0.7	144	523	2	30	< 2	152	2.92	4	< 10	36	< 0.5	< 2	2.57	20
1227006148 Dup							46	0.3	< 0.5	144	520	2	30	< 2	157	2.91	< 2	< 10	35	< 0.5	< 2	2.56	19
1227006202 Orig	58.4	12.0	-46.4	63.1	0.190																		
1227006202 Dup	58.4	12.0	-46.4	63.1	0.190																		
1227003063 Orig																							
1227003063 Dup																							
1227003091 Orig							124																
1227003091 Dup							146																
1229050006 Orig								6.0	< 0.5	48	1170	< 1	19	37	140	1.51	69	< 10	18	< 0.5	< 2	1.83	12
1229050006 Dup								6.1	0.6	47	1200	< 1	19	37	139	1.58	69	< 10	17	< 0.5	< 2	1.78	10
1228025403 Orig																							
1228025403 Dup																							
1229050167 Orig							12																
1229050167 Dup							10																
1228025030 Orig						8.89																	
1228025030 Dup						8.77																	
1228025040 Orig								1.7	1.5	83	488	2	15	5	462	1.63	19	< 10	21	< 0.5	< 2	1.22	10
1228025040 Dup								1.7	1.5	79	489	2	16	7	473	1.61	18	< 10	18	< 0.5	3	1.22	11
1229050145 Orig							31																
1229050145 Dup							23																
1229050064 Orig																							
1229050064 Dup																							
1228023238 Orig								0.7	< 0.5	119	402	8	14	4	89	3.22	9	< 10	23	< 0.5	3	1.32	8
1228023238 Dup								0.7	< 0.5	113	408	8	13	< 2	90	3.24	6	< 10	25	< 0.5	3	1.34	10
1228023249 Orig							23																
1228023249 Dup							21																
1228025504 Orig																							
1228025504 Dup																							
1228027170 Orig	25.3	21.2	-4.10	29.7	0.714																		
1228027170 Dup	25.3	21.2	-4.08	29.7	0.714																		
1227004186 Orig							628																
1227004186 Dup							630																
1229051194 Orig								< 0.2	0.9	27	652	< 1	8	7	227	1.16	10	< 10	39	< 0.5	< 2	2.08	9
1229051194 Dup								0.2	0.8	29	654	< 1	8	7	216	1.20	12	< 10	40	< 0.5	< 2	2.10	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227004047 Orig																							
1227004047 Dup																							
1228027263 Orig							18																
1228027263 Dup							22																
1228027044 Orig								1.8	< 0.5	28	1200	2	17	10	89	1.53	67	< 10	36	< 0.5	3	2.96	11
1228027044 Dup								1.8	< 0.5	29	1200	2	18	12	90	1.53	68	< 10	37	< 0.5	< 2	2.97	12
1229051165 Orig							122																
1229051165 Dup							129																
1228027240 Orig							202																
1228027240 Dup							194																
1228027198 Orig																							
1228027198 Dup																							
1227004317 Orig								1.2	< 0.5	36	625	< 1	10	16	150	1.03	24	< 10	37	< 0.5	< 2	2.12	10
1227004317 Dup								1.1	< 0.5	36	635	< 1	11	15	153	1.05	21	< 10	35	< 0.5	< 2	2.15	9
1227005041 Orig						8.98																	
1227005041 Dup						8.98																	
1227005100 Orig	41.8	47.5	5.69	47.2	1.01																		
1227005100 Dup	41.8	47.4	5.65	47.2	1.01																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank							6																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	83	5.47	20	< 1	1.15	11	0.40	0.112	0.035	0.01	5	21	31		< 1	< 2	< 10	170	< 10	5	11		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	86	5.66	20	< 1	1.14	10	0.40	0.113	0.035	0.01	3	21	31		< 1	< 2	< 10	174	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
SGR-1b Meas																						27.6	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.55
SGR-1b Cert																						28	1.53
OREAS 98 (Aqua Regia) Meas											18												
OREAS 98 (Aqua Regia) Cert											14.7												
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	4.89	< 10		0.53	39	1.31	0.031	0.061	0.36	< 2	4	16			< 2	< 10	37	< 10	22	26		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.26	< 10		0.49	40	1.41	0.031	0.064	0.39	3	4	17			< 2	< 10	37	< 10	22	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	5.69	< 10		0.45	37	1.42		0.058	0.66	4	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	6.02	< 10		0.42	37	1.50		0.062	0.70	3	4	15			< 2	< 10	36	< 10	20	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.64	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.20	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	31	3.07	10	3	0.37	20	0.41	0.150	0.032	4.33	107	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.25	< 10	4	0.36	19	0.43	0.150	0.033	4.33	101	2	17			< 2	< 10	13	< 10	8	65		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	358	13.3	20	< 1	0.11	12	0.18	0.045	0.021	0.02		28	15	0.14		< 2	< 10	205		5	23		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	377	14.1	20	< 1	0.11	11	0.18	0.046	0.021	0.02		29	15	0.10		< 2	< 10	209		6	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
1228025003 Orig	92	2.10	< 10	< 1	0.17	13	0.80	0.129	0.037	1.57	< 2	1	90	0.03	3	< 2	< 10	17	< 10	2	17		
1228025003 Dup	89	2.03	< 10	< 1	0.16	13	0.79	0.124	0.036	1.52	< 2	1	87	0.03	< 1	< 2	< 10	17	< 10	2	17		
1229050184 Orig																						0.22	1.88
1229050184 Dup																						0.22	1.90
1227002092 Orig	79	2.93	< 10	< 1	0.15	15	0.93	0.090	0.043	1.89	< 2	< 1	94	< 0.01	< 1	< 2	< 10	10	< 10	3	12		
1227002092 Dup	80	2.93	< 10	< 1	0.15	15	0.95	0.091	0.043	1.86	< 2	< 1	95	< 0.01	< 1	< 2	< 10	10	< 10	3	10		
1228026226 Orig																							
1228026226 Dup																							
V845130 Orig																						0.02	0.06
V845130 Dup																						0.03	0.06
1229050279 Orig	67	2.43	< 10	< 1	0.29	20	0.96	0.105	0.052	1.86	3	< 1	55	0.02	< 1	< 2	< 10	12	< 10	3	12		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229050279 Dup	67	2.47	< 10	< 1	0.29	20	0.98	0.107	0.053	1.88	< 2	< 1	56	0.02	< 1	< 2	< 10	12	< 10	3	12		
1229050250 Orig																							
1229050250 Dup																							
1228026105 Orig																						0.46	1.48
1228026105 Dup																						0.45	1.48
1227006089 Orig																						0.10	0.85
1227006089 Dup																						0.10	0.82
1227006148 Orig	154	3.22	< 10	< 1	0.11	< 10	1.43	0.192	0.030	0.95	< 2	4	47	0.15	< 1	< 2	< 10	67	< 10	3	9		
1227006148 Dup	160	3.15	< 10	< 1	0.11	< 10	1.41	0.187	0.030	0.92	< 2	4	47	0.14	< 1	< 2	< 10	67	< 10	3	9		
1227006202 Orig																							
1227006202 Dup																							
1227003063 Orig																						0.17	1.62
1227003063 Dup																						0.17	1.58
1227003091 Orig																							
1227003091 Dup																							
1229050006 Orig	93	2.40	< 10	< 1	0.27	20	1.08	0.127	0.054	2.49	3	1	59	< 0.01	< 1	< 2	< 10	11	< 10	3	7		
1229050006 Dup	95	2.46	< 10	< 1	0.29	20	1.12	0.133	0.055	2.42	3	1	59	< 0.01	< 1	< 2	< 10	12	< 10	3	8		
1228025403 Orig																						0.95	0.08
1228025403 Dup																						0.95	0.07
1229050167 Orig																							
1229050167 Dup																							
1228025030 Orig																						0.29	0.61
1228025030 Dup																						0.29	0.59
1228025040 Orig	152	2.52	< 10	< 1	0.20	20	0.82	0.132	0.051	1.70	< 2	2	65	0.02	2	< 2	< 10	16	< 10	2	11		
1228025040 Dup	154	2.56	< 10	< 1	0.19	20	0.83	0.128	0.050	1.71	2	2	64	0.02	< 1	< 2	< 10	16	< 10	2	11		
1229050145 Orig																							
1229050145 Dup																							
1229050064 Orig																						0.36	0.64
1229050064 Dup																						0.36	0.64
1228023238 Orig	219	3.60	< 10	2	0.25	12	1.78	0.169	0.035	1.86	2	1	129	< 0.01	< 1	< 2	< 10	14	< 10	2	23		
1228023238 Dup	218	3.62	< 10	< 1	0.26	12	1.79	0.171	0.035	1.85	3	1	130	< 0.01	< 1	< 2	< 10	14	< 10	2	24		
1228023249 Orig																							
1228023249 Dup																							
1228025504 Orig																						0.18	1.04
1228025504 Dup																						0.18	1.08
1228027170 Orig																							
1228027170 Dup																							
1227004186 Orig																							
1227004186 Dup																							
1229051194 Orig	122	2.00	< 10	< 1	0.27	18	0.61	0.059	0.039	0.69	< 2	1	31	0.07	4	< 2	< 10	13	< 10	2	14		
1229051194 Dup	122	2.03	< 10	< 1	0.28	19	0.62	0.060	0.039	0.71	< 2	1	32	0.07	< 1	< 2	< 10	14	< 10	3	15		
1227004047 Orig																						0.27	1.01
1227004047 Dup																						0.27	0.99
1228027263 Orig																						0.26	0.23
1228027263 Dup																						0.26	0.23
1228027044 Orig	115	2.06	< 10	< 1	0.29	17	0.86	0.118	0.044	1.58	< 2	< 1	72	< 0.01	< 1	3	< 10	9	< 10	3	10		
1228027044 Dup	117	2.08	< 10	< 1	0.29	17	0.86	0.118	0.044	1.60	3	< 1	72	< 0.01	< 1	< 2	< 10	8	< 10	3	12		
1229051165 Orig																						0.41	0.56
1229051165 Dup																						0.41	0.56
1228027240 Orig																							
1228027240 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228027198 Orig																						0.80	2.00
1228027198 Dup																						0.81	1.96
1227004317 Orig	73	2.07	< 10	< 1	0.29	16	0.48	0.079	0.046	2.31	< 2	< 1	56	< 0.01	< 1	< 2	< 10	5	< 10	2	16		
1227004317 Dup	77	2.09	< 10	< 1	0.29	16	0.50	0.079	0.046	2.29	3	< 1	57	< 0.01	2	3	< 10	5	< 10	2	15		
1227005041 Orig																							
1227005041 Dup																							
1227005100 Orig																							
1227005100 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-00328**
Report Date:	**13-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-05 20:59:41
4F-C, S	Infrared	2020-01-29 21:33:23

REPORT **A20-00328**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.:	**A20-00328**
Report Date:	**13-Feb-20**
Date Submitted:	**09-Jan-20**
Your Reference:	**2019 December Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-01-20 14:58:53
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-01-22 22:05:21

REPORT **A20-00328**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
V845136							117	1.7	< 0.5	62	341	4	13	9	60	1.36	< 2	< 10	76	< 0.5	< 2	1.10	17
1227003105	58.7	12.6	-46.2	63.4	0.198	9.00	864	0.8	< 0.5	179	481	3	13	2	48	1.69	14	< 10	31	< 0.5	4	0.99	8
1227003147	55.0	9.85	-45.1	59.7	0.165	8.73	793	0.8	< 0.5	211	454	4	14	3	51	1.46	9	< 10	29	< 0.5	4	0.78	8
1227003096	57.4	20.1	-37.3	62.8	0.320	9.23	183	0.6	1.6	105	580	3	14	4	461	1.14	10	< 10	32	< 0.5	< 2	1.13	10
1227003138	67.8	10.9	-56.9	72.6	0.150	8.76	764	0.8	< 0.5	225	448	3	12	3	51	1.53	11	< 10	30	< 0.5	4	0.84	9
1227003197	49.5	16.8	-32.7	53.0	0.317	8.94	36	0.5	< 0.5	74	497	4	14	< 2	61	1.00	6	< 10	33	< 0.5	< 2	0.99	8
1230096130	21.6	8.74	-12.8	21.1	0.414	9.16	121	< 0.2	< 0.5	28	249	2	13	3	50	1.40	5	< 10	31	< 0.5	< 2	0.73	7
1227003162	43.4	15.3	-28.1	45.9	0.334	9.20	108	0.5	< 0.5	98	491	4	17	28	87	0.96	7	< 10	39	< 0.5	3	0.82	10
1227003170	59.5	8.49	-51.0	62.8	0.135	9.23	356	0.6	< 0.5	172	430	3	13	3	55	1.26	9	< 10	29	< 0.5	4	0.65	9
1227003212	52.9	14.1	-38.8	57.0	0.247	8.98	147	0.4	< 0.5	104	481	5	13	< 2	55	1.05	9	< 10	34	< 0.5	2	0.81	8
1227003235	53.7	15.9	-37.8	56.3	0.283	9.12	57	0.4	< 0.5	90	510	3	12	24	88	0.95	9	< 10	28	< 0.5	2	0.86	9
1230096001	45.5	9.49	-36.0	49.0	0.194	9.14	187	2.0	1.2	29	646	1	14	50	434	1.79	21	< 10	37	< 0.5	< 2	0.81	11
1230096047	49.9	12.1	-37.8	53.3	0.227	9.11	179	2.5	< 0.5	9	489	< 1	8	7	139	1.44	17	< 10	33	< 0.5	< 2	0.86	7
1230096076	40.1	15.5	-24.6	43.2	0.359	8.90	62	0.5	< 0.5	153	189	< 1	11	3	40	1.38	8	< 10	23	< 0.5	< 2	0.88	7
1230096123	58.7	18.7	-40.0	62.2	0.301	8.70	262	0.7	< 0.5	10	183	1	12	4	74	1.79	11	< 10	33	< 0.5	3	1.57	10
1230096006	19.7	23.8	4.09	19.3	1.23	9.25	34	1.1	0.7	22	781	< 1	10	2	254	2.07	11	< 10	48	< 0.5	< 2	1.60	7
1227003248	42.5	17.4	-25.1	45.6	0.381	9.26	87	0.5	< 0.5	94	509	3	15	8	96	1.10	8	< 10	36	< 0.5	< 2	0.95	8
1230096093	22.9	52.8	29.9	25.7	2.05	9.27	46	0.3	0.7	31	823	1	91	8	273	2.07	12	< 10	48	0.6	< 2	2.69	15
1230096111	17.7	39.7	22.0	21.1	1.88	9.35	36	0.2	0.9	31	739	< 1	48	7	298	2.13	13	< 10	52	< 0.5	< 2	2.35	11
V845137							950	2.5	< 0.5	56	401	11	17	7	56	1.42	2	< 10	80	< 0.5	< 2	1.30	18
1227004122	48.0	12.1	-35.9	51.5	0.235	8.85	215	1.0	1.6	63	356	1	15	19	422	1.76	24	< 10	29	< 0.5	3	1.26	11
1227004117	21.8	69.4	47.7	30.3	2.29	8.97	54	0.7	0.8	40	841	< 1	37	11	251	1.77	10	< 10	32	< 0.5	< 2	2.75	12
1229051027	55.0	51.7	-3.24	63.1	0.820	9.11	270	1.8	10.6	58	1040	< 1	13	94	2610	0.72	82	< 10	31	< 0.5	< 2	2.08	8
1227003049	80.5	13.6	-66.9	86.4	0.157	8.81	92	0.6	0.6	60	447	1	12	4	180	2.21	9	< 10	23	< 0.5	5	1.31	9
1234003048	3.75	30.6	26.8	3.67	8.33	8.89	8	< 0.2	< 0.5	14	554	< 1	18	4	109	1.87	5	< 10	51	< 0.5	< 2	2.02	10
1227004155	66.1	28.5	-37.6	71.7	0.398	8.79	52	0.7	1.5	28	593	< 1	12	27	386	1.77	12	< 10	23	< 0.5	< 2	1.57	8
1229051069	28.8	28.6	-0.252	31.9	0.898	8.84	70	0.4	1.5	19	561	< 1	13	19	404	1.47	53	< 10	24	< 0.5	< 2	1.52	7
1234003005	7.50	24.7	17.2	7.35	3.36	9.36	22	0.3	< 0.5	10	570	< 1	16	3	92	1.33	7	< 10	68	< 0.5	< 2	1.22	7
1234003102	16.6	19.6	2.99	16.2	1.20	9.16	20	0.3	< 0.5	22	496	< 1	25	5	124	1.66	6	< 10	79	< 0.5	< 2	1.46	12
1227004149	53.2	21.8	-31.4	56.3	0.388	8.99	124	0.9	1.3	51	413	< 1	12	10	340	1.66	20	< 10	27	< 0.5	2	1.62	8
1227004093	13.4	26.7	13.3	13.2	2.03	9.05	35	0.5	< 0.5	64	530	< 1	10	9	79	2.05	8	< 10	38	< 0.5	< 2	1.84	8
1227004167	68.3	19.5	-48.9	72.9	0.267	8.90	73	1.0	1.1	32	634	1	12	33	263	2.13	16	< 10	31	< 0.5	2	1.59	9
1229051045	60.1	53.1	-7.03	68.3	0.777	9.14	335	0.9	9.3	30	1160	< 1	11	43	2430	0.86	67	< 10	26	< 0.5	< 2	1.87	8
1229051098	46.7	43.1	-3.58	51.5	0.837	9.01	55	2.2	4.8	53	586	< 1	25	208	1010	1.29	55	< 10	33	< 0.5	< 2	1.90	10
1229051004	62.6	31.2	-31.4	73.2	0.426	9.33	1130	2.3	17.8	69	1200	< 1	9	116	4560	0.57	182	< 10	28	< 0.5	< 2	1.26	7
1227004124	35.7	11.9	-23.9	38.9	0.305	8.72	244	1.0	2.6	80	451	< 1	9	16	674	2.61	17	< 10	37	< 0.5	< 2	1.89	7
1227006040	54.1	16.7	-37.4	58.5	0.285	8.81	398	1.0	0.6	192	403	4	14	< 2	219	1.70	11	< 10	34	< 0.5	< 2	1.40	9
1227006024	3.13	11.0	7.83	3.06	3.58	9.38	14	< 0.2	< 0.5	138	418	2	49	< 2	48	4.99	< 2	< 10	13	< 0.5	< 2	3.84	22
1229051143	20.9	13.9	-6.99	23.6	0.591	9.14	146	0.2	2.0	34	532	< 1	12	15	468	1.28	23	< 10	38	< 0.5	< 2	1.14	8
1227003054	50.6	11.6	-39.0	54.2	0.214	8.68	1200	1.3	< 0.5	258	559	5	14	< 2	61	2.29	10	< 10	37	< 0.5	4	1.22	8
1227004184	62.8	49.7	-13.1	69.8	0.712	8.81	656	11.9	3.9	95	1340	< 1	12	473	1010	0.98	40	< 10	21	< 0.5	< 2	2.15	8
V845138							703	3.2	< 0.5	33	262	14	10	16	43	1.11	< 2	< 10	58	< 0.5	< 2	2.02	10
1229052122	73.0	10.9	-62.2	78.7	0.138	9.06	1300	0.8	< 0.5	237	301	2	10	2	40	1.72	16	< 10	29	< 0.5	5	0.85	10
1227005149	54.8	51.1	-3.66	60.6	0.843	9.46	163	1.9	< 0.5	25	844	< 1	12	29	128	1.26	26	< 10	26	< 0.5	< 2	2.19	8
1230095131	83.4	13.2	-70.2	94.3	0.140	8.84	310	4.9	14.9	65	577	< 1	8	1280	4700	0.92	20	< 10	19	< 0.5	4	0.78	7
1230094291	28.4	22.4	-6.01	30.9	0.725	9.25	32	1.6	0.5	29	685	< 1	13	14	184	1.94	10	< 10	57	< 0.5	4	1.54	8
1229052074	22.5	9.00	-13.5	22.0	0.408	9.14	72	0.5	< 0.5	258	243	6	10	7	39	1.65	9	< 10	49	< 0.5	< 2	0.90	10
1230093446	31.4	80.6	49.2	37.1	2.18	8.89	106	1.7	0.9	67	888	< 1	124	< 2	269	2.24	10	< 10	51	< 0.5	5	3.27	15
1227008003	18.4	6.36	-12.1	18.1	0.352	8.93	18	< 0.2	< 0.5	34	440	< 1	10	4	154	2.86	7	< 10	59	< 0.5	< 2	1.58	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230094294	32.8	29.7	-3.09	36.4	0.815	9.12	108	1.2	0.7	97	773	< 1	13	55	239	1.62	13	< 10	48	< 0.5	3	1.64	8
1227008020	60.4	11.7	-48.7	64.3	0.183	8.77	111	0.5	< 0.5	91	317	3	12	3	44	1.95	10	< 10	34	< 0.5	5	1.18	8
1227008037	78.9	15.1	-63.9	84.2	0.179	8.50	355	0.6	< 0.5	126	279	3	14	7	50	1.73	9	< 10	28	< 0.5	6	1.15	9
1227008094	72.2	11.9	-60.3	75.9	0.156	8.27	90	0.5	< 0.5	59	304	3	12	6	133	1.79	17	< 10	27	< 0.5	3	1.01	8
1229052088	26.1	19.6	-6.52	29.4	0.667	9.22	53	0.5	< 0.5	32	713	< 1	17	14	114	3.22	12	16	43	< 0.5	3	2.00	8
1229052129	18.7	17.7	-1.03	21.4	0.827	9.00	149	0.3	< 0.5	29	376	3	11	9	152	1.59	10	13	46	< 0.5	< 2	1.07	6
1227008103	76.8	9.24	-67.5	83.0	0.111	8.39	51	0.5	< 0.5	33	281	4	15	4	35	1.76	11	< 10	26	< 0.5	7	0.90	8
1230093435	23.0	30.1	7.09	26.6	1.13	8.86	137	< 0.2	< 0.5	19	752	< 1	21	< 2	96	2.40	8	< 10	51	< 0.5	< 2	2.16	8
1227005109	52.6	42.0	-10.6	57.9	0.725	8.94	269	1.3	< 0.5	28	816	1	25	23	164	2.35	41	< 10	39	< 0.5	< 2	2.50	12
1227008118	15.0	13.9	-1.13	14.7	0.944	8.90	10	< 0.2	< 0.5	12	321	< 1	10	3	37	2.68	4	14	91	< 0.5	< 2	1.58	8
1230093459	25.6	14.1	-11.5	25.1	0.562	8.25	77	< 0.2	< 0.5	11	587	< 1	9	4	100	1.36	5	< 10	48	< 0.5	< 2	0.86	6
1230095007	57.2	23.7	-33.4	63.4	0.375	8.87	128	1.9	2.0	58	730	< 1	18	6	626	1.91	22	< 10	33	< 0.5	3	1.28	13
1230095024	49.2	28.2	-20.9	53.9	0.524	9.05	110	1.8	0.9	77	650	2	14	10	304	1.52	21	< 10	38	< 0.5	7	1.49	9
1227008137	74.3	17.6	-56.6	81.5	0.216	8.35	81	0.7	< 0.5	69	432	< 1	24	3	77	2.93	11	15	24	< 0.5	9	1.58	11
V845139							945	2.5	< 0.5	58	401	10	17	6	56	1.48	3	< 10	80	< 0.5	< 2	1.35	18
1227005032	71.5	22.1	-49.4	79.9	0.277	8.70	184	1.8	4.0	130	616	2	15	6	943	1.84	15	< 10	22	< 0.5	2	1.26	10
1227005183	76.9	9.62	-67.2	86.1	0.112	9.06	740	17.6	7.0	333	1030	< 1	12	780	1800	0.97	147	< 10	23	< 0.5	5	1.55	9
1227005031	73.6	31.7	-41.9	82.1	0.387	8.82	218	2.0	3.3	104	803	1	25	8	857	1.90	12	< 10	20	< 0.5	2	1.59	11
1227005141	50.8	47.2	-3.66	56.3	0.837	9.40	110	1.3	< 0.5	23	740	< 1	14	43	132	1.45	30	< 10	31	< 0.5	< 2	2.11	8
1229052141	48.1	9.86	-38.3	52.1	0.189	8.92	110	2.1	0.7	22	482	1	12	8	248	1.71	25	< 10	30	< 0.5	3	0.64	8
1229052183	49.9	9.49	-40.4	55.1	0.172	8.99	1230	4.0	6.3	119	427	2	11	5	1130	1.75	32	< 10	32	< 0.5	8	0.47	9
1230095122	44.8	7.12	-37.7	48.7	0.146	9.07	70	0.4	< 0.5	37	512	< 1	12	10	132	1.36	7	< 10	32	< 0.5	< 2	0.66	8
1227005165	55.0	57.5	2.47	60.9	0.943	8.93	295	2.4	0.7	32	1070	< 1	12	58	216	1.32	42	< 10	28	< 0.5	< 2	2.36	8
1227008254	17.5	14.2	-3.26	17.1	0.830	8.86	17	< 0.2	< 0.5	12	437	< 1	4	6	105	2.55	7	10	35	< 0.5	< 2	1.40	8
1227008082	21.3	7.50	-13.8	20.8	0.360	8.76	9	< 0.2	< 0.5	28	316	< 1	10	< 2	43	2.92	5	< 10	68	< 0.5	< 2	1.41	9
1227008116	6.88	6.50	-0.379	6.74	0.964	9.19	15	< 0.2	< 0.5	109	436	< 1	47	< 2	56	4.46	< 2	< 10	18	< 0.5	< 2	3.24	22
1227005175	55.2	46.2	-8.97	62.2	0.744	9.26	130	2.3	0.6	27	1220	< 1	12	72	190	1.49	45	< 10	25	< 0.5	< 2	2.01	8
1229052153	31.6	22.7	-8.82	35.5	0.640	8.86	3090	1.0	< 0.5	154	262	< 1	10	6	36	1.56	9	16	37	< 0.5	2	1.38	5
1230094252	48.6	31.3	-17.3	53.3	0.588	8.91	103	1.0	< 0.5	126	626	5	14	< 2	97	1.42	17	< 10	36	< 0.5	< 2	1.43	10
1230095080	83.7	10.6	-73.1	90.0	0.118	8.98	81	1.4	< 0.5	32	553	< 1	11	36	142	1.49	13	< 10	19	< 0.5	5	0.71	9
1227008166	76.9	15.7	-61.1	83.3	0.189	8.54	58	0.3	< 0.5	17	410	< 1	8	6	54	1.91	6	13	24	< 0.5	2	1.28	7
1229052137	58.8	15.1	-43.7	64.6	0.234	9.02	315	6.4	3.1	170	729	1	13	12	729	1.98	29	10	30	< 0.5	3	0.89	11
V845140							1170	4.2	< 0.5	22	142	6	4	< 2	25	0.56	< 2	< 10	23	< 0.5	< 2	0.61	6
1229052024	26.8	9.24	-17.5	29.7	0.311	9.43	52	0.2	< 0.5	36	210	1	8	3	53	2.12	11	< 10	36	< 0.5	2	1.04	7
1229052061	29.3	15.4	-13.9	32.2	0.478	9.06	62	0.3	1.0	11	284	< 1	11	3	328	1.58	8	11	31	< 0.5	< 2	0.97	7
1227008074	23.5	11.4	-12.2	26.3	0.432	8.93	72	< 0.2	0.7	35	594	< 1	12	4	246	2.81	6	< 10	41	< 0.5	< 2	1.49	8
1230095062	75.3	9.62	-65.7	80.5	0.119	8.37	3300	2.3	0.6	30	494	< 1	15	11	124	1.49	21	< 10	24	< 0.5	8	0.79	9
1230095004	29.2	17.0	-12.2	32.8	0.518	9.20	38	0.4	2.6	29	660	< 1	14	9	759	1.65	9	< 10	37	< 0.5	< 2	1.00	9
1227008323	3.13	11.7	8.62	3.06	3.83	8.95	9	0.2	< 0.5	107	552	< 1	56	< 2	56	4.34	2	< 10	14	< 0.5	< 2	3.26	26
1229052036	28.3	32.7	4.40	31.5	1.04	9.20	22	< 0.2	0.7	7	214	2	16	< 2	184	1.53	8	< 10	39	< 0.5	< 2	1.96	9
1227008219	4.69	19.7	15.0	4.59	4.29	9.12	14	0.3	< 0.5	107	682	< 1	59	21	69	4.46	5	< 10	16	< 0.5	< 2	3.61	27
1227004325	66.7	47.7	-19.0	72.3	0.660	8.59	47	1.3	< 0.5	15	602	< 1	13	27	89	1.27	20	< 10	26	< 0.5	< 2	2.32	9
1227004714	52.3	5.87	-46.4	54.8	0.107	8.61	61	1.1	< 0.5	30	236	2	8	10	52	1.31	21	< 10	29	< 0.5	2	0.55	8
1230094236	37.6	30.1	-7.51	42.0	0.717	8.85	76	0.7	< 0.5	53	605	3	21	4	110	1.42	13	< 10	41	< 0.5	2	1.50	10
1227008245	2.81	9.62	6.80	2.76	3.49	9.30	< 5	< 0.2	< 0.5	112	545	< 1	59	< 2	50	5.06	< 2	< 10	16	< 0.5	< 2	3.75	25
1227008236	77.7	18.2	-59.5	83.6	0.218	8.65	180	0.4	< 0.5	62	494	1	20	4	62	2.55	18	< 10	25	< 0.5	3	1.80	10
1227008256	24.7	16.9	-7.81	27.9	0.605	8.76	14	< 0.2	< 0.5	18	429	< 1	12	6	71	2.40	7	16	61	< 0.5	< 2	1.38	9
1227008273	92.1	7.37	-84.7	98.9	0.0745	8.58	97	0.3	< 0.5	46	572	2	14	< 2	65	2.04	5	< 10	23	< 0.5	5	0.94	8
1227008307	93.5	6.23	-87.3	98.3	0.0634	8.35	81	0.3	< 0.5	23	539	2	16	5	87	1.52	5	< 10	22	< 0.5	4	0.48	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227007017	48.2	11.5	-36.8	53.3	0.215	8.47	127	0.4	3.7	78	547	4	13	2	891	1.51	5	< 10	34	< 0.5	< 2	0.92	8
1227007071	39.8	16.2	-23.6	47.2	0.343	8.56	976	1.2	14.5	206	730	2	14	3	3360	1.61	5	< 10	36	< 0.5	< 2	1.22	8
1227007127	43.8	23.8	-20.1	47.5	0.501	8.55	206	0.6	0.8	104	468	4	16	2	270	1.94	10	< 10	30	< 0.5	< 2	1.79	10
1227007165	7.19	9.75	2.56	7.04	1.38	9.54	30	< 0.2	< 0.5	129	412	< 1	48	< 2	58	4.80	< 2	< 10	16	< 0.5	2	3.61	22
1230094213	210	32.7	-177	229	0.143	8.08	185	3.3	1.3	114	1010	< 1	54	< 2	357	2.19	14	< 10	< 10	< 0.5	14	1.67	37
1227007177	47.1	16.3	-30.8	51.1	0.318	8.80	254	0.8	1.9	162	438	3	16	2	554	1.09	15	< 10	36	< 0.5	3	0.90	8
V845141							751	3.2	< 0.5	33	267	14	11	15	45	1.13	4	< 10	57	< 0.5	< 2	2.05	10
1227007057	46.2	15.8	-30.5	49.6	0.318	9.20	36	0.3	< 0.5	48	524	3	14	13	100	1.56	4	< 10	35	< 0.5	< 2	1.22	8
1229052015	29.8	46.6	16.8	33.1	1.41	9.26	25	< 0.2	< 0.5	12	202	< 1	14	5	117	1.39	10	< 10	33	< 0.5	2	2.47	8
1229052309	37.0	9.73	-27.2	40.1	0.243	9.25	72	< 0.2	< 0.5	31	224	2	26	7	52	1.47	7	< 10	27	< 0.5	< 2	0.75	7
1227005007	74.0	24.0	-50.1	81.5	0.294	8.98	68	0.7	1.4	42	507	< 1	10	4	352	1.31	11	< 10	26	< 0.5	< 2	1.32	9
1227005056	63.7	28.3	-35.4	69.5	0.407	8.83	66	0.6	1.1	46	502	1	14	5	295	1.42	9	< 10	30	< 0.5	2	1.50	8
1230094240	26.5	18.2	-8.22	29.7	0.614	9.12	71	0.8	< 0.5	32	624	1	15	9	105	2.40	23	< 10	53	< 0.5	2	1.51	8
1227005040	70.6	24.4	-46.2	75.9	0.321	8.80	105	0.6	0.9	38	620	11	37	7	225	1.40	9	< 10	30	< 0.5	3	1.44	9
1227007154	42.1	29.8	-12.3	45.6	0.652	9.09	102	0.6	< 0.5	71	417	3	16	13	153	0.95	8	< 10	30	< 0.5	< 2	1.38	8
1230093408	25.3	18.0	-7.30	24.8	0.726	9.19	106	0.3	< 0.5	23	643	< 1	15	2	88	2.32	9	< 10	48	< 0.5	< 2	1.62	7
1227007013	52.9	10.0	-42.9	57.3	0.175	8.67	162	0.4	3.0	91	674	1	18	< 2	785	1.50	9	< 10	28	< 0.5	3	0.78	10
1227007076	49.1	23.3	-25.7	53.6	0.435	8.73	259	0.4	0.8	130	430	3	12	< 2	241	1.04	17	< 10	30	< 0.5	2	1.07	8
1227007186	57.8	15.2	-42.6	63.1	0.242	8.72	126	0.8	< 0.5	163	334	6	14	3	70	0.99	16	< 10	27	< 0.5	3	0.84	8
1227007040	46.6	11.0	-35.6	50.5	0.217	8.61	167	0.3	3.0	80	532	2	17	3	772	1.27	7	< 10	35	< 0.5	< 2	0.69	8
1227007219	82.3	11.6	-70.7	86.7	0.134	8.53	418	1.2	< 0.5	277	264	5	14	4	68	1.17	19	< 10	23	< 0.5	6	0.66	9
1230093419	13.8	10.7	-3.04	13.5	0.795	8.47	54	0.2	< 0.5	21	762	< 1	14	5	109	1.82	10	< 10	47	< 0.5	< 2	0.74	9
1229052319	19.4	42.5	23.1	19.0	2.24	8.91	104	0.8	< 0.5	15	607	< 1	8	2	150	2.06	7	12	41	< 0.5	< 2	2.10	7
1229052341	51.2	19.5	-31.8	55.1	0.353	8.76	96	1.0	< 0.5	22	350	1	29	4	188	1.18	14	< 10	26	< 0.5	< 2	1.00	8
1227010012	64.1	14.0	-50.1	68.9	0.203	8.77	88	0.5	< 0.5	65	365	3	11	4	99	1.45	14	< 10	20	< 0.5	3	0.96	9
V845142							119	1.8	< 0.5	58	364	4	12	8	66	1.47	5	< 10	83	< 0.5	5	1.23	17
1227011143	81.1	-4.72	-85.9	85.1	-0.0555	8.43	598	0.7	< 0.5	70	338	2	10	3	118	1.60	13	< 10	19	< 0.5	9	0.85	7
1234005466	8.75	15.4	6.63	8.57	1.79	9.33	11	0.2	0.6	12	537	< 1	15	< 2	185	1.73	5	< 10	58	< 0.5	< 2	1.19	8
1227012406	43.6	-0.498	-44.1	49.0	-0.0102	8.65	604	2.1	9.4	123	924	< 1	13	134	2240	1.82	68	< 10	22	< 0.5	< 2	1.04	9
1227012365	31.5	9.49	-22.0	34.6	0.274	8.63	339	0.6	3.2	37	816	< 1	12	46	749	1.84	63	< 10	27	< 0.5	< 2	0.70	9
1227011230	46.2	16.1	-30.1	51.5	0.313	8.64	640	2.8	< 0.5	1240	477	2	13	3	76	1.53	8	< 10	28	< 0.5	4	1.02	8
1227012325	57.0	37.6	-19.3	63.7	0.591	8.63	445	3.2	10.5	82	726	< 1	10	22	2570	0.91	72	< 10	21	< 0.5	2	1.63	8
1227011249	70.5	11.0	-59.5	77.8	0.141	8.69	260	1.3	1.9	46	1360	1	29	14	742	3.09	36	< 10	25	< 0.5	< 2	1.52	19
1227011281	38.8	48.8	9.91	42.9	1.14	8.89	81	0.9	< 0.5	137	631	2	15	6	152	1.13	20	< 10	34	< 0.5	< 2	2.01	8
1227011266	35.4	9.72	-25.7	38.6	0.252	8.86	69	0.5	< 0.5	83	491	< 1	17	3	128	1.42	10	< 10	27	< 0.5	3	0.85	8
1227011291	46.3	5.47	-40.9	53.0	0.103	8.71	235	1.6	5.9	112	995	1	32	253	1640	2.52	55	< 10	28	< 0.5	5	1.29	17
1227011177	36.1	32.2	-3.89	39.8	0.810	8.70	259	0.9	0.6	116	640	< 1	13	6	174	2.07	15	< 10	25	< 0.5	3	1.45	7
1227012308	54.5	3.24	-51.2	59.1	0.0548	8.52	231	1.1	2.5	58	880	1	13	57	593	1.77	82	< 10	23	< 0.5	< 2	1.64	8
1227012285	36.1	39.1	2.95	39.2	0.997	8.54	63	0.4	0.7	14	750	< 1	9	6	195	0.67	26	< 10	31	< 0.5	< 2	1.70	7
1234005268	15.0	36.3	21.3	18.7	1.94	9.47	51	0.6	2.7	13	564	< 1	14	3	659	1.33	10	< 10	65	< 0.5	< 2	1.68	7
1227011304	38.5	19.7	-18.8	42.0	0.470	8.81	82	0.8	< 0.5	83	550	1	11	5	61	1.86	14	< 10	31	< 0.5	< 2	1.47	7
1227011309	32.7	19.1	-13.6	37.1	0.516	9.09	257	0.5	< 0.5	90	434	2	20	2	158	1.16	8	< 10	32	< 0.5	4	0.96	7
1234005465	9.47	24.3	14.9	13.2	1.85	9.36	28	0.3	< 0.5	8	569	< 1	16	3	168	1.68	5	< 10	52	< 0.5	< 2	1.73	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
V845136	12	3.19	< 10	< 1	0.23	< 10	0.54	0.216	0.060	0.06	< 2	3	36	0.46	8	< 2	< 10	95	< 10	14	14	0.01	0.07
1227003105	138	3.25	< 10	< 1	0.15	12	0.86	0.141	0.038	2.18	< 2	< 1	64	< 0.01	2	< 2	< 10	12	< 10	2	15	0.23	2.07
1227003147	167	2.95	< 10	< 1	0.13	12	0.80	0.118	0.038	2.08	< 2	< 1	49	< 0.01	< 1	< 2	< 10	12	< 10	2	14	0.22	1.95
1227003096	121	2.71	< 10	< 1	0.21	13	0.83	0.056	0.042	2.09	< 2	1	27	0.03	< 1	< 2	< 10	17	< 10	2	20	0.22	2.05
1227003138	145	3.23	< 10	< 1	0.15	13	0.80	0.128	0.040	2.38	< 2	< 1	57	< 0.01	< 1	< 2	< 10	12	< 10	3	16	0.21	2.37
1227003197	215	2.50	< 10	< 1	0.12	12	0.70	0.053	0.039	1.86	< 2	1	25	0.04	3	< 2	< 10	16	< 10	3	16	0.29	1.73
1230096130	127	1.72	< 10	< 1	0.13	15	0.82	0.101	0.043	0.76	< 2	1	49	< 0.01	3	< 2	< 10	14	< 10	2	10	0.14	0.69
1227003162	187	2.52	< 10	< 1	0.14	13	0.73	0.055	0.040	1.74	< 2	1	24	0.03	< 1	< 2	< 10	17	26	2	17	0.27	1.50
1227003170	148	2.74	< 10	< 1	0.11	12	0.77	0.103	0.038	2.09	< 2	< 1	41	< 0.01	2	< 2	< 10	12	< 10	2	15	0.08	2.05
1227003212	157	2.66	< 10	< 1	0.12	12	0.82	0.058	0.042	1.97	2	1	25	0.04	2	< 2	< 10	17	< 10	3	18	0.19	1.86
1227003235	150	2.62	< 10	< 1	0.10	12	0.70	0.054	0.040	1.94	2	1	24	0.03	< 1	< 2	< 10	15	< 10	3	17	0.17	1.84
1230096001	116	2.73	< 10	< 1	0.19	13	1.30	0.096	0.044	1.76	< 2	1	39	0.03	< 1	< 2	< 10	17	< 10	3	15	0.12	1.60
1230096047	70	2.20	< 10	< 1	0.20	13	0.86	0.103	0.039	1.82	< 2	< 1	39	< 0.01	1	< 2	< 10	10	< 10	2	14	0.14	1.74
1230096076	116	2.13	< 10	< 1	0.17	15	0.97	0.086	0.041	1.47	< 2	< 1	36	< 0.01	2	< 2	< 10	9	< 10	1	12	0.21	1.41
1230096123	126	2.37	< 10	< 1	0.15	14	0.50	0.224	0.037	2.14	< 2	< 1	164	< 0.01	< 1	< 2	< 10	10	< 10	1	16	0.23	2.03
1230096006	83	1.99	< 10	< 1	0.17	< 10	1.28	0.149	0.036	0.61	< 2	< 1	123	0.02	< 1	< 2	< 10	15	< 10	2	8	0.29	0.63
1227003248	185	2.52	< 10	< 1	0.14	13	0.76	0.072	0.041	1.63	< 2	1	33	0.03	3	< 2	< 10	18	< 10	3	17	0.30	1.49
1230096093	215	2.94	< 10	< 1	0.21	28	2.27	0.059	0.136	0.89	< 2	3	55	0.12	2	< 2	< 10	38	< 10	4	7	0.65	0.84
1230096111	144	2.36	< 10	< 1	0.21	18	1.76	0.098	0.086	0.68	< 2	2	76	0.10	4	< 2	< 10	28	< 10	3	3	0.48	0.69
V845137	11	3.92	< 10	< 1	0.30	11	0.69	0.168	0.073	0.07	< 2	5	32	0.43	10	< 2	< 10	118	< 10	14	13	0.04	0.08
1227004122	137	2.12	< 10	< 1	0.18	15	0.52	0.166	0.044	1.76	< 2	< 1	129	< 0.01	< 1	< 2	< 10	8	< 10	2	12	0.29	1.68
1227004117	190	2.76	< 10	< 1	0.17	22	1.70	0.071	0.066	2.29	< 2	3	54	< 0.01	2	< 2	< 10	22	< 10	3	8	0.69	0.99
1229051027	96	2.21	< 10	< 1	0.32	11	0.38	0.028	0.041	2.20	3	< 1	32	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.72	2.06
1227003049	86	2.85	< 10	< 1	0.13	15	1.17	0.187	0.046	2.91	< 2	< 1	90	< 0.01	< 1	< 2	< 10	9	< 10	2	16	0.29	2.82
1234003048	104	2.49	< 10	< 1	0.26	21	1.20	0.067	0.057	0.13	< 2	2	57	0.14	< 1	< 2	< 10	42	< 10	3	6	0.36	0.12
1227004155	131	2.47	< 10	< 1	0.15	17	1.13	0.122	0.049	2.59	< 2	< 1	67	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.61	2.34
1229051069	99	1.65	< 10	< 1	0.13	11	0.39	0.053	0.037	1.13	2	< 1	47	< 0.01	< 1	< 2	< 10	8	< 10	< 1	6	0.37	1.04
1234003005	128	1.88	< 10	< 1	0.39	13	1.00	0.064	0.044	0.25	< 2	2	22	0.09	< 1	< 2	< 10	26	< 10	2	10	0.27	0.24
1234003102	93	2.55	< 10	< 1	0.50	25	1.00	0.108	0.064	0.57	< 2	3	64	0.14	5	< 2	< 10	43	< 10	4	11	0.19	0.53
1227004149	63	1.99	< 10	< 1	0.17	13	0.66	0.134	0.044	1.87	2	< 1	89	< 0.01	< 1	< 2	< 10	7	< 10	2	14	0.28	1.84
1227004093	75	1.45	< 10	< 1	0.17	13	0.45	0.145	0.040	0.43	< 2	< 1	157	0.01	< 1	< 2	< 10	8	< 10	2	5	0.29	0.43
1227004167	76	2.47	< 10	< 1	0.25	15	0.95	0.152	0.047	2.66	< 2	< 1	74	< 0.01	< 1	< 2	< 10	8	< 10	3	17	0.24	2.38
1229051045	67	2.52	< 10	< 1	0.32	16	0.68	0.021	0.051	2.46	3	< 1	30	< 0.01	< 1	< 2	< 10	6	< 10	2	14	0.76	2.23
1229051098	100	2.12	< 10	< 1	0.29	16	0.63	0.044	0.049	1.97	3	1	41	< 0.01	< 1	< 2	< 10	11	< 10	2	10	0.57	1.68
1229051004	117	2.17	< 10	< 1	0.41	< 10	0.11	0.018	0.047	2.61	2	< 1	141	< 0.01	< 1	< 2	< 10	5	< 10	2	12	0.46	2.39
1227004124	129	2.01	< 10	< 1	0.20	14	0.44	0.264	0.043	1.33	< 2	< 1	222	< 0.01	< 1	< 2	< 10	8	< 10	2	8	0.18	1.27
1227006040	123	2.35	< 10	< 1	0.21	12	0.73	0.177	0.038	1.91	< 2	1	105	0.05	4	< 2	< 10	16	< 10	2	15	0.27	1.91
1227006024	100	4.27	< 10	< 1	0.04	< 10	1.69	0.513	0.019	0.11	< 2	4	65	0.17	< 1	< 2	< 10	121	< 10	3	2	0.08	0.10
1229051143	158	2.05	< 10	< 1	0.22	14	0.60	0.080	0.041	0.81	< 2	1	43	0.05	< 1	3	< 10	17	< 10	2	11	0.22	0.77
1227003054	136	3.06	< 10	< 1	0.15	12	0.97	0.199	0.039	1.81	2	< 1	98	< 0.01	< 1	< 2	< 10	14	< 10	2	12	0.20	1.77
1227004184	76	2.23	< 10	< 1	0.23	13	0.56	0.051	0.041	2.42	2	< 1	40	< 0.01	5	< 2	< 10	5	< 10	2	17	0.67	2.28
V845138	11	3.12	< 10	< 1	0.25	14	0.44	0.152	0.048	0.04	< 2	2	47	0.30	3	< 2	< 10	60	< 10	15	18	0.40	0.05
1229052122	105	3.46	< 10	< 1	0.26	15	0.85	0.105	0.038	2.68	< 2	< 1	54	< 0.01	4	< 2	< 10	11	< 10	2	11	0.25	2.57
1227005149	113	2.22	< 10	< 1	0.20	14	0.99	0.080	0.046	2.15	< 2	< 1	41	< 0.01	< 1	< 2	< 10	8	< 10	2	14	0.64	1.98
1230095131	61	2.83	< 10	< 1	0.30	12	0.35	0.066	0.039	3.55	6	< 1	26	< 0.01	< 1	< 2	< 10	6	< 10	2	17	0.18	3.08
1230094291	69	1.97	< 10	< 1	0.37	11	0.99	0.160	0.039	1.12	< 2	< 1	68	0.03	< 1	< 2	< 10	15	< 10	2	13	0.23	1.01
1229052074	96	1.78	< 10	< 1	0.21	14	0.85	0.074	0.041	0.84	< 2	< 1	41	0.02	< 1	< 2	< 10	13	< 10	2	7	0.12	0.72
1230093446	293	3.05	< 10	< 1	0.24	17	2.24	0.086	0.072	1.30	< 2	3	63	< 0.01	2	< 2	< 10	32	< 10	2	9	1.07	1.21
1227008003	107	2.20	< 10	< 1	0.20	16	0.99	0.139	0.052	0.64	< 2	1	124	0.03	< 1	< 2	< 10	15	< 10	2	4	0.15	0.59
1230094294	94	2.07	< 10	< 1	0.34	15	0.97	0.111	0.043	1.31	2	< 1	48	0.03	< 1	< 2	< 10	13	< 10	2	12	0.34	1.19
1227008020	155	3.19	< 10	< 1	0.20	12	1.00	0.160	0.042	2.20	3	< 1	151	0.04	< 1	< 2	< 10	16	< 10	2	15	0.21	2.10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227008037	142	3.49	< 10	< 1	0.18	14	1.01	0.130	0.040	2.90	< 2	< 1	102	0.02	< 1	< 2	< 10	14	< 10	2	16	0.25	2.75
1227008094	124	2.83	< 10	< 1	0.23	16	1.05	0.134	0.044	2.71	< 2	< 1	83	0.02	< 1	< 2	< 10	8	< 10	2	16	0.33	2.48
1229052088	99	2.49	< 10	< 1	0.21	23	1.67	0.169	0.065	1.02	< 2	1	91	0.02	2	< 2	< 10	22	< 10	2	3	0.24	0.96
1229052129	145	2.13	< 10	< 1	0.19	14	0.86	0.091	0.040	0.74	< 2	1	52	0.03	< 1	< 2	< 10	16	< 10	2	8	0.23	0.70
1227008103	146	3.27	< 10	< 1	0.19	11	0.99	0.131	0.042	3.09	3	< 1	98	0.01	2	< 2	< 10	10	< 10	2	15	0.17	2.71
1230093435	171	2.44	< 10	< 1	0.25	13	1.17	0.205	0.046	0.92	3	1	131	0.05	< 1	< 2	< 10	20	< 10	2	8	0.41	0.87
1227005109	111	2.94	< 10	< 1	0.28	18	1.19	0.222	0.055	2.02	3	1	103	0.02	1	< 2	< 10	21	< 10	3	11	0.52	1.89
1227008118	87	2.06	< 10	< 1	0.41	14	1.05	0.098	0.049	0.52	< 2	1	105	0.03	4	< 2	< 10	18	< 10	2	6	0.22	0.48
1230093459	77	1.70	< 10	1	0.21	17	0.76	0.088	0.048	0.90	< 2	< 1	41	< 0.01	< 1	< 2	< 10	9	< 10	2	9	0.15	0.82
1230095007	99	3.35	< 10	< 1	0.19	11	1.29	0.116	0.046	2.17	< 2	2	46	0.01	< 1	< 2	< 10	25	< 10	3	14	0.29	2.07
1230095024	87	2.56	< 10	< 1	0.26	11	1.10	0.080	0.040	1.88	< 2	< 1	37	0.02	< 1	< 2	< 10	15	< 10	2	13	0.34	1.76
1227008137	126	4.14	< 10	< 1	0.17	20	1.53	0.122	0.057	2.74	< 2	1	121	< 0.01	< 1	< 2	< 10	19	< 10	2	11	0.35	2.66
V845139	11	3.98	< 10	< 1	0.31	10	0.69	0.175	0.072	0.07	< 2	5	33	0.44	8	< 2	< 10	122	< 10	15	11	0.03	0.07
1227005032	169	2.75	< 10	< 1	0.12	20	1.30	0.129	0.065	2.80	< 2	2	57	< 0.01	2	< 2	< 10	17	< 10	3	13	0.32	2.61
1227005183	61	2.58	< 10	< 1	0.25	< 10	0.83	0.050	0.050	3.02	18	< 1	33	< 0.01	13	< 2	< 10	6	< 10	1	17	0.69	2.81
1227005031	204	2.96	< 10	< 1	0.10	21	1.54	0.101	0.069	2.75	< 2	2	49	< 0.01	2	< 2	< 10	22	< 10	3	9	0.46	2.68
1227005141	73	2.21	< 10	< 1	0.22	14	1.06	0.110	0.047	1.98	< 2	< 1	49	< 0.01	< 1	< 2	< 10	9	< 10	2	12	0.62	1.84
1229052141	142	2.53	< 10	3	0.20	< 10	1.30	0.070	0.037	1.73	< 2	< 1	37	< 0.01	3	< 2	< 10	9	< 10	1	11	0.14	1.70
1229052183	58	2.93	< 10	< 1	0.31	12	1.58	0.023	0.041	2.00	< 2	< 1	17	< 0.01	4	< 2	< 10	12	< 10	1	9	0.10	1.80
1230095122	85	1.87	< 10	< 1	0.25	11	0.70	0.110	0.038	1.60	< 2	< 1	41	0.01	< 1	< 2	< 10	11	< 10	2	19	0.08	1.59
1227005165	83	2.28	< 10	< 1	0.22	14	1.09	0.074	0.046	2.18	< 2	< 1	41	< 0.01	< 1	< 2	< 10	8	< 10	2	12	0.85	1.99
1227008254	56	2.10	< 10	< 1	0.16	15	0.97	0.062	0.050	0.58	< 2	< 1	96	< 0.01	< 1	< 2	< 10	13	< 10	1	3	0.22	0.56
1227008082	86	2.19	< 10	< 1	0.26	15	0.97	0.121	0.052	0.68	< 2	1	127	0.04	4	< 2	< 10	17	< 10	2	3	0.21	0.68
1227008116	128	4.26	< 10	< 1	0.07	< 10	1.68	0.435	0.023	0.25	< 2	3	71	0.21	3	< 2	< 10	121	< 10	3	4	0.20	0.22
1227005175	62	2.16	< 10	< 1	0.25	< 10	1.29	0.062	0.042	2.10	< 2	< 1	38	< 0.01	< 1	< 2	< 10	7	< 10	1	10	0.84	2.03
1229052153	79	2.16	< 10	< 1	0.22	10	0.81	0.054	0.038	1.23	< 2	< 1	51	0.01	3	< 2	< 10	14	< 10	2	9	0.33	1.16
1230094252	97	2.76	< 10	< 1	0.23	14	1.16	0.050	0.047	1.78	< 2	1	26	< 0.01	< 1	< 2	< 10	20	< 10	3	13	0.41	1.74
1230095080	58	3.21	< 10	< 1	0.32	11	1.06	0.087	0.043	3.14	< 2	< 1	33	< 0.01	< 1	< 2	< 10	12	< 10	2	23	0.11	2.94
1227008166	89	2.94	< 10	< 1	0.22	14	1.16	0.073	0.040	2.88	< 2	< 1	64	< 0.01	< 1	< 2	< 10	8	< 10	2	15	0.23	2.72
1229052137	67	3.29	< 10	< 1	0.24	13	1.52	0.060	0.045	2.25	< 2	1	33	0.02	4	< 2	< 10	19	< 10	2	16	0.19	2.11
V845140	8	1.51	< 10	< 1	0.08	< 10	0.12	0.134	0.030	0.02	< 2	< 1	22	0.28	1	< 2	< 10	37	< 10	7	17	0.05	0.03
1229052024	124	1.95	< 10	< 1	0.17	12	0.82	0.166	0.039	1.04	< 2	< 1	90	< 0.01	< 1	< 2	< 10	11	< 10	2	6	0.17	0.97
1229052061	77	1.87	< 10	< 1	0.20	13	0.89	0.091	0.039	1.15	< 2	< 1	50	< 0.01	1	< 2	< 10	12	< 10	1	11	0.18	1.05
1227008074	127	2.45	< 10	< 1	0.18	14	1.14	0.091	0.050	0.88	< 2	< 1	98	0.02	< 1	< 2	< 10	14	< 10	2	4	0.23	0.86
1230095062	101	3.10	< 10	< 1	0.27	12	0.78	0.122	0.039	2.80	< 2	< 1	46	0.01	2	< 2	< 10	13	< 10	2	20	0.15	2.63
1230095004	125	2.14	< 10	< 1	0.17	10	0.90	0.112	0.038	1.14	< 2	1	46	< 0.01	< 1	< 2	< 10	13	< 10	2	15	0.18	1.07
1227008323	157	4.77	< 10	< 1	0.05	< 10	2.23	0.401	0.020	0.10	< 2	5	62	0.24	< 1	< 2	< 10	138	< 10	3	3	0.20	0.10
1229052036	179	1.63	< 10	< 1	0.18	11	0.67	0.137	0.037	1.08	< 2	< 1	105	< 0.01	< 1	< 2	< 10	11	< 10	1	11	0.40	1.03
1227008219	120	4.94	< 10	< 1	0.05	< 10	2.82	0.382	0.025	0.15	< 2	8	71	0.22	< 1	< 2	< 10	141	< 10	3	3	0.20	0.15
1227004325	76	2.25	< 10	< 1	0.27	14	0.45	0.122	0.044	2.48	< 2	< 1	80	< 0.01	< 1	< 2	< 10	6	< 10	2	14	0.57	2.36
1227004714	100	1.93	< 10	< 1	0.19	15	0.29	0.097	0.045	1.85	2	< 1	79	< 0.01	7	< 2	< 10	7	< 10	2	15	0.04	1.79
1230094236	196	2.61	< 10	< 1	0.23	14	1.07	0.062	0.047	1.48	< 2	2	31	0.03	< 1	< 2	< 10	24	< 10	3	12	0.40	1.37
1227008245	151	4.55	< 10	< 1	0.05	< 10	2.09	0.571	0.021	0.09	< 2	5	72	0.19	< 1	< 2	< 10	120	< 10	2	3	0.17	0.09
1227008236	87	3.43	< 10	< 1	0.19	16	1.23	0.150	0.049	2.78	< 2	1	121	0.02	7	< 2	< 10	14	< 10	2	16	0.23	2.73
1227008256	139	2.37	< 10	< 1	0.37	14	1.17	0.071	0.049	0.91	< 2	1	66	0.01	< 1	< 2	< 10	16	< 10	2	6	0.44	0.91
1227008273	98	3.63	< 10	< 1	0.22	13	1.33	0.116	0.041	3.37	< 2	< 1	58	0.01	< 1	< 2	< 10	9	< 10	2	20	0.08	3.23
1227008307	119	3.71	< 10	< 1	0.19	14	1.20	0.055	0.039	3.48	< 2	< 1	39	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.14	3.21
1227007017	195	2.49	< 10	< 1	0.15	12	0.89	0.134	0.040	1.79	2	1	55	0.03	< 1	< 2	< 10	15	< 10	2	15	0.22	1.74
1227007071	188	2.46	< 10	< 1	0.14	13	0.82	0.137	0.041	1.55	< 2	1	67	0.02	3	< 2	< 10	15	< 10	2	14	0.26	1.54
1227007127	167	2.62	< 10	< 1	0.14	11	0.94	0.200	0.038	1.58	< 2	1	88	0.04	< 1	< 2	< 10	28	< 10	2	12	0.32	1.55
1227007165	166	4.21	< 10	< 1	0.05	< 10	1.65	0.494	0.020	0.23	< 2	3	63	0.20	< 1	< 2	< 10	114	< 10	2	3	0.19	0.23

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230094213	165	7.82	< 10	< 1	0.31	< 10	1.72	0.131	0.072	7.62	3	9	65	0.05	2	< 2	< 10	132	< 10	7	11	0.43	7.48
1227007177	321	2.67	< 10	< 1	0.30	13	0.82	0.057	0.041	1.80	< 2	1	26	0.04	< 1	< 2	< 10	18	< 10	3	20	0.28	1.67
V845141	11	3.14	< 10	< 1	0.25	15	0.44	0.155	0.048	0.04	< 2	2	48	0.30	5	< 2	< 10	61	< 10	15	16	0.39	0.05
1227007057	179	2.31	< 10	< 1	0.15	12	0.92	0.132	0.040	1.61	< 2	1	62	0.03	< 1	< 2	< 10	15	< 10	2	13	0.25	1.62
1229052015	178	1.56	< 10	< 1	0.16	11	0.67	0.137	0.037	1.10	< 2	< 1	100	< 0.01	< 1	< 2	< 10	9	< 10	1	7	0.65	1.08
1229052309	264	2.43	< 10	< 1	0.13	14	0.88	0.109	0.038	1.34	< 2	1	49	0.01	< 1	< 2	< 10	16	< 10	2	16	0.16	1.31
1227005007	93	2.53	< 10	< 1	0.14	20	0.95	0.113	0.056	2.77	< 2	< 1	42	< 0.01	< 1	< 2	< 10	8	< 10	2	19	0.29	2.66
1227005056	158	2.27	< 10	< 1	0.16	17	0.93	0.147	0.050	2.36	2	< 1	76	< 0.01	< 1	< 2	< 10	9	< 10	2	16	0.39	2.27
1230094240	122	2.33	< 10	< 1	0.39	11	1.40	0.187	0.038	1.04	< 2	1	138	0.04	2	< 2	< 10	19	< 10	2	9	0.27	0.97
1227005040	186	3.09	< 10	< 1	0.17	19	0.89	0.134	0.051	2.60	< 2	< 1	62	< 0.01	6	< 2	< 10	9	< 10	3	19	0.37	2.48
1227007154	239	2.34	< 10	< 1	0.14	12	0.70	0.062	0.038	1.57	3	1	34	0.01	< 1	< 2	< 10	14	< 10	2	16	0.36	1.49
1230093408	182	2.28	< 10	< 1	0.30	12	1.00	0.248	0.045	0.86	< 2	1	143	0.06	< 1	< 2	< 10	19	< 10	2	7	0.23	0.81
1227007013	136	2.98	< 10	< 1	0.14	17	0.86	0.100	0.046	1.96	< 2	1	41	0.02	< 1	< 2	< 10	18	< 10	3	16	0.09	1.87
1227007076	148	2.37	< 10	< 1	0.17	12	0.70	0.075	0.039	1.79	< 2	1	35	< 0.01	< 1	< 2	< 10	14	< 10	2	16	0.25	1.75
1227007186	219	2.76	< 10	< 1	0.20	12	0.75	0.054	0.038	2.11	< 2	1	21	0.02	< 1	< 2	< 10	18	< 10	3	19	0.19	2.06
1227007040	192	2.41	< 10	< 1	0.15	13	0.75	0.092	0.040	1.66	< 2	1	35	< 0.01	< 1	< 2	< 10	12	< 10	2	17	0.17	1.65
1227007219	160	3.34	< 10	< 1	0.18	12	0.82	0.076	0.040	2.91	< 2	< 1	41	0.02	< 1	< 2	< 10	11	< 10	3	22	0.32	2.83
1230093419	117	2.22	< 10	< 1	0.18	14	1.03	0.109	0.044	0.50	< 2	< 1	48	0.03	< 1	< 2	< 10	13	< 10	2	5	0.15	0.44
1229052319	97	2.02	< 10	< 1	0.20	19	1.17	0.089	0.049	0.68	< 2	< 1	58	< 0.01	1	< 2	< 10	11	< 10	1	6	0.47	0.62
1229052341	213	2.29	< 10	< 1	0.23	16	0.90	0.056	0.056	1.86	< 2	1	31	0.01	1	< 2	< 10	12	< 10	2	14	0.26	1.80
1227010012	103	2.38	< 10	< 1	0.17	13	1.02	0.082	0.043	2.42	< 2	< 1	37	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.15	2.25
V845142	12	3.34	< 10	< 1	0.24	< 10	0.57	0.244	0.058	0.06	< 2	4	40	0.46	7	< 2	< 10	101	< 10	15	11	0.02	0.07
1227011143	78	3.24	< 10	< 1	0.20	13	0.93	0.117	0.040	2.89	< 2	< 1	43	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.18	2.78
1234005466	111	2.05	< 10	< 1	0.29	13	0.78	0.122	0.039	0.31	< 2	2	56	0.08	< 1	< 2	< 10	22	< 10	2	7	0.15	0.28
1227012406	80	2.62	< 10	< 1	0.24	14	1.30	0.030	0.048	1.73	< 2	< 1	30	0.04	< 1	< 2	< 10	10	< 10	1	10	0.18	1.60
1227012365	76	2.42	< 10	< 1	0.26	15	1.28	0.033	0.047	1.27	< 2	< 1	26	0.02	< 1	< 2	< 10	9	< 10	1	10	0.12	1.13
1227011230	144	2.75	< 10	< 1	0.22	10	0.84	0.095	0.036	1.82	< 2	< 1	44	0.02	< 1	< 2	< 10	11	< 10	1	16	0.22	1.68
1227012325	86	2.15	< 10	< 1	0.28	12	0.66	0.022	0.040	2.24	7	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.45	2.08
1227011249	94	5.15	< 10	< 1	0.37	13	2.10	0.080	0.058	2.58	< 2	3	52	0.18	7	< 2	< 10	64	< 10	5	19	0.17	2.54
1227011281	227	2.36	< 10	< 1	0.34	12	0.98	0.040	0.042	1.50	< 2	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10	0.90	1.40
1227011266	250	2.27	< 10	< 1	0.16	11	0.85	0.095	0.037	1.40	3	1	45	0.01	< 1	< 2	< 10	16	< 10	2	13	0.19	1.26
1227011291	121	3.91	< 10	< 1	0.31	19	1.98	0.077	0.067	1.80	3	3	68	0.05	6	< 2	< 10	43	< 10	4	9	0.27	1.73
1227011177	164	2.38	< 10	< 1	0.20	11	1.27	0.097	0.038	1.47	< 2	< 1	45	0.02	< 1	< 2	< 10	11	< 10	1	9	0.45	1.30
1227012308	68	2.25	< 10	< 1	0.28	11	0.93	0.080	0.039	2.10	3	< 1	36	0.01	< 1	< 2	< 10	8	< 10	1	17	0.33	1.93
1227012285	89	1.45	< 10	< 1	0.22	< 10	0.55	0.026	0.046	1.43	< 2	< 1	28	< 0.01	< 1	< 2	< 10	4	< 10	1	8	0.68	1.28
1234005268	142	2.00	< 10	< 1	0.35	13	0.87	0.061	0.045	0.60	< 2	2	28	0.07	< 1	< 2	< 10	21	< 10	3	10	0.41	0.61
1227011304	118	2.29	< 10	< 1	0.27	12	0.94	0.116	0.044	1.49	< 2	1	75	0.02	2	< 2	< 10	16	< 10	2	9	0.26	1.37
1227011309	267	2.28	< 10	< 1	0.22	11	0.86	0.064	0.037	1.36	< 2	1	28	0.02	< 1	< 2	< 10	17	< 10	2	14	0.24	1.21
1234005465	149	2.11	< 10	< 1	0.27	13	0.87	0.077	0.042	0.48	2	2	40	0.08	2	< 2	< 10	23	< 10	2	7	0.30	0.43

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
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SGR-1b Meas																							
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SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (Aqua Regia) Meas								42.5		> 10000				288	1240						23		102
OREAS 98 (Aqua Regia) Cert								42.8		147000.0				343	1302						92.8		111
OREAS 98 (Aqua Regia) Meas								41.0		> 10000				279	1210						65		102
OREAS 98 (Aqua Regia) Cert								42.8		147000.0				343	1302						92.8		111
OREAS 98 (Aqua Regia) Meas								40.8		> 10000				275	1190						17		100
OREAS 98 (Aqua Regia) Cert								42.8		147000.0				343	1302						92.8		111
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.12																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		44.3				7.98																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		44.4																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2210	772	< 1	37	60	261	2.70	11		79	0.8	10	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2070	759	< 1	34	56	253	2.56	7		76	0.7	6	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2190	766	< 1	36	60	260	2.72	4		82	0.8	9	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4390	876	< 1	35	90	342	2.70	8		64	0.7	19	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4310	864	< 1	33	81	342	2.65	6		56	0.7	17	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.0	< 0.5	4220	855	< 1	34	72	328	2.67	8		63	0.7	16	0.43	22
OREAS 923								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas								11.7		> 10000				93	439						< 2		46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				88	430						8		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.5		> 10000				92	433						< 2		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							534																
OREAS 218 Cert							531																
OREAS 218 Meas							531																
OREAS 218 Cert							531																
OREAS 218 Meas							498																
OREAS 218 Cert							531																
Oreas 621 (Aqua Regia) Meas								73.4	308	3700	557	14	26	> 5000	> 10000	1.71	78			0.6	3	1.65	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								73.7	295	3710	557	14	26	> 5000	> 10000	1.70	79			0.6	7	1.66	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	279	3450	539	12	27	> 5000	> 10000	1.59	73			0.6	5	1.74	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										371	181	2	273	6	28	7.30			135	1.0	< 2	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										358	175	2	254	5	27	6.94			130	1.0	< 2	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										351	169	< 1	251	3	23	6.69			131	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire							3030																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1227003170 Orig								0.5	< 0.5	171	431	3	12	3	54	1.24	10	< 10	28	< 0.5	4	0.65	9
1227003170 Dup								0.6	< 0.5	173	429	3	13	4	56	1.28	7	< 10	31	< 0.5	4	0.66	9
1227003212 Orig							139																
1227003212 Dup							154																
V845137 Orig																							
V845137 Dup																							
1227004122 Orig							212																
1227004122 Dup							218																
1227003049 Orig								0.6	0.6	60	446	1	12	4	186	2.20	9	< 10	24	< 0.5	4	1.30	9
1227003049 Dup								0.6	0.6	61	448	2	12	4	175	2.22	9	< 10	23	< 0.5	5	1.31	9
1227004149 Orig							125																
1227004149 Dup							123																
1227004093 Orig																							
1227004093 Dup																							
1229051045 Orig								0.9	9.3	29	1160	< 1	11	44	2440	0.86	72	< 10	27	< 0.5	< 2	1.87	8
1229051045 Dup								0.9	9.3	31	1160	< 1	10	42	2420	0.86	62	< 10	25	< 0.5	< 2	1.87	9
1227004184 Orig																							
1227004184 Dup																							
1230095131 Orig							349																
1230095131 Dup							270																
1227008003 Orig	18.4	6.35	-12.1	18.1	0.352																		
1227008003 Dup	18.4	6.37	-12.1	18.1	0.352																		
1227008037 Orig								0.7	< 0.5	129	280	3	13	7	49	1.71	10	< 10	27	< 0.5	5	1.16	9
1227008037 Dup								0.6	< 0.5	123	279	3	15	8	51	1.74	8	< 10	29	< 0.5	7	1.15	9
1229052129 Orig							153																
1229052129 Dup							144																
1230095024 Orig																							
1230095024 Dup																							
1227005032 Orig							182																
1227005032 Dup							185																
1227005165 Orig								2.5	0.7	32	1080	< 1	12	61	215	1.32	40	< 10	29	< 0.5	< 2	2.34	8
1227005165 Dup								2.3	0.7	31	1070	< 1	12	55	218	1.33	45	< 10	28	< 0.5	< 2	2.37	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227008254 Orig																							
1227008254 Dup																							
1227008082 Orig						8.74																	
1227008082 Dup						8.79																	
1227008166 Orig							60																
1227008166 Dup							55																
1229052024 Orig																							
1229052024 Dup																							
1230095004 Orig								0.4	2.6	28	660	< 1	14	6	762	1.65	9	< 10	37	< 0.5	< 2	1.00	8
1230095004 Dup								0.4	2.7	30	659	< 1	14	12	756	1.65	8	< 10	37	< 0.5	< 2	0.99	9
1227008219 Orig							13																
1227008219 Dup							14																
1227008245 Orig																							
1227008245 Dup																							
1227008256 Orig								< 0.2	< 0.5	18	432	< 1	12	7	72	2.42	7	16	57	< 0.5	< 2	1.39	9
1227008256 Dup								< 0.2	< 0.5	18	426	< 1	12	4	70	2.39	6	16	65	< 0.5	2	1.38	8
1227008273 Orig	92.1	7.37	-84.7	98.9	0.0745																		
1227008273 Dup	92.1	7.36	-84.7	98.9	0.0744																		
1227007071 Orig							952																
1227007071 Dup							1000																
1227007177 Orig																							
1227007177 Dup																							
1227007013 Orig							152																
1227007013 Dup							172																
1227007076 Orig								0.5	0.7	134	440	3	11	3	245	1.07	17	< 10	28	< 0.5	2	1.08	8
1227007076 Dup								0.4	0.8	126	420	3	13	< 2	238	1.00	16	< 10	31	< 0.5	2	1.05	8
1227011143 Orig							584																
1227011143 Dup							612																
1227011281 Orig								1.0	0.5	137	632	2	13	6	152	1.13	19	< 10	35	< 0.5	2	2.01	7
1227011281 Dup								0.8	< 0.5	137	630	2	16	5	152	1.13	20	< 10	33	< 0.5	< 2	2.01	8
1227012308 Orig																							
1227012308 Dup																							
1227011309 Orig						9.08																	
1227011309 Dup						9.09																	
1234005465 Orig	9.47	24.4	14.9	13.2	1.85																		
1234005465 Dup	9.47	24.3	14.8	13.2	1.85																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
SGR-1b Meas																						27.6	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.1	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.52
SGR-1b Cert																						28	1.53
OREAS 98 (Aqua Regia) Meas											19												
OREAS 98 (Aqua Regia) Cert											14.7												
OREAS 98 (Aqua Regia) Meas											19												
OREAS 98 (Aqua Regia) Cert											14.7												
OREAS 98 (Aqua Regia) Meas											20												
OREAS 98 (Aqua Regia) Cert											14.7												
GS311-4 Meas																						1.08	0.45
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.26	< 10		0.52	33	1.35	0.027	0.064	0.39	< 2	4	17			< 2	< 10	38	< 10	18	20		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.02	< 10		0.49	33	1.33	0.027	0.061	0.36	< 2	3	16			< 2	< 10	36	< 10	17	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.54	34	1.35	0.027	0.064	0.38	3	4	17			< 2	< 10	38	< 10	18	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	6.04	< 10		0.45	31	1.45		0.061	0.69	3	3	15			< 2	< 10	37	< 10	17	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.00	< 10		0.43	30	1.43		0.061	0.69	3	3	15			< 2	< 10	37	< 10	16	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.91	< 10		0.45	31	1.42		0.059	0.67	3	3	15			< 2	< 10	37	< 10	17	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.99	5												
Oreas 96 (Aqua										4.38	4.53												

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 96 (Aqua Regia) Meas										3.87	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.32	4												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	33	3.58	10	4	0.42	18	0.46	0.167	0.035	4.92	132	2	19			< 2	< 10	14	< 10	7	82		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.58	10	4	0.42	17	0.46	0.169	0.034	4.87	118	2	18			< 2	< 10	14	< 10	7	78		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.42	< 10	3	0.39	17	0.44	0.157	0.033	4.54	97	2	18			< 2	< 10	13	< 10	7	62		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	349	15.4	20	< 1	0.13	< 10	0.20	0.041	0.022	0.03		21	14	0.14		< 2	< 10	218		4	18		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	339	14.6	20	2	0.12	< 10	0.19	0.039	0.021	0.02		21	13	0.12		< 2	< 10	211		3	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	343	14.5	20	6	0.12	< 10	0.19	0.039	0.021	0.02		21	13	0.11		< 2	< 10	206		4	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.30
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
1227003170 Orig	149	2.76	< 10	< 1	0.11	12	0.77	0.102	0.038	2.09	2	< 1	41	< 0.01	1	< 2	< 10	12	< 10	2	15		
1227003170 Dup	147	2.73	< 10	< 1	0.11	12	0.76	0.104	0.038	2.09	< 2	< 1	42	< 0.01	3	< 2	< 10	12	< 10	2	15		
1227003212 Orig																						0.19	1.88
1227003212 Dup																						0.19	1.84
V845137 Orig																						0.03	0.08
V845137 Dup																						0.04	0.08
1227004122 Orig																							
1227004122 Dup																							
1227003049 Orig	86	2.86	< 10	< 1	0.13	15	1.16	0.185	0.046	2.88	< 2	< 1	89	< 0.01	< 1	< 2	< 10	9	< 10	2	17		
1227003049 Dup	86	2.84	< 10	< 1	0.13	15	1.18	0.189	0.046	2.94	< 2	< 1	90	< 0.01	< 1	< 2	< 10	9	< 10	2	16		
1227004149 Orig																							
1227004149 Dup																							
1227004093 Orig																						0.29	0.43
1227004093 Dup																						0.28	0.42
1229051045 Orig	68	2.52	< 10	< 1	0.32	16	0.68	0.021	0.051	2.46	4	< 1	30	< 0.01	< 1	< 2	< 10	6	< 10	2	14		
1229051045 Dup	67	2.53	< 10	< 1	0.32	17	0.68	0.022	0.051	2.45	3	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	14		
1227004184 Orig																						0.68	2.29
1227004184 Dup																						0.66	2.26
1230095131 Orig																							
1230095131 Dup																							
1227008003 Orig																							
1227008003 Dup																							
1227008037 Orig	142	3.46	< 10	< 1	0.18	14	1.01	0.129	0.040	2.84	< 2	< 1	102	0.02	1	< 2	< 10	14	< 10	2	16	0.26	2.76
1227008037 Dup	142	3.52	< 10	< 1	0.18	14	1.01	0.132	0.041	2.95	2	< 1	103	0.02	< 1	< 2	< 10	14	< 10	2	16	0.25	2.75
1229052129 Orig																							
1229052129 Dup																							
1230095024 Orig																						0.34	1.72
1230095024 Dup																						0.34	1.79
1227005032 Orig																							
1227005032 Dup																							
1227005165 Orig	83	2.28	< 10	< 1	0.22	14	1.09	0.074	0.046	2.22	< 2	< 1	41	< 0.01	< 1	< 2	< 10	8	< 10	2	13		
1227005165 Dup	83	2.28	< 10	< 1	0.22	14	1.10	0.074	0.047	2.14	< 2	< 1	40	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1227008254 Orig																						0.23	0.57
1227008254 Dup																						0.22	0.54
1227008082 Orig																							
1227008082 Dup																							
1227008166 Orig																							
1227008166 Dup																							
1229052024 Orig																						0.17	0.96
1229052024 Dup																						0.17	0.99
1230095004 Orig	120	2.12	< 10	< 1	0.17	11	0.90	0.112	0.038	1.13	< 2	1	47	< 0.01	< 1	< 2	< 10	13	< 10	2	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230095004 Dup	129	2.15	< 10	< 1	0.17	10	0.90	0.112	0.039	1.16	< 2	1	46	< 0.01	< 1	< 2	< 10	13	< 10	2	14		
1227008219 Orig																							
1227008219 Dup																							
1227008245 Orig																						0.18	0.09
1227008245 Dup																						0.17	0.09
1227008256 Orig	140	2.39	< 10	< 1	0.38	14	1.18	0.071	0.049	0.93	2	1	67	0.01	< 1	< 2	< 10	16	< 10	2	6		
1227008256 Dup	139	2.35	< 10	< 1	0.37	13	1.16	0.071	0.048	0.89	< 2	1	65	0.01	< 1	< 2	< 10	16	< 10	2	6		
1227008273 Orig																							
1227008273 Dup																							
1227007071 Orig																							
1227007071 Dup																							
1227007177 Orig																						0.28	1.67
1227007177 Dup																						0.28	1.67
1227007013 Orig																						0.09	1.89
1227007013 Dup																						0.09	1.86
1227007076 Orig	153	2.42	< 10	< 1	0.17	12	0.71	0.077	0.039	1.83	< 2	1	35	< 0.01	< 1	< 2	< 10	14	< 10	2	15		
1227007076 Dup	142	2.32	< 10	< 1	0.16	12	0.68	0.073	0.038	1.75	< 2	1	34	< 0.01	< 1	< 2	< 10	13	< 10	2	16		
1227011143 Orig																						0.18	2.82
1227011143 Dup																						0.18	2.74
1227011281 Orig	230	2.33	< 10	< 1	0.35	13	0.98	0.041	0.042	1.46	3	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10		
1227011281 Dup	225	2.39	< 10	< 1	0.34	12	0.98	0.040	0.042	1.54	< 2	< 1	50	0.02	< 1	< 2	< 10	13	< 10	2	10		
1227012308 Orig																						0.33	1.94
1227012308 Dup																						0.32	1.92
1227011309 Orig																							
1227011309 Dup																							
1234005465 Orig																							
1234005465 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-01686**
Report Date: **28-Feb-20**
Date Submitted: **11-Feb-20**
Your Reference: **2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-20 21:51:02
4F-C, S	Infrared	2020-02-20 21:52:53

REPORT **A20-01686**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-01686**
Report Date: **28-Feb-20**
Date Submitted: **11-Feb-20**
Your Reference: **2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-02-14 15:27:35
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-02-20 12:26:38
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-02-21 14:44:28

REPORT **A20-01686**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1228030120	47.1	25.2	-21.8	51.5	0.491	8.75	132	0.7	1.0	55	566	< 1	9	16	286	1.31	17	< 10	51	< 0.5	4	1.37	7
1228028190	70.2	72.0	1.79	78.7	0.915	9.07	277	5.6	0.8	32	2230	< 1	23	57	187	1.37	105	< 10	35	< 0.5	3	2.74	11
1334004017	7.70	118	111	14.7	8.06	8080	6	0.4	1.1	95	1750	< 1	71	< 2	256	4.91	5	< 10	65	< 0.5	4	3.93	34
1228029244	26.5	26.6	0.106	29.7	0.894	9.31	44	0.4	< 0.5	20	710	< 1	14	24	153	2.20	24	< 10	56	< 0.5	3	2.26	10
1227009102	59.9	6.00	-53.9	64.6	0.0928	9.29	242	1.2	< 0.5	270	204	2	10	2	120	1.38	8	< 10	54	< 0.5	14	0.42	5
1228030101	65.0	25.0	-40.0	69.5	0.360	8.81	217	1.4	< 0.5	13	339	2	22	6	56	0.82	112	< 10	40	< 0.5	4	1.13	16
1228029192	40.3	27.9	-12.4	45.3	0.616	8.86	81	0.7	< 0.5	16	493	< 1	12	12	52	1.73	27	< 10	44	0.5	< 2	1.93	10
1228030022	5.30	27.8	22.4	10.4	2.67	9.03	260	0.8	5.4	70	711	< 1	14	15	1420	1.70	14	< 10	49	< 0.5	3	1.59	8
1334004045	0.619	117	116	4.29	27.2	9.26	5	0.2	< 0.5	115	1020	< 1	88	< 2	86	3.89	< 2	< 10	22	< 0.5	2	4.56	33
1227009023	75.8	9.46	-66.4	82.7	0.114	9.02	134	0.9	1.0	87	354	16	12	11	312	1.67	11	< 10	36	< 0.5	7	0.75	16
1228030200	21.2	28.9	7.67	24.8	1.17	9.09	30	0.3	0.8	14	827	< 1	16	17	264	2.89	17	11	85	< 0.5	< 2	2.57	9
1227009097	20.9	5.87	-15.1	20.5	0.286	9.22	25	0.2	< 0.5	108	422	< 1	35	< 2	63	4.40	< 2	< 10	50	< 0.5	3	3.03	18
1229055042	48.9	12.8	-36.1	53.9	0.238	9.36	77	1.1	2.5	71	536	1	13	6	766	1.66	21	< 10	54	< 0.5	7	1.06	10
1227009132	4.38	7.47	3.10	4.29	1.74	8.94	9	0.2	< 0.5	154	484	< 1	50	< 2	48	5.00	< 2	< 10	18	< 0.5	2	3.91	22
1228029185	23.7	18.6	-5.13	26.6	0.699	9.55	32	0.4	< 0.5	27	495	1	14	10	89	2.30	13	< 10	48	< 0.5	4	1.56	8
1228029075	48.2	37.1	-11.2	53.0	0.700	8.97	73	1.0	0.7	17	483	1	14	19	77	1.89	25	< 10	43	< 0.5	4	1.88	10
1227009077	85.1	18.2	-66.9	93.1	0.196	8.99	4520	2.7	0.7	525	291	2	11	17	91	1.59	14	< 10	34	< 0.5	18	0.81	7
1228030235	31.9	23.2	-8.69	36.8	0.631	8.91	71	1.1	1.6	17	772	< 1	31	258	521	2.84	23	17	97	< 0.5	< 2	2.31	13
1227009116	6.25	5.10	-1.15	6.13	0.833	9.44	19	0.2	< 0.5	187	452	< 1	41	< 2	55	4.98	< 2	< 10	19	< 0.5	< 2	3.78	23
V860601							123	1.8	< 0.5	61	350	5	12	8	65	1.44	< 2	< 10	79	< 0.5	< 2	1.20	15
1228029207	30.8	33.7	2.84	34.6	0.973	9.50	55	0.5	0.5	27	679	1	14	24	151	2.05	29	< 10	61	< 0.5	3	2.17	11
1227012117	55.7	34.0	-21.7	60.0	0.566	9.47	231	3.7	< 0.5	29	933	< 1	11	42	180	2.08	32	< 10	35	< 0.5	4	2.23	9
1228028182	0.000	25.7	25.7	7.66	3.36	9.05	22	1.3	0.6	222	495	1	12	8	130	2.00	7	< 10	52	< 0.5	< 2	1.91	11
1228028131	59.2	59.0	-0.185	65.5	0.900	9.27	149	3.6	0.6	31	1240	1	14	56	159	1.12	89	< 10	30	< 0.5	3	2.56	11
1228029001	39.3	25.5	-13.7	43.2	0.591	8.97	50	0.9	1.9	56	549	2	12	16	576	1.73	13	< 10	43	< 0.5	5	1.82	9
1228029158	47.4	17.0	-30.4	51.1	0.332	9.20	115	0.6	0.8	27	543	1	12	15	260	2.74	12	< 10	38	< 0.5	4	2.21	9
1334004073	1.14	114	113	6.13	18.6	8.78	< 5	< 0.2	< 0.5	102	1190	< 1	69	< 2	95	3.83	4	< 10	16	< 0.5	< 2	5.21	34
1228028197	73.7	64.3	-9.46	81.5	0.789	8.86	308	6.2	0.7	50	2040	< 1	18	39	215	1.33	121	< 10	31	< 0.5	< 2	2.69	12
1228029077	64.6	59.1	-5.43	71.7	0.825	9.35	77	1.0	0.6	120	636	1	13	25	197	1.04	18	< 10	37	< 0.5	2	2.19	10
1228029199	41.9	22.9	-18.9	45.6	0.503	8.92	72	0.9	0.8	20	714	< 1	12	29	182	2.75	17	< 10	54	< 0.5	< 2	2.41	8
1228029155	64.6	78.6	14.1	72.0	1.09	9.07	81	0.7	0.7	14	1000	1	11	16	171	1.65	25	< 10	38	< 0.5	4	2.88	8
1227012068	47.1	31.5	-15.6	50.2	0.627	9.28	158	2.0	< 0.5	27	754	1	11	27	128	2.33	42	< 10	39	< 0.5	5	2.25	11
1228029106	60.8	32.5	-28.3	66.2	0.491	9.01	109	1.2	< 0.5	31	764	< 1	11	34	151	1.27	23	< 10	41	< 0.5	< 2	1.70	9
1228030037	25.9	27.2	1.30	29.1	0.936	9.24	171	0.5	0.8	49	624	1	15	8	227	1.92	18	13	42	< 0.5	3	1.79	10
1228029071	60.5	26.6	-33.9	64.9	0.409	8.89	87	0.9	0.5	15	538	1	12	26	113	1.55	27	< 10	32	< 0.5	3	1.59	10
1228030039	23.2	36.9	13.7	27.0	1.37	9.32	83	0.6	3.4	47	761	< 1	11	10	950	1.94	16	< 10	51	< 0.5	< 2	2.14	8
V860602							1550	10.2	< 0.5	54	351	21	12	7	55	1.56	< 2	< 10	78	< 0.5	< 2	1.30	14
1227019048	50.2	33.1	-17.1	56.0	0.590	8.94	85	0.8	< 0.5	63	533	1	17	5	85	2.11	27	14	45	< 0.5	7	1.79	10
1227012197	57.3	20.7	-36.6	65.8	0.314	8.88	755	1.8	8.1	99	912	1	37	89	1770	2.17	50	< 10	47	< 0.5	< 2	1.18	18
1227019090	55.0	18.4	-36.5	60.0	0.307	8.95	129	0.5	< 0.5	27	422	< 1	12	5	51	2.31	33	< 10	53	< 0.5	4	1.49	9
1227012090	67.1	4.24	-62.8	70.1	0.0605	9.12	258	2.0	1.7	55	311	1	16	39	559	1.38	65	< 10	33	< 0.5	3	0.34	12
1227012149	50.3	15.3	-35.0	55.1	0.278	8.62	417	0.7	2.7	65	801	1	16	30	567	1.89	35	< 10	45	< 0.5	4	1.14	10
1229056034	34.7	36.1	1.43	38.6	0.936	9.07	45	1.0	< 0.5	77	460	1	26	< 2	61	1.48	8	< 10	63	< 0.5	4	1.65	11
1227012131	52.1	4.25	-47.8	55.4	0.0766	8.74	> 5000	79.7	3.8	210	335	3	13	597	1060	1.03	125	< 10	34	< 0.5	< 2	0.36	8
1227019118	48.7	35.5	-13.3	53.3	0.666	8.75	1330	2.8	< 0.5	186	389	2	12	6	48	1.72	16	< 10	45	< 0.5	5	1.82	9
1227019142	53.0	25.4	-27.6	57.6	0.441	8.82	702	1.3	< 0.5	297	322	2	13	6	59	1.67	18	< 10	42	< 0.5	5	1.18	8
1229055044	70.2	8.71	-61.5	75.9	0.115	8.64	192	1.8	0.9	58	433	1	13	4	291	1.42	30	< 10	33	< 0.5	7	0.71	8
1227019040	19.2	28.1	8.90	23.6	1.19	9.57	54	0.3	< 0.5	106	789	1	66	13	109	2.36	12	< 10	115	< 0.5	< 2	2.27	18
1229056128	25.6	18.3	-7.33	29.7	0.616	9.24	76	0.8	0.7	30	785	< 1	14	4	244	2.31	21	< 10	69	< 0.5	4	1.36	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227019096	110	8.57	-101	123	0.0694	9.13	353	4.8	3.4	472	1140	2	31	15	990	2.97	104	< 10	25	< 0.5	13	0.48	25
1227012050	9.38	2.25	-7.13	9.19	0.245	8.27	8	< 0.2	< 0.5	3	90	3	10	5	28	0.74	2	< 10	24	< 0.5	< 2	0.12	6
1227019226	31.8	16.3	-15.5	34.6	0.471	8.65	88	0.3	< 0.5	35	371	2	11	3	47	2.18	8	< 10	40	< 0.5	4	0.91	8
1227019189	44.6	15.2	-29.4	49.0	0.310	8.58	267	0.7	0.5	155	351	1	11	14	77	2.29	11	11	53	< 0.5	8	0.96	9
1229056044	51.8	24.3	-27.5	56.7	0.428	9.02	52	0.6	< 0.5	31	644	1	16	7	102	2.03	15	< 10	47	< 0.5	3	1.18	13
1229056026	160	68.1	-91.7	192	0.354	8.46	230	4.0	2.6	469	1410	1	71	3	645	1.60	15	< 10	16	< 0.5	9	1.63	31
V860603							910	2.6	< 0.5	62	411	11	17	8	58	1.62	< 2	< 10	82	< 0.5	< 2	1.49	17
1227020135	36.2	13.3	-22.9	38.9	0.342	9.14	275	0.4	< 0.5	36	461	1	10	< 2	127	2.34	12	< 10	39	< 0.5	4	0.89	9
1227020140	61.2	10.2	-51.1	65.8	0.155	9.15	246	0.7	< 0.5	112	370	2	12	4	66	1.93	24	< 10	41	< 0.5	4	0.71	12
1227020145	59.2	9.34	-49.8	63.7	0.147	9.04	147	0.8	< 0.5	54	359	2	16	3	146	2.53	32	< 10	51	< 0.5	4	0.94	11
1234005424	13.1	18.5	5.38	12.9	1.44	9.52	16	0.4	2.7	36	510	1	18	6	724	2.14	7	< 10	61	< 0.5	< 2	1.70	10
1234005115	14.7	12.6	-2.06	14.4	0.877	9.41	10	0.2	0.6	29	916	1	17	< 2	205	2.39	5	< 10	59	< 0.5	< 2	1.85	10
1229053032	40.7	7.84	-32.9	44.7	0.175	9.06	135	2.8	1.2	47	326	2	15	2	287	2.01	10	< 10	54	< 0.5	10	1.06	10
1234005132	0.620	36.1	35.5	3.67	9.83	9.59	8	< 0.2	< 0.5	19	383	< 1	20	< 2	75	1.60	2	< 10	96	< 0.5	< 2	1.60	12
1234005013	0.719	31.6	30.9	7.04	4.49	9.26	14	< 0.2	< 0.5	24	486	< 1	20	< 2	97	1.63	4	< 10	79	< 0.5	< 2	1.88	10
1229053165	29.5	16.5	-13.0	33.1	0.499	8.98	172	2.1	2.4	61	719	2	14	3	670	1.87	18	< 10	42	< 0.5	4	0.98	11
1229053079	47.5	19.3	-28.2	51.8	0.374	8.96	213	4.0	1.2	29	535	1	23	3	276	1.83	16	< 10	49	< 0.5	5	1.04	10
1234005291	10.0	28.6	18.6	9.80	2.92	9.52	12	0.3	< 0.5	16	577	< 1	18	5	157	1.40	4	< 10	65	< 0.5	< 2	1.67	10
1229053058	19.4	43.1	23.7	22.7	1.90	9.31	37	< 0.2	< 0.5	31	469	< 1	14	4	111	1.21	12	< 10	63	< 0.5	2	1.91	9
1229053182	100.0	36.2	-63.8	107	0.337	8.54	88	1.8	2.6	64	581	2	53	5	686	1.40	21	< 10	23	< 0.5	8	1.69	37
1229053125	35.6	18.4	-17.2	39.5	0.466	8.92	135	1.6	1.5	41	684	1	13	13	390	1.61	20	< 10	47	< 0.5	3	1.05	11
1229053150	72.5	44.5	-27.9	81.5	0.547	8.73	307	3.2	5.4	80	888	2	27	5	1370	2.07	26	< 10	43	< 0.5	< 2	2.22	20
1234005177	11.0	35.4	24.4	15.6	2.27	9.62	8	< 0.2	0.8	19	978	< 1	17	< 2	358	2.35	4	< 10	71	< 0.5	< 2	2.61	11
V860604							770	3.3	< 0.5	35	269	18	11	17	44	1.22	< 2	< 10	58	0.5	< 2	2.11	10
1228030238	31.2	25.8	-5.45	34.9	0.739	9.09	42	0.3	< 0.5	17	653	< 1	15	17	103	2.87	17	12	88	< 0.5	< 2	2.40	11
1229055021	49.4	23.1	-26.3	55.1	0.418	9.10	128	2.0	3.0	106	616	3	16	12	991	1.75	26	< 10	46	< 0.5	5	1.40	11
1229055094	51.9	23.0	-28.8	57.0	0.405	8.97	214	1.8	1.6	64	671	< 1	15	3	480	1.79	15	< 10	39	< 0.5	4	1.38	14
1227009046	63.6	7.22	-56.4	68.9	0.105	9.11	154	0.6	< 0.5	136	374	2	12	5	62	2.13	22	< 10	35	< 0.5	5	0.45	14
1227009227	61.1	10.4	-50.7	66.2	0.157	8.81	64	1.1	2.5	237	266	1	12	< 2	545	1.74	7	< 10	36	< 0.5	7	0.85	6
1229055067	64.3	18.1	-46.1	69.8	0.260	8.94	42	0.9	0.6	48	481	1	15	8	143	1.43	10	< 10	24	< 0.5	8	1.00	11
1229055109	62.3	9.10	-53.2	66.8	0.136	8.69	183	1.7	0.8	152	522	2	14	14	246	1.58	43	< 10	25	< 0.5	7	0.82	10
1227009063	47.7	16.2	-31.5	52.7	0.307	9.23	182	0.4	< 0.5	183	405	1	26	2	60	3.35	4	< 10	51	< 0.5	3	1.80	17
1227009201	17.7	18.4	0.677	20.5	0.896	9.32	35	0.3	< 0.5	178	489	< 1	46	12	92	4.09	2	< 10	31	< 0.5	2	2.96	23
1229056002	24.7	13.3	-11.4	24.2	0.550	9.24	37	< 0.2	0.6	27	613	1	22	2	192	1.60	5	< 10	46	< 0.5	2	0.94	10
1227009001	71.3	9.83	-61.5	77.8	0.126	9.27	148	0.5	< 0.5	77	309	3	14	11	58	1.96	14	< 10	24	< 0.5	6	0.63	11
1227019092	67.3	10.7	-56.6	71.7	0.149	8.78	187	0.6	< 0.5	75	353	< 1	14	6	75	1.94	37	< 10	29	< 0.5	3	0.81	9
1229055064	75.8	17.5	-58.4	80.8	0.216	8.94	66	1.2	0.7	33	500	2	14	13	240	1.37	11	< 10	25	< 0.5	6	0.91	10
1227009191	68.8	22.3	-46.5	74.4	0.300	9.25	437	1.9	1.8	241	291	1	10	21	393	1.24	8	< 10	23	< 0.5	10	1.04	10
1227019066	24.2	51.7	27.5	29.1	1.78	9.15	56	0.2	< 0.5	14	610	< 1	26	6	59	2.47	15	< 10	40	< 0.5	< 2	2.55	16
1227019028	40.4	45.1	4.67	46.2	0.975	9.20	101	0.6	1.3	76	927	1	21	13	434	1.93	32	< 10	33	< 0.5	< 2	1.74	17
1227019145	24.4	22.4	-1.97	27.6	0.813	9.08	69	0.5	< 0.5	105	356	1	13	10	83	1.80	15	12	46	< 0.5	5	1.28	9
1227019195	66.7	7.11	-59.6	70.7	0.100	8.62	357	1.3	< 0.5	96	255	1	12	12	31	1.86	23	< 10	36	< 0.5	5	0.69	10
1227019083	49.2	26.4	-22.8	53.6	0.492	8.95	291	0.6	< 0.5	136	411	1	16	24	63	1.76	14	< 10	27	< 0.5	5	1.47	10
V860605							1130	4.8	< 0.5	24	145	8	6	< 2	26	0.66	< 2	< 10	22	< 0.5	4	0.68	5
1229053104	243	54.4	-189	277	0.197	7.92	243	3.1	4.6	119	994	2	60	3	1010	2.81	55	< 10	13	< 0.5	4	1.14	52
1229053191	72.9	23.4	-49.5	79.9	0.293	9.05	120	1.8	0.9	36	455	< 1	51	6	265	1.38	16	< 10	25	< 0.5	4	1.35	45
1229053100	24.4	34.6	10.2	27.9	1.24	9.11	51	0.3	0.6	25	601	1	25	2	174	1.41	14	< 10	53	< 0.5	2	1.70	17
1229054071	56.2	13.0	-43.2	61.6	0.212	8.78	529	2.2	1.1	471	543	< 1	15	7	215	1.68	23	< 10	43	< 0.5	3	1.01	15
1234005270	10.9	22.4	11.4	10.7	2.09	9.37	11	0.2	0.6	19	680	< 1	17	5	244	1.83	7	< 10	53	< 0.5	< 2	1.54	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229054106	54.7	7.60	-47.1	58.2	0.131	8.98	163	1.7	< 0.5	282	381	2	12	5	100	1.35	11	< 10	38	< 0.5	2	0.82	9
1229054081	58.0	13.6	-44.4	62.8	0.216	8.82	330	2.1	1.4	302	573	< 1	10	6	260	1.80	13	< 10	33	< 0.5	4	1.14	10
1229054053	39.7	14.6	-25.1	42.9	0.340	9.02	152	1.1	1.1	61	765	2	14	< 2	293	1.44	26	< 10	70	< 0.5	5	0.83	10
1229054123	82.5	33.8	-48.7	88.2	0.383	8.90	830	2.0	< 0.5	200	549	2	10	12	80	1.47	10	< 10	26	< 0.5	9	1.89	9
1229054001	101	39.1	-61.5	111	0.351	8.45	100	0.9	0.6	58	755	1	25	3	274	1.67	32	< 10	27	< 0.5	6	1.61	17
1229054063	32.8	22.5	-10.3	36.1	0.622	9.22	73	0.8	1.9	57	802	2	15	3	447	1.41	14	< 10	69	< 0.5	< 2	1.08	12
1227012251	43.7	4.72	-39.0	47.5	0.0994	8.80	410	4.1	4.9	77	593	< 1	13	34	1030	2.02	63	< 10	28	< 0.5	< 2	0.66	11
1227012269	56.0	6.46	-49.6	61.9	0.104	8.49	258	0.7	11.5	42	712	< 1	15	46	2680	1.48	67	< 10	27	< 0.5	< 2	0.52	10
1229054167	26.3	25.0	-1.39	29.1	0.858	9.29	104	1.0	2.7	82	643	< 1	10	8	781	1.63	13	< 10	51	< 0.5	6	1.36	8
1229054108	35.7	37.6	1.88	39.8	0.945	9.02	417	0.6	< 0.5	91	628	2	11	6	85	1.63	8	< 10	66	< 0.5	5	2.35	10
1227012301	47.1	16.6	-30.5	50.8	0.327	8.77	222	1.4	3.3	39	810	< 1	12	127	747	1.98	61	< 10	32	< 0.5	< 2	1.42	9
1229054104	55.5	21.5	-34.1	60.9	0.352	8.77	177	4.8	1.2	927	429	3	10	11	162	1.26	12	< 10	35	< 0.5	4	1.57	9
1234005378	3.44	23.3	19.9	3.37	6.93	9.48	< 5	< 0.2	< 0.5	18	444	< 1	21	< 2	86	2.50	< 2	< 10	76	< 0.5	< 2	2.03	12
1229054176	38.1	10.5	-27.6	42.3	0.249	9.24	110	1.4	1.6	74	784	1	15	9	503	1.80	15	< 10	57	< 0.5	6	0.68	13
1227020184	55.7	14.1	-41.6	60.0	0.236	9.16	945	0.5	< 0.5	156	276	2	12	15	64	2.80	6	< 10	32	< 0.5	7	1.34	9
1227020001	70.9	6.34	-64.6	78.7	0.0806	8.98	264	0.9	6.2	160	553	2	13	6	1490	1.96	23	< 10	30	< 0.5	5	0.55	14
1227020179	45.4	9.28	-36.1	48.7	0.191	9.24	230	0.3	< 0.5	28	269	1	12	14	62	2.07	7	< 10	40	< 0.5	3	0.82	10
V860606							1480	20.0	< 0.5	52	343	23	12	7	53	1.50	< 2	< 10	78	< 0.5	< 2	1.27	14
1227012221	49.7	4.71	-45.0	52.7	0.0894	8.48	128	1.7	2.0	44	591	< 1	13	37	485	1.95	42	< 10	26	< 0.5	< 2	0.57	11
1227020048	34.8	13.0	-21.8	37.7	0.346	9.05	122	0.4	0.7	57	552	2	12	< 2	149	2.32	10	< 10	55	< 0.5	4	1.52	10
1228028050	15.8	39.5	23.7	18.7	2.11	8.99	52	0.5	< 0.5	23	605	< 1	37	9	114	2.53	9	< 10	39	< 0.5	3	2.25	10
1228028027	46.6	44.9	-1.63	50.8	0.884	9.39	72	0.9	< 0.5	17	858	< 1	12	18	134	1.88	56	< 10	37	< 0.5	< 2	2.49	9
1227012246	33.0	7.47	-25.5	35.8	0.208	8.86	266	0.7	3.3	55	438	< 1	26	20	798	1.62	26	< 10	46	< 0.5	< 2	0.40	17
1228028054	17.2	22.3	5.12	16.8	1.32	9.44	13	0.5	< 0.5	32	438	1	13	10	118	1.97	12	< 10	33	< 0.5	< 2	1.69	7
1228028153	74.7	36.9	-37.8	82.1	0.449	8.79	467	26.8	3.6	267	1010	2	15	227	904	1.46	46	< 10	30	< 0.5	< 2	2.07	10
1228028122	131	29.9	-101	141	0.212	8.44	957	33.8	0.9	1460	910	1	11	137	314	1.50	625	< 10	24	< 0.5	< 2	1.65	10
1228028074	34.0	52.7	18.8	38.6	1.37	8.99	53	1.0	< 0.5	48	893	1	20	11	93	1.51	42	< 10	30	< 0.5	3	2.45	11
1227012113	68.6	39.2	-29.4	73.5	0.534	9.11	145	3.8	1.2	82	1010	1	11	108	334	1.39	30	< 10	29	< 0.5	5	2.24	11
1227020032	101	9.25	-91.3	134	0.0693	8.91	308	6.3	77.8	462	1100	1	18	16	> 10000	2.28	74	< 10	24	< 0.5	8	0.36	17
1227020015	26.9	33.7	6.87	26.3	1.28	9.25	86	0.4	0.5	96	561	1	6	2	156	1.43	2	< 10	86	< 0.5	5	1.94	6
1227012208	72.8	11.1	-61.7	76.9	0.144	8.98	424	5.9	2.0	29	486	< 1	11	80	500	0.98	47	< 10	27	< 0.5	4	0.45	11
1227012167	64.5	17.6	-46.9	69.2	0.254	8.73	206	3.5	1.8	45	752	< 1	12	79	417	2.26	26	< 10	25	< 0.5	3	1.55	9
1228028068	44.3	46.0	1.73	49.0	0.939	8.94	53	1.6	0.5	33	965	1	12	15	164	1.85	32	< 10	31	< 0.5	2	2.62	10
1228028160	66.1	48.5	-17.6	71.7	0.677	8.91	102	3.4	0.7	40	1250	2	14	41	186	1.06	63	< 10	28	< 0.5	3	2.04	9
1228028003	29.4	17.1	-12.3	28.8	0.593	9.04	27	0.4	< 0.5	27	345	< 1	10	21	130	2.21	15	< 10	30	< 0.5	< 2	1.17	6
1228029018	20.0	15.9	-4.05	19.6	0.814	8.90	125	0.4	< 0.5	32	346	1	10	21	109	1.50	8	< 10	41	< 0.5	< 2	0.95	6
1228029048	33.5	22.3	-11.3	36.1	0.616	8.87	230	0.3	< 0.5	21	645	< 1	10	7	195	2.36	15	19	30	< 0.5	4	1.58	8
1228029129	31.6	20.0	-11.6	34.6	0.577	8.77	38	0.4	1.0	43	577	1	14	33	346	2.34	10	< 10	34	< 0.5	3	1.90	9
V860607							922	2.5	< 0.5	61	370	11	15	7	55	1.37	< 2	< 10	80	< 0.5	< 2	1.21	17
1228032229	35.0	21.6	-13.4	38.3	0.565	9.13	856	4.3	0.5	62	427	2	15	5	129	2.02	12	< 10	55	< 0.5	9	1.01	12
1228032098	25.6	25.3	-0.321	28.5	0.888	8.96	423	0.5	< 0.5	32	295	4	10	< 2	85	1.72	7	< 10	44	< 0.5	5	1.08	12
1228030149	38.5	29.7	-8.82	42.6	0.698	9.33	70	0.6	< 0.5	22	693	< 1	13	24	92	2.31	29	< 10	60	< 0.5	2	2.24	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228030120	121	2.43	< 10	< 1	0.25	14	0.71	0.049	0.038	1.54	< 2	< 1	41	0.03	< 1	< 2	< 10	10	< 10	2	16	0.40	1.68
1228028190	180	2.81	< 10	< 1	0.38	18	1.05	0.080	0.053	2.63	4	1	38	< 0.01	2	< 2	< 10	9	< 10	3	22	0.95	2.57
1334004017	87	11.3	20	2	0.33	< 10	3.59	0.146	0.061	0.41	5	19	70	0.18	< 1	< 2	< 10	238	< 10	14	7	1.64	0.48
1228029244	105	2.36	< 10	< 1	0.32	22	1.16	0.078	0.054	1.08	< 2	2	48	0.05	2	< 2	< 10	18	< 10	4	13	0.40	0.97
1227009102	155	3.16	< 10	< 1	0.44	14	0.72	0.039	0.038	2.11	< 2	< 1	19	< 0.01	3	< 2	< 10	9	< 10	2	16	0.15	2.11
1228030101	81	2.59	< 10	< 1	0.28	21	0.44	0.038	0.049	2.40	< 2	< 1	25	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.36	2.27
1228029192	104	2.12	< 10	< 1	0.35	15	1.05	0.060	0.043	1.56	< 2	1	35	0.04	2	< 2	< 10	14	< 10	3	17	0.38	1.48
1228030022	144	2.44	< 10	< 1	0.18	15	0.91	0.125	0.038	1.01	< 2	2	84	0.04	2	< 2	< 10	19	< 10	2	16	0.12	0.34
1334004045	127	9.58	10	2	0.09	< 10	2.51	0.203	0.042	0.13	4	16	78	0.12	< 1	2	< 10	243	< 10	9	4	1.84	0.14
1227009023	80	3.22	< 10	< 1	0.31	23	1.21	0.090	0.050	2.80	< 2	1	32	0.01	3	< 2	< 10	13	< 10	3	24	0.13	2.70
1228030200	198	2.56	< 10	< 1	0.37	19	1.27	0.164	0.047	0.87	< 2	2	85	0.06	< 1	< 2	< 10	23	< 10	3	16	0.46	0.81
1227009097	180	4.30	< 10	1	0.13	< 10	1.57	0.484	0.025	0.68	< 2	4	68	0.15	3	2	< 10	92	< 10	3	5	0.12	0.67
1229055042	189	2.53	< 10	< 1	0.27	16	0.82	0.143	0.043	1.85	< 2	1	55	0.01	3	< 2	< 10	13	< 10	2	19	0.24	1.76
1227009132	295	4.93	< 10	< 1	0.05	< 10	1.78	0.536	0.020	0.14	3	6	68	0.24	< 1	< 2	< 10	138	< 10	4	4	0.22	0.14
1228029185	156	1.98	< 10	< 1	0.28	12	0.85	0.117	0.037	0.92	< 2	1	67	0.01	< 1	< 2	< 10	12	< 10	2	11	0.39	0.87
1228029075	205	2.20	< 10	1	0.34	13	0.90	0.097	0.041	1.80	2	< 1	54	< 0.01	< 1	< 2	< 10	10	< 10	3	12	0.46	1.73
1227009077	147	4.10	< 10	< 1	0.28	12	1.20	0.041	0.040	3.17	< 2	< 1	26	< 0.01	1	3	< 10	9	< 10	2	17	0.20	3.04
1228030235	184	2.94	< 10	< 1	0.59	37	1.79	0.101	0.088	1.24	< 2	3	86	0.10	2	< 2	< 10	36	< 10	4	22	0.28	1.20
1227009116	189	4.64	< 10	2	0.06	< 10	1.65	0.559	0.022	0.22	< 2	6	65	0.21	1	< 2	< 10	135	< 10	4	5	0.15	0.20
V860601	14	3.28	< 10	< 1	0.23	11	0.55	0.248	0.060	0.06	< 2	4	40	0.47	6	< 2	< 10	99	< 10	17	24		
1228029207	173	2.33	< 10	< 1	0.33	20	1.25	0.074	0.053	1.16	< 2	2	41	0.05	1	< 2	< 10	19	< 10	4	11	0.53	1.13
1227012117	75	2.30	< 10	< 1	0.23	16	0.91	0.107	0.045	2.10	3	< 1	84	0.01	2	< 2	< 10	8	< 10	2	21	0.35	1.96
1228028182	200	2.09	< 10	< 1	0.23	22	0.79	0.188	0.050	0.30	< 2	1	139	0.07	4	< 2	< 10	19	< 10	3	8	0.41	0.25
1228028131	105	2.32	< 10	< 1	0.28	16	0.79	0.048	0.046	2.35	< 2	< 1	28	< 0.01	2	< 2	< 10	7	< 10	3	12	0.81	2.14
1228029001	153	2.21	< 10	< 1	0.19	15	0.74	0.146	0.042	1.61	< 2	1	101	0.02	< 1	< 2	< 10	13	< 10	2	15	0.35	1.41
1228029158	185	2.26	< 10	< 1	0.24	18	1.15	0.130	0.046	1.73	< 2	1	77	0.01	3	< 2	< 10	12	< 10	3	19	0.26	1.67
1334004073	168	9.46	10	< 1	0.05	< 10	2.66	0.244	0.046	0.16	3	19	70	0.13	< 1	< 2	< 10	257	< 10	10	5	2.40	0.20
1228028197	96	2.60	< 10	< 1	0.42	22	1.00	0.061	0.056	2.83	5	1	30	< 0.01	2	< 2	< 10	10	< 10	3	20	0.84	2.66
1228029077	122	2.43	< 10	< 1	0.33	14	0.84	0.033	0.044	2.61	< 2	< 1	23	< 0.01	3	< 2	< 10	6	< 10	3	7	0.70	2.34
1228029199	106	2.20	< 10	< 1	0.45	15	1.25	0.125	0.042	1.68	< 2	1	85	0.04	2	< 2	< 10	15	< 10	3	19	0.32	1.49
1228029155	110	2.46	< 10	< 1	0.42	13	1.44	0.068	0.040	2.47	< 2	< 1	43	< 0.01	1	< 2	< 10	9	< 10	2	15	0.85	2.35
1227012068	118	2.29	< 10	< 1	0.24	17	0.94	0.116	0.042	1.77	< 2	< 1	115	< 0.01	< 1	< 2	< 10	9	< 10	3	15	0.43	1.64
1228029106	90	2.21	< 10	< 1	0.38	15	1.00	0.040	0.044	2.36	< 2	< 1	22	0.01	< 1	< 2	< 10	8	< 10	3	16	0.47	2.16
1228030037	184	2.23	< 10	< 1	0.22	15	1.10	0.126	0.041	1.17	< 2	2	96	0.02	< 1	< 2	< 10	19	< 10	2	15	0.34	0.95
1228029071	131	2.25	< 10	< 1	0.28	16	0.95	0.098	0.043	2.25	< 2	< 1	39	< 0.01	1	< 2	< 10	7	< 10	2	11	0.46	2.12
1228030039	139	2.16	< 10	< 1	0.21	13	0.95	0.183	0.039	0.99	< 2	1	130	0.03	< 1	< 2	< 10	15	< 10	2	15	0.45	0.88
V860602	14	3.68	< 10	< 1	0.24	11	0.57	0.274	0.063	0.06	< 2	4	42	0.49	7	< 2	< 10	103	< 10	17	24		
1227019048	181	3.20	< 10	< 1	0.47	19	1.18	0.106	0.048	1.90	< 2	2	65	0.03	< 1	< 2	< 10	18	< 10	2	15	0.57	1.83
1227012197	215	3.56	< 10	< 1	0.35	22	1.83	0.037	0.083	2.20	3	4	53	0.09	2	< 2	< 10	39	< 10	4	16	0.30	2.15
1227019090	217	2.90	< 10	< 1	0.35	16	1.18	0.175	0.041	2.02	< 2	1	80	0.01	< 1	< 2	< 10	11	< 10	3	25	0.39	1.96
1227012090	124	2.57	< 10	< 1	0.24	17	0.79	0.050	0.052	2.46	5	< 1	46	< 0.01	2	< 2	< 10	8	< 10	1	15	0.07	2.29
1227012149	134	2.53	< 10	< 1	0.32	16	1.06	0.040	0.046	1.92	4	1	48	0.06	2	< 2	< 10	12	< 10	2	17	0.27	1.80
1229056034	185	2.37	< 10	< 1	0.36	13	1.20	0.044	0.047	1.32	< 2	1	24	< 0.01	2	< 2	< 10	16	< 10	3	15	0.50	1.26
1227012131	209	1.84	< 10	3	0.32	16	0.32	0.043	0.050	1.94	15	< 1	25	< 0.01	5	< 2	< 10	6	< 10	2	15	0.10	1.81
1227019118	217	2.95	< 10	< 1	0.34	16	0.86	0.079	0.040	1.82	< 2	1	47	< 0.01	< 1	< 2	< 10	11	< 10	2	13	0.66	1.74
1227019142	181	3.29	< 10	< 1	0.33	15	1.02	0.048	0.043	1.93	< 2	1	27	< 0.01	< 1	< 2	< 10	13	< 10	2	12	0.41	1.88
1229055044	219	2.98	< 10	< 1	0.27	13	0.77	0.120	0.041	2.66	< 2	1	42	< 0.01	2	< 2	< 10	12	< 10	2	20	0.18	2.48
1227019040	346	3.12	< 10	< 1	0.63	78	1.95	0.173	0.182	0.81	< 2	6	195	0.13	1	< 2	< 10	52	< 10	6	6	0.31	0.77
1229056128	197	2.32	< 10	< 1	0.37	16	1.17	0.210	0.044	1.05	< 2	1	79	0.02	3	< 2	< 10	17	< 10	3	19	0.26	0.97
1227019096	96	6.63	< 10	3	0.27	13	2.93	0.031	0.062	3.97	3	6	19	0.08	3	< 2	< 10	78	< 10	9	22	0.08	4.03
1227012050	204	0.67	< 10	< 1	0.14	< 10	0.10	0.026	0.041	0.32	< 2	< 1	12	< 0.01	< 1	< 2	< 10	5	< 10	< 1	10	< 0.01	0.30

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227019226	189	3.94	< 10	< 1	0.24	13	1.23	0.057	0.037	1.10	< 2	1	48	0.02	< 1	< 2	< 10	13	< 10	2	11	0.23	1.13
1227019189	95	4.02	< 10	< 1	0.34	11	0.91	0.076	0.036	1.62	< 2	< 1	53	0.02	< 1	< 2	< 10	12	< 10	2	14	0.18	1.60
1229056044	109	3.29	< 10	< 1	0.31	13	1.64	0.092	0.045	1.86	< 2	2	53	0.02	< 1	< 2	< 10	30	< 10	5	18	0.33	1.85
1229056026	247	8.18	< 10	1	0.45	< 10	1.80	0.078	0.072	5.10	2	14	47	0.18	2	< 2	< 10	168	< 10	8	11	1.17	6.28
V860603	13	4.10	< 10	< 1	0.32	13	0.72	0.206	0.073	0.07	< 2	6	38	0.49	5	< 2	< 10	131	< 10	18	21		
1227020135	114	2.59	< 10	< 1	0.21	15	1.98	0.119	0.039	1.25	< 2	< 1	65	0.01	< 1	< 2	< 10	12	< 10	2	18	0.25	1.27
1227020140	94	3.02	< 10	< 1	0.23	16	1.62	0.080	0.042	2.15	< 2	< 1	45	< 0.01	1	2	< 10	11	< 10	2	26	0.10	2.15
1227020145	142	3.27	< 10	< 1	0.31	15	1.89	0.131	0.045	2.11	< 2	2	70	0.02	2	< 2	< 10	20	< 10	4	23	0.29	2.08
1234005424	118	2.06	< 10	< 1	0.33	17	1.09	0.095	0.047	0.44	< 2	2	47	0.08	3	< 2	< 10	22	< 10	3	15	0.20	0.42
1234005115	230	2.40	< 10	< 1	0.36	16	1.00	0.201	0.047	0.56	< 2	2	81	0.10	1	< 2	< 10	25	< 10	3	15	0.25	0.47
1229053032	217	2.12	< 10	< 1	0.29	13	1.01	0.121	0.038	1.59	< 2	1	71	0.02	6	< 2	< 10	12	< 10	2	18	0.31	1.46
1234005132	219	2.49	< 10	< 1	0.43	23	1.13	0.086	0.054	0.12	< 2	3	97	0.14	2	< 2	< 10	40	< 10	4	21	0.32	0.12
1234005013	219	2.49	< 10	< 1	0.41	24	1.01	0.086	0.055	0.25	< 2	3	78	0.14	3	< 2	< 10	33	< 10	4	15	0.48	0.23
1229053165	156	2.55	< 10	< 1	0.17	13	1.30	0.106	0.040	1.21	< 2	1	40	< 0.01	< 1	< 2	< 10	15	< 10	3	13	0.30	1.08
1229053079	183	2.78	< 10	< 1	0.23	15	1.48	0.093	0.049	1.81	< 2	1	44	< 0.01	3	< 2	< 10	13	< 10	2	13	0.37	1.69
1234005291	223	2.27	< 10	< 1	0.25	16	0.80	0.068	0.043	0.35	< 2	2	40	0.12	1	< 2	< 10	27	< 10	3	21	0.34	0.32
1229053058	196	2.31	< 10	< 1	0.24	15	0.91	0.048	0.046	0.82	< 2	1	21	0.01	< 1	< 2	< 10	17	< 10	3	12	0.65	0.74
1229053182	112	3.91	< 10	< 1	0.26	< 10	0.82	0.109	0.062	3.55	< 2	5	44	0.01	4	< 2	< 10	55	< 10	6	12	0.49	3.51
1229053125	142	2.60	< 10	< 1	0.22	13	1.23	0.051	0.038	1.32	< 2	< 1	24	0.01	< 1	< 2	< 10	12	< 10	2	15	0.37	1.29
1229053150	144	4.72	< 10	< 1	0.34	12	1.22	0.141	0.054	2.78	< 2	5	56	0.14	3	< 2	< 10	77	< 10	6	16	0.61	2.66
1234005177	118	2.42	< 10	< 1	0.38	17	0.87	0.165	0.044	0.58	< 2	2	93	0.12	4	< 2	< 10	24	< 10	3	14	0.40	0.51
V860604	13	3.20	< 10	< 1	0.26	17	0.46	0.182	0.049	0.04	< 2	3	52	0.33	4	< 2	< 10	63	< 10	19	20		
1228030238	197	2.39	< 10	< 1	0.41	25	1.26	0.165	0.062	1.15	< 2	2	102	0.05	< 1	< 2	< 10	24	< 10	4	17	0.31	1.14
1229055021	160	2.64	< 10	< 1	0.32	16	0.93	0.124	0.047	1.90	< 2	1	43	0.01	1	< 2	< 10	18	< 10	3	20	0.31	1.80
1229055094	162	2.90	< 10	< 1	0.26	14	1.16	0.095	0.043	1.91	< 2	2	38	0.03	< 1	< 2	< 10	19	< 10	3	18	0.30	1.86
1227009046	126	3.54	< 10	< 1	0.27	17	1.68	0.063	0.044	2.29	< 2	1	34	< 0.01	< 1	< 2	< 10	12	< 10	3	24	0.10	2.25
1227009227	234	2.80	< 10	< 1	0.25	19	1.10	0.120	0.041	2.25	< 2	< 1	57	< 0.01	3	< 2	< 10	8	< 10	2	17	0.22	2.16
1229055067	184	2.83	< 10	< 1	0.32	14	0.90	0.091	0.045	2.43	< 2	1	33	< 0.01	< 1	< 2	< 10	14	< 10	3	18	0.30	2.28
1229055109	269	2.94	< 10	< 1	0.27	17	0.75	0.134	0.042	2.37	< 2	1	55	0.01	2	< 2	< 10	13	< 10	3	22	0.18	2.18
1227009063	154	4.27	< 10	2	0.38	< 10	1.92	0.212	0.031	1.72	< 2	4	45	0.12	< 1	< 2	< 10	58	< 10	4	10	0.12	1.72
1227009201	194	4.69	< 10	3	0.16	< 10	1.95	0.385	0.025	0.68	< 2	6	59	0.17	< 1	< 2	< 10	105	< 10	4	8	0.21	0.67
1229056002	240	2.01	< 10	< 1	0.17	21	0.90	0.120	0.050	0.87	< 2	1	56	< 0.01	1	< 2	< 10	11	< 10	2	12	0.20	0.79
1227009001	205	3.47	< 10	< 1	0.25	16	1.40	0.122	0.042	2.59	< 2	1	49	< 0.01	3	< 2	< 10	13	< 10	3	24	0.18	2.54
1227019092	186	3.24	< 10	< 1	0.34	17	1.40	0.087	0.044	2.33	< 2	1	45	0.03	2	< 2	< 10	13	< 10	3	29	0.23	2.34
1229055064	162	2.99	< 10	< 1	0.31	12	0.91	0.077	0.043	2.75	< 2	1	28	< 0.01	2	< 2	< 10	11	< 10	3	19	0.22	2.64
1227009191	123	3.01	< 10	< 1	0.37	28	0.70	0.049	0.050	2.58	< 2	< 1	54	< 0.01	3	< 2	< 10	7	< 10	3	22	0.32	2.43
1227019066	214	3.66	< 10	< 1	0.96	49	1.86	0.127	0.134	1.01	< 2	7	228	0.09	< 1	< 2	< 10	61	< 10	7	6	0.80	0.95
1227019028	120	3.86	< 10	< 1	0.57	47	1.89	0.040	0.111	1.57	< 2	4	98	0.04	1	< 2	< 10	42	< 10	7	5	0.66	1.51
1227019145	146	2.36	< 10	< 1	0.30	13	0.83	0.076	0.040	1.01	< 2	1	49	0.01	< 1	< 2	< 10	12	< 10	2	13	0.31	0.90
1227019195	148	3.63	< 10	< 1	0.30	15	0.77	0.059	0.037	2.46	< 2	1	53	0.02	1	< 2	< 10	9	< 10	2	21	0.16	2.31
1227019083	177	3.16	< 10	< 1	0.52	26	1.07	0.074	0.076	1.88	< 2	3	60	0.04	3	< 2	< 10	27	< 10	3	17	0.36	1.75
V860605	10	1.57	< 10	< 1	0.08	< 10	0.13	0.158	0.031	0.02	< 2	1	24	0.30	3	< 2	< 10	39	< 10	8	18		
1229053104	142	11.8	10	1	0.30	< 10	2.15	0.098	0.069	7.72	5	14	40	0.21	< 1	< 2	< 10	209	< 10	11	7	0.77	9.03
1229053191	145	2.89	< 10	< 1	0.27	< 10	0.81	0.110	0.058	2.77	< 2	3	47	0.02	2	< 2	< 10	42	< 10	5	11	0.37	2.61
1229053100	223	2.56	< 10	< 1	0.22	14	0.94	0.085	0.054	1.00	< 2	3	36	0.05	3	< 2	< 10	36	< 10	5	15	0.48	0.91
1229054071	165	3.03	< 10	< 1	0.28	16	0.94	0.114	0.050	2.23	< 2	2	52	0.04	< 1	< 2	< 10	18	< 10	4	19	0.31	2.01
1234005270	176	2.14	< 10	< 1	0.34	18	1.00	0.124	0.046	0.39	< 2	2	66	0.10	3	< 2	< 10	24	< 10	3	17	0.27	0.35
1229054106	200	2.38	< 10	< 1	0.25	20	0.63	0.119	0.047	2.00	< 2	< 1	63	0.02	1	< 2	< 10	10	< 10	2	14	0.27	1.90
1229054081	96	2.78	< 10	< 1	0.27	17	0.99	0.135	0.052	2.12	< 2	1	53	0.02	1	< 2	< 10	15	< 10	3	22	0.14	2.05
1229054053	198	2.53	< 10	< 1	0.44	16	0.98	0.117	0.043	1.46	< 2	2	45	0.07	3	< 2	< 10	24	< 10	3	17	0.24	1.40
1229054123	148	3.11	< 10	< 1	0.19	14	0.61	0.164	0.046	3.11	3	< 1	113	< 0.01	2	< 2	< 10	9	< 10	2	22	0.52	2.88

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229054001	245	5.23	< 10	2	0.18	11	1.58	0.056	0.052	3.85	< 2	4	28	0.02	3	< 2	< 10	55	< 10	6	16	0.61	3.64
1229054063	228	2.71	< 10	< 1	0.60	14	1.11	0.078	0.045	1.24	< 2	2	30	0.09	< 1	< 2	< 10	29	< 10	3	21	0.44	1.18
1227012251	80	2.31	< 10	< 1	0.19	15	0.72	0.050	0.047	1.70	3	< 1	37	< 0.01	2	< 2	< 10	9	< 10	1	12	0.10	1.55
1227012269	78	2.58	< 10	< 1	0.21	13	0.97	0.028	0.052	2.20	< 2	< 1	32	0.02	1	< 2	< 10	8	< 10	2	10	0.10	2.02
1229054167	111	2.09	< 10	< 1	0.25	13	0.91	0.108	0.037	1.03	< 2	1	43	0.01	3	< 2	< 10	12	< 10	2	14	0.40	0.95
1229054108	189	2.23	< 10	< 1	0.23	18	0.64	0.146	0.049	1.41	< 2	1	115	0.05	1	< 2	< 10	14	< 10	3	16	0.61	1.30
1227012301	71	2.24	< 10	< 1	0.24	13	1.09	0.047	0.041	1.76	< 2	< 1	33	0.03	3	< 2	< 10	9	< 10	2	16	0.22	1.66
1229054104	135	2.35	< 10	< 1	0.20	15	0.55	0.091	0.048	2.11	< 2	< 1	59	0.03	1	< 2	< 10	11	< 10	2	24	0.25	1.99
1234005378	167	2.66	< 10	< 1	0.31	27	1.26	0.161	0.064	0.14	< 2	3	130	0.13	4	< 2	< 10	35	< 10	4	16	0.27	0.11
1229054176	135	2.91	< 10	< 1	0.23	14	1.15	0.100	0.044	1.45	< 2	1	39	< 0.01	2	< 2	< 10	14	< 10	3	14	0.24	1.38
1227020184	126	3.40	< 10	< 1	0.16	14	1.11	0.182	0.044	2.02	< 2	2	126	< 0.01	< 1	< 2	< 10	21	< 10	3	12	0.20	1.96
1227020001	111	3.83	< 10	< 1	0.19	16	1.47	0.081	0.045	2.58	< 2	1	43	0.01	3	< 2	< 10	17	< 10	3	25	0.11	2.57
1227020179	98	2.44	< 10	< 1	0.20	14	1.39	0.147	0.039	1.58	< 2	< 1	74	< 0.01	< 1	< 2	< 10	10	< 10	2	21	0.18	1.59
V860606	14	3.52	< 10	< 1	0.23	11	0.54	0.262	0.060	0.06	< 2	4	41	0.49	5	< 2	< 10	101	< 10	17	26		
1227012221	57	2.31	< 10	< 1	0.17	14	0.88	0.044	0.046	1.84	< 2	< 1	32	< 0.01	2	< 2	< 10	9	< 10	1	12	0.07	1.72
1227020048	167	2.36	< 10	< 1	0.30	16	1.43	0.127	0.045	1.24	< 2	1	109	0.07	2	< 2	< 10	20	< 10	3	19	0.27	1.23
1228028050	165	2.02	< 10	< 1	0.18	11	1.11	0.113	0.036	0.69	< 2	2	76	< 0.01	3	< 2	< 10	17	< 10	2	4	0.56	0.61
1228028027	90	2.11	< 10	< 1	0.36	17	1.00	0.168	0.046	1.74	< 2	1	64	0.04	1	< 2	< 10	15	< 10	3	12	0.60	1.66
1227012246	117	2.56	< 10	< 1	0.22	19	1.40	0.032	0.079	1.24	2	3	49	0.04	1	< 2	< 10	32	< 10	3	11	0.07	1.17
1228028054	212	1.84	< 10	< 1	0.17	11	0.61	0.203	0.034	0.57	< 2	1	104	0.03	< 1	< 2	< 10	12	< 10	2	10	0.33	0.55
1228028153	109	2.59	< 10	< 1	0.28	18	1.06	0.110	0.057	2.83	6	1	42	0.02	10	< 2	< 10	11	< 10	3	20	0.61	2.68
1228028122	88	3.87	< 10	2	0.36	15	0.77	0.153	0.041	4.80	49	< 1	51	0.02	< 1	< 2	< 10	10	< 10	2	15	0.33	4.59
1228028074	177	2.03	< 10	< 1	0.23	16	0.94	0.111	0.041	1.27	< 2	1	59	0.02	2	< 2	< 10	13	< 10	3	12	0.77	1.26
1227012113	36	2.05	< 10	< 1	0.20	16	0.43	0.067	0.046	2.44	4	< 1	57	< 0.01	5	< 2	< 10	5	< 10	2	21	0.47	2.40
1227020032	67	4.83	< 10	3	0.23	13	2.37	0.026	0.047	4.43	9	2	16	< 0.01	2	< 2	< 10	29	< 10	3	18	0.14	4.36
1227020015	106	1.72	< 10	< 1	0.26	38	0.78	0.081	0.065	0.91	< 2	< 1	81	0.03	1	< 2	< 10	10	< 10	3	13	0.55	0.86
1227012208	92	2.40	< 10	< 1	0.24	17	0.73	0.029	0.047	2.73	< 2	< 1	15	< 0.01	5	< 2	< 10	6	< 10	2	17	0.14	2.51
1227012167	94	2.14	< 10	< 1	0.17	14	0.95	0.082	0.041	2.32	< 2	< 1	48	< 0.01	1	< 2	< 10	7	< 10	2	22	0.29	2.26
1228028068	125	2.13	< 10	< 1	0.34	14	0.99	0.161	0.039	1.73	< 2	1	57	0.04	< 1	< 2	< 10	15	< 10	2	7	0.75	1.60
1228028160	102	2.20	< 10	< 1	0.27	17	0.76	0.057	0.048	2.45	< 2	< 1	25	< 0.01	2	< 2	< 10	6	< 10	2	13	0.67	2.34
1228028003	94	1.75	< 10	< 1	0.14	13	0.85	0.068	0.037	1.00	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	1	7	0.24	0.94
1228029018	128	1.18	< 10	< 1	0.24	15	0.75	0.068	0.037	0.68	< 2	< 1	55	< 0.01	< 1	< 2	< 10	8	< 10	1	8	0.19	0.64
1228029048	113	2.54	< 10	< 1	0.23	16	1.03	0.079	0.042	1.28	< 2	< 1	66	< 0.01	< 1	< 2	< 10	11	< 10	1	11	0.26	1.18
1228029129	253	1.95	< 10	< 1	0.14	20	0.79	0.243	0.048	1.23	< 2	2	163	< 0.01	< 1	< 2	< 10	14	< 10	2	13	0.36	1.13
V860607	12	3.70	< 10	< 1	0.30	11	0.67	0.171	0.070	0.07	< 2	5	30	0.41	5	< 2	< 10	112	< 10	16	14		
1228032229	172	3.45	< 10	< 1	0.25	23	1.97	0.030	0.079	1.28	< 2	2	48	0.03	3	< 2	< 10	27	< 10	3	14	0.25	1.25
1228032098	130	2.32	< 10	< 1	0.24	13	1.58	0.040	0.040	0.99	< 2	< 1	29	< 0.01	2	< 2	< 10	11	< 10	2	13	0.39	0.93
1228030149	147	2.33	< 10	< 1	0.35	21	1.20	0.093	0.051	1.49	< 2	2	44	0.04	2	< 2	< 10	17	< 10	3	20	0.35	1.39

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1228030120	
1228028190	
1334004017	
1228029244	
1227009102	
1228030101	
1228029192	
1228030022	
1334004045	
1227009023	
1228030200	
1227009097	
1229055042	
1227009132	
1228029185	
1228029075	
1227009077	
1228030235	
1227009116	
V860601	
1228029207	
1227012117	
1228028182	
1228028131	
1228029001	
1228029158	
1334004073	
1228028197	
1228029077	
1228029199	
1228029155	
1227012068	
1228029106	
1228030037	
1228029071	
1228030039	
V860602	
1227019048	
1227012197	
1227019090	
1227012090	
1227012149	
1229056034	
1227012131	363
1227019118	
1227019142	
1229055044	
1227019040	
1229056128	
1227019096	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1227012050	
1227019226	
1227019189	
1229056044	
1229056026	
V860603	
1227020135	
1227020140	
1227020145	
1234005424	
1234005115	
1229053032	
1234005132	
1234005013	
1229053165	
1229053079	
1234005291	
1229053058	
1229053182	
1229053125	
1229053150	
1234005177	
V860604	
1228030238	
1229055021	
1229055094	
1227009046	
1227009227	
1229055067	
1229055109	
1227009063	
1227009201	
1229056002	
1227009001	
1227019092	
1229055064	
1227009191	
1227019066	
1227019028	
1227019145	
1227019195	
1227019083	
V860605	
1229053104	
1229053191	
1229053100	
1229054071	
1234005270	
1229054106	
1229054081	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1229054053	
1229054123	
1229054001	
1229054063	
1227012251	
1227012269	
1229054167	
1229054108	
1227012301	
1229054104	
1234005378	
1229054176	
1227020184	
1227020001	
1227020179	
V860606	
1227012221	
1227020048	
1228028050	
1228028027	
1227012246	
1228028054	
1228028153	
1228028122	
1228028074	
1227012113	
1227020032	
1227020015	
1227012208	
1227012167	
1228028068	
1228028160	
1228028003	
1228029018	
1228029048	
1228029129	
V860607	
1228032229	
1228032098	
1228030149	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	68	972	1	22	85	120	6.05	241	< 10	701	0.9	3	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1000	1	23	89	123	6.30	224	< 10	781	0.9	3	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	75	1010	2	22	88	122	6.62	242	< 10	775	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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BaSO4 Cert																							
SGR-1b Meas																							
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GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		42.6				8.59																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3				7.99																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2250	747	< 1	33	55	252	2.59	4		79	0.8	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	748	< 1	34	55	259	2.59	3		79	0.8	8	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2320	745	< 1	33	54	259	2.72	6		84	0.8	8	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.2	< 0.5	4530	832	< 1	32	71	331	2.62	5		67	0.7	22	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				82	412						51		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.2		> 10000				83	412						72		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							531																
OREAS 218 Cert							531																
OREAS 218 Meas							542																
OREAS 218 Cert							531																
OREAS 218 Meas							516																
OREAS 218 Cert							531																
OREAS 218 Meas							543																
OREAS 218 Cert							531																
OREAS 218 Meas							540																
OREAS 218 Cert							531																
OREAS 218 Meas							542																
OREAS 218 Cert							531																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Meas								69.3	272	3690	511	13	22	> 5000	> 10000	1.60	79			0.6	6	1.37	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.1	270	3590	508	14	22	> 5000	> 10000	1.59	76			0.6	4	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.8	271	3730	515	14	24	> 5000	> 10000	1.65	81			0.6	6	1.50	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										356	168	1	222	8	27	6.64			133	1.0	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	164	1	224	11	27	6.62			137	1.0	4	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										373	172	1	225	10	27	7.04			136	1.1	7	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
1227009023 Orig							131																
1227009023 Dup							136																
1229055042 Orig								1.1	2.4	70	529	1	13	6	752	1.65	21	< 10	54	< 0.5	8	1.05	11
1229055042 Dup								1.1	2.6	73	542	1	14	5	780	1.68	20	< 10	54	< 0.5	5	1.07	9
1227009116 Orig							18																
1227009116 Dup							20																
1228029207 Orig																							
1228029207 Dup																							
1334004073 Orig								< 0.2	< 0.5	102	1200	< 1	69	< 2	96	3.86	3	< 10	16	< 0.5	2	5.25	35
1334004073 Dup								0.2	< 0.5	102	1180	< 1	69	< 2	94	3.80	5	< 10	16	< 0.5	< 2	5.16	33
1228029199 Orig							65																
1228029199 Dup							78																
1227012068 Orig																							
1227012068 Dup																							
1227019090 Orig								0.5	< 0.5	28	426	< 1	13	5	51	2.34	32	< 10	52	< 0.5	4	1.50	9
1227019090 Dup								0.5	< 0.5	27	418	< 1	12	6	51	2.28	34	< 10	55	< 0.5	5	1.48	9
1229056034 Orig																							
1229056034 Dup																							
1227012131 Orig							> 5000																
1227012131 Dup							> 5000																
1227019118 Orig							1260																
1227019118 Dup							1390																
1227019040 Orig	19.2	28.1	8.95	23.6	1.19																		
1227019040 Dup	19.2	28.0	8.84	23.6	1.19																		
1229056044 Orig								0.7	< 0.5	32	655	1	16	8	104	2.08	16	< 10	45	< 0.5	3	1.21	13
1229056044 Dup								0.6	< 0.5	30	632	1	16	7	99	1.98	14	< 10	49	< 0.5	3	1.15	12
1229056026 Orig							215																
1229056026 Dup							244																
1229053165 Orig							148																
1229053165 Dup							195																
1228030238 Orig						9.12																	
1228030238 Dup						9.05																	
1227009046 Orig								0.6	< 0.5	133	370	2	12	5	62	2.11	20	< 10	37	< 0.5	5	0.44	14
1227009046 Dup								0.7	< 0.5	138	378	2	12	5	63	2.15	24	< 10	32	< 0.5	5	0.45	14
1229055109 Orig							174																
1229055109 Dup							192																
1227009191 Orig																							
1227009191 Dup																							
1227019145 Orig							69																
1227019145 Dup							68																
1227019195 Orig								1.3	< 0.5	98	256	1	12	13	31	1.87	24	< 10	37	< 0.5	5	0.69	10
1227019195 Dup								1.2	< 0.5	95	255	1	12	11	31	1.86	22	< 10	36	< 0.5	5	0.69	10
1229054071 Orig	56.2	13.1	-43.2	61.6	0.212																		
1229054071 Dup	56.2	13.0	-43.2	61.6	0.212																		
1229054106 Orig																							
1229054106 Dup																							
1229054063 Orig								0.8	1.9	57	800	2	14	3	439	1.41	13	< 10	79	< 0.5	< 2	1.08	12

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229054063 Dup								0.8	2.0	58	804	2	15	2	454	1.42	14	< 10	59	< 0.5	< 2	1.09	12
1227012301 Orig																							
1227012301 Dup																							
1227020179 Orig							258																
1227020179 Dup							201																
1227020048 Orig								0.5	0.7	55	552	2	12	< 2	151	2.28	10	< 10	53	< 0.5	4	1.51	9
1227020048 Dup								0.4	0.7	58	551	2	12	< 2	148	2.35	10	< 10	56	< 0.5	4	1.52	10
1227012246 Orig																							
1227012246 Dup																							
1228028074 Orig							51																
1228028074 Dup							55																
1228028068 Orig																							
1228028068 Dup																							
1228029018 Orig								0.4	< 0.5	34	343	1	10	20	105	1.50	8	< 10	40	< 0.5	< 2	0.95	6
1228029018 Dup								0.4	< 0.5	31	349	1	10	23	113	1.51	9	< 10	42	< 0.5	< 2	0.95	6
1228029048 Orig							246																
1228029048 Dup							214																
1228032098 Orig						8.96																	
1228032098 Dup						8.96																	
1228030149 Orig	38.5	29.6	-8.90	42.6	0.696																		
1228030149 Dup	38.5	29.8	-8.73	42.6	0.700																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	80	5.42	20	2	1.11	< 10	0.38	0.112	0.033	0.01	4	19	28		< 1	< 2	< 10	168	< 10	5	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	83	5.57	20	1	1.13	< 10	0.40	0.133	0.034	0.01	4	20	33		< 1	< 2	< 10	169	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	86	5.53	20	2	1.21	10	0.42	0.140	0.035	0.01	4	21	34		< 1	< 2	< 10	177	< 10	5	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
SGR-1b Meas																						27.4	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.50
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.1	1.50
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.52
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.52
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	49	5.04	< 10		0.50	39	1.34	0.032	0.062	0.37	2	4	16			< 2	< 10	37	< 10	22	22		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.06	< 10		0.49	39	1.35	0.033	0.061	0.37	3	4	17			< 2	< 10	36	< 10	21	11		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.19	< 10		0.54	41	1.40	0.035	0.064	0.38	2	4	17			< 2	< 10	38	< 10	23	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.85	< 10		0.44	37	1.44		0.060	0.68	3	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.88	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.74	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
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OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	30	3.25	10	4	0.39	19	0.44	0.154	0.034	4.25	106	2	17			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua	31	3.24	10	4	0.39	20	0.44	0.158	0.033	4.64	112	2	18			< 2	< 10	13	< 10	8	66		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	38	3.30	10	4	0.41	20	0.45	0.164	0.034	4.56	115	3	18			< 2	< 10	14	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	365	14.2	20	< 1	0.11	11	0.18	0.046	0.021	0.02		27	14	0.13		< 2	< 10	204		5	19		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	364	14.4	20	< 1	0.11	11	0.18	0.049	0.021	0.02		27	15	0.10		< 2	< 10	205		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	376	14.5	20	< 1	0.12	11	0.19	0.051	0.022	0.02		28	15	0.14		< 2	< 10	213		5	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
1227009023 Orig																						0.12	2.70
1227009023 Dup																						0.13	2.71
1229055042 Orig	184	2.51	< 10	< 1	0.27	16	0.81	0.141	0.043	1.84	< 2	1	55	0.01	2	< 2	< 10	13	< 10	2	19		
1229055042 Dup	194	2.54	< 10	< 1	0.28	16	0.83	0.146	0.044	1.86	< 2	1	56	0.01	5	< 2	< 10	13	< 10	2	19		
1227009116 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227009116 Dup																							
1228029207 Orig																						0.53	1.13
1228029207 Dup																						0.53	1.13
1334004073 Orig	169	9.48	10	1	0.05	< 10	2.68	0.245	0.047	0.17	3	20	70	0.13	2	< 2	< 10	260	< 10	10	5		
1334004073 Dup	166	9.44	10	< 1	0.05	< 10	2.64	0.243	0.046	0.16	3	19	69	0.13	< 1	< 2	< 10	254	< 10	10	5		
1228029199 Orig																							
1228029199 Dup																							
1227012068 Orig																						0.42	1.62
1227012068 Dup																						0.43	1.67
1227019090 Orig	216	2.92	< 10	< 1	0.36	16	1.20	0.177	0.042	2.05	< 2	1	80	0.01	1	< 2	< 10	11	< 10	3	25		
1227019090 Dup	218	2.88	< 10	< 1	0.34	15	1.17	0.172	0.041	1.98	< 2	1	79	0.01	< 1	< 2	< 10	11	< 10	3	25		
1229056034 Orig																						0.50	1.24
1229056034 Dup																						0.51	1.27
1227012131 Orig																							
1227012131 Dup																							
1227019118 Orig																							
1227019118 Dup																							
1227019040 Orig																							
1227019040 Dup																							
1229056044 Orig	111	3.33	< 10	< 1	0.31	13	1.68	0.093	0.046	1.90	< 2	2	54	0.02	< 1	< 2	< 10	31	< 10	5	18	0.34	1.83
1229056044 Dup	108	3.24	< 10	< 1	0.30	13	1.59	0.090	0.044	1.81	< 2	2	52	0.02	< 1	< 2	< 10	29	< 10	4	18	0.33	1.87
1229056026 Orig																							
1229056026 Dup																							
1229053165 Orig																						0.30	1.17
1229053165 Dup																						0.31	1.00
1228030238 Orig																							
1228030238 Dup																							
1227009046 Orig	125	3.48	< 10	< 1	0.28	17	1.69	0.064	0.043	2.24	< 2	1	34	< 0.01	< 1	< 2	< 10	12	< 10	3	24	0.10	2.24
1227009046 Dup	128	3.59	< 10	< 1	0.27	18	1.68	0.063	0.044	2.35	< 2	1	34	< 0.01	< 1	< 2	< 10	12	< 10	3	24	0.10	2.26
1229055109 Orig																							
1229055109 Dup																							
1227009191 Orig																						0.31	2.41
1227009191 Dup																						0.33	2.44
1227019145 Orig																							
1227019145 Dup																							
1227019195 Orig	147	3.63	< 10	< 1	0.30	15	0.77	0.060	0.038	2.46	< 2	1	53	0.02	1	< 2	< 10	9	< 10	2	21		
1227019195 Dup	150	3.62	< 10	< 1	0.29	15	0.78	0.059	0.037	2.47	< 2	1	53	0.02	1	< 2	< 10	9	< 10	2	21		
1229054071 Orig																							
1229054071 Dup																							
1229054106 Orig																						0.28	1.93
1229054106 Dup																						0.26	1.88
1229054063 Orig	227	2.68	< 10	< 1	0.60	14	1.10	0.080	0.045	1.21	< 2	2	30	0.09	3	< 2	< 10	28	< 10	3	21		
1229054063 Dup	229	2.73	< 10	< 1	0.61	14	1.12	0.077	0.045	1.26	< 2	2	29	0.09	< 1	< 2	< 10	29	< 10	3	21		
1227012301 Orig																						0.21	1.65
1227012301 Dup																						0.22	1.67
1227020179 Orig																							
1227020179 Dup																							
1227020048 Orig	167	2.37	< 10	< 1	0.29	17	1.42	0.125	0.045	1.24	< 2	1	107	0.07	1	< 2	< 10	20	< 10	3	19		
1227020048 Dup	166	2.35	< 10	< 1	0.31	15	1.44	0.130	0.045	1.24	< 2	2	111	0.08	2	< 2	< 10	21	< 10	3	19		
1227012246 Orig																						0.07	1.18
1227012246 Dup																						0.07	1.16

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228028074 Orig																							
1228028074 Dup																							
1228028068 Orig																						0.75	1.56
1228028068 Dup																						0.75	1.65
1228029018 Orig	125	1.17	< 10	< 1	0.23	15	0.75	0.068	0.038	0.68	< 2	< 1	54	< 0.01	< 1	< 2	< 10	8	< 10	1	8		
1228029018 Dup	131	1.19	< 10	< 1	0.24	15	0.75	0.069	0.036	0.68	< 2	< 1	55	< 0.01	< 1	< 2	< 10	8	< 10	1	8		
1228029048 Orig																							
1228029048 Dup																							
1228032098 Orig																							
1228032098 Dup																							
1228030149 Orig																						0.35	1.41
1228030149 Dup																						0.35	1.37
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
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BaSO4 Cert	
SGR-1b Meas	
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GS311-4 Meas	
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GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
OREAS 218 Meas	0.56
OREAS 218 Cert	0.53
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
1227009023 Orig	
1227009023 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1229055042 Orig	
1229055042 Dup	
1227009116 Orig	
1227009116 Dup	
1228029207 Orig	
1228029207 Dup	
1334004073 Orig	
1334004073 Dup	
1228029199 Orig	
1228029199 Dup	
1227012068 Orig	
1227012068 Dup	
1227019090 Orig	
1227019090 Dup	
1229056034 Orig	
1229056034 Dup	
1227012131 Orig	373
1227012131 Dup	354
1227019118 Orig	
1227019118 Dup	
1227019040 Orig	
1227019040 Dup	
1229056044 Orig	
1229056044 Dup	
1229056026 Orig	
1229056026 Dup	
1229053165 Orig	
1229053165 Dup	
1228030238 Orig	
1228030238 Dup	
1227009046 Orig	
1227009046 Dup	
1229055109 Orig	
1229055109 Dup	
1227009191 Orig	
1227009191 Dup	
1227019145 Orig	
1227019145 Dup	
1227019195 Orig	
1227019195 Dup	
1229054071 Orig	
1229054071 Dup	
1229054106 Orig	
1229054106 Dup	
1229054063 Orig	
1229054063 Dup	
1227012301 Orig	
1227012301 Dup	
1227020179 Orig	
1227020179 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1227020048 Orig	
1227020048 Dup	
1227012246 Orig	
1227012246 Dup	
1228028074 Orig	
1228028074 Dup	
1228028068 Orig	
1228028068 Dup	
1228029018 Orig	
1228029018 Dup	
1228029048 Orig	
1228029048 Dup	
1228032098 Orig	
1228032098 Dup	
1228030149 Orig	
1228030149 Dup	
Method Blank	
Method Blank	
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Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-01688**
Report Date:	**12-Mar-20**
Date Submitted:	**11-Feb-20**
Your Reference:	**2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-02-14 17:13:38
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-02-21 14:44:28

REPORT **A20-01688**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-01688**
Report Date: **12-Mar-20**
Date Submitted: **11-Feb-20**
Your Reference: **2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-28 21:49:40
4F-C, S	Infrared	2020-02-24 21:28:10

REPORT **A20-01688**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1228032118	60.3	6.32	-54.0	67.4	0.0938	8.44	953	2.2	< 0.5	617	416	2	13	2	111	2.05	28	< 10	47	< 0.5	7	0.37	11
1228032262	44.3	12.8	-31.5	49.3	0.259	9.22	92	0.9	1.3	40	425	1	14	21	336	2.19	11	< 10	53	< 0.5	6	1.20	9
1228030218	13.8	13.0	-0.736	13.5	0.966	9.45	32	< 0.2	< 0.5	18	830	2	21	3	189	3.86	< 2	< 10	107	< 0.5	< 2	2.36	9
1228032283	41.7	10.9	-30.8	45.6	0.239	9.46	80	1.7	1.0	27	387	< 1	16	3	255	1.73	10	< 10	49	< 0.5	5	0.86	9
1228032241	35.4	16.2	-19.2	39.5	0.411	9.38	111	0.5	0.9	31	637	< 1	13	4	222	1.86	14	< 10	64	< 0.5	4	0.94	9
1228032203	20.3	15.3	-4.96	23.6	0.651	9.40	70	0.2	< 0.5	24	672	< 1	18	6	116	2.00	11	< 10	79	< 0.5	< 2	1.03	9
1227033002	66.1	11.5	-54.7	74.1	0.155	9.30	48	0.7	1.7	74	583	1	13	12	434	1.83	9	< 10	44	< 0.5	4	0.79	10
1229056007	58.0	63.1	5.14	65.8	0.959	8.83	701	2.5	1.2	176	631	1	53	5	210	1.43	8	< 10	52	< 0.5	5	2.49	13
1229056090	65.4	60.6	-4.79	72.9	0.832	8.89	75	0.9	0.6	39	667	1	28	6	116	1.34	8	< 10	50	< 0.5	9	2.62	10
1229056011	15.7	94.2	78.4	20.2	4.66	9.00	146	0.3	0.7	68	823	2	130	3	137	2.55	7	< 10	51	< 0.5	5	3.57	18
1227033011	45.8	50.9	5.09	50.5	1.01	9.04	153	1.5	1.3	68	1030	1	12	55	314	1.57	27	< 10	38	< 0.5	5	2.12	9
1229056091	45.7	64.7	19.0	53.6	1.21	9.13	145	1.0	< 0.5	98	711	3	53	6	95	1.81	19	< 10	64	< 0.5	5	2.58	17
1227033063	63.8	45.3	-18.5	72.0	0.630	9.34	554	1.9	1.6	63	987	< 1	12	84	458	1.41	49	< 10	48	< 0.5	< 2	1.82	10
1227033044	52.1	31.5	-20.5	59.4	0.531	9.35	321	3.3	3.3	74	787	< 1	11	11	829	2.07	22	< 10	58	< 0.5	3	1.62	10
1227033005	58.5	28.6	-29.9	67.1	0.427	9.43	170	2.1	1.7	36	643	< 1	10	11	418	1.92	15	< 10	47	< 0.5	4	1.43	11
1227013027	73.8	8.83	-65.0	79.6	0.111	8.95	334	0.4	< 0.5	56	339	1	12	23	61	1.70	12	< 10	37	< 0.5	5	0.51	9
1227013113	34.9	14.2	-20.6	39.8	0.358	8.97	639	1.1	< 0.5	389	633	2	12	4	49	3.00	7	< 10	77	< 0.5	5	1.90	10
1227013064	42.0	9.57	-32.4	46.2	0.207	9.20	322	0.7	< 0.5	201	356	< 1	11	3	60	3.02	7	< 10	51	< 0.5	5	1.02	7
V860608							123	1.7	< 0.5	62	336	5	12	8	62	1.43	< 2	< 10	77	< 0.5	< 2	1.19	16
1228032034	50.0	10.4	-39.6	53.3	0.195	8.98	243	0.4	< 0.5	114	255	2	9	9	44	1.79	8	< 10	40	< 0.5	6	0.87	8
1228032223	35.9	16.9	-19.0	38.6	0.439	9.07	474	1.1	0.6	167	314	3	12	5	199	1.45	21	< 10	45	< 0.5	< 2	0.78	13
1228032144	49.3	10.5	-38.8	53.0	0.198	8.90	188	0.4	< 0.5	33	217	2	13	< 2	55	1.83	11	< 10	40	< 0.5	5	0.74	11
1228032080	14.1	26.8	12.7	17.5	1.53	9.40	65	0.3	< 0.5	105	528	8	15	9	230	2.33	7	< 10	54	< 0.5	< 2	1.39	13
1228032138	30.1	15.5	-14.6	34.0	0.455	9.06	327	0.3	< 0.5	52	403	2	12	3	88	2.11	14	14	63	< 0.5	2	1.19	13
1228032131	15.3	19.7	4.42	15.0	1.32	9.33	148	0.3	< 0.5	66	394	5	11	12	123	1.91	9	13	58	< 0.5	3	1.22	8
1229056004	23.0	25.7	2.73	26.0	0.989	9.23	44	0.2	0.7	23	576	< 1	33	3	213	1.57	6	< 10	43	< 0.5	3	1.36	9
1228030033	37.7	25.1	-12.6	42.3	0.595	9.21	58	1.1	0.6	112	453	4	12	9	176	1.94	7	13	53	< 0.5	5	1.55	9
1229056022	169	45.7	-124	209	0.218	8.80	187	3.3	0.9	149	1010	1	43	7	297	2.56	17	< 10	14	< 0.5	8	2.23	29
1229056024	44.7	57.7	13.0	53.9	1.07	9.40	110	1.0	2.3	73	992	< 1	44	3	569	1.94	10	< 10	39	< 0.5	2	2.39	17
1228032016	56.0	12.1	-43.9	61.3	0.198	9.19	53	0.4	< 0.5	60	323	< 1	12	8	82	2.25	14	< 10	50	< 0.5	5	0.79	11
1228032217	98.2	22.4	-75.8	106	0.212	9.04	356	0.8	< 0.5	32	334	< 1	29	6	132	2.15	27	< 10	36	< 0.5	4	1.61	26
1228030109	35.8	18.8	-17.0	38.9	0.483	9.08	84	0.4	< 0.5	61	603	2	14	21	120	1.83	15	< 10	52	< 0.5	4	1.63	9
1228032018	47.9	11.2	-36.7	52.7	0.213	9.28	99	0.4	< 0.5	44	256	1	12	< 2	47	2.60	7	< 10	39	< 0.5	5	1.21	12
V860609							743	3.1	< 0.5	35	257	14	11	17	47	1.16	< 2	< 10	59	< 0.5	< 2	2.09	11
1228035078	33.3	35.4	2.09	37.1	0.956	9.10	122	0.4	< 0.5	45	577	2	18	2	166	1.79	10	< 10	61	< 0.5	< 2	1.13	11
1227032098	43.8	25.3	-18.5	49.0	0.517	9.08	69	0.5	< 0.5	74	513	4	19	3	114	1.38	12	< 10	58	< 0.5	4	1.39	11
1228035081	48.0	17.8	-30.2	51.8	0.344	8.94	92	0.8	< 0.5	105	535	1	15	2	62	1.97	10	< 10	57	< 0.5	5	1.49	9
1228035111	38.1	15.3	-22.8	43.2	0.354	9.00	292	1.4	< 0.5	205	540	1	18	2	98	2.31	16	< 10	73	< 0.5	< 2	1.37	13
1228035198	22.2	60.1	37.9	27.3	2.20	9.07	90	0.5	1.1	27	775	1	19	2	197	1.29	6	< 10	59	< 0.5	2	2.40	11
1233001082	16.6	24.2	7.64	19.6	1.23	9.17	17	0.4	< 0.5	26	722	< 1	22	16	158	1.88	9	< 10	52	< 0.5	< 2	1.92	12
1228035155	28.5	21.0	-7.53	32.8	0.641	9.22	90	0.5	1.1	33	668	< 1	14	2	320	1.95	11	< 10	80	< 0.5	< 2	1.47	10
1228035099	34.5	17.7	-16.8	38.3	0.462	8.95	200	1.2	0.7	251	567	< 1	14	3	128	2.05	11	< 10	57	< 0.5	< 2	1.40	10
1233001023	13.1	28.5	15.4	12.9	2.21	9.04	27	0.6	0.9	11	582	< 1	16	31	267	1.64	9	< 10	51	< 0.5	3	1.82	7
1227036008	0.000	85.7	85.7	8.57	10.00	9.37	16	< 0.2	< 0.5	34	796	< 1	52	2	64	2.38	6	< 10	273	< 0.5	< 2	3.69	25
1227036043	39.3	24.5	-14.8	43.2	0.567	9.25	174	1.8	0.9	57	477	< 1	19	4	212	1.45	28	< 10	44	< 0.5	4	1.36	9
1228035069	42.5	19.8	-22.7	48.1	0.412	8.94	502	3.7	< 0.5	552	608	< 1	17	4	117	1.64	11	< 10	42	< 0.5	2	1.01	9
1227036041	58.5	19.4	-39.1	63.7	0.305	9.17	219	1.7	< 0.5	72	394	1	27	4	42	1.96	33	< 10	31	< 0.5	5	1.44	12
1227032003	29.1	19.8	-9.21	32.5	0.611	9.02	115	< 0.2	0.7	29	426	1	14	< 2	230	1.30	4	< 10	45	< 0.5	3	0.96	8
1227036016	17.8	12.0	-5.77	17.5	0.690	9.14	60	0.2	< 0.5	41	492	1	15	6	112	2.60	5	10	40	< 0.5	6	1.16	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1233001169	72.5	17.1	-55.4	78.7	0.217	8.84	48	0.8	0.8	58	483	2	17	9	192	1.65	12	< 10	32	< 0.5	2	1.33	11
1227036063	53.4	8.58	-44.8	58.8	0.146	9.23	222	1.2	< 0.5	125	353	< 1	13	5	105	1.69	20	< 10	35	< 0.5	3	0.86	10
V860610							1180	4.3	< 0.5	23	133	7	5	2	25	0.56	< 2	< 10	23	< 0.5	4	0.60	4
1233001231	17.8	34.6	16.7	17.5	1.98	9.43	12	0.3	< 0.5	13	725	< 1	18	6	111	1.52	8	< 10	77	< 0.5	< 2	1.64	13
1227017023	47.9	23.5	-24.4	53.9	0.436	9.11	49	0.6	< 0.5	54	479	2	13	13	166	1.69	10	< 10	44	< 0.5	5	1.35	8
1227017118	30.0	42.2	12.2	34.6	1.22	9.47	103	0.6	< 0.5	36	870	1	18	6	107	2.76	19	< 10	77	< 0.5	3	2.58	11
1226001228	7.18	21.4	14.2	10.4	2.06	9.24	9	< 0.2	< 0.5	20	437	< 1	9	7	85	2.47	5	< 10	44	< 0.5	< 2	1.68	8
1227017146	69.4	36.8	-32.6	68.0	0.541	9.00	73	0.7	2.5	16	693	1	12	17	768	1.38	14	< 10	43	< 0.5	3	1.58	8
1227017001	56.8	28.2	-28.5	62.2	0.454	9.14	117	1.5	< 0.5	17	573	< 1	10	59	165	1.60	19	13	51	< 0.5	4	1.36	8
1227017013	56.4	30.9	-25.6	61.6	0.502	8.99	338	0.3	0.6	17	510	< 1	9	11	148	1.93	20	12	52	< 0.5	4	1.58	9
1226001262	72.4	18.6	-53.8	79.6	0.234	8.72	214	1.4	3.8	78	529	< 1	12	6	935	2.26	19	< 10	45	< 0.5	6	1.31	10
1227017069	30.3	29.7	-0.580	33.7	0.882	9.08	70	0.4	0.9	39	493	2	12	5	295	1.79	16	10	63	< 0.5	2	1.56	8
1227017159	33.4	23.0	-10.4	37.4	0.616	9.04	412	0.7	0.9	54	538	1	11	39	313	1.58	19	< 10	46	< 0.5	3	1.25	9
1226001233	20.5	15.7	-4.80	24.2	0.650	9.05	201	0.8	0.5	25	550	1	12	17	137	2.87	20	< 10	56	< 0.5	3	1.80	17
1226001301	77.4	19.9	-57.5	85.4	0.232	8.89	120	0.9	2.1	62	437	< 1	11	5	551	2.47	20	< 10	46	< 0.5	6	1.35	10
1227017063	41.2	17.7	-23.6	45.0	0.393	9.02	235	0.5	< 0.5	15	531	2	12	11	172	2.49	11	13	51	< 0.5	4	1.32	9
1227022069	33.1	19.3	-13.8	36.4	0.531	8.88	104	0.2	< 0.5	62	284	2	14	4	40	2.54	7	13	40	< 0.5	6	1.27	8
1233001101	17.8	11.9	-5.93	17.5	0.681	8.86	134	1.0	< 0.5	62	431	3	28	18	154	1.90	15	< 10	61	< 0.5	< 2	1.42	14
1227022143	14.7	15.1	0.385	14.4	1.05	9.12	210	0.5	< 0.5	223	278	2	11	4	31	3.15	5	12	53	< 0.5	3	1.43	14
1233001227	19.2	18.2	-0.984	22.0	0.824	9.08	27	0.5	0.6	23	559	< 1	19	9	154	1.51	8	< 10	73	< 0.5	< 2	1.21	11
1227022205	33.5	14.7	-18.8	39.2	0.375	8.90	564	0.6	0.7	189	371	2	12	3	162	2.82	9	11	34	< 0.5	3	1.26	12
1233001294	13.4	14.4	0.919	13.2	1.09	9.21	< 5	< 0.2	< 0.5	22	669	< 1	16	6	105	2.24	3	< 10	65	< 0.5	< 2	1.54	11
V860611							962	2.5	< 0.5	61	384	11	15	7	56	1.47	< 2	< 10	79	< 0.5	< 2	1.35	16
1233001256	72.3	22.0	-50.2	79.3	0.278	9.06	128	1.2	2.8	49	591	1	12	6	708	2.07	16	< 10	38	< 0.5	7	1.58	11
1226001279	83.1	10.4	-72.7	91.6	0.114	8.73	148	1.3	7.7	251	367	< 1	13	5	2070	2.19	15	< 10	38	< 0.5	3	0.95	10
1233001112	15.2	15.0	-0.183	18.4	0.817	9.04	64	0.6	0.5	56	579	2	22	4	128	2.21	7	< 10	57	< 0.5	< 2	1.89	11
1227017186	62.0	17.4	-44.6	67.1	0.259	8.60	349	0.9	< 0.5	40	334	2	13	20	70	1.46	47	< 10	36	< 0.5	6	0.94	11
1227036093	50.7	14.9	-35.8	55.1	0.270	9.17	189	1.0	1.0	71	521	1	15	17	259	1.87	13	< 10	51	< 0.5	4	1.19	9
1233001153	11.9	29.1	17.3	11.6	2.50	9.35	19	0.3	< 0.5	23	547	< 1	23	< 2	139	1.81	8	< 10	90	< 0.5	< 2	1.69	12
1233001196	15.2	30.6	15.4	18.1	1.69	9.32	19	0.3	0.7	23	704	1	22	4	210	1.65	10	< 10	74	< 0.5	< 2	1.65	12
1227017257	41.7	17.6	-24.1	48.4	0.364	8.77	138	1.7	7.6	85	589	2	15	64	2290	2.97	14	< 10	51	< 0.5	3	2.21	10
1227017164	52.6	25.6	-26.9	58.5	0.438	9.29	171	1.1	1.2	20	585	1	16	13	365	1.92	48	< 10	53	< 0.5	4	1.51	11
1227017277	29.4	23.4	-5.95	32.8	0.715	9.24	128	1.1	0.8	17	714	< 1	12	30	226	2.89	24	< 10	67	0.5	4	2.38	9
1227017239	36.1	18.5	-17.6	40.1	0.461	8.74	146	0.9	2.2	193	714	2	15	7	461	2.03	10	< 10	59	< 0.5	< 2	1.52	9
1227017259	33.0	10.0	-23.0	37.4	0.268	9.02	259	1.2	4.3	52	566	1	16	14	1240	3.87	12	< 10	51	< 0.5	4	2.32	9
1227036087	46.1	30.0	-16.2	52.4	0.572	9.56	107	1.1	1.0	103	556	6	38	13	306	1.80	18	< 10	33	< 0.5	3	1.69	13
1227017295	26.6	25.7	-0.852	30.0	0.856	9.05	65	0.5	2.9	38	696	2	12	8	717	2.21	14	15	77	< 0.5	3	1.62	8
1226001185	17.7	11.3	-6.44	20.5	0.549	8.95	41	0.3	< 0.5	16	389	< 1	11	5	51	2.95	12	< 10	59	< 0.5	3	1.92	9
1227017158	30.3	31.7	1.42	34.0	0.933	9.06	44	0.3	0.8	37	761	1	16	24	247	2.38	8	14	44	< 0.5	4	2.12	8
1233001178	8.75	15.1	6.35	8.57	1.76	9.35	32	0.2	< 0.5	80	449	< 1	30	< 2	72	3.58	< 2	< 10	62	< 0.5	< 2	2.66	15
1227036003	21.0	14.7	-6.33	24.8	0.593	9.37	493	1.8	< 0.5	277	504	< 1	15	6	212	2.21	11	< 10	59	< 0.5	5	1.42	9
1227017213	36.6	10.6	-26.0	40.7	0.259	9.04	309	2.0	4.0	58	607	< 1	13	40	1160	3.59	13	< 10	66	< 0.5	3	2.50	8
V860612							122	1.7	< 0.5	58	333	4	12	9	62	1.39	< 2	< 10	75	< 0.5	< 2	1.16	14
1227032033	53.9	18.4	-35.5	59.4	0.311	8.99	114	0.5	< 0.5	120	502	5	18	3	74	1.55	8	< 10	47	< 0.5	< 2	1.12	10
1226001249	70.2	48.3	-21.9	78.1	0.618	8.78	107	0.9	0.9	30	571	1	20	5	240	1.58	11	< 10	42	< 0.5	6	2.08	13
1233001011	9.06	23.6	14.5	8.88	2.66	9.44	16	0.3	< 0.5	20	637	< 1	19	23	138	2.29	3	< 10	83	< 0.5	< 2	1.92	12
1228033114	46.3	17.5	-28.8	51.1	0.343	9.08	140	4.9	0.5	12	654	1	15	6	163	1.62	17	< 10	45	< 0.5	5	1.03	9
1227013507	37.0	34.8	-2.21	41.3	0.841	8.86	135	2.9	1.5	39	479	< 1	34	77	454	2.26	20	< 10	34	< 0.5	3	2.10	10
1226001198	89.1	30.4	-58.8	98.9	0.307	8.84	996	5.3	9.7	160	617	1	23	17	2270	1.86	56	< 10	37	< 0.5	4	1.71	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226001197	73.7	21.9	-51.9	80.2	0.273	9.01	94	1.1	3.4	65	645	1	22	20	809	2.24	17	< 10	35	< 0.5	5	1.65	12
1228033122	83.0	27.4	-55.6	91.3	0.301	8.86	110	1.4	3.1	78	927	1	29	9	848	2.54	27	< 10	44	< 0.5	3	1.54	19
1228035022	24.5	7.74	-16.7	27.6	0.281	9.09	121	0.5	3.3	24	809	1	14	2	839	1.89	12	< 10	75	< 0.5	5	0.44	9
1228035150	25.4	29.2	3.81	28.2	1.04	9.10	79	0.3	0.8	25	600	< 1	13	5	214	1.59	9	< 10	56	< 0.5	2	1.50	10
1227032055	50.5	23.1	-27.4	55.7	0.415	9.09	196	0.5	< 0.5	147	490	4	15	< 2	73	1.20	8	< 10	47	< 0.5	< 2	1.06	9
1228033128	44.6	33.0	-11.6	50.2	0.657	9.07	126	1.6	3.0	85	547	1	25	4	804	1.58	18	< 10	48	< 0.5	3	1.50	18
1228035179	18.4	44.3	25.9	22.0	2.01	9.36	61	0.4	< 0.5	22	621	2	23	2	108	1.33	11	< 10	96	< 0.5	4	1.71	10
1228035049	44.8	10.2	-34.6	49.0	0.209	8.98	521	2.3	< 0.5	419	630	2	13	2	86	1.55	11	< 10	51	< 0.5	6	0.71	10
1228033173	117	23.2	-93.7	126	0.184	8.80	86	1.3	0.6	24	669	< 1	43	24	264	1.92	29	< 10	20	< 0.5	4	1.12	33
1233001034	5.31	23.6	18.3	5.21	4.54	9.43	26	0.4	< 0.5	10	580	< 1	18	< 2	116	1.44	< 2	< 10	76	< 0.5	< 2	1.25	9
1228033172	133	24.0	-109	150	0.159	8.57	126	2.0	2.0	36	652	< 1	41	8	706	1.83	26	< 10	20	< 0.5	8	1.02	31
1227032051	50.7	15.8	-34.9	54.5	0.290	8.94	126	0.5	< 0.5	136	487	4	18	4	101	1.04	14	< 10	43	< 0.5	< 2	0.86	10
1233001114	12.6	25.6	13.0	15.6	1.64	9.05	32	0.5	1.1	19	597	< 1	23	4	291	1.79	11	< 10	63	< 0.5	< 2	1.65	10
V860613							751	3.4	< 0.5	33	248	14	10	15	42	1.05	< 2	< 10	57	< 0.5	< 2	1.98	10
1227013168	12.1	27.2	15.1	15.0	1.81	9.40	49	< 0.2	< 0.5	18	490	1	12	4	115	1.43	7	< 10	48	< 0.5	5	1.11	9
1227013171	24.4	27.2	2.80	27.9	0.975	9.31	72	0.5	0.6	36	500	1	13	8	188	1.31	14	< 10	45	< 0.5	4	1.21	9
1227013224	33.5	34.6	1.11	37.4	0.927	9.07	58	0.5	< 0.5	59	515	2	12	12	127	1.47	10	< 10	57	< 0.5	4	1.68	11
1227013116	24.4	18.1	-6.25	27.6	0.657	9.24	164	0.4	< 0.5	93	489	3	17	2	66	2.27	4	< 10	66	< 0.5	3	1.64	9
1227013009	58.3	14.9	-43.5	64.0	0.232	8.92	89	0.4	< 0.5	36	307	< 1	12	6	92	2.65	15	< 10	46	< 0.5	6	1.60	8
1227013079	23.4	18.3	-5.18	26.3	0.693	9.03	84	< 0.2	< 0.5	23	404	2	12	3	67	1.29	7	< 10	56	< 0.5	3	0.87	10
1227013282	50.8	16.9	-34.0	55.7	0.302	8.79	786	0.9	< 0.5	136	517	1	11	8	87	2.25	31	< 10	56	< 0.5	5	1.57	7
1227013214	42.2	27.2	-15.0	46.2	0.587	9.15	62	0.6	< 0.5	103	411	3	13	5	166	1.25	11	< 10	47	< 0.5	5	1.17	10
1227013262	37.8	30.9	-6.95	42.0	0.735	9.24	36	0.5	0.5	102	414	3	13	12	96	1.12	9	< 10	48	< 0.5	3	1.47	8
1227032022	69.9	46.0	-23.9	80.5	0.571	9.47	138	1.2	2.0	44	671	< 1	17	5	469	2.21	9	< 10	40	< 0.5	7	1.87	13
1227013285	57.2	18.2	-39.0	62.2	0.292	8.85	130	0.7	0.9	109	519	1	12	8	330	2.05	22	< 10	43	< 0.5	5	1.42	9
1227013302	32.8	12.2	-20.6	36.1	0.338	8.81	788	0.9	< 0.5	247	533	2	10	4	74	2.65	8	< 10	56	< 0.5	3	1.73	8
1227013187	100	13.8	-86.4	106	0.131	8.42	1010	0.5	< 0.5	129	311	1	13	4	52	1.36	15	< 10	31	< 0.5	8	0.82	9
1227013018	38.8	6.99	-31.9	41.3	0.169	8.89	69	0.8	< 0.5	82	426	< 1	11	8	150	3.00	10	< 10	55	< 0.5	5	1.29	10
1227013380	25.3	9.40	-15.9	28.5	0.330	9.10	400	0.6	1.0	68	598	2	12	5	505	2.92	9	< 10	64	< 0.5	5	1.90	10
1227013055	35.0	9.11	-25.9	37.4	0.244	8.95	214	0.7	< 0.5	131	427	< 1	10	8	169	2.83	6	< 10	42	< 0.5	3	1.26	9
1227013310	42.4	28.5	-13.9	45.9	0.620	8.84	128	0.5	1.3	77	576	3	17	6	384	1.68	11	< 10	45	< 0.5	5	1.65	11
1227013188	88.2	21.5	-66.7	94.9	0.226	9.69	96	0.3	< 0.5	49	392	1	14	4	81	1.66	10	< 10	35	< 0.5	2	1.10	10
1227032026	74.9	6.50	-68.4	80.8	0.0803	9.04	78	0.7	0.9	32	396	< 1	12	5	222	1.57	5	< 10	34	< 0.5	6	0.57	11
V860614							1150	4.4	< 0.5	23	135	7	6	2	25	0.57	< 2	< 10	25	< 0.5	4	0.61	4
1228033044	47.2	8.31	-38.9	50.5	0.164	9.00	155	3.6	1.0	23	429	< 1	12	9	304	1.79	15	< 10	52	< 0.5	6	0.53	8
1228033062	42.6	19.6	-22.9	46.5	0.422	9.29	163	3.9	1.0	33	454	< 1	9	17	278	1.59	18	< 10	63	< 0.5	6	0.84	8
1227013266	13.4	24.5	11.0	13.2	1.86	9.45	48	< 0.2	< 0.5	10	440	< 1	16	3	78	1.26	8	< 10	49	< 0.5	< 2	1.06	7
1220713362	41.8	33.6	-8.19	47.8	0.703	8.84	44	0.9	3.3	235	535	3	18	7	1010	1.54	8	< 10	49	< 0.5	< 2	1.88	9
1228033001	60.4	24.0	-36.4	65.8	0.364	9.19	207	2.3	0.8	84	426	< 1	41	27	277	1.74	17	< 10	46	< 0.5	5	1.13	15
1227013059	30.9	-6.36	-37.3	30.3	-0.210	8.70	60	0.4	< 0.5	64	404	< 1	11	3	125	3.06	6	< 10	46	< 0.5	6	1.10	9
1227013418	34.5	19.3	-15.2	37.7	0.513	8.76	106	0.4	0.5	39	497	2	11	5	86	1.92	9	< 10	54	< 0.5	3	1.51	8
1228033070	53.9	34.2	-19.7	62.5	0.548	8.95	848	2.0	2.9	93	811	< 1	27	10	768	1.91	46	< 10	36	< 0.5	< 2	1.50	23
1227032060	114	6.64	-107	119	0.0558	8.68	26	0.8	< 0.5	8	239	1	13	15	39	1.30	4	< 10	18	< 0.5	13	0.51	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228032118	157	3.28	< 10	< 1	0.32	15	1.44	0.056	0.042	2.34	< 2	1	36	< 0.01	2	< 2	< 10	15	< 10	2	19	0.18	2.20
1228032262	171	2.38	< 10	< 1	0.22	12	1.22	0.198	0.038	1.78	< 2	1	87	0.01	4	< 2	< 10	13	< 10	2	23	0.18	1.61
1228030218	194	3.09	10	< 1	0.57	37	1.81	0.246	0.078	0.45	< 2	4	155	0.13	1	< 2	< 10	50	< 10	5	21	0.18	0.44
1228032283	306	2.30	< 10	< 1	0.20	13	1.04	0.128	0.037	1.62	2	1	58	0.01	< 1	< 2	< 10	11	< 10	2	24	0.18	1.49
1228032241	201	2.55	< 10	< 1	0.31	14	1.27	0.110	0.041	1.41	2	1	49	0.02	1	< 2	< 10	14	< 10	3	21	0.21	1.29
1228032203	277	2.45	< 10	< 1	0.32	17	1.09	0.149	0.047	0.82	< 2	2	44	0.05	1	< 2	< 10	19	< 10	4	19	0.21	0.77
1227033002	236	2.52	< 10	< 1	0.17	23	1.24	0.120	0.053	2.53	< 2	2	50	< 0.01	< 1	< 2	< 10	15	< 10	3	27	0.18	2.42
1229056007	227	2.99	< 10	< 1	0.24	16	1.33	0.062	0.059	2.24	< 2	2	47	< 0.01	3	< 2	< 10	16	< 10	3	19	0.89	2.15
1229056090	246	2.83	< 10	< 1	0.22	17	0.83	0.125	0.052	2.49	3	1	87	< 0.01	2	< 2	< 10	11	< 10	3	23	0.83	2.38
1229056011	469	3.04	< 10	< 1	0.20	19	2.60	0.130	0.071	0.67	2	5	126	0.02	3	< 2	< 10	36	< 10	4	12	1.36	0.66
1227033011	186	2.18	< 10	< 1	0.19	16	1.27	0.080	0.042	1.75	< 2	< 1	41	< 0.01	2	< 2	< 10	8	< 10	2	16	0.72	1.65
1229056091	245	3.01	< 10	< 1	0.29	17	1.51	0.085	0.057	1.87	< 2	3	85	< 0.01	< 1	< 2	< 10	22	< 10	3	14	0.88	1.75
1227033063	136	2.39	< 10	< 1	0.33	15	0.81	0.082	0.052	2.59	< 2	< 1	44	< 0.01	1	< 2	< 10	7	< 10	2	18	0.65	2.35
1227033044	205	2.35	< 10	1	0.26	24	1.31	0.185	0.054	2.01	< 2	1	60	< 0.01	3	< 2	< 10	13	< 10	3	23	0.44	1.94
1227033005	87	2.25	< 10	< 1	0.25	19	1.25	0.157	0.049	2.29	< 2	1	58	< 0.01	2	< 2	< 10	13	< 10	3	24	0.34	2.19
1227013027	164	3.25	< 10	< 1	0.31	15	1.25	0.044	0.043	2.86	< 2	< 1	25	< 0.01	3	< 2	< 10	9	< 10	2	17	0.12	2.60
1227013113	221	2.70	< 10	< 1	0.31	15	0.91	0.262	0.045	1.38	< 2	1	121	0.05	< 1	< 2	< 10	16	< 10	3	15	0.32	1.30
1227013064	116	2.87	< 10	< 1	0.28	13	1.18	0.248	0.034	1.61	< 2	1	107	< 0.01	1	< 2	< 10	12	< 10	2	18	0.10	1.51
V860608	14	3.10	< 10	< 1	0.23	10	0.56	0.251	0.058	0.06	< 2	4	40	0.45	6	3	< 10	98	< 10	17	11		
1228032034	149	2.78	< 10	< 1	0.25	13	0.80	0.081	0.037	1.85	< 2	< 1	66	< 0.01	1	< 2	< 10	9	< 10	2	13	0.19	1.74
1228032223	155	2.84	< 10	< 1	0.25	15	1.22	0.026	0.040	1.34	< 2	< 1	18	< 0.01	< 1	< 2	< 10	13	< 10	2	7	0.20	1.26
1228032144	165	2.50	< 10	< 1	0.20	13	1.54	0.101	0.041	1.87	2	< 1	65	< 0.01	1	< 2	< 10	10	< 10	2	20	0.24	1.73
1228032080	119	2.34	< 10	< 1	0.39	15	1.74	0.053	0.066	0.61	< 2	2	53	0.03	1	< 2	< 10	28	< 10	3	16	0.35	0.57
1228032138	105	2.61	< 10	< 1	0.38	12	1.44	0.047	0.039	1.19	< 2	2	49	0.07	2	< 2	< 10	30	< 10	3	19	0.23	1.11
1228032131	152	1.74	< 10	< 1	0.31	13	1.46	0.055	0.040	0.52	< 2	2	39	0.05	1	< 2	< 10	19	< 10	2	13	0.25	0.49
1229056004	258	1.94	< 10	< 1	0.17	19	1.06	0.107	0.052	0.96	< 2	2	62	< 0.01	< 1	< 2	< 10	14	< 10	2	14	0.35	0.85
1228030033	207	2.21	< 10	< 1	0.25	14	0.89	0.164	0.041	1.43	< 2	2	122	0.01	< 1	< 2	< 10	19	< 10	2	12	0.26	1.38
1229056022	134	7.23	< 10	2	0.38	< 10	1.81	0.162	0.069	6.69	3	7	100	0.09	3	< 2	< 10	113	< 10	9	12	0.54	6.83
1229056024	243	3.61	< 10	< 1	0.58	12	1.57	0.102	0.056	1.83	< 2	6	69	0.12	< 1	< 2	< 10	70	< 10	6	19	0.74	1.76
1228032016	130	2.93	< 10	< 1	0.28	14	1.66	0.097	0.047	2.03	< 2	1	65	< 0.01	< 1	< 2	< 10	15	< 10	2	20	0.26	2.00
1228032217	182	3.78	< 10	< 1	0.20	12	1.46	0.146	0.063	3.48	< 2	3	87	0.02	< 1	< 2	< 10	37	< 10	6	19	0.32	3.46
1228030109	249	2.08	< 10	< 1	0.23	23	0.95	0.124	0.050	1.34	< 2	1	66	0.04	2	2	< 10	14	< 10	2	19	0.28	1.27
1228032018	177	2.43	< 10	< 1	0.20	12	1.44	0.218	0.038	1.78	< 2	1	164	< 0.01	< 1	< 2	< 10	12	< 10	2	19	0.16	1.72
V860609	13	3.01	< 10	< 1	0.25	17	0.45	0.171	0.047	0.04	< 2	3	50	0.29	5	< 2	< 10	61	< 10	18	9		
1228035078	405	2.44	< 10	< 1	0.31	16	1.21	0.123	0.047	1.25	< 2	2	62	0.04	< 1	< 2	< 10	19	< 10	3	17	0.61	1.21
1227032098	476	2.60	< 10	< 1	0.20	14	0.82	0.111	0.040	1.68	< 2	2	72	0.03	2	< 2	< 10	18	< 10	3	17	0.44	1.60
1228035081	327	2.44	< 10	< 1	0.22	18	0.97	0.211	0.049	1.76	< 2	1	89	0.02	2	< 2	< 10	16	< 10	3	24	0.31	1.69
1228035111	209	2.75	< 10	< 1	0.41	14	1.06	0.200	0.045	1.49	< 2	2	92	0.07	< 1	< 2	< 10	24	< 10	4	18	0.22	1.41
1228035198	413	2.50	< 10	< 1	0.25	11	0.93	0.059	0.046	0.94	< 2	1	41	0.02	2	< 2	< 10	15	< 10	4	16	0.84	0.89
1233001082	297	2.72	< 10	< 1	0.26	38	1.10	0.069	0.080	0.67	< 2	3	52	0.14	2	< 2	< 10	40	15	4	18	0.30	0.64
1228035155	241	2.51	< 10	< 1	0.37	14	1.13	0.108	0.045	1.14	< 2	2	45	0.06	3	< 2	< 10	24	< 10	4	17	0.47	1.07
1228035099	209	2.57	< 10	< 1	0.28	15	1.20	0.158	0.046	1.34	< 2	1	60	0.03	1	< 2	< 10	17	< 10	4	18	0.30	1.25
1233001023	236	1.91	< 10	< 1	0.30	15	0.90	0.103	0.044	0.48	< 2	2	62	0.07	2	< 2	< 10	21	< 10	3	10	0.35	0.42
1227036008	251	4.63	< 10	< 1	0.61	83	2.83	0.094	0.227	0.29	< 2	12	168	0.19	2	< 2	< 10	110	< 10	9	5	1.02	0.28
1227036043	257	2.30	< 10	< 1	0.31	22	1.01	0.080	0.056	1.52	< 2	2	39	0.03	< 1	< 2	< 10	17	< 10	3	17	0.32	1.41
1228035069	262	2.86	< 10	< 1	0.17	14	1.28	0.078	0.043	1.51	< 2	1	38	0.01	< 1	< 2	< 10	15	< 10	3	15	0.41	1.57
1227036041	303	3.09	< 10	< 1	0.53	27	1.03	0.161	0.072	2.13	< 2	3	85	0.06	2	< 2	< 10	30	< 10	3	26	0.29	2.08
1227032003	316	2.03	< 10	< 1	0.14	15	0.68	0.092	0.038	1.03	< 2	1	41	< 0.01	2	< 2	< 10	11	< 10	3	13	0.40	1.06
1227036016	203	2.91	< 10	< 1	0.21	13	1.45	0.133	0.039	0.58	< 2	1	87	0.04	< 1	< 2	< 10	20	< 10	2	12	0.16	0.57
1233001169	260	2.60	< 10	< 1	0.14	18	0.98	0.176	0.047	2.65	2	1	90	0.04	3	< 2	< 10	14	< 10	3	20	0.34	2.57
1227036063	160	2.58	< 10	< 1	0.35	14	0.64	0.119	0.040	1.94	< 2	1	48	0.03	2	< 2	< 10	13	< 10	2	20	0.21	1.92

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
V860610	9	1.45	< 10	< 1	0.08	< 10	0.12	0.141	0.029	0.02	< 2	1	21	0.26	2	< 2	< 10	35	< 10	8	15		
1233001231	214	2.46	< 10	< 1	0.52	29	1.00	0.083	0.064	0.61	< 2	3	41	0.12	2	< 2	< 10	36	< 10	4	15	0.40	0.57
1227017023	159	2.31	< 10	< 1	0.24	13	0.82	0.132	0.036	1.77	< 2	1	73	< 0.01	1	< 2	< 10	12	< 10	2	15	0.30	1.76
1227017118	196	2.35	< 10	< 1	0.42	21	1.31	0.282	0.050	1.08	< 2	3	175	0.04	< 1	< 2	< 10	31	< 10	3	15	0.55	1.13
1226001228	135	1.84	< 10	< 1	0.19	15	0.48	0.168	0.039	0.33	< 2	1	164	0.03	3	< 2	< 10	11	< 10	2	11	0.36	0.34
1227017146	160	2.20	< 10	< 1	0.41	14	1.20	0.035	0.043	2.25	< 2	1	19	0.02	< 1	< 2	< 10	10	< 10	2	14	0.54	2.22
1227017001	81	2.00	< 10	< 1	0.43	14	1.14	0.041	0.040	2.07	< 2	< 1	23	< 0.01	2	< 2	< 10	10	< 10	2	11	0.34	2.03
1227017013	122	2.81	< 10	< 1	0.39	14	0.96	0.059	0.044	2.08	< 2	1	45	0.01	3	< 2	< 10	14	< 10	2	12	0.36	2.01
1226001262	165	2.52	< 10	< 1	0.24	19	0.96	0.121	0.049	2.65	3	< 1	83	< 0.01	3	< 2	< 10	10	< 10	3	23	0.31	2.60
1227017069	105	1.78	< 10	1	0.40	20	0.90	0.065	0.047	1.13	< 2	1	49	0.01	< 1	< 2	< 10	13	< 10	2	11	0.36	1.10
1227017159	179	1.94	< 10	< 1	0.27	20	0.66	0.113	0.045	1.28	< 2	1	59	0.01	< 1	< 2	< 10	12	< 10	2	15	0.28	1.22
1226001233	112	2.28	< 10	< 1	0.28	17	0.68	0.185	0.045	0.81	< 2	1	155	0.02	1	< 2	< 10	13	< 10	2	15	0.25	0.79
1226001301	133	2.59	< 10	< 1	0.20	25	1.13	0.158	0.052	2.77	2	1	96	< 0.01	< 1	< 2	< 10	12	< 10	3	26	0.30	2.79
1227017063	231	2.38	< 10	< 1	0.26	14	0.83	0.165	0.040	1.51	< 2	1	97	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.27	1.47
1227022069	272	3.09	< 10	< 1	0.23	15	1.06	0.107	0.039	1.21	3	1	105	< 0.01	2	< 2	< 10	14	< 10	1	10	0.26	1.19
1233001101	295	2.80	< 10	< 1	0.29	19	0.95	0.154	0.052	0.62	< 2	4	63	0.13	1	< 2	< 10	51	< 10	5	11	0.26	0.57
1227022143	108	2.05	< 10	< 1	0.22	14	1.05	0.155	0.042	0.48	< 2	1	155	< 0.01	2	< 2	< 10	16	< 10	2	11	0.19	0.47
1233001227	201	2.35	< 10	< 1	0.46	20	0.94	0.095	0.052	0.73	< 2	3	41	0.10	< 1	< 2	< 10	33	< 10	4	12	0.24	0.72
1227022205	211	3.46	< 10	< 1	0.24	13	1.16	0.123	0.035	1.26	< 2	1	83	0.02	< 1	< 2	< 10	16	< 10	2	13	0.36	1.28
1233001294	201	2.47	< 10	< 1	0.35	21	1.03	0.173	0.051	0.45	< 2	2	84	0.10	< 1	< 2	< 10	31	< 10	3	13	0.17	0.43
V860611	12	3.78	< 10	< 1	0.30	12	0.69	0.185	0.069	0.07	< 2	6	33	0.43	5	< 2	< 10	120	< 10	17	12		
1233001256	153	2.53	< 10	< 1	0.17	19	1.03	0.145	0.048	2.69	< 2	1	72	0.01	3	< 2	< 10	11	< 10	2	19	0.33	2.59
1226001279	190	2.96	< 10	< 1	0.24	15	0.79	0.100	0.044	3.05	< 2	< 1	83	< 0.01	< 1	< 2	< 10	9	< 10	2	18	0.17	2.99
1233001112	285	2.61	< 10	< 1	0.27	31	1.13	0.129	0.067	0.65	< 2	3	75	0.11	< 1	< 2	< 10	33	< 10	4	17	0.19	0.60
1227017186	178	2.32	< 10	< 1	0.38	18	0.44	0.092	0.048	2.27	< 2	1	53	0.01	< 1	< 2	< 10	10	< 10	2	14	0.17	2.19
1227036093	276	2.84	< 10	< 1	0.28	22	0.83	0.139	0.051	1.87	< 2	1	68	0.04	2	< 2	< 10	16	< 10	2	25	0.22	1.80
1233001153	352	2.66	< 10	< 1	0.54	26	1.14	0.102	0.063	0.39	< 2	3	73	0.13	2	< 2	< 10	37	< 10	3	17	0.36	0.38
1233001196	313	2.62	< 10	< 1	0.48	24	1.14	0.088	0.057	0.63	< 2	2	47	0.12	< 1	< 2	< 10	35	< 10	3	12	0.36	0.59
1227017257	362	2.61	< 10	< 1	0.27	24	1.01	0.128	0.048	1.65	< 2	1	104	0.02	4	< 2	< 10	15	< 10	2	20	0.45	1.58
1227017164	170	2.32	< 10	< 1	0.32	15	1.05	0.164	0.040	1.98	< 2	1	90	< 0.01	2	< 2	< 10	14	< 10	2	18	0.35	1.91
1227017277	150	2.12	< 10	< 1	0.45	15	1.28	0.119	0.041	1.14	< 2	2	88	0.04	2	< 2	< 10	18	< 10	3	18	0.30	1.07
1227017239	394	3.02	< 10	< 1	0.28	16	0.95	0.116	0.040	1.41	< 2	1	75	0.06	< 1	< 2	< 10	15	< 10	2	23	0.29	1.31
1227017259	395	2.44	10	< 1	0.25	23	1.04	0.220	0.050	1.29	2	1	137	< 0.01	< 1	< 2	< 10	14	< 10	2	9	0.85	1.22
1227036087	395	2.75	< 10	< 1	0.62	25	1.38	0.137	0.068	1.78	< 2	3	99	0.07	2	< 2	< 10	32	< 10	3	23	0.40	1.71
1227017295	126	2.30	< 10	< 1	0.38	18	1.00	0.144	0.045	1.05	< 2	1	78	0.03	1	< 2	< 10	14	< 10	2	20	0.28	0.98
1226001185	192	1.77	< 10	< 1	0.23	17	0.34	0.280	0.044	0.70	< 2	1	265	0.02	< 1	< 2	< 10	10	< 10	2	13	0.24	0.67
1227017158	336	2.44	< 10	< 1	0.24	24	0.98	0.254	0.052	1.23	< 2	2	116	0.02	2	< 2	< 10	17	< 10	2	11	0.68	1.11
1233001178	207	3.30	10	< 1	0.25	< 10	1.30	0.352	0.034	0.28	< 2	4	64	0.14	< 1	< 2	< 10	72	< 10	3	7	0.19	0.28
1227036003	257	2.29	< 10	< 1	0.34	13	0.91	0.213	0.037	0.91	< 2	1	111	0.06	2	< 2	< 10	17	< 10	2	17	0.20	0.81
1227017213	197	2.42	< 10	< 1	0.30	21	1.03	0.195	0.048	1.32	< 2	1	146	0.03	1	< 2	< 10	16	< 10	2	22	0.16	1.33
V860612	13	3.11	< 10	< 1	0.22	11	0.54	0.243	0.057	0.06	< 2	4	38	0.43	5	< 2	< 10	95	< 10	16	12		
1227032033	403	2.82	< 10	< 1	0.15	15	0.91	0.144	0.041	2.06	< 2	2	64	0.02	4	< 2	< 10	17	< 10	3	17	0.43	1.94
1226001249	240	2.77	< 10	< 1	0.14	21	1.28	0.112	0.054	2.53	< 2	2	61	< 0.01	4	< 2	< 10	15	< 10	3	24	0.58	2.55
1233001011	350	2.89	< 10	< 1	0.49	28	1.05	0.186	0.062	0.30	< 2	3	132	0.14	< 1	< 2	< 10	41	< 10	4	18	0.28	0.29
1228033114	224	2.51	< 10	< 1	0.23	15	1.32	0.071	0.042	1.76	< 2	< 1	30	0.02	4	< 2	< 10	12	< 10	2	16	0.25	1.67
1227013507	211	2.16	< 10	< 1	0.19	14	1.09	0.089	0.042	1.43	2	2	69	< 0.01	< 1	< 2	< 10	14	< 10	2	18	0.51	1.35
1226001198	327	3.16	< 10	< 1	0.21	23	1.05	0.127	0.052	3.33	7	1	68	< 0.01	4	< 2	< 10	11	< 10	3	24	0.46	3.23
1226001197	312	2.88	< 10	< 1	0.19	17	1.22	0.153	0.050	2.71	2	1	78	< 0.01	< 1	< 2	< 10	11	< 10	3	20	0.37	2.62
1228033122	159	5.26	< 10	2	0.28	11	1.56	0.145	0.050	2.94	< 2	4	55	0.11	2	< 2	< 10	71	< 10	6	15	0.37	2.98
1228035022	199	2.67	< 10	< 1	0.30	14	1.58	0.074	0.043	0.88	< 2	1	37	0.02	1	< 2	< 10	15	< 10	3	17	0.06	0.90
1228035150	193	2.31	< 10	< 1	0.25	14	1.15	0.089	0.045	0.96	< 2	1	33	0.04	2	< 2	< 10	17	< 10	3	15	0.42	0.92

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227032055	351	2.48	< 10	< 1	0.16	13	0.73	0.098	0.038	1.80	< 2	1	40	0.02	2	< 2	< 10	15	< 10	3	16	0.33	1.82
1228033128	171	3.08	< 10	< 1	0.33	13	1.07	0.060	0.053	1.67	< 2	4	27	0.05	1	< 2	< 10	51	< 10	5	12	0.43	1.64
1228035179	449	2.50	< 10	< 1	0.50	15	0.95	0.081	0.045	0.75	2	2	32	0.07	4	< 2	< 10	24	< 10	4	19	0.58	0.72
1228035049	228	2.86	< 10	< 1	0.43	15	1.20	0.088	0.044	1.65	< 2	2	51	0.06	< 1	< 2	< 10	19	< 10	3	17	0.17	1.60
1228033173	249	5.28	< 10	2	0.29	< 10	1.50	0.079	0.064	4.22	< 2	5	35	0.03	2	< 2	< 10	71	< 10	8	10	0.33	4.11
1233001034	276	2.24	< 10	< 1	0.40	18	1.05	0.068	0.050	0.18	< 2	2	36	0.11	1	< 2	< 10	31	< 10	3	13	0.26	0.17
1228033172	213	6.10	< 10	2	0.23	< 10	1.58	0.051	0.061	4.76	< 2	5	22	0.04	2	< 2	< 10	73	< 10	8	10	0.28	4.91
1227032051	455	2.68	< 10	< 1	0.15	14	0.77	0.067	0.038	1.87	2	1	26	0.04	< 1	< 2	< 10	18	< 10	3	17	0.32	1.78
1233001114	282	2.14	< 10	< 1	0.36	17	0.94	0.130	0.047	0.53	< 2	2	68	0.08	3	< 2	< 10	27	< 10	3	10	0.32	0.51
V860613	12	2.95	< 10	< 1	0.24	16	0.43	0.158	0.045	0.04	< 2	3	47	0.28	2	< 2	< 10	57	< 10	17	11		
1227013168	203	1.94	< 10	< 1	0.31	13	1.20	0.055	0.038	0.50	< 2	2	25	0.01	< 1	< 2	< 10	17	< 10	2	10	0.37	0.49
1227013171	254	2.08	< 10	< 1	0.22	12	1.06	0.061	0.039	0.93	< 2	1	29	0.02	3	< 2	< 10	16	< 10	2	12	0.34	0.91
1227013224	176	2.13	< 10	< 1	0.26	15	0.76	0.106	0.043	1.27	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13	0.46	1.22
1227013116	340	2.44	< 10	< 1	0.28	15	0.82	0.237	0.043	0.93	< 2	1	126	0.06	2	< 2	< 10	18	< 10	2	15	0.38	0.90
1227013009	155	2.48	< 10	< 1	0.27	14	1.13	0.116	0.043	2.07	< 2	1	115	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.29	2.09
1227013079	219	2.05	< 10	< 1	0.33	14	0.87	0.048	0.042	0.93	< 2	1	23	0.01	< 1	< 2	< 10	14	< 10	2	11	0.28	0.86
1227013282	239	2.80	< 10	< 1	0.28	14	0.84	0.123	0.039	1.97	< 2	< 1	114	0.01	< 1	< 2	< 10	10	< 10	2	15	0.40	1.82
1227013214	231	2.40	< 10	< 1	0.29	13	0.82	0.077	0.041	1.65	< 2	2	41	0.02	< 1	< 2	< 10	17	< 10	2	13	0.30	1.51
1227013262	222	2.21	< 10	< 1	0.22	11	0.75	0.062	0.039	1.45	< 2	1	29	0.02	2	< 2	< 10	14	< 10	3	13	0.41	1.37
1227032022	140	2.94	< 10	< 1	0.18	25	1.65	0.172	0.068	2.76	< 2	3	66	< 0.01	3	< 2	< 10	23	< 10	4	25	0.51	2.63
1227013285	159	2.61	< 10	< 1	0.30	13	1.04	0.087	0.037	2.13	< 2	1	77	0.01	1	< 2	< 10	9	< 10	2	21	0.33	2.03
1227013302	128	2.39	< 10	< 1	0.28	14	0.73	0.171	0.040	1.24	< 2	1	118	0.05	2	< 2	< 10	11	< 10	2	17	0.20	1.18
1227013187	175	3.78	< 10	< 1	0.28	14	0.84	0.038	0.040	3.77	< 2	< 1	30	< 0.01	5	< 2	< 10	7	< 10	2	21	0.29	3.46
1227013018	132	2.80	< 10	< 1	0.21	17	0.95	0.107	0.050	1.40	< 2	1	175	< 0.01	2	< 2	< 10	13	< 10	2	17	0.11	1.35
1227013380	167	2.36	< 10	< 1	0.32	16	0.70	0.166	0.042	1.00	< 2	1	117	0.07	< 1	< 2	< 10	15	< 10	2	19	0.20	0.93
1227013055	101	2.85	< 10	< 1	0.16	13	0.93	0.086	0.042	1.30	< 2	1	155	< 0.01	2	< 2	< 10	12	< 10	2	18	0.13	1.22
1227013310	276	2.66	< 10	< 1	0.25	14	0.88	0.124	0.042	1.60	< 2	1	92	0.02	< 1	< 2	< 10	15	< 10	2	14	0.53	1.50
1227013188	199	3.55	< 10	< 1	0.28	18	1.13	0.047	0.041	3.22	< 2	< 1	42	< 0.01	2	< 2	< 10	8	< 10	2	16	0.28	3.10
1227032026	194	2.57	< 10	< 1	0.15	26	1.12	0.098	0.059	2.73	< 2	2	41	< 0.01	2	< 2	< 10	13	< 10	3	29	0.08	2.64
V860614	9	1.49	< 10	< 1	0.07	< 10	0.12	0.140	0.029	0.02	< 2	1	21	0.27	3	< 2	< 10	35	< 10	8	14		
1228033044	175	2.66	< 10	< 1	0.26	12	1.29	0.052	0.038	1.72	< 2	< 1	35	< 0.01	5	< 2	< 10	9	< 10	1	11	0.14	1.65
1228033062	95	2.36	< 10	< 1	0.38	11	1.23	0.046	0.039	1.60	< 2	< 1	22	< 0.01	2	< 2	< 10	11	< 10	2	13	0.24	1.52
1227013266	404	1.97	< 10	< 1	0.20	12	1.06	0.060	0.040	0.45	< 2	2	19	0.02	3	< 2	< 10	19	< 10	2	12	0.38	0.43
1220713362	441	2.42	< 10	< 1	0.21	14	0.76	0.130	0.041	1.70	< 2	1	87	0.01	< 1	< 2	< 10	14	< 10	3	15	0.47	1.56
1228033001	249	3.37	< 10	< 1	0.29	19	1.51	0.045	0.078	2.10	< 2	2	34	0.02	2	< 2	< 10	21	< 10	3	18	0.38	2.15
1227013059	83	2.58	< 10	< 1	0.17	11	1.02	0.084	0.035	1.04	< 2	1	135	< 0.01	< 1	< 2	< 10	12	< 10	1	17	0.05	0.99
1227013418	188	2.30	< 10	< 1	0.34	16	0.74	0.080	0.041	1.28	< 2	1	59	0.06	2	< 2	< 10	13	< 10	2	21	0.34	1.23
1228033070	130	4.84	< 10	< 1	0.25	11	1.37	0.050	0.056	2.76	< 2	5	23	0.08	3	< 2	< 10	65	< 10	7	14	0.29	2.04
1227032060	236	3.73	< 10	< 1	0.18	26	0.87	0.076	0.060	4.08	3	1	37	< 0.01	3	< 2	< 10	11	< 10	3	36	0.10	3.89

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	68	972	1	22	85	120	6.05	241	< 10	701	0.9	3	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1000	1	23	89	123	6.30	224	< 10	781	0.9	3	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	75	1010	2	22	88	122	6.62	242	< 10	775	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
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GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		42.9				8.33																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.4				7.59																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2250	747	< 1	33	55	252	2.59	4		79	0.8	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	748	< 1	34	55	259	2.59	3		79	0.8	8	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2320	745	< 1	33	54	259	2.72	6		84	0.8	8	0.44	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.2	< 0.5	4530	832	< 1	32	71	331	2.62	5		67	0.7	22	0.43	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				82	412						51		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.2		> 10000				83	412						72		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							536																
OREAS 218 Cert							531																
OREAS 218 Meas							532																
OREAS 218 Cert							531																
OREAS 218 Meas							539																
OREAS 218 Cert							531																
OREAS 218 Meas							536																
OREAS 218 Cert							531																
OREAS 218 Meas							543																
OREAS 218 Cert							531																
Oreas 621 (Aqua Regia) Meas								69.3	272	3690	511	13	22	> 5000	> 10000	1.60	79			0.6	6	1.37	30

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.1	270	3590	508	14	22	> 5000	> 10000	1.59	76			0.6	4	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								71.8	271	3730	515	14	24	> 5000	> 10000	1.65	81			0.6	6	1.50	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										356	168	1	222	8	27	6.64			133	1.0	< 2	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	164	1	224	11	27	6.62			137	1.0	4	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										373	172	1	225	10	27	7.04			136	1.1	7	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1229056007 Orig								2.7	1.4	175	623	1	53	5	206	1.41	7	< 10	52	< 0.5	5	2.48	13
1229056007 Dup								2.3	1.0	178	638	1	54	4	214	1.45	9	< 10	52	< 0.5	5	2.51	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229056011 Orig							151																
1229056011 Dup							140																
1228032034 Orig							257																
1228032034 Dup							228																
1228032223 Orig								1.2	0.6	167	312	3	12	5	195	1.45	20	< 10	44	< 0.5	< 2	0.78	13
1228032223 Dup								1.0	0.6	167	316	3	13	4	203	1.45	22	< 10	45	< 0.5	2	0.78	12
1228030109 Orig																							
1228030109 Dup																							
1228035078 Orig								0.4	< 0.5	46	584	2	18	3	169	1.81	10	< 10	60	< 0.5	< 2	1.15	12
1228035078 Dup								0.4	< 0.5	44	570	2	18	2	164	1.78	11	< 10	61	< 0.5	3	1.12	11
1233001023 Orig																							
1233001023 Dup																							
1227036043 Orig							177																
1227036043 Dup							171																
1227032003 Orig	29.1	19.8	-9.21	32.5	0.611																		
1227032003 Dup	29.1	19.8	-9.22	32.5	0.611																		
1227017118 Orig							102																
1227017118 Dup							104																
1227017001 Orig								1.4	0.8	17	579	< 1	10	60	167	1.61	19	13	53	< 0.5	4	1.37	9
1227017001 Dup								1.6	< 0.5	18	567	< 1	10	57	163	1.58	19	13	48	< 0.5	3	1.34	7
1227017063 Orig							243																
1227017063 Dup							227																
V860611 Orig								2.5	< 0.5	61	386	11	16	7	56	1.47	< 2	< 10	80	< 0.5	< 2	1.35	17
V860611 Dup								2.4	< 0.5	60	382	11	15	7	56	1.46	< 2	< 10	79	< 0.5	< 2	1.34	16
1226001279 Orig						8.73																	
1226001279 Dup						8.72																	
1227036093 Orig																							
1227036093 Dup																							
1227017257 Orig							135																
1227017257 Dup							140																
1227036087 Orig								1.1	1.1	105	564	6	42	16	308	1.83	17	< 10	32	< 0.5	3	1.71	12
1227036087 Dup								1.0	0.9	101	549	5	34	10	304	1.77	18	< 10	35	< 0.5	2	1.67	13
1226001185 Orig																							
1226001185 Dup																							
1227013507 Orig	37.0	34.7	-2.23	41.3	0.840																		
1227013507 Dup	37.0	34.8	-2.20	41.3	0.841																		
1226001197 Orig								1.1	3.4	66	647	1	22	20	817	2.20	16	< 10	34	< 0.5	4	1.65	12
1226001197 Dup								1.1	3.5	65	642	1	22	20	802	2.28	18	< 10	37	< 0.5	5	1.66	12
1228033122 Orig							108																
1228033122 Dup							111																
1228033172 Orig																							
1228033172 Dup																							
1227013224 Orig							64	0.5	< 0.5	59	521	2	12	13	128	1.47	10	< 10	57	< 0.5	5	1.69	11
1227013224 Dup							51	0.5	< 0.5	58	509	3	11	12	126	1.46	9	< 10	57	< 0.5	3	1.67	10
1227013262 Orig																							
1227013262 Dup																							
1227013310 Orig								0.5	1.3	77	580	3	16	6	386	1.69	12	< 10	45	< 0.5	5	1.66	11
1227013310 Dup								0.5	1.2	77	572	3	17	6	383	1.68	10	< 10	45	< 0.5	5	1.63	11
1227032026 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227032026 Dup																							
1227013266 Orig							46																
1227013266 Dup							49																
1228033001 Orig							174																
1228033001 Dup							240																
1228033070 Orig						8.96																	
1228033070 Dup						8.94																	
1227032060 Orig	114	6.63	-107	119	0.0557																		
1227032060 Dup	114	6.66	-107	119	0.0559																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	80	5.42	20	2	1.11	< 10	0.38	0.112	0.033	0.01	4	19	28		< 1	< 2	< 10	168	< 10	5	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	83	5.57	20	1	1.13	< 10	0.40	0.133	0.034	0.01	4	20	33		< 1	< 2	< 10	169	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	86	5.53	20	2	1.21	10	0.42	0.140	0.035	0.01	4	21	34		< 1	< 2	< 10	177	< 10	5	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
SGR-1b Meas																						27.8	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.55
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	49	5.04	< 10		0.50	39	1.34	0.032	0.062	0.37	2	4	16			< 2	< 10	37	< 10	22	22		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.06	< 10		0.49	39	1.35	0.033	0.061	0.37	3	4	17			< 2	< 10	36	< 10	21	11		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	50	5.19	< 10		0.54	41	1.40	0.035	0.064	0.38	2	4	17			< 2	< 10	38	< 10	23	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.85	< 10		0.44	37	1.44		0.060	0.68	3	4	15			< 2	< 10	36	< 10	20	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.88	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.74	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	30	3.25	10	4	0.39	19	0.44	0.154	0.034	4.25	106	2	17			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.24	10	4	0.39	20	0.44	0.158	0.033	4.64	112	2	18			< 2	< 10	13	< 10	8	66		
Oreas 621 (Aqua	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	38	3.30	10	4	0.41	20	0.45	0.164	0.034	4.56	115	3	18			< 2	< 10	14	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	365	14.2	20	< 1	0.11	11	0.18	0.046	0.021	0.02		27	14	0.13		< 2	< 10	204		5	19		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	364	14.4	20	< 1	0.11	11	0.18	0.049	0.021	0.02		27	15	0.10		< 2	< 10	205		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	376	14.5	20	< 1	0.12	11	0.19	0.051	0.022	0.02		28	15	0.14		< 2	< 10	213		5	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
1229056007 Orig	226	2.94	< 10	< 1	0.23	16	1.32	0.062	0.058	2.22	< 2	2	47	< 0.01	2	< 2	< 10	16	< 10	3	19		
1229056007 Dup	229	3.04	< 10	< 1	0.24	16	1.34	0.063	0.059	2.25	< 2	2	47	< 0.01	3	< 2	< 10	16	< 10	3	19		
1229056011 Orig																						1.36	0.67
1229056011 Dup																						1.36	0.64
1228032034 Orig																							
1228032034 Dup																							
1228032223 Orig	157	2.81	< 10	< 1	0.25	14	1.22	0.027	0.040	1.35	< 2	< 1	17	< 0.01	< 1	< 2	< 10	13	< 10	2	7	0.21	1.25
1228032223 Dup	153	2.86	< 10	< 1	0.26	15	1.22	0.025	0.040	1.34	2	< 1	18	< 0.01	2	< 2	< 10	13	< 10	2	7	0.20	1.27

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228030109 Orig																						0.28	1.27
1228030109 Dup																						0.28	1.28
1228035078 Orig	408	2.48	< 10	< 1	0.32	16	1.23	0.123	0.048	1.27	2	2	63	0.04	< 1	< 2	< 10	19	< 10	3	18		
1228035078 Dup	402	2.41	< 10	< 1	0.31	16	1.20	0.122	0.046	1.23	< 2	2	62	0.04	1	< 2	< 10	19	< 10	3	17		
1233001023 Orig																						0.35	0.43
1233001023 Dup																						0.34	0.41
1227036043 Orig																							
1227036043 Dup																							
1227032003 Orig																							
1227032003 Dup																							
1227017118 Orig																						0.55	1.13
1227017118 Dup																						0.55	1.14
1227017001 Orig	80	2.02	< 10	< 1	0.44	14	1.16	0.042	0.040	2.08	< 2	< 1	23	< 0.01	2	< 2	< 10	10	< 10	2	11		
1227017001 Dup	81	1.98	< 10	< 1	0.43	14	1.12	0.040	0.039	2.05	< 2	< 1	23	< 0.01	2	< 2	< 10	10	< 10	2	11		
1227017063 Orig																						0.27	1.48
1227017063 Dup																						0.27	1.45
V860611 Orig	12	3.80	< 10	< 1	0.31	12	0.69	0.185	0.069	0.07	< 2	6	34	0.43	5	< 2	< 10	120	< 10	17	12		
V860611 Dup	12	3.75	< 10	< 1	0.30	12	0.68	0.184	0.069	0.07	< 2	6	33	0.43	5	< 2	< 10	119	< 10	16	12		
1226001279 Orig																							
1226001279 Dup																							
1227036093 Orig																						0.23	1.80
1227036093 Dup																						0.22	1.79
1227017257 Orig																							
1227017257 Dup																							
1227036087 Orig	401	2.80	< 10	< 1	0.63	25	1.40	0.140	0.069	1.81	< 2	3	100	0.07	2	< 2	< 10	33	< 10	4	23		
1227036087 Dup	388	2.69	< 10	< 1	0.61	25	1.37	0.135	0.067	1.75	< 2	3	99	0.07	2	< 2	< 10	32	< 10	3	23		
1226001185 Orig																						0.24	0.67
1226001185 Dup																						0.24	0.67
1227013507 Orig																							
1227013507 Dup																							
1226001197 Orig	316	2.91	< 10	< 1	0.19	17	1.21	0.152	0.050	2.68	2	1	76	< 0.01	< 1	< 2	< 10	11	< 10	3	20	0.37	2.62
1226001197 Dup	309	2.86	< 10	< 1	0.20	17	1.23	0.155	0.050	2.75	3	1	80	< 0.01	2	< 2	< 10	11	< 10	3	20	0.38	2.63
1228033122 Orig																							
1228033122 Dup																							
1228033172 Orig																						0.28	4.81
1228033172 Dup																						0.28	5.01
1227013224 Orig	178	2.14	< 10	< 1	0.26	15	0.77	0.107	0.043	1.27	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13		
1227013224 Dup	174	2.11	< 10	< 1	0.26	15	0.75	0.105	0.043	1.28	< 2	1	71	0.01	1	< 2	< 10	14	< 10	2	13		
1227013262 Orig																						0.41	1.39
1227013262 Dup																						0.41	1.36
1227013310 Orig	271	2.68	< 10	< 1	0.25	14	0.88	0.125	0.042	1.61	< 2	1	92	0.02	< 1	< 2	< 10	15	12	2	15		
1227013310 Dup	282	2.63	< 10	< 1	0.24	14	0.87	0.124	0.042	1.59	< 2	1	91	0.02	< 1	< 2	< 10	15	< 10	2	14		
1227032026 Orig																						0.07	2.65
1227032026 Dup																						0.08	2.63
1227013266 Orig																							
1227013266 Dup																							
1228033001 Orig																							
1228033001 Dup																							
1228033070 Orig																							
1228033070 Dup																							
1227032060 Orig																						0.10	3.89

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227032060 Dup																						0.10	3.88
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-01691**
Report Date:	**10-Mar-20**
Date Submitted:	**11-Feb-20**
Your Reference:	**2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

85 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-02-19 08:52:59
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-02-24 14:38:04

REPORT **A20-01691**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample V860615, V860618, V860619 are insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-01691**
Report Date: **10-Mar-20**
Date Submitted: **11-Feb-20**
Your Reference: **2020 January Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

85 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-02-25 21:45:10
4F-C, S	Infrared	2020-02-25 21:47:26

REPORT **A20-01691**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample V860615, V860618, V860619 are insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227013424	39.4	11.8	-27.5	43.8	0.270	9.06	270	0.6	2.2	99	604	< 1	14	8	571	2.93	13	< 10	45	< 0.5	3	1.81	7
1227032032	60.3	16.0	-44.3	66.5	0.241	9.21	241	0.7	< 0.5	191	440	4	16	< 2	65	1.56	8	< 10	34	< 0.5	< 2	0.90	10
1228033074	152	62.6	-89.8	178	0.352	8.63	221	2.7	5.0	191	1200	2	51	5	858	4.01	41	< 10	16	< 0.5	5	2.79	31
1227013468	49.8	17.0	-32.8	54.5	0.311	9.02	113	0.8	1.2	48	548	< 1	19	20	381	2.00	28	< 10	31	< 0.5	3	1.36	9
1228033014	130	83.0	-47.4	157	0.528	8.62	264	18.0	20.2	292	1520	< 1	52	7	4010	3.77	45	< 10	17	< 0.5	3	3.07	36
1228033091	139	56.5	-82.4	155	0.365	8.65	208	2.7	3.2	172	1060	< 1	57	6	595	3.35	40	< 10	17	< 0.5	5	2.21	37
1227013427	58.9	13.5	-45.4	63.7	0.212	8.91	764	1.4	< 0.5	278	629	1	13	12	172	2.14	20	< 10	31	< 0.5	9	1.02	8
1227013479	47.9	20.2	-27.7	55.7	0.363	8.95	379	1.0	12.4	128	688	2	12	52	3120	3.47	19	16	39	< 0.5	2	1.95	7
1228033093	112	49.8	-62.5	129	0.385	8.79	322	2.6	4.3	157	1190	< 1	45	7	1090	3.20	66	< 10	23	< 0.5	4	1.93	31
1227013489	33.0	16.2	-16.8	35.8	0.453	8.99	81	1.0	0.9	31	559	< 1	16	20	261	2.70	19	12	33	< 0.5	4	1.30	8
V860615							120																
1227022216	27.6	9.22	-18.4	30.3	0.304	9.01	115	0.3	< 0.5	99	285	2	11	11	39	3.12	9	11	43	< 0.5	2	1.16	6
1226001083	66.7	28.8	-37.9	72.3	0.399	9.07	113	1.1	1.0	33	590	3	11	15	221	1.73	19	< 10	26	< 0.5	3	1.53	10
1227023642	55.2	9.96	-45.2	59.1	0.169	8.85	400	0.3	< 0.5	85	155	2	8	< 2	18	2.74	7	< 10	35	< 0.5	5	1.16	8
1233001256	12.5	20.7	8.16	12.3	1.69	8.38	6	< 0.2	< 0.5	34	539	< 1	19	13	62	1.74	5	< 10	69	< 0.5	< 2	1.40	10
1227023550	52.1	5.88	-46.2	56.3	0.104	8.70	612	0.5	< 0.5	260	269	1	13	< 2	31	3.23	4	< 10	38	< 0.5	8	1.29	7
1227023589	74.2	7.49	-66.7	80.2	0.0934	8.43	1020	0.8	< 0.5	308	218	2	12	< 2	22	2.94	7	< 10	31	< 0.5	7	1.41	6
1226001075	67.7	50.3	-17.4	75.9	0.662	9.15	39	1.0	0.9	29	594	< 1	17	40	232	1.30	23	< 10	27	< 0.5	3	2.38	11
1227023477	70.8	9.33	-61.5	76.3	0.122	8.82	635	0.7	< 0.5	350	228	< 1	9	35	44	2.30	7	< 10	23	< 0.5	9	0.90	9
1226001037	67.5	37.7	-29.8	75.9	0.496	9.29	141	1.4	< 0.5	24	631	< 1	12	20	97	1.29	26	< 10	27	< 0.5	2	2.20	10
1228037057	38.5	12.4	-26.2	43.2	0.286	9.15	127	1.3	< 0.5	145	403	< 1	9	< 2	112	2.26	5	< 10	46	< 0.5	8	0.81	6
1226001023	45.5	44.3	-1.26	51.5	0.860	9.45	347	5.2	0.6	22	982	1	12	33	157	1.99	25	< 10	35	< 0.5	< 2	2.02	8
1227023476	48.1	18.0	-30.1	53.3	0.337	9.00	625	0.7	< 0.5	354	292	< 1	6	10	53	1.98	4	< 10	42	< 0.5	9	0.92	6
1226001070	51.7	68.6	17.0	59.7	1.15	9.04	172	1.3	< 0.5	32	1110	< 1	12	34	146	1.26	43	< 10	33	< 0.5	< 2	2.49	10
1227023621	44.9	7.59	-37.3	49.0	0.155	8.86	79	0.3	< 0.5	95	300	6	17	< 2	36	2.84	7	< 10	41	< 0.5	2	1.28	7
1227023484	52.8	6.75	-46.1	58.5	0.115	8.86	951	1.8	< 0.5	790	289	3	10	25	61	2.42	6	< 10	34	< 0.5	17	0.80	56
1227023521	46.6	7.87	-38.7	51.5	0.153	8.76	1010	0.8	< 0.5	576	300	1	14	< 2	31	2.96	4	< 10	39	< 0.5	17	1.15	5
1227023433	18.2	13.2	-5.01	21.7	0.608	9.32	88	0.4	< 0.5	103	304	2	11	< 2	113	4.07	4	< 10	67	< 0.5	< 2	1.97	7
V860616							1570	10.3	< 0.5	55	359	20	13	7	55	1.63	< 2	< 10	81	< 0.5	< 2	1.22	14
1227022228	30.0	10.7	-19.3	34.6	0.310	8.90	1390	0.7	< 0.5	275	353	1	13	2	43	3.27	11	13	35	< 0.5	4	1.07	11
1227022136	57.9	13.6	-44.3	64.3	0.211	8.99	2610	0.8	< 0.5	384	257	< 1	7	16	39	2.24	10	< 10	34	< 0.5	10	0.85	5
1227017057	25.7	23.8	-1.91	30.0	0.794	9.36	115	0.7	3.0	63	684	2	21	9	775	2.12	12	< 10	57	< 0.5	5	1.53	10
1227022036	31.7	12.6	-19.0	35.8	0.352	8.93	658	0.4	< 0.5	244	278	1	15	< 2	32	2.71	6	< 10	48	< 0.5	6	1.13	8
1233001144	2.50	10.3	7.84	2.45	4.22	9.59	8	< 0.2	< 0.5	121	479	< 1	47	15	56	5.42	< 2	< 10	22	< 0.5	< 2	3.87	23
1227022239	20.4	14.3	-6.09	23.9	0.600	9.02	372	0.6	< 0.5	92	414	1	16	5	70	2.88	9	12	46	< 0.5	< 2	1.27	7
1233001134	2.19	12.6	10.4	2.14	5.87	9.53	8	< 0.2	< 0.5	117	491	< 1	46	4	48	5.39	< 2	< 10	23	< 0.5	< 2	4.04	22
1227017038	36.4	36.1	-0.323	42.3	0.855	9.48	95	0.5	1.3	77	664	< 1	32	4	406	2.16	9	< 10	22	< 0.5	< 2	1.95	13
1227022129	68.3	11.1	-57.2	74.4	0.150	8.94	1070	0.6	< 0.5	327	253	< 1	10	12	38	1.72	10	< 10	16	< 0.5	16	0.63	7
1226001103	27.8	5.87	-21.9	27.3	0.215	9.07	24	0.4	< 0.5	25	163	1	17	8	90	1.92	11	< 10	57	< 0.5	3	0.74	9
1227022155	37.1	8.60	-28.5	41.0	0.210	8.95	176	0.5	< 0.5	189	283	2	11	5	38	3.05	6	13	48	< 0.5	3	1.09	8
1227022044	30.2	14.8	-15.5	34.0	0.434	9.01	107	0.3	< 0.5	57	355	2	13	< 2	39	3.45	5	14	57	< 0.5	4	1.37	11
1227017039	8.12	45.2	37.1	12.3	3.69	9060	38	< 0.2	< 0.5	30	759	< 1	77	2	137	2.53	4	< 10	69	< 0.5	< 2	3.00	21
1227017048	18.4	11.7	-6.70	18.1	0.650	9.24	37	< 0.2	< 0.5	21	692	< 1	13	5	246	3.21	5	16	70	< 0.5	< 2	1.15	8
1227022109	39.2	13.5	-25.7	43.5	0.310	8.94	98	0.4	< 0.5	71	314	2	10	9	80	2.70	7	14	42	< 0.5	4	1.04	8
1227023648	23.4	6.75	-16.7	23.0	0.294	9.30	93	< 0.2	< 0.5	61	173	< 1	14	< 2	21	2.53	3	< 10	44	< 0.5	3	0.95	2
1227022033	25.3	9.47	-15.8	29.4	0.322	8.92	973	0.7	< 0.5	188	306	< 1	7	< 2	31	3.11	3	< 10	54	< 0.5	6	1.22	4
1227022030	45.2	9.37	-35.8	50.8	0.184	8.64	763	0.6	< 0.5	311	266	1	17	< 2	29	2.47	4	< 10	38	< 0.5	8	0.96	6
V860617							717	3.1	< 0.5	35	273	14	11	16	44	1.27	< 2	< 10	64	< 0.5	< 2	2.05	10
1227022302	29.4	14.7	-14.6	34.0	0.434	8.89	156	< 0.2	< 0.5	19	343	2	16	< 2	82	1.94	12	11	51	< 0.5	3	0.87	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227023532	27.3	6.23	-21.1	30.9	0.201	9.02	347	1.1	< 0.5	281	395	5	17	29	64	2.83	7	< 10	46	< 0.5	5	0.89	4
1228034092	86.2	13.8	-72.5	94.6	0.145	8.76	159	3.5	2.3	268	489	2	21	6	568	1.78	31	< 10	17	< 0.5	11	0.84	17
1228037163	35.7	29.5	-6.24	39.8	0.741	8.88	539	1.2	< 0.5	201	574	< 1	12	3	112	2.45	16	< 10	55	< 0.5	< 2	1.15	8
1228036064	50.3	26.1	-24.2	56.3	0.463	9.27	82	1.5	< 0.5	88	596	3	17	6	102	2.13	15	< 10	37	< 0.5	6	1.39	10
1228034071	81.1	10.2	-70.9	86.7	0.118	8.77	92	1.1	0.7	25	327	< 1	9	7	169	1.42	9	< 10	< 10	< 0.5	3	0.57	8
1228034108	34.5	18.7	-15.8	38.3	0.488	9.16	117	0.8	< 0.5	45	683	< 1	22	12	144	2.48	21	14	62	< 0.5	< 2	1.44	11
1228034060	61.4	11.5	-50.0	66.8	0.172	8.83	57	0.7	1.6	23	508	< 1	19	4	403	1.89	20	< 10	31	< 0.5	4	0.95	9
1227023576	45.8	10.5	-35.4	50.2	0.208	9.00	189	1.3	< 0.5	379	446	7	13	3	95	2.96	5	< 10	47	< 0.5	6	0.89	8
1227034011	27.4	25.1	-2.25	30.0	0.838	9.34	83	0.3	< 0.5	55	308	2	11	4	90	2.69	9	< 10	50	< 0.5	3	1.70	8
1227023494	40.6	16.5	-24.1	44.7	0.370	9.15	83	0.3	< 0.5	40	316	1	14	7	104	3.32	9	< 10	48	< 0.5	2	1.38	11
1228034063	70.2	7.84	-62.4	76.9	0.102	8.98	67	1.1	1.6	66	423	< 1	20	5	426	1.53	33	< 10	26	< 0.5	4	1.04	10
1227034020	40.2	7.37	-32.8	44.4	0.166	9.26	97	0.4	< 0.5	51	390	< 1	14	< 2	158	2.96	18	< 10	43	< 0.5	< 2	0.97	9
1228034001	52.9	17.6	-35.3	57.6	0.306	9.01	64	1.1	0.5	53	604	1	19	34	143	1.81	13	< 10	38	< 0.5	4	1.01	10
1228036106	24.2	60.4	36.2	29.7	2.03	9.08	147	0.8	1.3	79	780	< 1	89	< 2	344	2.49	12	< 10	67	< 0.5	< 2	2.46	16
1434001020	10.7	73.4	62.7	16.5	4.44	8.72	32	0.3	< 0.5	28	1060	< 1	46	< 2	149	2.79	9	< 10	56	< 0.5	4	2.99	21
1227034012	22.0	22.3	0.367	24.8	0.901	9.41	73	0.2	< 0.5	33	272	2	9	< 2	73	2.99	7	< 10	57	< 0.5	3	1.80	7
1228036075	117	76.8	-40.2	133	0.576	8.76	289	3.2	2.0	149	993	< 1	126	6	481	2.80	35	< 10	19	< 0.5	7	2.93	34
V860618							113																
1228037125	29.1	20.6	-8.43	33.1	0.624	9.35	98	0.7	3.1	50	714	< 1	11	9	857	2.97	9	< 10	60	< 0.5	5	1.65	8
1228037220	43.0	12.9	-30.1	47.2	0.273	9.12	53	0.5	0.8	62	603	3	12	6	117	2.35	8	< 10	37	< 0.5	5	1.28	9
1228037010	55.2	19.7	-35.5	61.3	0.321	9.21	97	0.5	< 0.5	63	274	< 1	12	5	96	2.14	13	< 10	28	< 0.5	2	1.12	9
1227022292	25.2	14.1	-11.1	29.4	0.480	8.99	200	0.4	< 0.5	78	295	1	16	3	57	2.36	7	13	60	< 0.5	4	1.28	7
1228037107	36.6	18.6	-18.0	40.4	0.459	9.30	62	0.6	0.8	41	462	< 1	9	< 2	198	2.96	13	< 10	50	< 0.5	3	1.06	7
1228037100	45.4	12.1	-33.3	51.1	0.236	9.25	49	0.9	< 0.5	141	375	2	9	< 2	102	2.94	14	< 10	36	< 0.5	3	1.42	8
1228037041	23.8	83.0	59.1	29.4	2.82	9.48	33	< 0.2	< 0.5	49	541	< 1	107	5	83	2.46	8	< 10	76	0.6	< 2	3.29	16
1228037169	51.7	10.8	-40.8	57.3	0.189	8.75	409	1.4	0.6	244	505	1	13	4	121	2.38	22	< 10	26	< 0.5	< 2	1.15	9
1227017404	12.5	18.1	5.59	16.2	1.11	9.28	23	< 0.2	0.9	17	743	< 1	14	17	306	3.15	6	< 10	97	< 0.5	< 2	1.82	10
1227022271	27.5	19.4	-8.13	31.5	0.614	8.99	420	0.6	< 0.5	113	261	2	16	4	82	1.72	8	11	43	< 0.5	< 2	1.37	9
1228037130	41.0	8.63	-32.4	45.0	0.192	9.09	115	1.1	1.3	41	548	< 1	12	2	318	3.45	11	< 10	42	< 0.5	5	1.67	8
1228037021	55.6	14.1	-41.5	60.6	0.233	9.18	74	0.6	< 0.5	37	247	< 1	9	2	83	1.76	12	< 10	22	< 0.5	4	0.68	8
1228034088	82.0	14.0	-68.0	89.7	0.156	8.71	535	2.4	0.7	49	444	1	25	6	180	1.57	26	< 10	13	< 0.5	6	0.87	18
1227017418	39.0	23.6	-15.3	43.2	0.547	9.24	64	0.5	< 0.5	22	733	1	14	22	151	3.11	19	< 10	45	< 0.5	< 2	2.40	10
1227017435	48.7	28.8	-20.0	54.2	0.530	9.23	87	1.7	< 0.5	29	733	1	17	15	89	3.63	24	< 10	36	0.6	< 2	2.79	11
1228034013	73.4	22.0	-51.4	80.2	0.274	9.02	113	1.3	0.7	87	551	3	24	12	152	1.65	18	< 10	20	< 0.5	4	1.07	12
1228034020	79.1	9.25	-69.8	83.9	0.110	8.72	330	1.1	0.6	46	289	2	20	7	133	1.15	10	< 10	11	< 0.5	3	0.56	10
V860619							905																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227013424	282	2.57	< 10	< 1	0.20	16	0.99	0.152	0.041	1.42	< 2	< 1	145	0.03	< 1	< 2	< 10	11	< 10	2	10	0.33	1.43
1227032032	258	2.83	< 10	< 1	0.12	13	0.83	0.102	0.040	2.15	< 2	2	51	0.01	1	< 2	< 10	15	< 10	3	17	0.21	2.17
1228033074	203	10.6	10	1	0.52	< 10	1.91	0.186	0.070	5.54	4	15	70	0.20	3	< 2	< 10	238	< 10	11	6	0.77	5.81
1227013468	340	2.28	< 10	< 1	0.25	15	0.95	0.099	0.040	1.79	< 2	< 1	63	0.02	3	< 2	< 10	9	< 10	2	9	0.31	1.78
1228033014	152	9.50	10	2	0.46	< 10	2.18	0.187	0.069	4.81	4	17	71	0.19	9	< 2	< 10	240	< 10	11	7	1.00	5.13
1228033091	148	10.2	10	1	0.42	< 10	1.96	0.081	0.071	4.89	3	16	36	0.17	1	< 2	< 10	231	< 10	14	6	0.65	5.06
1227013427	211	3.11	< 10	< 1	0.28	14	1.11	0.054	0.040	2.07	< 2	< 1	46	0.02	< 1	< 2	< 10	10	< 10	2	14	0.35	2.08
1227013479	209	2.58	< 10	1	0.29	12	1.28	0.108	0.037	1.76	< 2	1	84	< 0.01	< 1	< 2	< 10	15	< 10	2	12	0.34	1.82
1228033093	126	8.45	10	< 1	0.27	< 10	1.90	0.085	0.059	4.20	3	9	40	0.13	2	< 2	< 10	138	< 10	11	11	0.60	4.22
1227013489	306	2.21	< 10	< 1	0.18	12	1.09	0.071	0.033	1.19	< 2	< 1	60	< 0.01	2	< 2	< 10	10	< 10	1	5	0.25	1.17
V860615																							
1227022216	119	2.45	< 10	< 1	0.29	10	1.00	0.102	0.038	1.04	< 2	1	100	0.01	< 1	< 2	< 10	15	< 10	2	14	0.12	0.99
1226001083	85	2.38	< 10	< 1	0.39	21	0.75	0.124	0.054	2.44	< 2	< 1	57	< 0.01	2	< 2	< 10	9	< 10	3	13	0.38	2.36
1227023642	141	2.82	< 10	< 1	0.32	11	0.73	0.155	0.037	1.99	2	< 1	100	< 0.01	1	< 2	< 10	8	< 10	2	16	0.22	1.93
1233001256	204	2.41	< 10	< 1	0.27	21	1.11	0.093	0.052	0.42	< 2	3	46	0.11	3	< 2	< 10	32	< 10	4	8	0.24	0.40
1227023550	300	3.35	< 10	< 1	0.28	11	0.64	0.230	0.034	1.88	< 2	< 1	149	0.03	< 1	< 2	< 10	9	< 10	2	17	0.23	1.84
1227023589	302	3.72	< 10	< 1	0.28	11	0.70	0.226	0.034	2.68	2	< 1	125	< 0.01	< 1	< 2	< 10	8	< 10	3	19	0.20	2.62
1226001075	122	2.44	< 10	< 1	0.41	16	0.33	0.097	0.046	2.67	< 2	< 1	67	< 0.01	2	< 2	< 10	7	< 10	3	17	0.73	2.48
1227023477	181	3.49	< 10	< 1	0.38	11	0.55	0.094	0.033	2.54	< 2	< 1	72	0.03	< 1	< 2	< 10	7	< 10	2	19	0.26	2.49
1226001037	69	2.37	< 10	< 1	0.39	16	0.53	0.076	0.047	2.59	< 2	< 1	53	< 0.01	< 1	< 2	< 10	7	< 10	2	15	0.71	2.48
1228037057	153	2.67	< 10	< 1	0.28	11	1.45	0.088	0.036	1.40	< 2	< 1	46	< 0.01	2	< 2	< 10	10	< 10	2	15	0.21	1.41
1226001023	138	2.12	< 10	< 1	0.30	17	1.29	0.113	0.042	1.71	< 2	< 1	48	< 0.01	6	< 2	< 10	10	< 10	3	11	0.61	1.68
1227023476	109	3.12	< 10	< 1	0.40	< 10	0.65	0.053	0.032	1.70	< 2	< 1	43	0.01	1	< 2	< 10	7	< 10	2	14	0.24	1.74
1226001070	91	2.24	< 10	< 1	0.38	15	0.92	0.066	0.046	2.00	< 2	< 1	48	< 0.01	< 1	< 2	< 10	6	< 10	3	8	1.16	1.95
1227023621	344	2.44	< 10	< 1	0.17	15	0.93	0.229	0.037	1.58	2	2	160	< 0.01	< 1	< 2	< 10	16	< 10	3	14	0.39	1.60
1227023484	187	3.48	< 10	< 1	0.34	< 10	0.68	0.096	0.033	1.93	8	< 1	68	0.02	< 1	< 2	< 10	8	> 200	2	20	0.15	1.91
1227023521	304	3.31	< 10	< 1	0.31	13	0.64	0.168	0.033	1.67	< 2	< 1	122	0.03	< 1	< 2	< 10	9	< 10	2	17	0.16	1.68
1227023433	140	1.52	< 10	< 1	0.32	18	1.18	0.321	0.048	0.74	< 2	2	275	< 0.01	< 1	< 2	< 10	16	< 10	3	1	0.17	0.71
V860616	14	3.56	< 10	< 1	0.23	10	0.55	0.251	0.059	0.06	< 2	4	39	0.46	4	< 2	< 10	99	< 10	17	12		
1227022228	219	3.48	< 10	< 1	0.28	15	1.07	0.123	0.035	1.15	< 2	1	87	0.02	< 1	< 2	< 10	17	< 10	2	10	0.24	1.13
1227022136	146	3.59	< 10	< 1	0.52	10	0.81	0.057	0.032	2.20	< 2	< 1	39	0.03	< 1	< 2	< 10	9	< 10	2	19	0.18	2.10
1227017057	290	2.27	< 10	< 1	0.41	15	0.91	0.148	0.041	1.07	< 2	2	103	0.05	1	< 2	< 10	20	< 10	2	5	0.33	0.98
1227022036	170	3.09	< 10	< 1	0.33	11	0.82	0.098	0.036	1.21	2	1	83	0.03	3	< 2	< 10	12	< 10	2	11	0.25	1.17
1233001144	128	4.38	< 10	2	0.07	< 10	1.80	0.533	0.018	0.08	< 2	7	67	0.23	< 1	< 2	< 10	143	< 10	5	3	0.07	0.08
1227022239	308	2.83	< 10	< 1	0.30	15	1.00	0.167	0.036	0.84	3	1	104	0.02	< 1	< 2	< 10	16	< 10	2	10	0.32	0.78
1233001134	109	4.37	< 10	1	0.06	< 10	1.81	0.537	0.019	0.07	< 2	8	68	0.24	2	< 2	< 10	142	< 10	5	3	0.16	0.07
1227017038	270	3.26	< 10	< 1	0.50	38	1.36	0.111	0.097	1.35	< 2	5	117	0.09	2	< 2	< 10	43	< 10	4	7	0.46	1.38
1227022129	226	3.93	< 10	< 1	0.41	11	0.53	0.041	0.033	2.47	< 2	< 1	24	0.03	< 1	< 2	< 10	7	< 10	2	15	0.21	2.43
1226001103	331	1.22	< 10	< 1	0.25	15	0.14	0.143	0.044	0.98	< 2	< 1	154	< 0.01	1	< 2	< 10	9	< 10	2	3	0.23	0.89
1227022155	125	2.36	< 10	< 1	0.28	17	0.75	0.141	0.038	1.35	< 2	1	102	< 0.01	2	< 2	< 10	13	< 10	2	9	0.13	1.34
1227022044	149	3.15	< 10	< 1	0.29	13	1.36	0.133	0.038	1.08	< 2	2	114	0.01	< 1	< 2	< 10	17	< 10	2	12	0.21	1.11
1227017039	466	3.91	< 10	< 1	0.84	65	2.50	0.116	0.190	0.37	2	9	242	0.19	2	< 2	< 10	86	< 10	7	5	0.69	0.40
1227017048	136	2.40	< 10	< 1	0.36	15	1.39	0.108	0.039	0.59	< 2	2	69	0.01	< 1	< 2	< 10	16	< 10	2	6	0.17	0.59
1227022109	93	2.51	< 10	< 1	0.33	15	0.89	0.107	0.037	1.39	< 2	1	101	< 0.01	< 1	< 2	< 10	14	< 10	2	10	0.22	1.42
1227023648	192	1.73	< 10	< 1	0.24	< 10	0.81	0.197	0.035	0.81	< 2	2	126	0.01	1	< 2	< 10	14	< 10	3	5	0.11	0.75
1227022033	109	3.10	< 10	< 1	0.37	11	0.89	0.147	0.033	1.06	< 2	< 1	116	0.03	< 1	< 2	< 10	9	< 10	2	11	0.21	0.96
1227022030	396	3.64	< 10	< 1	0.28	10	0.74	0.109	0.032	1.65	< 2	< 1	77	0.03	< 1	< 2	< 10	7	< 10	2	12	1.00	1.66
V860617	13	3.16	< 10	< 1	0.25	17	0.45	0.170	0.047	0.04	< 2	3	50	0.29	4	< 2	< 10	60	< 10	18	8		
1227022302	282	2.30	< 10	< 1	0.41	12	0.96	0.048	0.038	1.16	2	< 1	39	< 0.01	< 1	< 2	< 10	11	< 10	2	7	0.27	1.11
1227023532	269	3.08	< 10	< 1	0.30	12	1.20	0.122	0.038	1.01	2	1	124	< 0.01	< 1	< 2	< 10	14	< 10	3	13	0.14	1.01
1228034092	144	3.55	< 10	< 1	0.40	11	0.89	0.093	0.049	3.21	< 2	3	35	0.01	5	< 2	< 10	29	< 10	4	17	0.23	3.09

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228037163	155	2.39	< 10	< 1	0.32	19	1.09	0.180	0.043	1.29	< 2	1	76	< 0.01	1	< 2	< 10	12	< 10	2	10	0.21	1.30
1228036064	166	2.77	< 10	< 1	0.37	12	1.34	0.118	0.043	1.92	< 2	2	53	0.01	2	< 2	< 10	23	< 10	4	14	0.33	1.84
1228034071	130	2.95	< 10	< 1	0.52	12	0.40	0.070	0.038	3.08	< 2	< 1	17	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.16	2.83
1228034108	319	2.63	< 10	< 1	0.34	27	1.25	0.168	0.066	1.34	2	2	59	0.01	< 1	< 2	< 10	23	< 10	3	4	0.25	1.25
1228034060	334	2.92	< 10	< 1	0.30	12	0.83	0.150	0.040	2.31	< 2	1	51	0.01	2	< 2	< 10	16	< 10	2	20	0.22	2.18
1227023576	249	3.71	< 10	< 1	0.30	12	1.86	0.097	0.036	1.74	3	1	75	< 0.01	1	< 2	< 10	12	< 10	2	21	0.21	1.64
1227034011	152	2.11	< 10	< 1	0.23	15	1.39	0.177	0.039	1.10	< 2	< 1	100	< 0.01	< 1	< 2	< 10	9	< 10	3	12	0.33	0.98
1227023494	139	2.55	< 10	< 1	0.36	14	1.21	0.181	0.039	1.47	< 2	1	171	< 0.01	2	< 2	< 10	12	< 10	3	11	0.17	1.46
1228034063	349	2.95	< 10	< 1	0.34	14	0.67	0.105	0.040	2.53	< 2	1	38	< 0.01	3	< 2	< 10	12	< 10	3	18	0.31	2.51
1227034020	213	2.56	< 10	< 1	0.27	14	1.96	0.147	0.038	1.48	2	< 1	65	0.03	< 1	< 2	< 10	12	< 10	2	6	0.17	1.45
1228034001	291	2.47	< 10	< 1	0.38	15	0.98	0.122	0.042	2.02	< 2	1	45	< 0.01	2	< 2	< 10	14	< 10	3	19	0.27	1.88
1228036106	432	2.95	< 10	< 1	0.26	19	1.98	0.126	0.058	1.08	< 2	3	102	0.03	3	< 2	< 10	30	< 10	3	3	0.89	0.97
1434001020	250	5.90	< 10	< 1	0.37	< 10	1.70	0.079	0.058	0.51	3	10	51	0.17	< 1	< 2	< 10	134	< 10	11	7	0.97	0.54
1227034012	96	1.76	< 10	< 1	0.28	16	1.35	0.219	0.040	0.91	< 2	< 1	123	0.01	< 1	< 2	< 10	10	< 10	2	3	0.26	0.81
1228036075	301	6.52	< 10	2	0.36	12	2.67	0.082	0.083	4.46	2	10	107	0.11	5	< 2	< 10	118	< 10	9	16	1.09	4.35
V860618																							
1228037125	109	2.31	< 10	< 1	0.31	14	1.16	0.237	0.037	1.07	< 2	1	103	< 0.01	1	< 2	< 10	13	< 10	3	6	0.27	1.08
1228037220	153	2.36	< 10	< 1	0.36	18	0.78	0.200	0.052	1.61	< 2	1	118	0.02	< 1	< 2	< 10	16	< 10	3	4	0.20	1.54
1228037010	129	2.54	< 10	< 1	0.38	13	1.48	0.099	0.038	2.11	< 2	1	41	0.02	4	< 2	< 10	10	< 10	2	13	0.26	2.00
1227022292	288	2.17	< 10	< 1	0.35	15	0.83	0.199	0.040	1.11	2	1	131	0.01	< 1	< 2	< 10	17	< 10	3	8	0.28	0.96
1228037107	63	2.54	< 10	< 1	0.28	12	1.97	0.083	0.037	1.39	< 2	< 1	43	< 0.01	2	< 2	< 10	11	< 10	2	11	0.26	1.32
1228037100	86	2.31	< 10	< 1	0.37	15	1.53	0.121	0.036	1.63	< 2	1	71	0.02	1	< 2	< 10	12	< 10	2	6	0.20	1.67
1228037041	299	2.77	< 10	< 1	0.26	28	2.62	0.073	0.148	0.94	< 2	4	57	0.03	< 1	< 2	< 10	35	< 10	5	3	1.01	0.96
1228037169	96	2.66	< 10	< 1	0.36	18	0.88	0.171	0.044	1.75	< 2	1	76	0.03	1	< 2	< 10	12	< 10	2	7	0.13	1.87
1227017404	138	2.34	< 10	< 1	0.43	25	1.25	0.143	0.057	0.53	< 2	2	87	0.07	3	< 2	< 10	21	< 10	4	11	0.22	0.53
1227022271	307	1.95	< 10	< 1	0.30	14	0.67	0.106	0.034	1.03	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.36	1.03
1228037130	147	2.13	< 10	< 1	0.22	12	1.04	0.257	0.035	1.36	< 2	1	105	< 0.01	3	< 2	< 10	11	< 10	2	3	0.13	1.47
1228037021	79	2.15	< 10	< 1	0.28	11	1.45	0.058	0.035	1.87	< 2	< 1	24	0.01	2	< 2	< 10	9	< 10	2	6	0.19	1.98
1228034088	134	3.23	< 10	< 1	0.44	12	0.76	0.066	0.045	2.90	< 2	2	27	0.04	3	< 2	< 10	28	< 10	4	14	0.23	2.93
1227017418	137	2.26	< 10	< 1	0.39	21	1.16	0.107	0.052	1.42	< 2	2	64	0.04	2	< 2	< 10	21	< 10	3	6	0.32	1.41
1227017435	164	2.47	< 10	< 1	0.43	24	1.15	0.190	0.053	1.72	< 2	2	130	0.04	2	< 2	< 10	24	< 10	4	3	0.37	1.77
1228034013	371	3.13	< 10	< 1	0.32	13	1.06	0.080	0.041	2.57	3	2	32	< 0.01	< 1	< 2	< 10	17	< 10	3	13	0.63	2.62
1228034020	360	2.90	< 10	< 1	0.36	12	0.41	0.056	0.039	2.78	2	< 1	18	< 0.01	1	< 2	< 10	9	< 10	2	13	0.16	2.74
V860619																							

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1227013424	
1227032032	
1228033074	
1227013468	
1228033014	
1228033091	
1227013427	
1227013479	
1228033093	
1227013489	
V860615	
1227022216	
1226001083	
1227023642	
1233001256	
1227023550	
1227023589	
1226001075	
1227023477	
1226001037	
1228037057	
1226001023	
1227023476	
1226001070	
1227023621	
1227023484	
1227023521	
1227023433	
V860616	
1227022228	
1227022136	
1227017057	
1227022036	
1233001144	
1227022239	
1233001134	
1227017038	
1227022129	
1226001103	
1227022155	
1227022044	
1227017039	
1227017048	
1227022109	
1227023648	
1227022033	
1227022030	
V860617	
1227022302	
1227023532	
1228034092	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1228037163	
1228036064	
1228034071	
1228034108	
1228034060	
1227023576	
1227034011	
1227023494	
1228034063	
1227034020	
1228034001	
1228036106	
1434001020	
1227034012	
1228036075	1.82
V860618	
1228037125	
1228037220	
1228037010	
1227022292	
1228037107	
1228037100	
1228037041	
1228037169	
1227017404	
1227022271	
1228037130	
1228037021	
1228034088	
1227017418	
1227017435	
1228034013	
1228034020	
V860619	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	67	1060	1	26	95	127	6.84	205	< 10	752	0.9	2	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.4				7.70																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.49																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2160	755	< 1	34	57	261	2.77	5		79	0.7	7	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4410	880	< 1	31	80	345	2.84	5		63	0.7	23	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.6		> 10000				86	421						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							535																
OREAS 218 Cert							531																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas							528																
OREAS 218 Cert							531																
OREAS 218 Meas							529																
OREAS 218 Cert							531																
OREAS 45f (Aqua Regia) Meas										344	163	< 1	219	8	27	7.06			139	1.1	6	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2930																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1227013489 Orig							78																
1227013489 Dup							83																
1226001083 Orig								1.0	1.0	32	586	2	11	15	220	1.71	17	< 10	25	< 0.5	4	1.51	10
1226001083 Dup								1.1	0.9	33	594	3	11	15	221	1.75	20	< 10	26	< 0.5	2	1.54	10
1226001037 Orig							142																
1226001037 Dup							140																
1228037057 Orig																							
1228037057 Dup																							
1227023521 Orig								0.8	< 0.5	576	301	1	13	< 2	31	2.95	4	< 10	39	< 0.5	17	1.15	5
1227023521 Dup								0.8	< 0.5	577	299	1	15	< 2	31	2.97	3	< 10	38	< 0.5	18	1.15	5
1227022036 Orig																							
1227022036 Dup																							
1227022155 Orig								0.5	< 0.5	192	288	2	11	6	39	3.14	5	13	51	< 0.5	3	1.12	8
1227022155 Dup								0.5	< 0.5	186	277	2	11	5	37	2.96	7	12	45	< 0.5	3	1.06	7
1227017048 Orig																							
1227017048 Dup																							
1227023648 Orig							107																
1227023648 Dup							79																
1227022302 Orig	29.4	14.8	-14.6	34.0	0.435																		
1227022302 Dup	29.4	14.7	-14.7	34.0	0.432																		
1228034071 Orig								1.1	0.7	26	326	< 1	9	7	172	1.43	9	< 10	12	< 0.5	3	0.57	7
1228034071 Dup								1.2	0.7	24	327	< 1	9	6	166	1.42	9	< 10	< 10	< 0.5	4	0.57	8
1228034108 Orig							113																
1228034108 Dup							120																
1227034012 Orig							59																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227034012 Dup							87																
1228037041 Orig						9.47																	
1228037041 Dup						9.48																	
1227022271 Orig								0.7	< 0.5	111	261	2	16	4	83	1.70	8	11	43	< 0.5	< 2	1.36	9
1227022271 Dup								0.6	< 0.5	115	261	2	16	5	82	1.73	9	11	43	< 0.5	< 2	1.37	8
1228034013 Orig						9.02																	
1228034013 Dup						9.02																	
1228034020 Orig	79.1	9.25	-69.8	83.9	0.110																		
1228034020 Dup	79.1	9.24	-69.8	83.9	0.110																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	84	5.26	20	2	1.12	10	0.39	0.121	0.033	0.01	4	22	30		< 1	< 2	< 10	167	< 10	6	4		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.5
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
SGR-1b Meas																						27.9	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.57
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.13	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	48	4.83	< 10		0.48	38	1.30	0.032	0.060	0.36	2	4	16			< 2	< 10	35	< 10	21	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.72	< 10		0.43	36	1.43		0.060	0.67	3	4	15			< 2	< 10	35	< 10	20	22		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 218 Cert																							
OREAS 45f (Aqua Regia) Meas	373	13.1	20	< 1	0.11	11	0.17	0.048	0.020	0.02		29	15	0.08		3	< 10	194		6	9		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
1227013489 Orig																						0.24	1.18
1227013489 Dup																						0.25	1.15
1226001083 Orig	84	2.36	< 10	< 1	0.39	21	0.75	0.122	0.054	2.41	< 2	< 1	56	< 0.01	2	< 2	< 10	9	< 10	3	12		
1226001083 Dup	86	2.40	< 10	< 1	0.39	22	0.76	0.125	0.055	2.46	< 2	< 1	57	< 0.01	1	< 2	< 10	9	< 10	4	13		
1226001037 Orig																							
1226001037 Dup																							
1228037057 Orig																						0.20	1.41
1228037057 Dup																						0.21	1.41
1227023521 Orig	303	3.32	< 10	< 1	0.31	13	0.64	0.168	0.033	1.67	3	< 1	123	0.03	< 1	< 2	< 10	9	< 10	2	18		
1227023521 Dup	306	3.30	< 10	< 1	0.31	13	0.64	0.168	0.033	1.66	< 2	< 1	122	0.03	< 1	< 2	< 10	9	< 10	2	16		
1227022036 Orig																						0.25	1.19
1227022036 Dup																						0.25	1.14
1227022155 Orig	127	2.42	< 10	< 1	0.28	17	0.77	0.145	0.039	1.38	< 2	1	105	< 0.01	2	< 2	< 10	13	< 10	2	10		
1227022155 Dup	123	2.30	< 10	< 1	0.27	16	0.73	0.137	0.037	1.32	< 2	1	99	< 0.01	2	< 2	< 10	13	< 10	2	9		
1227017048 Orig																						0.17	0.59
1227017048 Dup																						0.17	0.58
1227023648 Orig																							
1227023648 Dup																							
1227022302 Orig																							
1227022302 Dup																							
1228034071 Orig	133	2.95	< 10	< 1	0.52	12	0.41	0.071	0.039	3.08	< 2	< 1	17	< 0.01	< 1	< 2	< 10	7	< 10	2	16		
1228034071 Dup	127	2.95	< 10	< 1	0.52	12	0.40	0.069	0.038	3.07	< 2	< 1	18	< 0.01	< 1	< 2	< 10	7	< 10	2	16		
1228034108 Orig																						0.26	1.26
1228034108 Dup																						0.24	1.24
1227034012 Orig																						0.26	0.80
1227034012 Dup																						0.25	0.82
1228037041 Orig																							
1228037041 Dup																							
1227022271 Orig	308	1.94	< 10	< 1	0.30	14	0.67	0.107	0.034	1.02	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.36	1.07
1227022271 Dup	306	1.95	< 10	< 1	0.30	13	0.67	0.106	0.034	1.05	< 2	1	75	0.02	< 1	< 2	< 10	14	< 10	2	8	0.35	0.99

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1228034013 Orig																							
1228034013 Dup																							
1228034020 Orig																						0.17	2.75
1228034020 Dup																						0.16	2.73
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
OREAS 218 Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
1227013489 Orig	
1227013489 Dup	
1226001083 Orig	
1226001083 Dup	
1226001037 Orig	
1226001037 Dup	
1228037057 Orig	
1228037057 Dup	
1227023521 Orig	
1227023521 Dup	
1227022036 Orig	
1227022036 Dup	
1227022155 Orig	
1227022155 Dup	
1227017048 Orig	
1227017048 Dup	
1227023648 Orig	
1227023648 Dup	
1227022302 Orig	
1227022302 Dup	
1228034071 Orig	
1228034071 Dup	
1228034108 Orig	
1228034108 Dup	
1227034012 Orig	
1227034012 Dup	
1228037041 Orig	
1228037041 Dup	
1227022271 Orig	
1227022271 Dup	

Analyte Symbol	SO4
Unit Symbol	%
Lower Limit	0.05
Method Code	SO4
1228034013 Orig	
1228034013 Dup	
1228034020 Orig	
1228034020 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-03944**
Report Date:	**07-May-20**
Date Submitted:	**03-Apr-20**
Your Reference:	**2020 Feb_Mar_check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

109 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-04-14 18:10:15
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-04-22 09:53:45

REPORT **A20-03944**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for Samples V860663, V860660 and V860661

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-03944**
Report Date: **07-May-20**
Date Submitted: **03-Apr-20**
Your Reference: **2020 Feb_Mar_check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

109 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-04-17 13:49:38
4F-C, S	Infrared	2020-04-28 17:34:09

REPORT **A20-03944**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for Samples V860663, V860660 and V860661

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227028138	34.2	7.84	-26.3	37.1	0.212	8.61	98	1.0	0.8	9	476	< 1	17	< 2	303	1.27	8	< 10	46	< 0.5	< 2	0.58	5
1227028079	33.2	19.0	-14.3	36.8	0.516	8.89	49	1.6	< 0.5	11	619	< 1	14	5	168	1.75	15	< 10	46	< 0.5	< 2	1.24	5
V860658							119	1.3	< 3	60	416	< 5	10	11	72	1.55	< 10	< 54	106	< 3	< 10	1.40	14
1226002124	16.3	4.24	-12.0	15.9	0.266	8.91	20	< 0.2	< 0.5	15	530	< 1	11	35	114	3.10	12	< 10	58	< 0.5	< 2	1.43	6
1227021027	18.4	15.8	-2.60	22.4	0.708	9.14	48	< 0.2	< 0.5	13	710	< 1	22	4	160	2.71	12	< 10	98	< 0.5	< 2	1.55	8
1226002155	54.0	61.4	7.33	62.2	0.987	8.84	413	5.6	3.0	61	1590	< 1	17	135	753	1.20	30	< 10	42	< 0.5	< 2	2.31	7
1230501206	39.6	28.9	-10.7	46.9	0.616	9.01	104	1.3	7.4	57	753	< 1	12	12	1630	2.12	21	< 10	52	< 0.5	3	1.20	8
1227021208	55.8	11.6	-44.2	61.6	0.188	8.64	60	0.6	< 0.5	98	537	2	15	3	45	1.86	9	< 10	25	< 0.5	3	1.11	8
1230501086	36.0	19.6	-16.4	41.7	0.472	8.92	111	0.7	0.8	58	586	< 1	13	5	240	1.86	12	< 10	52	< 0.5	< 2	1.08	7
1227021106	44.3	8.97	-35.3	49.0	0.183	8.71	64	0.9	< 0.5	71	291	2	19	< 2	76	2.28	9	< 10	43	< 0.5	4	1.11	9
1226002151	21.3	5.97	-15.4	24.8	0.241	8.69	25	0.3	< 0.5	26	449	< 1	13	10	72	2.47	13	< 10	52	< 0.5	< 2	1.12	7
1227021216	46.0	11.1	-34.9	51.5	0.216	8.55	51	0.8	< 0.5	210	359	1	15	< 2	175	2.15	8	< 10	41	< 0.5	3	0.82	6
1227021197	37.8	8.11	-29.7	42.9	0.189	8.85	160	1.2	< 0.5	239	556	< 1	17	5	173	2.10	12	< 10	47	< 0.5	< 2	0.98	9
1227021131	21.7	12.2	-9.45	25.7	0.475	8.99	162	0.4	0.6	22	714	1	24	3	230	2.32	10	< 10	88	< 0.5	< 2	1.02	8
1230501074	38.8	16.1	-22.7	43.2	0.373	8.88	59	0.4	< 0.5	33	459	< 1	15	< 2	131	2.04	14	< 10	37	< 0.5	< 2	1.23	8
1227021223	32.3	8.10	-24.2	37.4	0.217	8.86	75	0.5	< 0.5	100	340	1	14	< 2	90	2.15	8	< 10	51	< 0.5	< 2	0.63	8
1227021176	38.4	56.3	17.8	47.5	1.19	9.21	71	0.7	< 0.5	130	468	< 1	80	14	105	2.37	12	< 10	106	0.6	4	2.40	14
1230501064	28.8	35.0	6.19	34.3	1.02	9.19	70	0.5	0.6	22	669	< 1	12	3	221	1.92	13	< 10	66	< 0.5	< 2	1.45	8
1227021238	57.2	21.8	-35.4	64.3	0.339	8.71	492	1.5	< 0.5	337	567	< 1	37	4	76	2.05	13	< 10	29	< 0.5	< 2	1.39	9
1227021248	42.5	11.5	-31.0	47.8	0.241	8.85	67	0.6	< 0.5	304	352	< 1	14	< 2	149	1.83	13	< 10	35	< 0.5	< 2	0.69	7
1227021165	47.5	12.9	-34.6	52.7	0.245	8.88	575	1.7	1.0	330	630	< 1	23	7	221	2.37	14	< 10	48	< 0.5	< 2	1.48	9
1227021265	60.4	13.7	-46.7	66.8	0.205	8.71	124	0.6	< 0.5	70	605	2	15	3	47	2.59	16	< 10	22	< 0.5	2	1.60	8
V860659							731	2.7	< 2	33	307	13	12	14	50	1.19	< 8	< 42	87	< 2	< 8	2.17	9
1227021089	35.0	7.98	-27.0	39.8	0.200	9.03	436	1.2	1.1	154	664	< 1	22	< 2	325	1.89	12	< 10	47	< 0.5	< 2	0.71	10
1227021004	47.7	7.85	-39.9	53.3	0.147	8.62	90	1.1	< 0.5	369	229	14	22	3	41	2.12	6	< 10	37	< 0.5	2	0.91	6
1227021066	58.9	6.85	-52.1	64.6	0.106	8.69	163	0.5	< 0.5	119	252	< 1	10	2	54	2.68	17	< 10	43	< 0.5	4	1.07	7
1227021080	30.4	36.8	6.41	35.5	1.04	8.96	73	0.7	< 0.5	55	708	< 1	21	5	143	1.64	15	< 10	57	< 0.5	< 2	1.87	8
1227021033	37.4	32.8	-4.64	42.3	0.775	9.03	83	0.4	1.0	31	671	< 1	28	2	313	1.13	12	< 10	44	< 0.5	2	1.50	17
1226005084	25.8	44.2	18.4	31.9	1.39	8.98	92	0.7	< 0.5	19	701	< 1	25	5	136	1.83	21	< 10	29	< 0.5	< 2	2.13	14
1226005082	35.8	23.1	-12.7	44.7	0.517	8.78	73	0.6	3.4	53	631	3	11	6	925	1.67	13	< 10	41	< 0.5	< 2	1.46	7
1226005001	42.0	19.1	-22.9	48.4	0.394	8.89	339	2.5	1.5	36	465	1	25	5	507	1.58	20	< 10	32	< 0.5	< 2	1.37	10
1226005166	19.9	20.1	0.167	24.8	0.808	8.94	70	0.2	2.3	75	686	< 1	11	7	755	2.30	10	12	65	< 0.5	< 2	1.23	7
1226005031	13.0	14.2	1.23	16.5	0.861	8.73	48	0.4	0.8	52	438	2	11	8	252	2.48	7	13	50	< 0.5	< 2	1.20	7
1230501002	18.7	15.4	-3.38	24.5	0.627	8.67	63	< 0.2	< 0.5	28	1180	< 1	15	4	196	1.78	12	< 10	72	< 0.5	2	0.87	12
1226005088	21.6	6.73	-14.8	25.1	0.268	8.79	37	0.4	< 0.5	28	686	< 1	12	3	173	3.10	7	15	71	< 0.5	< 2	1.34	7
1226005327	91.9	15.8	-76.1	99.5	0.158	8.47	159	3.0	0.7	35	432	1	15	9	252	1.44	80	11	19	< 0.5	< 2	0.99	8
1230501044	31.1	28.1	-3.03	35.5	0.791	9.04	26	0.3	< 0.5	32	741	< 1	11	8	180	1.73	17	< 10	47	< 0.5	< 2	1.23	8
1226005139	39.9	6.13	-33.8	43.5	0.141	8.82	8	0.2	< 0.5	9	228	1	11	3	122	2.63	4	13	46	< 0.5	4	1.15	8
1226005010	20.2	22.0	1.76	24.8	0.885	8.77	31	0.2	< 0.5	32	412	< 1	13	3	89	2.29	9	10	65	< 0.5	< 2	1.15	7
1226013178	78.0	15.5	-62.5	85.8	0.181	8.90	111	0.4	< 0.5	75	406	1	20	3	131	2.05	6	< 10	22	< 0.5	3	1.10	8
V860660							120																
1226013037	19.0	19.4	0.423	23.0	0.844	8.95	41	< 0.2	0.6	30	588	2	21	7	252	1.80	5	< 10	67	< 0.5	< 2	1.50	8
1228050001	32.4	13.7	-18.6	38.3	0.359	8.98	481	0.6	5.8	67	906	1	16	4	1550	1.70	20	< 10	53	< 0.5	< 2	1.82	8
1226013048	47.8	15.8	-32.0	53.0	0.299	8.80	1410	0.8	< 0.5	67	516	4	26	< 2	52	1.18	7	< 10	38	< 0.5	< 2	0.96	8
1226013207	66.1	10.4	-55.7	72.9	0.143	8.61	118	0.6	< 0.5	144	484	5	23	3	65	1.89	10	< 10	21	< 0.5	< 2	1.11	9
1226013516	71.4	11.1	-60.3	79.3	0.140	8.76	65	0.4	< 0.5	65	330	3	19	< 2	57	1.77	6	< 10	19	< 0.5	5	0.73	8
1226005347	33.2	5.10	-28.1	37.1	0.138	8.96	8	0.3	< 0.5	30	178	1	18	48	34	1.70	4	12	57	< 0.5	< 2	0.81	8
1226013221	35.9	12.5	-23.5	51.8	0.241	8.68	86	0.5	2.8	109	538	4	21	< 2	785	1.87	7	< 10	35	< 0.5	2	1.18	8
1226013002	65.8	25.7	-40.1	77.8	0.331	8.71	104	0.5	2.2	119	694	1	30	2	681	1.94	7	< 10	22	< 0.5	4	1.33	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226005013	15.3	16.2	0.915	19.0	0.854	8.77	35	0.3	< 0.5	40	410	5	17	3	127	2.19	5	< 10	76	< 0.5	3	0.85	6
1226013231	56.7	10.1	-46.5	65.8	0.154	8.67	108	0.6	< 0.5	110	547	5	27	2	130	1.31	9	< 10	18	< 0.5	3	0.71	9
1226005354	27.8	5.24	-22.6	32.8	0.160	8.86	86	0.4	< 0.5	245	258	2	20	6	40	1.92	4	< 10	53	< 0.5	< 2	0.68	4
1226013236	55.5	13.2	-42.3	63.1	0.210	8.79	37	0.2	1.0	41	401	3	23	< 2	338	1.81	5	< 10	35	< 0.5	2	1.31	7
1226005024	27.9	25.0	-2.96	33.1	0.754	8.57	79	< 0.2	< 0.5	70	422	< 1	13	< 2	58	2.56	8	21	38	< 0.5	< 2	1.41	8
1226013198	38.6	12.2	-26.4	44.7	0.274	8.76	205	0.4	1.3	86	575	2	20	< 2	402	1.68	6	< 10	37	< 0.5	< 2	1.06	6
1226010026	13.3	27.4	14.0	19.0	1.44	9.05	219	0.2	0.7	40	522	1	13	12	325	3.07	15	< 10	79	< 0.5	< 2	2.50	8
1227029009	63.2	18.3	-44.9	72.9	0.252	8.91	180	1.9	< 0.5	128	439	< 1	55	4	169	1.57	16	< 10	20	< 0.5	3	1.02	39
1226010020	8.22	25.9	17.7	12.6	2.06	8.72	24	< 0.2	< 0.5	27	451	1	24	11	121	2.96	7	< 10	64	< 0.5	< 2	2.23	9
1226005018	28.9	15.5	-13.5	34.9	0.443	8.57	87	< 0.2	< 0.5	134	366	1	14	< 2	35	3.15	5	22	41	< 0.5	< 2	1.34	8
1227029050	92.9	22.6	-70.3	109	0.207	8.75	66	1.5	< 0.5	60	677	2	32	8	146	1.97	24	< 10	18	< 0.5	9	1.19	16
1226005146	44.2	11.1	-33.0	49.3	0.226	8.51	267	0.3	< 0.5	116	283	2	22	2	34	1.77	6	< 10	39	< 0.5	3	0.88	7
1227029060	67.5	13.7	-53.8	76.3	0.180	8.91	158	1.5	< 0.5	32	410	< 1	51	2	81	1.59	24	< 10	18	< 0.5	5	0.84	40
1226010042	5.52	12.6	7.06	8.57	1.47	8.98	13	< 0.2	< 0.5	17	463	< 1	15	7	65	3.24	6	< 10	64	< 0.5	< 2	2.01	7
V860661							931																
1232011059	9.58	43.0	33.5	12.9	3.35	9.13	26	0.6	< 0.5	25	743	2	25	< 2	174	1.45	8	< 10	82	< 0.5	< 2	1.94	9
1226010210	13.1	8.46	-4.66	12.9	0.658	8.81	14	< 0.2	< 0.5	23	425	1	14	6	99	3.44	2	< 10	74	< 0.5	< 2	1.93	7
1226011085	2.81	17.1	14.3	2.76	6.20	8.79	< 5	< 0.2	< 0.5	111	713	< 1	61	< 2	61	4.33	< 2	< 10	14	< 0.5	< 2	3.46	28
1228038145	69.9	8.24	-61.6	85.1	0.0968	8.25	125	1.9	19.6	67	443	1	15	6	5560	1.14	118	< 10	14	< 0.5	< 2	0.33	9
1226011197	57.8	4.12	-53.7	65.5	0.0629	8.35	46	0.3	< 0.5	8	375	< 1	13	3	73	2.88	9	21	36	< 0.5	< 2	0.97	7
1228038075	26.9	4.37	-22.5	31.9	0.137	7.57	300	0.6	0.9	18	799	< 1	11	6	463	2.62	26	< 10	69	0.6	< 2	0.63	10
1228038225	47.8	0.749	-47.1	53.6	0.0140	8.12	153	0.6	1.1	37	353	< 1	11	10	382	1.92	60	< 10	21	0.6	< 2	0.31	10
1228038131	109	12.6	-95.9	120	0.105	7.67	1080	1.5	9.3	90	736	1	23	13	2420	0.63	273	< 10	12	< 0.5	< 2	0.48	9
1226011219	48.1	29.5	-18.6	55.4	0.532	8.62	116	0.3	< 0.5	100	391	3	19	2	47	1.66	7	< 10	40	< 0.5	2	1.62	11
1226011055	3.13	8.86	5.73	3.06	2.89	9.07	6	< 0.2	< 0.5	114	440	< 1	48	< 2	46	4.92	< 2	< 10	15	< 0.5	< 2	3.82	19
1228038274	31.1	5.12	-26.0	36.8	0.139	8.23	367	0.4	< 0.5	16	913	< 1	11	5	129	3.16	25	12	57	0.6	< 2	0.86	9
1228038032	35.4	0.873	-34.5	42.0	0.0208	5.64	97	0.4	2.6	30	253	1	26	18	763	1.18	161	< 10	23	< 0.5	< 2	0.18	8
1226011202	64.9	15.2	-49.7	74.1	0.205	8.05	125	0.4	< 0.5	95	611	< 1	33	9	69	3.55	10	17	38	< 0.5	4	1.86	11
1232011049	10.6	55.2	44.6	15.9	3.47	9.13	18	0.4	< 0.5	17	808	< 1	30	< 2	201	1.80	10	< 10	106	< 0.5	< 2	2.37	11
1228038069	78.1	3.50	-74.6	91.6	0.0382	6.84	266	0.9	6.4	34	103	< 1	17	10	1560	1.08	71	< 10	11	< 0.5	2	0.29	10
1226011270	64.4	11.1	-53.3	70.7	0.157	8.30	52	0.2	< 0.5	42	330	3	17	3	74	2.22	11	13	24	< 0.5	3	1.01	6
1226011230	76.8	9.86	-66.9	83.6	0.118	8.19	103	0.4	< 0.5	30	296	3	16	3	144	2.59	7	< 10	23	< 0.5	4	1.21	7
1228038326	11.6	52.2	40.7	17.1	3.04	8.94	350	0.4	1.0	20	675	1	21	22	248	1.53	36	< 10	56	< 0.5	< 2	2.42	6
1228038038	134	8.37	-125	140	0.0597	7.69	162	2.7	6.3	105	263	1	28	338	1490	0.76	102	< 10	< 10	< 0.5	< 2	0.51	10
1226011084	3.44	11.8	8.39	3.37	3.51	9.14	5	< 0.2	< 0.5	102	558	< 1	50	< 2	55	4.13	< 2	< 10	18	< 0.5	< 2	3.11	23
1226006117	18.0	8.74	-9.27	22.4	0.391	8.84	115	0.3	< 0.5	133	382	2	21	3	45	3.12	5	15	43	< 0.5	< 2	1.30	8
V860662							714	3.1	< 0.5	34	268	16	12	16	45	1.18	< 2	< 10	60	< 0.5	< 2	2.01	8
1227029016	133	30.2	-103	156	0.193	8.33	415	1.0	< 0.5	76	655	1	75	4	147	1.84	32	< 10	12	< 0.5	9	0.94	38
1227029054	133	19.6	-113	147	0.133	8.50	82	1.3	0.9	49	568	< 1	29	14	360	1.92	35	< 10	11	< 0.5	8	0.82	23
1226010062	0.508	4.37	3.86	9.19	0.476	8.63	53	< 0.2	< 0.5	15	266	< 1	17	8	142	2.30	6	< 10	51	< 0.5	< 2	0.79	7
1226005154	19.7	7.11	-12.6	23.0	0.310	8.71	15	< 0.2	< 0.5	19	251	2	21	5	57	1.74	5	< 10	51	< 0.5	< 2	0.76	5
1226010096	8.54	7.47	-1.06	11.9	0.626	8.68	84	< 0.2	< 0.5	23	351	2	18	11	93	3.09	4	< 10	55	< 0.5	< 2	1.53	8
1226010091	4.06	8.86	4.80	7.35	1.21	9.03	36	0.3	< 0.5	26	492	< 1	13	11	116	3.63	8	< 10	67	< 0.5	< 2	2.27	6
1226010005	13.4	14.0	0.557	16.2	0.862	8.68	28	< 0.2	< 0.5	13	491	< 1	17	6	90	3.25	14	< 10	48	< 0.5	< 2	1.70	8
1232011094	13.2	36.2	23.0	16.5	2.19	9.16	16	0.6	< 0.5	20	717	2	37	3	177	1.41	9	< 10	73	< 0.5	< 2	1.63	10
1232011109	17.5	39.9	22.4	23.0	1.74	9.10	34	0.5	< 0.5	24	877	1	33	2	197	1.63	8	< 10	84	< 0.5	< 2	1.92	10
1226010202	7.91	9.84	1.93	11.6	0.846	8.93	14	< 0.2	< 0.5	21	422	< 1	11	5	99	3.45	7	< 10	66	< 0.5	< 2	1.69	8
1226010107	8.74	8.61	-0.132	12.3	0.703	8.86	18	< 0.2	< 0.5	26	428	1	17	13	105	3.47	6	< 10	49	< 0.5	< 2	2.07	8
1226011099	16.9	8.25	-8.62	22.4	0.369	8.72	39	< 0.2	< 0.5	75	318	2	26	2	151	2.75	4	< 10	60	< 0.5	< 2	1.33	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226010169	9.89	16.0	6.09	14.4	1.11	8.79	39	< 0.2	< 0.5	31	476	< 1	12	8	101	3.63	11	< 10	58	< 0.5	< 2	2.24	8
1226010228	13.7	11.1	-2.66	18.1	0.613	8.84	7	< 0.2	< 0.5	38	518	1	16	3	118	3.69	3	< 10	89	0.5	< 2	2.04	9
1226011093	3.13	5.25	2.12	3.06	1.71	9.07	< 5	< 0.2	< 0.5	112	453	< 1	41	< 2	46	4.71	< 2	< 10	17	< 0.5	< 2	3.50	20
1226010163	13.5	20.1	6.56	17.5	1.15	8.76	33	< 0.2	< 0.5	16	391	< 1	11	5	103	3.33	15	< 10	72	0.5	< 2	1.83	7
1226010111	7.29	81.2	73.9	11.0	7.37	8.89	32	< 0.2	< 0.5	29	441	1	15	9	105	3.80	5	< 10	76	< 0.5	< 2	2.41	8
1226010141	10.5	7.49	-3.03	13.5	0.556	8.91	44	< 0.2	< 0.5	22	425	1	12	10	99	3.36	7	< 10	62	< 0.5	< 2	1.78	8
1226011145	2.81	8.47	5.65	2.76	3.07	8.98	< 5	< 0.2	< 0.5	112	449	< 1	54	< 2	45	4.72	< 2	< 10	17	< 0.5	< 2	3.60	21
1226011181	10.6	12.8	2.22	10.4	1.23	9.05	33	< 0.2	< 0.5	119	542	1	47	< 2	58	4.19	2	< 10	25	< 0.5	< 2	3.11	21
1232011064	15.7	43.9	28.2	19.6	2.24	9.10	29	0.6	< 0.5	26	906	< 1	32	5	161	1.44	11	< 10	83	< 0.5	< 2	1.92	13
V860663							120																
1226012117	77.5	5.61	-71.9	84.2	0.0666	8.37	514	1.2	< 0.5	222	316	4	15	4	51	2.15	15	< 10	16	< 0.5	5	0.70	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227028138	478	1.95	< 10	< 1	0.20	11	0.76	0.091	0.032	1.21	2	< 1	34	< 0.01	< 1	< 2	< 10	9	< 10	1	15	0.15	1.21
1227028079	344	1.95	< 10	< 1	0.25	12	1.08	0.136	0.036	1.23	2	< 1	53	0.01	< 1	< 2	< 10	12	< 10	2	15	0.27	1.20
V860658	16	3.37	< 50	< 5	0.22	< 54	0.57	0.303	0.064	0.06	< 10	< 5	45	0.72	7	< 10	< 54	117	< 54	16	41		
1226002124	217	1.88	< 10	< 1	0.28	14	0.69	0.125	0.041	0.53	3	1	133	0.03	< 1	< 2	< 10	12	< 10	2	6	0.25	0.52
1227021027	370	2.55	< 10	< 1	0.48	14	1.35	0.230	0.045	0.79	4	2	90	0.05	< 1	< 2	< 10	22	< 10	3	14	0.36	0.73
1226002155	297	2.15	< 10	1	0.33	12	0.72	0.046	0.040	2.14	4	< 1	40	< 0.01	2	< 2	< 10	7	< 10	2	18	0.83	2.03
1230501206	111	2.64	< 10	< 1	0.34	10	1.75	0.056	0.038	1.55	< 2	< 1	33	< 0.01	< 1	< 2	< 10	11	< 10	2	12	0.35	1.53
1227021208	264	2.70	< 10	< 1	0.28	14	0.84	0.171	0.047	2.05	2	1	75	0.02	< 1	< 2	< 10	16	< 10	3	26	0.15	2.01
1230501086	191	2.35	< 10	< 1	0.30	11	1.22	0.117	0.036	1.39	2	1	53	< 0.01	< 1	< 2	< 10	13	< 10	2	18	0.26	1.36
1227021106	415	2.68	< 10	< 1	0.26	13	1.17	0.152	0.035	1.68	4	< 1	98	< 0.01	< 1	< 2	< 10	10	< 10	2	17	0.22	1.60
1226002151	246	1.80	< 10	< 1	0.26	15	0.59	0.093	0.044	0.86	2	< 1	124	0.02	< 1	< 2	< 10	9	< 10	2	9	0.14	0.81
1227021216	289	2.77	< 10	< 1	0.30	10	1.75	0.062	0.034	1.81	2	< 1	42	0.01	< 1	< 2	< 10	10	< 10	2	25	0.13	1.68
1227021197	251	2.70	< 10	< 1	0.24	14	1.27	0.161	0.043	1.37	4	1	61	< 0.01	< 1	< 2	< 10	13	< 10	3	17	0.17	1.40
1227021131	512	2.78	< 10	< 1	0.40	13	1.59	0.164	0.042	0.85	4	2	88	0.05	< 1	< 2	< 10	21	< 10	3	17	0.24	0.84
1230501074	285	2.35	< 10	< 1	0.18	13	1.16	0.136	0.037	1.44	3	< 1	93	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.22	1.41
1227021223	264	2.67	< 10	< 1	0.27	11	1.42	0.129	0.034	1.22	2	1	64	< 0.01	< 1	< 2	< 10	12	18	2	22	0.13	1.22
1227021176	323	3.15	< 10	< 1	0.38	20	2.38	0.068	0.126	1.50	3	3	81	0.11	1	< 2	< 10	33	< 10	4	17	0.70	1.55
1230501064	144	2.20	< 10	< 1	0.30	10	1.40	0.098	0.035	1.12	2	1	57	< 0.01	< 1	< 2	< 10	12	< 10	2	15	0.39	1.12
1227021238	431	3.26	< 10	< 1	0.33	15	1.14	0.136	0.048	2.06	4	2	98	0.02	1	< 2	< 10	17	< 10	3	26	0.30	2.10
1227021248	244	2.60	< 10	< 1	0.24	10	1.59	0.063	0.036	1.61	3	< 1	30	< 0.01	1	< 2	< 10	9	< 10	2	18	0.18	1.56
1227021165	366	2.92	< 10	1	0.41	14	1.08	0.199	0.045	1.72	3	1	85	0.04	< 1	< 2	< 10	17	< 10	3	19	0.26	1.72
1227021265	269	2.94	< 10	< 1	0.44	12	0.86	0.268	0.044	2.17	3	1	135	0.04	< 1	< 2	< 10	16	< 10	3	25	0.23	2.18
V860659	14	3.24	< 40	< 4	0.27	< 42	0.47	0.210	0.051	0.04	< 8	< 4	54	0.42	< 4	< 8	< 42	70	< 42	17	40		
1227021089	405	3.01	< 10	< 1	0.56	12	1.33	0.118	0.044	1.23	3	2	50	0.09	< 1	< 2	< 10	27	< 10	3	20	0.25	1.30
1227021004	597	2.52	< 10	< 1	0.16	< 10	0.80	0.171	0.033	1.77	4	1	124	< 0.01	1	< 2	< 10	12	< 10	2	27	0.19	1.74
1227021066	62	2.74	< 10	< 1	0.26	10	1.11	0.158	0.038	2.03	< 2	1	101	< 0.01	< 1	< 2	< 10	11	< 10	2	22	0.16	2.11
1227021080	478	2.58	< 10	< 1	0.27	13	1.01	0.107	0.043	1.15	3	1	51	0.03	< 1	< 2	< 10	16	< 10	3	7	0.73	1.16
1227021033	300	2.61	< 10	< 1	0.27	11	0.90	0.047	0.050	1.30	3	2	22	0.07	1	< 2	< 10	31	< 10	4	14	0.54	1.38
1226005084	436	3.56	< 10	< 1	0.78	48	1.41	0.074	0.149	0.99	3	5	165	0.12	< 1	< 2	< 10	57	< 10	6	5	0.72	1.04
1226005082	113	1.92	< 10	< 1	0.37	19	0.71	0.107	0.047	1.46	< 2	1	86	0.02	< 1	< 2	< 10	12	< 10	2	5	0.44	1.46
1226005001	327	2.62	< 10	< 1	0.30	21	0.93	0.111	0.063	1.52	< 2	2	87	0.05	4	< 2	< 10	22	< 10	3	11	0.40	1.58
1226005166	149	2.62	< 10	< 1	0.29	20	1.11	0.124	0.048	0.84	< 2	1	74	0.02	4	< 2	< 10	15	< 10	2	13	0.24	0.81
1226005031	146	2.47	< 10	< 1	0.22	12	1.43	0.114	0.040	0.52	< 2	1	88	0.03	< 1	< 2	< 10	16	< 10	2	12	0.22	0.54
1230501002	246	3.07	< 10	< 1	0.26	44	1.33	0.047	0.175	0.88	4	2	59	< 0.01	< 1	< 2	< 10	29	< 10	5	2	0.29	0.80
1226005088	165	2.49	< 10	< 1	0.30	18	1.10	0.152	0.046	0.88	< 2	1	104	0.03	< 1	< 2	< 10	15	< 10	2	15	0.12	0.82
1226005327	168	3.36	< 10	< 1	0.39	13	0.68	0.079	0.041	3.22	2	1	42	0.01	< 1	< 2	< 10	12	< 10	2	21	0.22	3.25
1230501044	132	2.42	< 10	< 1	0.22	11	1.39	0.054	0.039	1.16	< 2	< 1	32	< 0.01	< 1	< 2	< 10	9	< 10	2	10	0.37	1.16
1226005139	129	1.96	< 10	< 1	0.24	13	0.97	0.188	0.038	1.36	< 2	1	151	< 0.01	< 1	< 2	< 10	12	< 10	2	24	0.08	1.42
1226005010	183	2.44	< 10	< 1	0.31	14	1.60	0.072	0.039	0.86	2	1	46	< 0.01	< 1	< 2	< 10	14	< 10	2	7	0.44	0.81
1226013178	260	2.71	< 10	< 1	0.21	18	1.17	0.198	0.052	2.69	< 2	1	85	< 0.01	< 1	< 2	< 10	12	< 10	3	23	0.25	2.80
V860660																							
1226013037	429	2.20	< 10	< 1	0.17	13	0.73	0.181	0.039	0.79	3	1	110	0.02	< 1	< 2	< 10	13	< 10	3	14	0.34	0.75
1228050001	261	2.16	< 10	< 1	0.29	12	0.82	0.130	0.038	1.20	< 2	< 1	53	< 0.01	< 1	< 2	< 10	10	< 10	2	14	0.53	1.25
1226013048	631	2.83	< 10	< 1	0.17	12	0.72	0.094	0.039	1.71	4	2	34	0.02	< 1	< 2	< 10	17	< 10	3	18	0.35	1.73
1226013207	568	3.19	< 10	< 1	0.21	12	0.88	0.221	0.039	2.33	4	1	118	0.03	3	< 2	< 10	18	< 10	3	19	0.26	2.38
1226013516	420	3.01	< 10	< 1	0.25	13	0.89	0.138	0.040	2.47	2	2	67	< 0.01	< 1	< 2	< 10	16	< 10	3	21	0.20	2.59
1226005347	367	1.98	< 10	< 1	0.39	< 10	0.85	0.068	0.035	1.21	3	1	39	0.03	< 1	< 2	< 10	13	< 10	1	19	0.15	1.21
1226013221	483	2.60	< 10	< 1	0.21	12	0.89	0.209	0.039	1.69	6	1	113	0.04	< 1	< 2	< 10	17	< 10	3	19	0.27	1.69
1226013002	410	4.08	< 10	< 1	0.18	22	1.13	0.135	0.057	2.37	3	2	50	< 0.01	4	< 2	< 10	26	< 10	4	23	0.45	2.54
1226005013	385	3.24	< 10	< 1	0.25	12	1.31	0.057	0.037	0.63	2	1	46	0.01	< 1	< 2	< 10	15	< 10	2	12	0.27	0.62
1226013231	691	3.14	< 10	< 1	0.24	12	0.84	0.092	0.040	2.13	3	2	36	0.05	< 1	< 2	< 10	20	< 10	3	21	0.30	2.15

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226005354	470	2.21	< 10	< 1	0.28	13	0.84	0.135	0.037	1.06	4	1	76	< 0.01	2	< 2	< 10	14	< 10	2	10	0.16	1.07
1226013236	581	2.62	< 10	< 1	0.17	11	0.79	0.231	0.038	1.92	3	1	135	0.04	< 1	< 2	< 10	17	< 10	3	16	0.30	2.06
1226005024	279	2.70	< 10	< 1	0.26	13	1.16	0.077	0.039	0.99	< 2	1	78	< 0.01	< 1	< 2	< 10	17	< 10	2	7	0.40	1.08
1226013198	447	2.38	< 10	< 1	0.19	11	0.80	0.170	0.033	1.41	3	1	64	0.03	< 1	< 2	< 10	15	< 10	2	16	0.19	1.46
1226010026	209	2.34	< 10	< 1	0.25	15	0.88	0.161	0.049	0.61	< 2	1	193	0.01	< 1	< 2	< 10	16	< 10	3	6	0.35	0.62
1227029009	263	2.73	< 10	< 1	0.40	< 10	0.97	0.093	0.062	2.27	3	6	32	0.06	2	< 2	< 10	71	< 10	6	12	0.25	2.38
1226010020	344	2.25	< 10	< 1	0.25	16	0.97	0.114	0.052	0.43	2	2	175	0.02	3	< 2	< 10	19	< 10	3	4	0.44	0.41
1226005018	312	2.94	10	< 1	0.24	10	1.11	0.161	0.037	1.09	2	1	124	< 0.01	< 1	< 2	< 10	17	< 10	2	9	0.31	1.14
1227029050	474	4.16	< 10	< 1	0.24	11	1.46	0.148	0.047	3.43	3	4	70	< 0.01	4	< 2	< 10	39	< 10	4	28	0.36	3.56
1226005146	609	2.74	< 10	< 1	0.21	13	0.84	0.144	0.037	1.62	3	< 1	84	< 0.01	< 1	< 2	< 10	12	< 10	2	10	0.24	1.61
1227029060	191	2.96	< 10	< 1	0.45	< 10	0.97	0.066	0.057	2.50	< 2	5	26	0.07	3	< 2	< 10	60	< 10	4	14	0.19	2.49
1226010042	234	1.87	< 10	< 1	0.27	15	0.83	0.135	0.043	0.27	< 2	1	195	0.02	< 1	< 2	< 10	14	< 10	3	6	0.22	0.28
V860661																							
1232011059	380	2.34	< 10	< 1	0.47	21	1.04	0.069	0.054	0.44	2	2	42	0.09	3	< 2	< 10	26	< 10	3	16	0.51	0.42
1226010210	304	2.13	10	< 1	0.23	16	0.81	0.135	0.050	0.44	3	1	201	0.02	< 1	< 2	< 10	16	< 10	3	5	0.21	0.42
1226011085	271	5.38	< 10	3	0.03	< 10	2.98	0.329	0.019	0.09	2	14	86	0.24	1	< 2	< 10	153	< 10	5	3	0.23	0.09
1228038145	241	2.50	< 10	1	0.45	14	0.18	0.032	0.037	2.79	10	< 1	27	< 0.01	< 1	< 2	< 10	7	< 10	1	16	0.14	2.78
1226011197	230	2.36	< 10	< 1	0.31	11	1.21	0.085	0.039	2.16	2	1	109	< 0.01	< 1	< 2	< 10	11	< 10	2	20	0.12	2.14
1228038075	81	2.39	< 10	< 1	0.39	25	0.99	0.044	0.063	1.02	3	1	67	< 0.01	< 1	< 2	< 10	17	< 10	2	5	0.04	1.04
1228038225	80	2.11	< 10	< 1	0.36	18	0.56	0.044	0.010	1.74	4	1	49	< 0.01	< 1	< 2	< 10	13	< 10	2	13	0.03	1.75
1228038131	592	3.95	< 10	< 1	0.30	12	0.17	0.021	0.040	3.94	5	< 1	16	< 0.01	< 1	< 2	< 10	5	< 10	2	15	0.28	3.92
1226011219	374	3.13	< 10	< 1	0.26	12	0.95	0.110	0.040	1.79	3	2	63	0.06	< 1	< 2	< 10	19	< 10	3	21	0.38	1.81
1226011055	452	4.22	< 10	3	0.03	< 10	1.57	0.549	0.019	0.10	3	6	71	0.19	< 1	< 2	< 10	124	< 10	4	3	0.20	0.10
1228038274	92	2.49	10	< 1	0.35	22	1.04	0.050	0.060	1.14	5	2	62	< 0.01	< 1	< 2	< 10	20	< 10	2	9	0.09	1.20
1228038032	559	2.09	< 10	< 1	0.15	< 10	0.37	0.024	0.050	1.38	6	1	16	< 0.01	4	< 2	< 10	9	11	< 1	8	0.07	1.37
1226011202	476	4.06	< 10	< 1	0.22	22	1.61	0.127	0.055	2.28	4	3	148	0.02	< 1	< 2	< 10	28	< 10	3	17	0.27	2.42
1232011049	356	2.81	< 10	< 1	0.56	33	1.27	0.080	0.074	0.53	2	3	54	0.11	2	< 2	< 10	36	< 10	4	10	0.62	0.52
1228038069	168	2.71	< 10	< 1	0.40	11	0.10	0.035	0.022	2.98	4	< 1	34	< 0.01	< 1	< 2	< 10	7	< 10	1	16	0.08	2.99
1226011270	332	2.85	< 10	< 1	0.35	11	1.20	0.101	0.035	2.31	2	1	83	0.02	< 1	< 2	< 10	10	< 10	2	20	0.20	2.31
1226011230	335	3.29	< 10	< 1	0.30	11	1.03	0.185	0.037	2.71	3	1	151	0.01	< 1	< 2	< 10	12	< 10	2	16	0.23	2.73
1228038326	513	1.63	< 10	< 1	0.36	14	0.48	0.129	0.041	0.59	3	< 1	72	< 0.01	< 1	< 2	< 10	9	< 10	2	3	0.78	0.56
1228038038	569	4.32	< 10	< 1	0.28	< 10	0.13	0.034	0.023	4.67	9	< 1	29	< 0.01	< 1	< 2	< 10	6	< 10	1	14	0.20	4.58
1226011084	192	4.33	< 10	< 1	0.06	< 10	2.25	0.358	0.019	0.10	2	8	75	0.19	< 1	< 2	< 10	128	< 10	4	2	0.16	0.11
1226006117	350	2.68	10	< 1	0.27	12	1.16	0.140	0.036	0.74	2	2	115	0.03	2	< 2	< 10	18	< 10	2	13	0.31	0.73
V860662	13	3.15	< 10	< 1	0.24	15	0.46	0.172	0.046	0.04	< 2	3	51	0.30	2	< 2	< 10	60	< 10	17	9		
1227029016	432	5.59	< 10	1	0.29	< 10	1.20	0.108	0.070	4.64	3	9	38	0.04	3	< 2	< 10	113	< 10	8	9	0.41	5.10
1227029054	356	5.29	< 10	< 1	0.26	< 10	1.43	0.129	0.046	4.66	3	4	49	< 0.01	3	< 2	< 10	47	< 10	5	19	0.32	4.81
1226010062	351	1.81	< 10	< 1	0.20	16	0.45	0.067	0.057	0.30	3	1	84	0.02	< 1	< 2	< 10	12	< 10	2	1	0.20	0.30
1226005154	552	2.05	< 10	< 1	0.22	17	0.84	0.137	0.039	0.84	3	1	87	< 0.01	< 1	< 2	< 10	14	< 10	2	9	0.20	0.75
1226010096	439	2.10	< 10	< 1	0.20	14	0.71	0.131	0.044	0.41	2	1	153	0.02	< 1	< 2	< 10	14	< 10	2	3	0.39	0.39
1226010091	288	1.93	< 10	< 1	0.24	14	0.99	0.209	0.042	0.24	< 2	1	198	0.03	< 1	< 2	< 10	15	< 10	2	4	0.23	0.24
1226010005	328	2.32	< 10	< 1	0.21	15	0.96	0.117	0.045	0.58	2	1	147	0.02	< 1	< 2	< 10	15	< 10	2	4	0.22	0.53
1232011094	489	2.47	< 10	< 1	0.39	18	1.04	0.075	0.051	0.56	4	3	37	0.10	< 1	< 2	< 10	32	< 10	3	13	0.40	0.54
1232011109	447	2.77	< 10	< 1	0.52	23	1.19	0.087	0.064	0.78	3	3	49	0.12	3	< 2	< 10	38	< 10	4	15	0.57	0.75
1226010202	142	2.23	10	< 1	0.21	15	0.94	0.134	0.049	0.36	< 2	2	163	0.03	< 1	< 2	< 10	20	< 10	3	6	0.20	0.38
1226010107	391	2.30	< 10	< 1	0.20	16	0.96	0.155	0.051	0.40	2	1	190	< 0.01	2	< 2	< 10	14	< 10	3	2	0.21	0.40
1226011099	632	2.65	< 10	< 1	0.45	12	0.98	0.158	0.036	0.77	6	2	99	0.04	< 1	< 2	< 10	19	< 10	3	9	0.46	0.73
1226010169	211	2.28	10	< 1	0.21	16	0.83	0.140	0.050	0.47	< 2	1	246	0.04	< 1	< 2	< 10	17	< 10	3	8	0.27	0.47
1226010228	308	2.44	< 10	< 1	0.22	16	1.00	0.144	0.050	0.59	3	1	208	0.02	< 1	< 2	< 10	20	< 10	3	4	0.20	0.59
1226011093	216	4.14	< 10	< 1	0.04	< 10	1.51	0.555	0.020	0.10	< 2	6	71	0.18	< 1	< 2	< 10	126	< 10	4	3	0.05	0.10
1226010163	176	1.99	10	< 1	0.28	14	0.73	0.101	0.047	0.59	< 2	1	170	0.02	< 1	< 2	< 10	15	< 10	2	4	0.30	0.57

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226010111	317	2.29	10	< 1	0.26	16	0.89	0.151	0.048	0.37	2	1	243	0.02	< 1	< 2	< 10	18	< 10	3	4	0.26	0.36
1226010141	193	1.99	< 10	< 1	0.23	16	0.95	0.155	0.047	0.46	< 2	1	176	< 0.01	< 1	< 2	< 10	14	< 10	2	4	0.19	0.44
1226011145	478	4.38	< 10	2	0.04	< 10	1.77	0.490	0.019	0.10	4	6	68	0.21	< 1	< 2	< 10	124	< 10	4	3	0.29	0.09
1226011181	376	4.34	< 10	< 1	0.10	< 10	1.79	0.381	0.026	0.33	3	6	82	0.20	1	< 2	< 10	111	< 10	4	7	0.16	0.34
1232011064	408	2.64	< 10	< 1	0.42	21	1.06	0.069	0.055	0.68	2	2	40	0.11	3	< 2	< 10	31	< 10	3	16	0.51	0.64
V860663																							
1226012117	299	3.41	< 10	< 1	0.30	12	0.65	0.165	0.040	2.80	3	1	89	< 0.01	< 1	< 2	< 10	13	< 10	3	22	0.33	2.75

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	0.5	70	1040	1	22	93	132	6.32	230	< 10	732	0.9	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
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GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.5				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3				8.34																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						7.75																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2260	759	< 1	32	58	274	2.62	6		87	0.8	8	0.41	18
OREAS 922 (AQUA REGIA)								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 923 (AQUA REGIA) Meas								1.9	0.6	4540	861	< 1	30	79	359	2.63	7		66	0.7	20	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.7		> 10000				83	432						13		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							510																
OREAS 218 Cert							531																
OREAS 218 Meas							542																
OREAS 218 Cert							531																
OREAS 218 Meas							538																
OREAS 218 Cert							531																
OREAS 218 Meas							553																
OREAS 218 Cert							531																
OREAS 218 Meas							545																
OREAS 218 Cert							531																
Oreas 621 (Aqua Regia) Meas								69.4	295	3730	544	14	25	> 5000	> 10000	1.61	80			0.6	4	1.30	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										363	173	1	219	8	28	6.97			146	1.1	< 2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							2940																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3000																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3070																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1230501206 Orig																							
1230501206 Dup																							
1226002151 Orig							25																
1226002151 Dup							24																
1227021197 Orig								1.4	< 0.5	234	557	< 1	16	5	173	2.09	12	< 10	46	< 0.5	< 2	0.98	9
1227021197 Dup								1.0	< 0.5	243	555	< 1	17	4	173	2.10	11	< 10	48	< 0.5	< 2	0.98	9
1227021176 Orig																							
1227021176 Dup																							
1227021248 Orig							66																
1227021248 Dup							68																
1227021080 Orig								0.7	< 0.5	55	714	< 1	21	5	146	1.65	16	< 10	56	< 0.5	< 2	1.88	8
1227021080 Dup								0.7	< 0.5	55	702	1	22	6	140	1.62	14	< 10	57	< 0.5	3	1.85	8
1226005084 Orig																							
1226005084 Dup																							
1226005082 Orig							71																
1226005082 Dup							74																
1226005010 Orig																							
1226005010 Dup																							
1226013178 Orig								0.4	< 0.5	74	404	1	17	4	132	2.05	6	< 10	19	< 0.5	4	1.10	8
1226013178 Dup								0.5	< 0.5	76	408	1	22	3	130	2.05	6	< 10	24	< 0.5	3	1.10	8
1226013207 Orig							110																
1226013207 Dup							126																
1226013002 Orig	65.8	25.7	-40.1	77.8	0.331																		
1226013002 Dup	65.8	25.8	-40.1	77.8	0.331																		
1226013231 Orig																							
1226013231 Dup																							
1226005024 Orig								< 0.2	< 0.5	69	423	< 1	14	< 2	57	2.59	8	21	39	< 0.5	< 2	1.41	8
1226005024 Dup								0.2	< 0.5	70	421	< 1	13	< 2	58	2.53	9	20	38	< 0.5	4	1.40	8
1226013198 Orig							207																
1226013198 Dup							203																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226005146 Orig																							
1226005146 Dup																							
1232011059 Orig							26																
1232011059 Dup							25																
1226011219 Orig																							
1226011219 Dup																							
1226011055 Orig						9.05																	
1226011055 Dup						9.09																	
1226011202 Orig								0.4	< 0.5	95	617	< 1	33	9	69	3.59	10	17	38	< 0.5	3	1.82	11
1226011202 Dup								0.4	< 0.5	94	605	< 1	34	9	68	3.52	10	17	38	< 0.5	4	1.90	11
1226011270 Orig							49																
1226011270 Dup							54																
1228038038 Orig																							
1228038038 Dup																							
1226005154 Orig							14																
1226005154 Dup							16																
1226010096 Orig								< 0.2	< 0.5	23	351	2	18	11	92	3.09	5	< 10	56	< 0.5	< 2	1.54	8
1226010096 Dup								< 0.2	< 0.5	24	351	2	18	11	94	3.10	4	< 10	55	< 0.5	< 2	1.53	7
1232011109 Orig																							
1232011109 Dup																							
1226010107 Orig	8.74	8.62	-0.122	12.3	0.704																		
1226010107 Dup	8.74	8.60	-0.141	12.3	0.702																		
1226010228 Orig							6																
1226010228 Dup							7																
1226010141 Orig								< 0.2	< 0.5	22	426	1	12	10	99	3.38	4	< 10	63	< 0.5	< 2	1.79	7
1226010141 Dup								< 0.2	< 0.5	22	424	1	12	10	98	3.35	10	< 10	61	< 0.5	< 2	1.78	8
1226011145 Orig																							
1226011145 Dup																							
1226011181 Orig							30																
1226011181 Dup							35																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	84	5.57	20	< 1	1.09	< 10	0.40	0.074	0.034	0.01	4	21	30		< 1	< 2	< 10	172	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
SGR-1b Meas																						27.9	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.46
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.47
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.49

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.51
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.51
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.52
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	49	5.18	< 10		0.49	35	1.36	0.029	0.062	0.37	3	4	17			< 2	< 10	37	< 10	20	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	45	5.83	< 10		0.41	32	1.45		0.061	0.68	4	4	15			< 2	< 10	36	< 10	18	30		
OREAS 923	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.81	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	36	3.39	10	4	0.38	17	0.45	0.159	0.034	4.31	120	2	16			< 2	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	375	13.8	20	< 1	0.12	10	0.19	0.042	0.021	0.02		29	16	0.12		< 2	< 10	210		5	16		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.31
GS316-3 Cert																						0.0600	0.340
1230501206 Orig																						0.34	1.53
1230501206 Dup																						0.35	1.53
1226002151 Orig																							
1226002151 Dup																							
1227021197 Orig	254	2.70	< 10	< 1	0.24	15	1.28	0.161	0.043	1.37	3	1	61	< 0.01	< 1	< 2	< 10	13	< 10	3	17		
1227021197 Dup	249	2.71	< 10	< 1	0.24	14	1.26	0.161	0.043	1.37	4	1	61	0.01	< 1	< 2	< 10	14	< 10	3	17		
1227021176 Orig																						0.71	1.60
1227021176 Dup																						0.70	1.50
1227021248 Orig																							
1227021248 Dup																							
1227021080 Orig	480	2.61	< 10	< 1	0.27	13	1.02	0.107	0.043	1.16	3	1	51	0.03	< 1	< 2	< 10	16	< 10	3	7		
1227021080 Dup	476	2.56	< 10	< 1	0.27	13	1.00	0.107	0.042	1.14	4	1	51	0.03	< 1	< 2	< 10	16	< 10	3	7		
1226005084 Orig																						0.72	1.03
1226005084 Dup																						0.72	1.06
1226005082 Orig																							
1226005082 Dup																							
1226005010 Orig																						0.44	0.80
1226005010 Dup																						0.43	0.81
1226013178 Orig	260	2.70	< 10	< 1	0.21	18	1.18	0.198	0.051	2.70	< 2	1	84	< 0.01	< 1	< 2	< 10	12	< 10	3	20		
1226013178 Dup	259	2.72	< 10	< 1	0.21	19	1.17	0.198	0.052	2.69	3	1	86	< 0.01	2	< 2	< 10	12	< 10	3	26		
1226013207 Orig																							
1226013207 Dup																							
1226013002 Orig																							
1226013002 Dup																							
1226013231 Orig																						0.30	2.16
1226013231 Dup																						0.30	2.14
1226005024 Orig	283	2.73	< 10	< 1	0.27	13	1.16	0.078	0.039	1.01	< 2	1	79	< 0.01	< 1	< 2	< 10	18	< 10	2	7		
1226005024 Dup	274	2.68	< 10	< 1	0.26	12	1.15	0.077	0.039	0.98	2	1	77	< 0.01	< 1	< 2	< 10	17	< 10	2	7		
1226013198 Orig																							
1226013198 Dup																							
1226005146 Orig																						0.24	1.62
1226005146 Dup																						0.23	1.59
1232011059 Orig																							
1232011059 Dup																							
1226011219 Orig																						0.37	1.78
1226011219 Dup																						0.38	1.85
1226011055 Orig																							
1226011055 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226011202 Orig	479	4.09	10	2	0.22	22	1.62	0.128	0.055	2.23	4	3	148	0.02	< 1	< 2	< 10	28	< 10	3	18		
1226011202 Dup	474	4.04	< 10	< 1	0.22	22	1.60	0.125	0.054	2.33	4	3	147	0.02	< 1	< 2	< 10	27	< 10	3	17		
1226011270 Orig																							
1226011270 Dup																							
1228038038 Orig																						0.21	4.57
1228038038 Dup																						0.20	4.59
1226005154 Orig																							
1226005154 Dup																							
1226010096 Orig	443	2.10	< 10	< 1	0.20	14	0.71	0.131	0.045	0.41	3	1	154	0.02	< 1	< 2	< 10	14	< 10	2	3		
1226010096 Dup	435	2.10	< 10	< 1	0.20	14	0.71	0.131	0.044	0.41	2	1	153	0.02	< 1	< 2	< 10	14	< 10	2	3		
1232011109 Orig																						0.57	0.74
1232011109 Dup																						0.57	0.76
1226010107 Orig																							
1226010107 Dup																							
1226010228 Orig																							
1226010228 Dup																							
1226010141 Orig	194	2.00	< 10	< 1	0.23	16	0.95	0.157	0.046	0.46	< 2	1	176	< 0.01	< 1	< 2	< 10	14	< 10	2	3		
1226010141 Dup	193	1.99	< 10	< 1	0.23	16	0.95	0.153	0.047	0.46	2	1	175	< 0.01	< 1	< 2	< 10	14	< 10	2	5		
1226011145 Orig																						0.29	0.09
1226011145 Dup																						0.28	0.10
1226011181 Orig																							
1226011181 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-03947**
Report Date:	**13-May-20**
Date Submitted:	**03-Apr-20**
Your Reference:	**2020 Feb_Mar_check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek	Acid Base Accounting	2020-04-23 11:34:53
4F-C, S	Infrared	2020-04-30 09:12:36

REPORT **A20-03947**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Report No.: **A20-03947**
Report Date: **13-May-20**
Date Submitted: **03-Apr-20**
Your Reference: **2020 Feb_Mar_check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-04-14 07:20:47
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-04-22 16:31:07

REPORT **A20-03947**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226012204	22.9	6.86	-16.0	26.3	0.261	8.80	29	< 0.2	< 0.5	30	489	< 1	14	5	86	3.23	11	< 10	83	< 0.5	< 2	1.36	8
1226012213	54.1	7.98	-46.1	59.4	0.134	8.57	339	1.0	< 0.5	222	459	3	17	3	52	3.07	9	< 10	57	< 0.5	< 2	1.70	8
1226012243	20.2	8.24	-12.0	24.2	0.340	8.72	85	0.3	< 0.5	55	649	1	11	7	222	2.82	15	< 10	87	< 0.5	< 2	1.58	8
1226012222	53.7	16.1	-37.6	61.3	0.263	8.77	97	0.6	< 0.5	131	523	4	16	< 2	76	1.64	10	< 10	52	< 0.5	3	1.12	8
1226012299	42.2	13.4	-28.8	49.3	0.271	9.08	297	0.7	< 0.5	157	441	3	16	< 2	106	2.05	9	< 10	62	< 0.5	< 2	1.34	9
1226003127	41.9	48.4	6.57	52.4	0.925	9.12	227	4.2	2.1	167	1220	< 1	13	37	458	1.94	44	< 10	47	< 0.5	< 2	1.91	41
1226003406	46.0	59.3	13.2	59.4	0.997	8.96	78	1.1	0.7	41	1070	< 1	9	55	194	2.04	27	< 10	52	< 0.5	< 2	2.11	7
1226012172	23.2	4.62	-18.6	29.1	0.159	8.77	630	1.3	< 0.5	262	520	3	11	9	110	3.05	10	< 10	94	< 0.5	< 2	1.03	7
1226003098	18.3	40.1	21.8	29.4	1.37	8.89	210	2.5	1.6	52	787	< 1	12	57	396	1.87	48	< 10	48	< 0.5	< 2	1.68	7
1226003042	48.5	73.5	24.9	57.6	1.28	8.97	525	1.2	1.4	26	1000	< 1	9	36	366	1.48	32	< 10	56	< 0.5	< 2	2.24	6
1226003404	38.1	41.5	3.35	50.5	0.820	8.91	66	0.5	< 0.5	25	1230	< 1	9	26	131	1.69	72	< 10	53	< 0.5	< 2	2.07	6
1226003194	37.4	51.1	13.7	50.5	1.01	9.18	350	1.9	1.5	36	1300	< 1	10	49	422	1.57	65	< 10	56	< 0.5	< 2	2.43	7
1226003001	41.5	46.4	4.84	51.1	0.907	8.80	71	0.6	< 0.5	25	738	< 1	10	10	90	2.10	22	< 10	61	< 0.5	< 2	2.06	7
1226003084	43.3	53.1	9.75	53.0	1.00	9.00	199	1.3	0.6	32	969	< 1	10	27	197	2.00	32	< 10	50	< 0.5	< 2	2.17	7
1226003135	54.4	36.1	-18.3	63.4	0.569	8.91	189	1.9	0.8	37	1330	< 1	10	68	222	1.75	41	< 10	45	< 0.5	< 2	2.11	7
1226003049	34.2	56.1	21.9	40.1	1.40	8.89	83	0.4	< 0.5	35	772	< 1	9	10	103	2.04	24	< 10	69	< 0.5	< 2	2.28	7
1226003160	55.4	27.3	-28.1	62.5	0.436	9.06	198	1.4	1.1	77	794	1	14	10	268	1.98	18	< 10	52	< 0.5	< 2	1.49	9
1226003189	50.1	59.8	9.73	59.1	1.01	9.00	474	8.1	7.2	210	1380	< 1	9	170	1570	1.53	62	< 10	45	< 0.5	< 2	2.17	7
V860651							1630	9.8	< 0.5	52	336	20	12	6	49	1.31	< 2	< 10	83	< 0.5	< 2	1.05	13
1434001048	162	60.4	-102	203	0.297	8.19	677	3.4	1.6	34	1380	< 1	17	3	351	1.61	80	< 10	22	< 0.5	< 2	2.60	19
1227023427	29.5	7.25	-22.2	45.0	0.161	8.89	88	0.2	< 0.5	31	214	1	13	4	54	2.16	7	< 10	50	< 0.5	< 2	0.72	8
1227023536	14.4	8.50	-5.86	19.6	0.434	8.90	68	0.2	0.6	61	392	1	11	8	156	3.58	7	< 10	45	< 0.5	< 2	1.46	5
1228036004	38.0	21.7	-16.3	47.2	0.460	8.78	48	0.9	< 0.5	79	604	< 1	22	2	98	1.66	10	< 10	59	< 0.5	2	1.08	9
1228036040	20.3	98.6	78.3	28.8	3.43	8.84	29	0.9	< 0.5	96	819	< 1	149	3	122	2.32	5	< 10	74	< 0.5	< 2	3.40	17
1434001028	54.2	44.7	-9.50	71.4	0.627	8.30	56	0.6	1.0	32	1450	< 1	14	< 2	242	3.56	14	< 10	41	< 0.5	< 2	2.86	23
1233001307	3.75	15.2	11.5	3.67	4.14	8.90	< 5	< 0.2	< 0.5	140	520	< 1	48	< 2	46	4.85	< 2	< 10	19	< 0.5	< 2	4.04	21
1434001007	16.3	44.2	27.9	22.4	1.98	8.70	101	0.3	< 0.5	32	613	< 1	34	4	87	1.84	10	< 10	56	< 0.5	< 2	2.18	14
1233001338	23.7	27.7	3.94	28.5	0.972	8.74	28	0.8	< 0.5	36	724	2	38	3	133	2.32	11	< 10	75	< 0.5	< 2	2.03	14
1227023417	40.7	7.97	-32.7	45.3	0.176	8.67	210	0.4	< 0.5	56	557	< 1	14	< 2	227	2.26	13	< 10	56	< 0.5	4	0.51	8
1228037221	42.6	15.1	-27.5	47.5	0.318	8.87	82	0.7	< 0.5	51	598	2	14	17	66	1.86	7	< 10	61	< 0.5	3	1.30	7
1228037192	49.7	21.4	-28.3	58.2	0.367	8.83	421	1.8	< 0.5	354	613	< 1	12	11	129	2.08	12	< 10	54	< 0.5	3	1.27	6
1233001312	9.58	9.12	-0.458	12.9	0.709	8.76	56	0.5	1.0	42	470	1	26	3	246	1.80	7	< 10	63	< 0.5	< 2	1.17	10
1233001453	13.0	25.3	12.3	18.4	1.38	9.17	19	0.3	1.3	41	636	< 1	20	< 2	420	1.95	7	< 10	59	< 0.5	< 2	1.72	10
1228037174	17.3	24.6	7.30	25.1	0.979	8.87	93	2.3	7.5	160	831	1	18	4	1520	2.05	11	< 10	68	< 0.5	< 2	1.45	9
1228037135	34.4	21.8	-12.5	41.7	0.524	8.88	92	0.9	3.2	37	783	< 1	14	8	855	2.57	18	< 10	53	< 0.5	< 2	1.77	9
1227022106	29.8	3.37	-26.4	34.6	0.0974	8.75	81	0.2	< 0.5	42	431	< 1	11	2	190	2.15	8	17	59	< 0.5	< 2	1.05	7
1228037407	17.8	39.0	21.2	23.3	1.68	8.85	94	0.3	< 0.5	37	654	< 1	18	2	79	2.09	6	< 10	74	< 0.5	< 2	2.18	8
V860652							959	2.4	< 0.5	59	399	10	16	6	52	1.43	< 2	< 10	84	< 0.5	< 2	1.26	15
1228037604	40.4	104	63.2	53.6	1.93	8.70	105	0.8	1.5	90	815	< 1	166	< 2	398	2.92	14	< 10	72	< 0.5	3	3.59	21
1233001361	3.01	13.1	10.1	7.66	1.71	8.86	17	< 0.2	< 0.5	76	460	< 1	41	< 2	57	2.65	< 2	< 10	46	< 0.5	< 2	2.26	17
1228037114	26.9	17.4	-9.51	33.7	0.515	8.99	128	1.2	1.6	73	702	< 1	15	13	380	2.68	14	< 10	55	< 0.5	< 2	1.77	7
1228037253	23.7	38.4	14.7	33.1	1.16	9.04	170	1.0	< 0.5	148	740	< 1	100	3	92	1.92	10	< 10	71	< 0.5	< 2	2.99	15
1233001524	8.74	20.5	11.8	13.5	1.52	9.27	5	< 0.2	< 0.5	11	506	3	50	4	93	2.22	13	< 10	75	< 0.5	< 2	1.72	8
1233001365	15.8	16.3	0.422	19.3	0.842	8.81	20	0.2	< 0.5	38	651	< 1	51	11	99	2.03	7	< 10	81	< 0.5	< 2	1.59	14
1227024006	40.4	2.62	-37.8	45.0	0.0583	8.79	721	0.9	< 0.5	178	468	< 1	13	3	137	1.84	16	< 10	45	< 0.5	3	0.21	7
1227024176	35.9	11.6	-24.3	39.8	0.292	8.80	67	0.3	< 0.5	19	198	1	13	< 2	118	1.87	7	14	54	< 0.5	< 2	0.86	8
1227024027	3.13	14.1	11.0	3.06	4.61	9.06	38	< 0.2	< 0.5	20	450	5	21	3	155	3.32	5	15	48	< 0.5	< 2	1.75	6
1227024148	17.9	16.2	-1.68	22.4	0.726	9.33	71	< 0.2	< 0.5	20	703	< 1	12	4	134	2.24	12	< 10	85	< 0.5	< 2	1.28	8
1233001547	6.45	14.6	8.15	9.80	1.49	9.65	< 5	< 0.2	< 0.5	14	374	< 1	20	< 2	83	2.69	7	< 10	100	< 0.5	< 2	1.73	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227024024	27.8	11.6	-16.2	31.9	0.364	8.90	189	< 0.2	< 0.5	53	287	3	15	< 2	91	2.33	5	12	43	< 0.5	< 2	0.84	10
1233001337	17.9	30.5	12.6	23.0	1.33	8.81	28	0.9	0.7	22	705	1	69	4	241	2.32	10	< 10	71	< 0.5	< 2	2.14	20
1227024085	50.3	17.9	-32.4	59.1	0.303	8.65	334	0.9	0.6	90	472	< 1	15	4	209	2.04	21	< 10	50	< 0.5	7	0.94	9
1227024180	58.0	15.0	-43.1	66.5	0.225	8.84	761	3.4	< 0.5	35	454	< 1	17	4	133	2.24	25	< 10	49	< 0.5	8	0.69	12
1227024236	42.3	13.3	-29.0	49.6	0.269	8.86	181	3.7	< 0.5	27	556	< 1	11	3	205	1.99	22	11	59	< 0.5	7	0.74	7
1227024138	84.4	9.50	-74.9	91.6	0.104	8.52	347	1.1	1.4	105	440	1	25	6	370	1.79	30	< 10	28	< 0.5	4	0.77	12
1227024040	66.2	7.85	-58.4	76.6	0.102	8.92	2890	1.7	< 0.5	296	387	< 1	13	5	105	2.10	22	< 10	42	< 0.5	9	0.54	9
1227024117	35.3	12.2	-23.1	41.7	0.293	9.00	395	3.6	< 0.5	78	350	1	13	5	128	1.86	20	< 10	64	< 0.5	7	0.62	9
1227024178	45.0	11.5	-33.5	50.8	0.226	8.58	142	0.5	2.3	21	226	2	17	2	348	1.85	14	17	50	< 0.5	2	0.88	9
1227024287	36.4	18.2	-18.3	46.5	0.391	8.71	158	8.7	2.4	207	557	1	16	5	658	1.71	25	10	27	< 0.5	5	1.20	6
V860653							786	3.1	< 0.5	33	259	13	11	15	41	1.08	< 2	< 10	62	< 0.5	< 2	1.91	8
1226012046	56.9	11.8	-45.1	68.3	0.172	8.73	149	1.4	2.6	75	470	< 1	12	5	690	2.97	16	< 10	44	< 0.5	< 2	1.36	7
1226012016	86.4	8.59	-77.8	99.8	0.0861	8.43	249	2.4	6.1	98	421	< 1	11	4	1540	2.34	38	< 10	23	< 0.5	< 2	1.07	9
1233001598	6.04	16.8	10.8	9.19	1.83	9.47	5	< 0.2	< 0.5	63	524	< 1	16	9	108	2.47	5	< 10	94	< 0.5	< 2	1.65	7
1227027064	34.5	4.62	-29.9	39.5	0.117	8.68	34	< 0.2	< 0.5	40	188	2	10	5	27	1.90	12	15	56	< 0.5	< 2	0.59	6
1433099067	13.8	124	110	25.4	4.88	8.91	88	1.0	1.0	87	1460	< 1	111	3	365	4.94	19	< 10	80	< 0.5	< 2	4.78	36
1226012095	54.1	19.0	-35.1	65.2	0.291	8.78	228	0.8	0.8	126	536	< 1	12	4	231	3.05	10	< 10	46	< 0.5	2	1.82	7
1226012125	58.3	12.1	-46.2	66.8	0.181	8.54	887	1.6	< 0.5	312	482	3	18	6	92	2.93	10	< 10	54	< 0.5	5	1.52	8
1227027070	26.1	17.4	-8.70	30.0	0.581	8.76	36	0.5	< 0.5	17	272	2	11	5	125	2.16	4	18	59	0.6	3	1.07	7
1227027062	21.7	3.37	-18.3	27.6	0.122	8.87	4170	0.6	< 0.5	114	338	3	9	5	68	2.26	6	24	51	< 0.5	2	1.01	8
1433099080	59.0	104	44.5	76.6	1.35	8.75	284	2.7	1.7	66	1030	< 1	101	12	261	4.76	10	< 10	40	< 0.5	< 2	4.74	31
1226012157	45.8	30.3	-15.6	53.6	0.565	8.60	744	1.4	< 0.5	277	705	4	19	< 2	80	2.53	10	< 10	54	< 0.5	2	1.60	8
1226012003	61.3	6.12	-55.2	74.7	0.0819	8.76	69	0.8	3.3	126	397	< 1	10	6	848	2.71	13	< 10	31	< 0.5	< 2	0.83	8
1233001539	7.28	26.5	19.2	12.9	2.06	9.66	7	< 0.2	< 0.5	13	676	< 1	19	5	183	1.56	4	< 10	96	< 0.5	< 2	1.28	6
1226012182	52.5	9.36	-43.1	61.3	0.153	8.64	1020	1.5	< 0.5	346	472	4	12	2	87	2.62	12	< 10	47	< 0.5	3	1.42	7
V860654							1170	4.1	< 0.5	23	138	6	5	< 2	25	0.53	< 2	< 10	23	< 0.5	2	0.56	4
1227024098	16.7	10.7	-5.93	22.4	0.480	9.42	121	0.3	< 0.5	16	771	< 1	13	< 2	186	2.28	10	< 10	95	< 0.5	< 2	0.98	9
1227024069	22.4	12.6	-9.75	27.6	0.459	8.98	210	0.2	< 0.5	51	363	2	14	4	102	2.60	12	12	87	< 0.5	< 2	1.16	12
1227024334	95.5	34.0	-61.4	118	0.289	8.67	184	4.0	0.5	104	697	< 1	30	2	279	2.21	31	< 10	24	< 0.5	9	1.38	20
1227024293	33.3	11.1	-22.2	38.0	0.292	8.96	70	1.0	0.8	19	557	< 1	13	< 2	274	1.73	10	< 10	62	< 0.5	< 2	0.63	7
1227024321	44.3	13.1	-31.2	50.5	0.259	8.79	136	2.2	0.6	10	632	1	14	2	190	1.93	15	< 10	57	< 0.5	< 2	0.70	9
1226012079	66.0	24.5	-41.6	74.7	0.328	8.77	95	1.0	2.1	96	498	< 1	11	3	438	2.02	20	< 10	40	< 0.5	3	1.36	7
1227027019	22.2	29.1	6.95	27.0	1.08	8.88	42	0.2	0.9	41	545	< 1	9	< 2	290	2.23	7	24	78	< 0.5	< 2	1.67	7
1226012060	36.4	10.4	-26.0	70.1	0.148	8.67	164	1.0	3.1	90	505	1	13	4	806	3.11	10	< 10	49	< 0.5	< 2	1.57	7
1233001542	2.90	20.0	17.1	15.0	1.33	9.41	< 5	0.2	< 0.5	41	525	2	68	< 2	103	1.72	7	< 10	70	< 0.5	< 2	1.18	12
1233001567	8.01	29.8	21.7	16.5	1.80	9.47	10	0.2	1.8	25	744	< 1	71	< 2	523	2.28	6	< 10	123	< 0.5	< 2	1.81	13
1227024281	40.6	23.2	-17.4	56.0	0.415	8.74	133	2.6	1.5	66	499	< 1	9	2	441	1.77	30	11	22	< 0.5	3	1.17	7
1226012071	74.5	15.8	-58.7	84.8	0.186	8.39	239	0.6	< 0.5	51	423	< 1	14	6	135	2.23	11	< 10	38	< 0.5	3	1.24	7
1226012119	52.4	11.1	-41.3	61.3	0.181	8.57	1290	4.1	< 0.5	275	431	4	14	< 2	48	2.44	8	< 10	45	< 0.5	3	1.05	7
V860655							955	2.4	< 0.5	59	407	10	15	10	55	1.40	< 2	< 10	83	< 0.5	< 2	1.27	15
1226003181	42.4	32.2	-10.2	53.3	0.605	8.79	196	1.2	0.8	42	870	< 1	19	17	228	2.21	24	< 10	57	< 0.5	< 2	1.69	9
1226003063	40.2	46.0	5.82	54.2	0.849	8.96	123	1.1	3.2	105	835	1	13	16	775	1.79	22	< 10	51	< 0.5	< 2	1.96	7
1226003116	67.2	22.4	-44.8	77.8	0.288	8.70	124	1.1	2.3	67	614	1	13	6	561	2.33	14	< 10	38	< 0.5	< 2	1.13	8
1226003212	55.2	15.6	-39.6	63.7	0.245	8.89	85	0.6	1.0	30	502	1	14	4	333	1.87	10	< 10	47	< 0.5	< 2	1.27	7
1433099218	0.0912	71.0	70.9	8.57	8.28	9.28	9	< 0.2	< 0.5	22	591	< 1	28	7	72	2.52	6	< 10	131	< 0.5	< 2	3.25	10
1433099032	44.8	122	76.8	69.8	1.74	8.82	492	2.4	< 0.5	85	1340	< 1	132	< 2	279	3.81	17	< 10	29	< 0.5	< 2	4.10	39
1226012240	13.1	13.6	0.471	20.5	0.662	8.85	106	< 0.2	< 0.5	38	591	1	14	4	81	2.96	15	< 10	69	< 0.5	< 2	1.54	7
1226012332	54.8	21.2	-33.6	65.8	0.322	8.71	212	0.6	0.8	130	579	4	15	2	251	1.42	13	< 10	29	< 0.5	< 2	1.10	8
1226003012	46.1	43.5	-2.67	58.2	0.747	9.01	138	1.3	0.7	35	919	< 1	10	45	234	1.95	30	< 10	47	< 0.5	< 2	1.88	7

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227024263	118	40.7	-77.5	140	0.291	8.75	283	3.8	11.4	119	697	< 1	63	7	2960	2.51	37	< 10	20	< 0.5	< 2	2.04	53
1226003072	60.6	22.9	-37.8	72.3	0.316	8.84	168	1.4	5.6	144	797	1	14	5	1400	2.13	9	< 10	38	< 0.5	< 2	1.21	8
1227024149	18.3	34.6	16.3	25.1	1.38	9.17	80	0.3	0.7	20	706	1	16	3	184	2.52	13	< 10	92	< 0.5	< 2	1.85	7
1226012268	32.8	15.2	-17.6	40.1	0.379	8.81	59	0.3	0.8	27	579	< 1	14	9	248	2.86	8	< 10	70	< 0.5	< 2	1.71	7
1433099018	15.2	80.9	65.7	25.1	3.22	8.79	43	0.5	< 0.5	39	870	< 1	81	6	180	2.63	9	< 10	45	< 0.5	< 2	3.03	25
1226003187	46.1	61.3	15.2	59.7	1.03	9.05	137	2.2	< 0.5	22	1120	< 1	12	35	167	1.70	32	< 10	45	< 0.5	< 2	2.32	7
V860656							1550	10.0	< 0.5	52	347	19	14	5	54	1.32	< 2	< 10	81	< 0.5	< 2	1.12	12
1226002221	51.6	18.5	-33.1	63.7	0.291	8.64	772	1.2	10.6	92	837	< 1	13	27	2530	1.94	74	< 10	44	< 0.5	< 2	0.98	8
1227027114	35.6	11.3	-24.4	42.0	0.268	8.77	13	< 0.2	< 0.5	18	224	2	12	4	30	1.97	7	17	60	< 0.5	< 2	0.73	6
1227027119	18.2	25.9	7.66	23.6	1.10	8.85	28	0.4	< 0.5	30	404	< 1	11	31	93	1.85	11	12	64	< 0.5	< 2	1.07	7
1227027100	19.0	15.3	-3.61	23.6	0.650	8.85	150	0.3	< 0.5	31	299	3	15	4	89	2.02	8	17	73	< 0.5	< 2	1.10	8
1226012274	21.3	6.85	-14.5	26.3	0.260	8.61	337	0.5	< 0.5	101	611	2	19	5	97	2.24	15	< 10	54	< 0.5	< 2	1.44	8
1226002057	50.1	17.3	-32.8	60.3	0.287	8.68	453	3.2	1.9	59	917	2	15	54	438	1.59	26	< 10	42	< 0.5	< 2	1.53	8
1226012309	28.3	17.7	-10.6	33.4	0.530	8.77	78	0.3	< 0.5	38	574	< 1	14	9	190	1.94	8	< 10	50	< 0.5	< 2	1.34	6
1226002059	57.5	42.8	-14.7	65.2	0.656	8.86	887	15.1	2.9	134	1330	< 1	15	452	753	0.82	71	< 10	33	< 0.5	< 2	1.80	8
1226002188	45.0	21.9	-23.1	53.6	0.408	8.88	394	3.1	3.6	66	763	< 1	13	83	845	2.50	39	< 10	47	< 0.5	< 2	1.77	8
1226002198	45.4	28.5	-16.9	53.9	0.529	8.84	408	2.8	3.6	66	841	< 1	15	95	840	2.46	58	< 10	44	< 0.5	< 2	1.94	8
1226002031	48.2	9.96	-38.3	56.7	0.176	8.71	1880	5.5	1.9	45	954	2	21	54	444	1.51	26	< 10	48	< 0.5	< 2	1.80	8
1226002009	8.32	37.0	28.7	15.0	2.47	8.99	18	0.3	< 0.5	49	336	3	13	7	206	2.52	13	< 10	65	< 0.5	< 2	1.37	12
1226002017	6.87	43.9	37.0	13.2	3.33	8.93	22	< 0.2	< 0.5	28	424	< 1	31	6	66	2.92	6	< 10	80	< 0.5	< 2	2.43	11
1226002092	19.4	8.50	-10.9	23.6	0.360	8.76	18	< 0.2	< 0.5	9	424	< 1	10	4	48	3.00	13	< 10	57	< 0.5	< 2	1.32	7
1226002040	7.08	10.9	3.79	11.0	0.986	8.92	64	0.2	< 0.5	33	486	< 1	14	6	70	3.34	2	< 10	60	< 0.5	< 2	1.92	7
1230501130	22.8	16.0	-6.85	28.8	0.554	8.86	146	0.6	1.7	32	814	< 1	14	6	505	2.66	17	< 10	56	< 0.5	< 2	1.80	8
1230501138	40.3	17.1	-23.2	46.2	0.370	8.86	77	0.5	0.6	59	694	< 1	23	4	214	1.75	22	< 10	44	< 0.5	< 2	1.15	10
1226002127	57.8	68.4	10.6	67.4	1.02	8.90	470	8.7	1.9	56	1400	< 1	14	229	494	1.41	41	< 10	40	< 0.5	< 2	2.89	7
V860657							748	3.0	< 0.5	35	274	14	13	33	48	1.09	2	< 10	61	< 0.5	< 2	2.11	9
1226013016	75.4	8.10	-67.3	83.3	0.0972	8.76	37	0.5	< 0.5	24	318	< 1	14	4	166	1.64	4	< 10	28	< 0.5	5	0.74	10
1227028029	179	15.1	-164	194	0.0775	8.30	205	2.8	1.3	116	713	< 1	47	4	381	1.87	34	< 10	13	< 0.5	11	0.89	33
1227028013	30.8	40.5	9.70	36.1	1.12	9.24	87	2.8	< 0.5	7	653	< 1	9	5	127	1.94	12	< 10	69	< 0.5	< 2	1.38	5
1227028039	87.9	13.0	-74.9	95.6	0.136	8.58	104	1.4	< 0.5	42	516	1	27	4	188	1.46	34	< 10	28	< 0.5	6	0.82	18
1227028118	35.0	15.6	-19.4	41.7	0.373	8.81	67	0.5	< 0.5	41	606	2	18	3	116	3.07	21	17	62	< 0.5	< 2	1.65	9
1226013095	50.9	9.61	-41.3	57.3	0.168	8.79	996	0.9	< 0.5	172	472	3	16	3	90	1.88	10	< 10	45	< 0.5	< 2	0.77	8
1227028128	35.0	10.3	-24.6	40.1	0.258	8.83	53	0.6	< 0.5	18	529	< 1	15	4	128	2.37	19	14	65	< 0.5	< 2	1.00	9
1227028028	160	18.4	-142	164	0.112	8.30	161	2.5	0.9	28	677	1	49	4	161	1.87	26	< 10	13	< 0.5	12	1.03	39
1227028144	45.9	10.7	-35.2	55.4	0.193	8.83	54	0.8	1.8	52	507	< 1	19	3	483	1.74	16	< 10	47	< 0.5	3	0.92	6
1227028078	36.1	8.61	-27.5	42.3	0.204	8.77	110	2.2	0.7	21	644	1	18	5	265	2.18	25	< 10	60	< 0.5	< 2	1.01	8
1226013064	77.9	8.11	-69.8	86.4	0.0939	8.70	83	0.9	2.2	88	401	1	18	2	527	1.75	16	< 10	28	< 0.5	3	0.65	9
1228050033	19.9	37.4	17.5	25.7	1.45	9.03	90	0.4	0.9	38	861	< 1	16	< 2	281	2.07	14	< 10	75	< 0.5	< 2	1.95	8
1227028113	45.7	9.11	-36.6	53.3	0.171	8.85	148	2.6	5.0	88	648	< 1	21	7	1590	2.07	36	< 10	47	< 0.5	2	0.76	11
1226013007	30.6	20.0	-10.6	35.5	0.562	8.91	86	< 0.2	< 0.5	45	512	1	15	< 2	91	1.62	5	< 10	62	< 0.5	< 2	1.32	7
1227028082	43.3	7.36	-36.0	54.8	0.134	8.76	134	4.0	2.9	15	560	2	18	2	931	1.71	17	< 10	48	< 0.5	< 2	0.61	9
1226013004	17.1	15.7	-1.34	22.0	0.714	9.05	45	< 0.2	0.7	26	641	< 1	18	< 2	266	1.96	4	< 10	87	< 0.5	< 2	1.32	7

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226012204	126	2.20	< 10	< 1	0.29	14	0.88	0.145	0.046	0.91	2	1	115	< 0.01	< 1	< 2	< 10	14	< 10	2	14	0.22	0.86
1226012213	291	3.05	< 10	< 1	0.28	13	0.79	0.292	0.039	1.96	2	< 1	157	0.03	< 1	< 2	< 10	14	< 10	2	16	0.27	1.94
1226012243	118	2.11	< 10	< 1	0.32	16	0.84	0.145	0.046	0.80	< 2	1	80	< 0.01	< 1	< 2	< 10	12	< 10	2	14	0.23	0.79
1226012222	259	2.80	< 10	< 1	0.25	14	0.89	0.145	0.038	2.05	2	2	69	0.04	3	< 2	< 10	19	< 10	3	18	0.34	2.00
1226012299	210	2.87	< 10	< 1	0.31	10	0.82	0.211	0.033	1.63	3	2	72	0.08	< 1	< 2	< 10	49	< 10	3	14	0.24	1.61
1226003127	151	2.04	< 10	< 1	0.28	13	1.12	0.102	0.040	1.79	3	< 1	53	< 0.01	1	< 2	< 10	9	> 200	1	15	0.85	1.71
1226003406	75	2.13	< 10	< 1	0.42	< 10	1.13	0.086	0.042	2.00	< 2	1	61	< 0.01	< 1	< 2	< 10	9	< 10	1	10	1.02	1.94
1226012172	110	2.98	< 10	< 1	0.28	14	1.00	0.112	0.041	1.02	< 2	1	119	0.01	5	< 2	< 10	14	< 10	2	13	0.05	0.95
1226003098	104	2.13	< 10	< 1	0.27	11	1.13	0.081	0.038	2.05	3	< 1	43	< 0.01	< 1	< 2	< 10	8	< 10	1	9	0.49	0.96
1226003042	53	1.93	< 10	< 1	0.29	17	0.92	0.084	0.045	1.90	< 2	< 1	41	< 0.01	< 1	< 2	< 10	7	< 10	2	12	0.71	1.88
1226003404	67	1.95	< 10	< 1	0.32	< 10	1.26	0.074	0.038	1.70	2	< 1	52	< 0.01	< 1	< 2	< 10	8	< 10	1	8	1.05	1.65
1226003194	79	2.06	< 10	< 1	0.33	15	1.15	0.095	0.045	1.79	< 2	< 1	50	< 0.01	< 1	< 2	< 10	9	< 10	2	14	0.91	1.65
1226003001	78	2.13	< 10	< 1	0.33	11	1.05	0.090	0.042	1.80	< 2	< 1	64	< 0.01	< 1	< 2	< 10	9	< 10	1	8	0.78	1.67
1226003084	68	2.01	< 10	< 1	0.32	13	1.24	0.096	0.044	1.87	< 2	< 1	53	< 0.01	< 1	< 2	< 10	10	< 10	2	11	0.77	1.73
1226003135	76	2.23	< 10	< 1	0.36	< 10	1.16	0.081	0.045	2.21	2	< 1	56	< 0.01	< 1	< 2	< 10	9	< 10	1	13	0.96	2.07
1226003049	52	1.99	< 10	< 1	0.33	13	0.99	0.078	0.041	1.37	< 2	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	1	8	0.77	1.31
1226003160	151	2.45	< 10	< 1	0.23	21	1.29	0.166	0.053	2.11	3	1	72	< 0.01	< 1	< 2	< 10	14	< 10	3	22	0.36	2.04
1226003189	63	2.12	< 10	< 1	0.30	15	1.28	0.075	0.043	2.12	9	< 1	47	< 0.01	4	< 2	< 10	8	< 10	2	13	0.88	1.93
V860651	12	3.35	< 10	< 1	0.21	11	0.52	0.220	0.057	0.06	2	4	36	0.44	8	< 2	< 10	93	< 10	15	21		
1434001048	197	7.92	< 10	1	0.24	< 10	1.38	0.106	0.076	6.97	5	7	49	0.12	1	< 2	< 10	55	< 10	9	13	1.09	6.64
1227023427	176	2.19	< 10	< 1	0.24	13	1.32	0.151	0.042	1.57	< 2	1	118	< 0.01	< 1	< 2	< 10	11	< 10	2	18	0.10	1.47
1227023536	105	2.33	< 10	< 1	0.22	12	1.73	0.173	0.036	0.65	< 2	1	149	< 0.01	< 1	< 2	< 10	15	< 10	2	13	0.13	0.64
1228036004	248	2.51	< 10	< 1	0.30	13	1.26	0.076	0.046	1.56	< 2	1	34	< 0.01	< 1	< 2	< 10	15	< 10	2	17	0.32	1.54
1228036040	376	2.82	< 10	< 1	0.29	21	2.71	0.056	0.071	1.03	3	5	76	< 0.01	< 1	< 2	< 10	36	< 10	4	13	1.25	0.94
1434001028	245	9.18	20	< 1	0.28	< 10	1.61	0.296	0.094	2.22	6	14	65	0.17	< 1	< 2	< 10	119	< 10	15	9	0.86	2.33
1233001307	287	4.71	< 10	< 1	0.06	< 10	1.72	0.545	0.021	0.11	3	7	62	0.21	< 1	< 2	< 10	128	< 10	4	3	0.25	0.12
1434001007	142	3.82	< 10	< 1	0.25	11	1.16	0.130	0.050	0.76	< 2	8	58	0.16	< 1	< 2	< 10	91	< 10	6	9	0.62	0.73
1233001338	267	2.88	< 10	< 1	0.37	21	1.29	0.157	0.054	1.01	3	3	96	0.10	< 1	< 2	< 10	36	< 10	3	15	0.38	0.93
1227023417	178	3.25	< 10	< 1	0.26	16	1.83	0.069	0.043	1.51	2	1	36	< 0.01	3	< 2	< 10	14	< 10	2	12	0.09	1.48
1228037221	263	2.30	< 10	< 1	0.26	17	0.72	0.180	0.049	1.67	2	1	109	0.01	< 1	< 2	< 10	15	< 10	2	23	0.22	1.55
1228037192	210	3.02	< 10	< 1	0.28	18	1.25	0.138	0.043	1.92	5	< 1	79	0.01	< 1	< 2	< 10	11	< 10	2	19	0.30	1.90
1233001312	352	2.58	< 10	< 1	0.26	18	0.93	0.137	0.052	0.42	2	3	66	0.12	< 1	< 2	< 10	40	< 10	4	12	0.21	0.42
1233001453	194	2.25	< 10	< 1	0.31	16	0.92	0.161	0.043	0.61	< 2	2	79	0.09	< 1	< 2	< 10	27	< 10	3	15	0.28	0.60
1228037174	316	2.61	< 10	< 1	0.25	16	1.34	0.102	0.043	0.85	2	1	83	0.04	< 1	< 2	< 10	18	< 10	2	12	0.35	0.82
1228037135	198	2.62	< 10	< 1	0.25	13	1.04	0.224	0.038	1.44	2	1	84	< 0.01	< 1	< 2	< 10	13	< 10	2	16	0.35	1.36
1227022106	150	2.29	< 10	< 1	0.30	24	1.12	0.072	0.046	1.16	< 2	1	61	0.01	< 1	< 2	< 10	13	< 10	2	18	0.26	1.13
1228037407	241	2.35	< 10	< 1	0.27	15	1.02	0.197	0.043	0.79	< 2	1	167	0.05	< 1	< 2	< 10	17	< 10	3	13	0.48	0.76
V860652	11	3.85	< 10	< 1	0.28	12	0.69	0.167	0.066	0.07	< 2	5	32	0.44	8	< 2	< 10	111	< 10	15	17		
1228037604	395	4.53	< 10	< 1	0.28	19	3.27	0.114	0.090	1.68	2	6	205	0.07	< 1	< 2	< 10	65	< 10	5	14	1.38	1.75
1233001361	317	3.52	< 10	< 1	0.17	< 10	1.28	0.245	0.040	0.25	< 2	6	60	0.19	1	< 2	< 10	80	< 10	5	7	0.21	0.25
1228037114	286	2.25	< 10	< 1	0.25	13	1.06	0.253	0.040	1.15	3	< 1	103	< 0.01	2	< 2	< 10	12	< 10	2	16	0.28	1.10
1228037253	341	3.05	< 10	< 1	0.27	17	2.16	0.071	0.062	1.16	6	4	151	0.03	3	< 2	< 10	35	< 10	4	15	1.06	1.08
1233001524	245	2.10	< 10	< 1	0.42	18	1.07	0.189	0.044	0.44	< 2	2	95	0.07	< 1	< 2	< 10	23	< 10	3	16	0.21	0.44
1233001365	241	3.13	< 10	< 1	0.28	37	1.44	0.105	0.097	0.68	2	4	67	0.14	2	< 2	< 10	49	< 10	5	15	0.17	0.63
1227024006	197	2.89	< 10	< 1	0.21	15	1.49	0.054	0.039	1.49	2	1	29	< 0.01	3	< 2	< 10	12	< 10	2	17	0.07	1.47
1227024176	199	1.80	< 10	< 1	0.28	14	0.78	0.068	0.039	1.35	< 2	< 1	46	< 0.01	2	< 2	< 10	8	< 10	1	12	0.18	1.30
1227024027	308	1.49	10	< 1	0.27	12	1.51	0.146	0.041	0.10	2	2	146	0.02	< 1	< 2	< 10	22	< 10	3	12	0.16	0.10
1227024148	88	2.19	< 10	< 1	0.40	15	1.20	0.159	0.044	0.76	2	2	61	0.04	< 1	< 2	< 10	18	< 10	3	15	0.20	0.73
1233001547	133	2.14	< 10	< 1	0.56	21	1.05	0.248	0.048	0.32	< 2	2	120	0.09	< 1	< 2	< 10	24	< 10	3	19	0.15	0.32
1227024024	103	2.26	< 10	< 1	0.28	14	1.15	0.069	0.038	1.15	< 2	1	70	< 0.01	< 1	< 2	< 10	15	< 10	1	17	0.16	1.04
1233001337	245	2.91	< 10	< 1	0.32	20	1.62	0.124	0.071	0.77	< 2	3	100	0.11	1	< 2	< 10	38	< 10	3	12	0.32	0.75

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227024085	148	3.01	< 10	< 1	0.26	14	1.49	0.107	0.042	2.07	< 2	1	46	0.01	< 1	< 2	< 10	14	< 10	3	21	0.20	1.93
1227024180	131	4.00	< 10	< 1	0.33	22	2.15	0.026	0.058	2.33	< 2	2	15	0.01	5	< 2	< 10	22	< 10	3	17	0.19	2.17
1227024236	128	2.59	< 10	< 1	0.33	12	1.43	0.071	0.039	1.66	< 2	< 1	34	< 0.01	4	< 2	< 10	10	< 10	2	16	0.24	1.62
1227024138	473	3.77	< 10	< 1	0.33	22	0.97	0.124	0.051	3.18	3	1	57	0.02	1	< 2	< 10	16	19	3	28	0.17	2.99
1227024040	107	3.51	< 10	< 1	0.24	14	1.61	0.085	0.041	2.65	< 2	1	54	< 0.01	9	< 2	< 10	15	< 10	3	22	0.14	2.50
1227024117	82	3.00	< 10	< 1	0.36	13	1.51	0.023	0.038	1.50	2	1	22	0.01	3	< 2	< 10	14	< 10	2	12	0.16	1.36
1227024178	250	2.14	< 10	< 1	0.37	17	0.92	0.049	0.045	1.76	2	< 1	37	< 0.01	< 1	< 2	< 10	11	< 10	1	14	0.40	1.66
1227024287	327	2.10	< 10	< 1	0.33	12	1.06	0.086	0.038	1.60	< 2	< 1	43	0.02	6	< 2	< 10	10	< 10	1	13	0.81	1.52
V860653	11	3.05	< 10	< 1	0.23	16	0.43	0.152	0.047	0.04	< 2	3	46	0.29	4	< 2	< 10	58	< 10	16	19		
1226012046	206	2.35	< 10	< 1	0.22	17	1.13	0.216	0.046	2.40	4	1	145	< 0.01	< 1	< 2	< 10	13	< 10	2	21	0.32	2.23
1226012016	110	3.10	< 10	< 1	0.28	27	0.89	0.183	0.058	3.49	4	1	98	< 0.01	2	< 2	< 10	10	< 10	3	33	0.20	3.26
1233001598	141	2.00	< 10	< 1	0.44	16	1.09	0.203	0.043	0.28	< 2	2	87	0.08	< 1	< 2	< 10	25	< 10	3	15	0.18	0.30
1227027064	170	2.12	< 10	< 1	0.31	20	0.65	0.108	0.039	1.42	< 2	< 1	83	< 0.01	2	< 2	< 10	12	< 10	2	8	0.09	1.29
1433099067	123	7.83	10	1	0.60	< 10	3.13	0.268	0.047	0.84	5	9	118	0.14	< 1	< 2	< 10	137	< 10	7	6	1.73	0.83
1226012095	167	2.41	< 10	< 1	0.23	14	1.20	0.210	0.043	2.26	3	1	163	< 0.01	2	< 2	< 10	12	< 10	2	18	0.33	2.13
1226012125	320	3.47	< 10	< 1	0.25	13	0.93	0.220	0.039	2.18	4	1	138	0.01	< 1	< 2	< 10	15	< 10	3	16	0.39	2.18
1227027070	152	1.96	< 10	< 1	0.37	17	1.03	0.075	0.040	1.12	< 2	1	69	< 0.01	< 1	< 2	< 10	14	< 10	1	11	0.25	0.98
1227027062	147	2.24	< 10	< 1	0.36	20	0.99	0.117	0.035	0.94	2	1	76	< 0.01	< 1	< 2	< 10	15	< 10	2	6	0.18	0.90
1433099080	155	6.83	10	3	0.22	< 10	2.52	0.438	0.033	2.46	3	5	93	0.08	< 1	< 2	< 10	98	< 10	4	5	1.49	2.50
1226012157	423	3.10	< 10	< 1	0.23	14	0.93	0.247	0.041	1.84	3	1	115	< 0.01	2	< 2	< 10	15	< 10	3	16	0.36	1.75
1226012003	53	2.60	< 10	< 1	0.30	18	1.30	0.109	0.047	2.49	2	1	83	< 0.01	< 1	< 2	< 10	12	< 10	2	23	0.11	2.44
1233001539	221	2.00	< 10	< 1	0.58	14	1.08	0.111	0.042	0.43	< 2	2	40	0.08	< 1	< 2	< 10	26	< 10	3	18	0.32	0.42
1226012182	147	2.81	< 10	< 1	0.35	14	0.73	0.219	0.040	2.06	2	1	115	< 0.01	< 1	< 2	< 10	13	< 10	3	15	0.19	2.00
V860654	8	1.46	< 10	< 1	0.07	< 10	0.12	0.127	0.029	0.02	< 2	1	20	0.26	3	< 2	< 10	34	< 10	7	17		
1227024098	137	2.30	< 10	< 1	0.56	15	1.31	0.183	0.045	0.79	< 2	2	67	0.06	< 1	< 2	< 10	24	< 10	3	15	0.18	0.73
1227024069	90	2.64	< 10	< 1	0.51	15	1.44	0.075	0.043	0.97	< 2	3	73	0.07	< 1	< 2	< 10	30	< 10	3	17	0.17	0.90
1227024334	140	5.74	< 10	< 1	0.43	14	1.58	0.053	0.055	4.18	2	5	23	0.05	4	< 2	< 10	70	< 10	7	14	0.42	3.84
1227024293	149	2.22	< 10	< 1	0.33	12	1.11	0.068	0.036	1.27	< 2	1	27	0.03	< 1	< 2	< 10	14	< 10	2	21	0.09	1.24
1227024321	147	2.72	< 10	< 1	0.37	11	1.28	0.081	0.040	1.69	< 2	2	30	0.01	< 1	< 2	< 10	19	< 10	2	17	0.19	1.65
1226012079	147	2.44	< 10	< 1	0.20	17	1.09	0.135	0.044	2.55	3	1	89	< 0.01	< 1	< 2	< 10	11	< 10	2	21	0.46	2.44
1227027019	93	2.30	< 10	< 1	0.38	19	1.26	0.057	0.047	1.02	< 2	2	49	0.04	< 1	< 2	< 10	18	< 10	2	19	0.34	0.88
1226012060	223	2.33	< 10	< 1	0.21	15	1.13	0.261	0.043	2.26	3	1	155	< 0.01	< 1	< 2	< 10	12	< 10	2	19	0.28	2.29
1233001542	270	2.63	< 10	< 1	0.30	26	1.74	0.095	0.069	0.50	< 2	4	36	0.09	2	< 2	< 10	42	< 10	4	20	0.27	0.49
1233001567	396	2.77	< 10	< 1	0.68	28	1.70	0.156	0.066	0.53	2	3	89	0.11	< 1	< 2	< 10	46	< 10	4	19	0.48	0.54
1227024281	98	2.35	< 10	< 1	0.41	14	1.11	0.074	0.043	1.87	< 2	< 1	42	0.02	2	< 2	< 10	11	< 10	2	15	0.29	1.83
1226012071	187	3.06	< 10	< 1	0.26	16	0.99	0.121	0.043	2.84	2	1	94	< 0.01	< 1	< 2	< 10	11	< 10	3	19	0.28	2.77
1226012119	270	3.29	< 10	< 1	0.28	14	0.86	0.195	0.040	2.09	2	1	94	< 0.01	< 1	< 2	< 10	16	< 10	3	17	0.21	2.00
V860655	11	3.78	< 10	< 1	0.28	12	0.69	0.158	0.068	0.08	3	6	30	0.43	3	< 2	< 10	105	< 10	15	17		
1226003181	237	2.58	< 10	< 1	0.29	19	1.29	0.173	0.047	1.90	< 2	1	81	0.01	< 1	< 2	< 10	15	< 10	3	21	0.52	1.74
1226003063	132	2.09	< 10	< 1	0.25	18	1.19	0.139	0.048	1.92	< 2	1	64	< 0.01	< 1	< 2	< 10	11	< 10	2	21	0.58	1.77
1226003116	129	2.60	< 10	< 1	0.18	21	1.35	0.162	0.050	2.60	3	2	73	< 0.01	3	< 2	< 10	17	< 10	3	24	0.22	2.54
1226003212	202	2.13	< 10	< 1	0.21	17	1.10	0.184	0.044	2.17	< 2	1	87	< 0.01	< 1	< 2	< 10	13	< 10	3	22	0.27	2.08
1433099218	150	2.47	< 10	< 1	0.41	20	1.29	0.200	0.054	0.27	2	2	110	0.04	< 1	< 2	< 10	25	< 10	3	8	0.90	0.28
1433099032	125	8.78	10	1	0.14	< 10	2.99	0.135	0.036	2.23	5	9	58	0.02	< 1	< 2	< 10	119	< 10	6	6	1.73	2.28
1226012240	252	2.28	< 10	< 1	0.27	18	0.79	0.120	0.053	0.71	2	1	96	< 0.01	< 1	< 2	< 10	14	< 10	2	11	0.33	0.67
1226012332	263	2.78	< 10	< 1	0.40	14	0.77	0.105	0.037	2.33	2	2	36	0.06	< 1	< 2	< 10	19	< 10	3	20	0.28	2.15
1226003012	74	2.11	< 10	< 1	0.30	16	1.26	0.091	0.042	1.97	< 2	< 1	46	< 0.01	< 1	< 2	< 10	9	< 10	2	14	0.55	1.90
1227024263	164	5.66	< 10	2	0.49	< 10	1.37	0.169	0.076	4.75	< 2	10	86	0.14	7	< 2	< 10	142	< 10	9	8	0.45	4.56
1226003072	216	2.48	< 10	< 1	0.18	19	1.34	0.142	0.049	2.40	< 2	2	61	< 0.01	< 1	< 2	< 10	17	< 10	3	24	0.27	2.36
1227024149	241	2.45	< 10	< 1	0.46	15	1.26	0.215	0.043	0.90	2	2	92	0.04	< 1	< 2	< 10	19	< 10	3	15	0.42	0.82
1226012268	216	2.07	< 10	< 1	0.35	14	0.76	0.302	0.040	1.35	< 2	1	159	0.02	< 1	< 2	< 10	13	< 10	2	19	0.22	1.31

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433099018	178	5.47	< 10	2	0.15	< 10	2.12	0.115	0.044	0.81	3	9	54	0.05	< 1	< 2	< 10	95	< 10	6	9	1.11	0.82
1226003187	124	2.25	< 10	< 1	0.32	19	1.08	0.099	0.048	2.05	< 2	< 1	51	< 0.01	< 1	< 2	< 10	10	< 10	3	15	0.80	1.95
V860656	12	3.36	< 10	< 1	0.21	< 10	0.52	0.214	0.056	0.06	2	4	35	0.45	4	< 2	< 10	92	< 10	15	14		
1226002221	93	2.70	< 10	< 1	0.41	13	0.96	0.080	0.037	2.18	3	< 1	31	0.01	< 1	< 2	< 10	10	< 10	1	13	0.24	2.08
1227027114	213	2.14	< 10	< 1	0.27	15	0.81	0.136	0.038	1.40	< 2	1	110	< 0.01	2	< 2	< 10	13	< 10	2	7	0.13	1.37
1227027119	140	2.37	< 10	< 1	0.36	< 10	1.16	0.038	0.039	0.86	< 2	1	41	0.01	< 1	< 2	< 10	13	< 10	1	10	0.26	0.77
1227027100	266	2.00	< 10	< 1	0.30	15	0.88	0.153	0.038	0.86	2	1	88	0.02	< 1	< 2	< 10	15	11	2	10	0.20	0.77
1226012274	452	2.19	< 10	< 1	0.25	15	0.68	0.136	0.045	0.95	3	< 1	73	0.03	< 1	< 2	< 10	11	< 10	2	13	0.29	0.86
1226002057	150	2.10	< 10	< 1	0.41	15	0.81	0.060	0.045	2.13	2	< 1	33	< 0.01	< 1	< 2	< 10	8	< 10	2	23	0.44	1.97
1226012309	249	2.05	< 10	< 1	0.28	14	0.69	0.151	0.039	1.14	< 2	1	74	0.02	< 1	< 2	< 10	12	< 10	2	16	0.35	1.09
1226002059	188	2.01	< 10	< 1	0.24	17	0.40	0.046	0.044	2.30	12	< 1	33	< 0.01	7	< 2	< 10	4	< 10	2	16	0.69	2.13
1226002188	94	2.14	< 10	< 1	0.37	14	1.03	0.130	0.041	1.86	2	1	55	< 0.01	< 1	< 2	< 10	10	< 10	2	20	0.27	1.75
1226002198	186	2.22	< 10	< 1	0.33	13	1.08	0.090	0.038	1.87	2	1	55	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.36	1.76
1226002031	427	2.14	< 10	< 1	0.34	17	0.74	0.068	0.047	2.01	3	< 1	41	0.01	5	< 2	< 10	8	< 10	2	24	0.39	1.85
1226002009	166	1.31	< 10	< 1	0.25	17	0.29	0.207	0.044	0.51	< 2	1	233	0.02	1	< 2	< 10	9	< 10	2	9	0.17	0.49
1226002017	199	2.37	< 10	< 1	0.27	19	1.12	0.114	0.058	0.43	< 2	3	149	0.02	3	< 2	< 10	24	< 10	3	7	0.51	0.43
1226002092	129	1.98	< 10	< 1	0.26	16	0.62	0.101	0.047	0.82	2	< 1	110	0.01	< 1	< 2	< 10	12	< 10	2	12	0.18	0.77
1226002040	316	2.19	< 10	< 1	0.24	16	0.64	0.187	0.043	0.36	< 2	1	214	0.04	2	< 2	< 10	13	< 10	2	9	0.20	0.36
1230501130	155	2.34	< 10	< 1	0.25	11	0.93	0.205	0.035	1.03	4	< 1	86	0.05	< 1	< 2	< 10	12	< 10	2	14	0.23	0.94
1230501138	335	2.59	< 10	< 1	0.22	16	1.03	0.133	0.040	1.60	4	1	55	< 0.01	< 1	< 2	< 10	15	< 10	2	21	0.27	1.51
1226002127	141	2.13	< 10	< 1	0.34	15	0.61	0.065	0.045	2.37	5	< 1	54	< 0.01	4	< 2	< 10	7	< 10	2	16	0.94	2.20
V860657	12	3.01	< 10	< 1	0.23	17	0.44	0.149	0.047	0.04	< 2	3	46	0.28	6	< 2	< 10	56	< 10	16	13		
1226013016	181	2.66	< 10	< 1	0.20	29	1.02	0.118	0.060	2.98	< 2	2	50	0.01	2	< 2	< 10	14	< 10	3	33	0.09	2.72
1227028029	197	6.77	< 10	< 1	0.28	< 10	1.38	0.063	0.060	6.61	3	5	25	0.04	6	< 2	< 10	77	< 10	8	12	0.25	6.35
1227028013	164	1.72	< 10	< 1	0.29	12	1.12	0.127	0.037	1.22	< 2	< 1	53	0.03	1	< 2	< 10	13	< 10	2	16	0.15	1.18
1227028039	186	3.49	< 10	< 1	0.28	11	0.89	0.094	0.047	3.33	2	2	38	< 0.01	< 1	< 2	< 10	24	< 10	4	15	0.26	3.12
1227028118	212	2.63	< 10	2	0.27	23	1.26	0.175	0.059	1.41	3	1	97	< 0.01	< 1	< 2	< 10	19	< 10	2	12	0.21	1.36
1226013095	316	3.15	< 10	< 1	0.20	15	0.89	0.140	0.041	2.01	3	2	62	< 0.01	< 1	< 2	< 10	17	< 10	3	18	0.18	1.87
1227028128	165	2.21	< 10	< 1	0.29	29	1.11	0.118	0.063	1.36	3	1	61	< 0.01	< 1	< 2	< 10	15	< 10	2	14	0.18	1.31
1227028028	265	5.82	< 10	< 1	0.33	< 10	1.32	0.079	0.059	5.65	3	5	30	0.06	7	< 2	< 10	73	< 10	6	12	0.30	5.34
1227028144	387	2.43	< 10	< 1	0.31	14	0.77	0.158	0.040	1.83	3	1	58	0.02	2	< 2	< 10	13	< 10	2	20	0.18	1.81
1227028078	313	2.43	< 10	< 1	0.29	13	1.11	0.171	0.038	1.43	3	1	75	0.02	< 1	< 2	< 10	15	< 10	2	18	0.22	1.38
1226013064	362	2.87	< 10	< 1	0.19	26	1.14	0.111	0.060	2.97	4	1	49	< 0.01	< 1	< 2	< 10	12	< 10	3	25	0.24	2.82
1228050033	225	2.35	< 10	1	0.32	14	1.01	0.145	0.042	0.88	< 2	1	78	0.02	< 1	< 2	< 10	15	< 10	2	11	0.54	0.84
1227028113	318	2.77	< 10	< 1	0.32	23	1.23	0.125	0.059	1.78	3	1	48	< 0.01	< 1	< 2	< 10	17	< 10	3	19	0.22	1.74
1226013007	288	2.22	< 10	< 1	0.18	14	0.65	0.161	0.039	1.21	< 2	1	75	< 0.01	< 1	< 2	< 10	12	< 10	2	15	0.29	1.16
1227028082	299	2.68	< 10	< 1	0.34	14	1.02	0.078	0.044	1.94	3	1	33	< 0.01	2	< 2	< 10	14	< 10	2	19	0.17	1.79
1226013004	346	2.14	< 10	< 1	0.21	14	0.85	0.193	0.038	0.78	3	1	85	0.01	< 1	< 2	< 10	16	< 10	2	15	0.26	0.72

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	0.7	74	1100	1	24	99	138	6.50	250	< 10	712	0.9	< 2	0.13	11
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.7	72	1100	1	23	95	140	6.37	249	< 10	703	0.9	< 2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
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GS311-4 Meas																							
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GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.42																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.34																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5				7.75																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.3																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	755	< 1	33	59	251	2.54	4		79	0.7	4	0.40	17
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4410	901	< 1	31	75	350	2.56	6		62	0.6	11	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4520	902	< 1	33	76	343	2.61	7		64	0.7	23	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				82	419						< 2		42
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				82	422						< 2		50
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
OREAS 218 Meas							543																
OREAS 218 Cert							531																
OREAS 218 Meas							544																
OREAS 218 Cert							531																
OREAS 218 Meas							537																
OREAS 218 Cert							531																
OREAS 218 Meas							518																
OREAS 218 Cert							531																
Oreas 621 (Aqua Regia) Meas								72.6	315	3620	564	12	25	> 5000	> 10000	1.57	79			0.6	< 2	1.75	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.4	305	3670	554	13	27	> 5000	> 10000	1.57	76			0.6	< 2	1.71	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										376	165	1	235	4	24	6.48			138	1.0	< 2	0.07	34
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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1226012172 Orig																							
1226012172 Dup																							
1226003042 Orig							523																
1226003042 Dup							526																
1226003001 Orig								0.5	< 0.5	25	734	< 1	10	9	91	2.10	21	< 10	62	< 0.5	< 2	2.05	7
1226003001 Dup								0.6	< 0.5	26	741	< 1	10	10	89	2.10	23	< 10	61	< 0.5	< 2	2.08	7
1226003189 Orig																							
1226003189 Dup																							
1434001048 Orig							666																
1434001048 Dup							687																
1434001007 Orig								0.3	< 0.5	31	610	< 1	31	4	83	1.80	11	< 10	55	< 0.5	< 2	2.24	14
1434001007 Dup								0.3	< 0.5	34	616	< 1	37	4	91	1.88	8	< 10	56	< 0.5	< 2	2.11	14
1228037221 Orig							76																
1228037221 Dup							88																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227022106 Orig	29.8	3.36	-26.4	34.6	0.0972																		
1227022106 Dup	29.8	3.38	-26.4	34.6	0.0976																		
1228037604 Orig						8.70																	
1228037604 Dup						8.70																	
1233001361 Orig								< 0.2	< 0.5	76	456	< 1	41	2	58	2.68	3	< 10	45	< 0.5	< 2	2.21	17
1233001361 Dup								< 0.2	< 0.5	75	463	< 1	42	< 2	56	2.63	< 2	< 10	46	< 0.5	< 2	2.32	17
1228037114 Orig																							
1228037114 Dup																							
1227024006 Orig							781																
1227024006 Dup							661																
1227024085 Orig																							
1227024085 Dup																							
1227024236 Orig								3.6	< 0.5	27	563	1	11	4	207	2.00	22	11	64	< 0.5	7	0.74	7
1227024236 Dup								3.7	< 0.5	26	549	< 1	11	3	204	1.98	22	11	54	< 0.5	7	0.74	7
1227024138 Orig							370																
1227024138 Dup							324																
1233001598 Orig																							
1233001598 Dup																							
1433099067 Orig							87																
1433099067 Dup							88																
1226012182 Orig																							
1226012182 Dup																							
1227024069 Orig								0.2	< 0.5	50	369	2	14	4	103	2.60	12	12	86	< 0.5	< 2	1.16	12
1227024069 Dup								0.3	< 0.5	51	358	2	14	4	102	2.61	12	12	88	< 0.5	< 2	1.16	12
1227024321 Orig							121																
1227024321 Dup							150																
1233001567 Orig	8.01	29.8	21.7	16.5	1.80																		
1233001567 Dup	8.01	29.8	21.8	16.5	1.80																		
1226003181 Orig							203																
1226003181 Dup							188																
1226003063 Orig								1.1	3.2	104	862	1	12	17	806	1.78	20	< 10	51	< 0.5	< 2	1.98	7
1226003063 Dup								1.0	3.2	106	809	1	13	15	745	1.80	23	< 10	51	< 0.5	< 2	1.94	7
1226012332 Orig																							
1226012332 Dup																							
1226003072 Orig							172																
1226003072 Dup							164																
1226003187 Orig								2.2	< 0.5	23	1130	< 1	12	35	181	1.71	33	< 10	45	< 0.5	< 2	2.26	7
1226003187 Dup								2.3	0.6	22	1120	< 1	12	34	154	1.69	32	< 10	45	< 0.5	< 2	2.39	7
1227027119 Orig																							
1227027119 Dup																							
1226012309 Orig						8.77																	
1226012309 Dup						8.77																	
1226002198 Orig							418																
1226002198 Dup							397																
1226002017 Orig								< 0.2	< 0.5	28	415	< 1	30	5	69	2.91	5	< 10	79	< 0.5	< 2	2.33	10
1226002017 Dup								< 0.2	< 0.5	29	433	< 1	32	7	63	2.93	8	< 10	81	< 0.5	< 2	2.53	11
1226002092 Orig																							
1226002092 Dup																							
1226013016 Orig							37																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226013016 Dup							36																
1226013095 Orig	50.9	9.61	-41.3	57.3	0.168																		
1226013095 Dup	50.9	9.61	-41.3	57.3	0.168																		
1227028078 Orig								2.2	0.7	21	639	1	18	5	265	2.18	27	< 10	61	< 0.5	< 2	0.98	8
1227028078 Dup								2.1	0.7	22	650	1	19	4	265	2.19	23	< 10	58	< 0.5	< 2	1.04	8
1226013064 Orig							83																
1226013064 Dup							82																
1227028082 Orig						8.78																	
1227028082 Dup						8.75																	
1226013004 Orig	17.1	15.7	-1.33	22.0	0.714																		
1226013004 Dup	17.1	15.7	-1.34	22.0	0.714																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	89	5.71	20	1	1.06	< 10	0.41	0.069	0.035	0.01	3	21	28		< 1	< 2	< 10	168	< 10	5	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.61	20	2	1.05	< 10	0.40	0.068	0.035	0.01	3	22	29		< 1	< 2	< 10	178	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
SGR-1b Meas																						27.9	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.46
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.48
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.47
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.48

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.51
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.51
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.52
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.09	< 10		0.45	38	1.30	0.027	0.062	0.36	< 2	4	16			< 2	< 10	34	< 10	19	27		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	5.80	< 10		0.38	35	1.42		0.059	0.67	2	4	15			< 2	< 10	35	< 10	18	31		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	45	5.94	< 10		0.39	36	1.44		0.060	0.68	2	4	15			< 2	< 10	37	< 10	18	32		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.99	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.18	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
Oreas 621 (Aqua Regia) Meas	33	3.32	10	4	0.35	20	0.45	0.149	0.034	4.50	118	2	18			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.34	10	5	0.35	21	0.44	0.154	0.034	4.53	120	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	358	14.2	20	< 1	0.11	10	0.18	0.040	0.020	0.02		26	14	0.10		< 2	< 10	210		4	14		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.31
GS316-3 Cert																						0.0600	0.340
1226012172 Orig																						0.05	0.96
1226012172 Dup																						0.05	0.94
1226003042 Orig																							
1226003042 Dup																							
1226003001 Orig	76	2.11	< 10	< 1	0.33	11	1.05	0.090	0.043	1.77	< 2	< 1	64	< 0.01	< 1	< 2	< 10	9	< 10	1	8		
1226003001 Dup	79	2.15	< 10	< 1	0.33	11	1.06	0.089	0.042	1.82	< 2	< 1	64	< 0.01	< 1	< 2	< 10	9	< 10	1	8		
1226003189 Orig																						0.88	1.91
1226003189 Dup																						0.88	1.95
1434001048 Orig																							
1434001048 Dup																							
1434001007 Orig	141	3.77	< 10	< 1	0.25	11	1.16	0.127	0.049	0.75	< 2	8	56	0.15	< 1	< 2	< 10	85	< 10	6	9		
1434001007 Dup	143	3.87	< 10	< 1	0.26	10	1.17	0.133	0.050	0.77	2	8	59	0.16	< 1	< 2	< 10	97	< 10	6	9		
1228037221 Orig																						0.22	1.53
1228037221 Dup																						0.23	1.57
1227022106 Orig																							
1227022106 Dup																							
1228037604 Orig																							
1228037604 Dup																							
1233001361 Orig	325	3.54	< 10	< 1	0.17	< 10	1.29	0.249	0.040	0.25	< 2	6	62	0.19	1	< 2	< 10	82	< 10	5	7		
1233001361 Dup	309	3.49	< 10	< 1	0.17	< 10	1.28	0.242	0.040	0.25	3	6	59	0.18	2	< 2	< 10	79	< 10	5	7		
1228037114 Orig																						0.29	1.09
1228037114 Dup																						0.28	1.10
1227024006 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227024006 Dup																							
1227024085 Orig																						0.19	2.00
1227024085 Dup																						0.20	1.85
1227024236 Orig	129	2.59	< 10	< 1	0.33	12	1.43	0.071	0.039	1.66	< 2	< 1	34	< 0.01	4	< 2	< 10	10	< 10	2	16		
1227024236 Dup	128	2.59	< 10	< 1	0.33	12	1.42	0.071	0.038	1.66	< 2	< 1	34	< 0.01	4	< 2	< 10	10	< 10	2	15		
1227024138 Orig																							
1227024138 Dup																							
1233001598 Orig																						0.18	0.30
1233001598 Dup																						0.18	0.30
1433099067 Orig																							
1433099067 Dup																							
1226012182 Orig																						0.19	1.98
1226012182 Dup																						0.18	2.02
1227024069 Orig	94	2.64	< 10	< 1	0.51	14	1.44	0.074	0.043	0.97	< 2	3	73	0.07	< 1	< 2	< 10	30	< 10	3	17		
1227024069 Dup	86	2.64	< 10	< 1	0.52	15	1.44	0.075	0.043	0.97	< 2	3	73	0.07	< 1	< 2	< 10	29	< 10	3	17		
1227024321 Orig																							
1227024321 Dup																							
1233001567 Orig																						0.48	0.53
1233001567 Dup																						0.48	0.54
1226003181 Orig																							
1226003181 Dup																							
1226003063 Orig	132	2.07	< 10	< 1	0.25	18	1.20	0.137	0.048	1.92	< 2	1	64	< 0.01	< 1	< 2	< 10	11	< 10	2	22		
1226003063 Dup	132	2.12	< 10	< 1	0.25	18	1.19	0.141	0.048	1.92	3	1	64	< 0.01	< 1	< 2	< 10	11	< 10	2	21		
1226012332 Orig																						0.27	2.19
1226012332 Dup																						0.28	2.11
1226003072 Orig																							
1226003072 Dup																							
1226003187 Orig	123	2.26	< 10	< 1	0.32	19	1.07	0.101	0.047	2.08	< 2	1	51	< 0.01	< 1	< 2	< 10	10	< 10	2	14		
1226003187 Dup	125	2.25	< 10	< 1	0.32	19	1.09	0.098	0.048	2.02	< 2	< 1	50	< 0.01	< 1	< 2	< 10	10	< 10	3	15		
1227027119 Orig																						0.26	0.76
1227027119 Dup																						0.26	0.78
1226012309 Orig																							
1226012309 Dup																							
1226002198 Orig																							
1226002198 Dup																							
1226002017 Orig	186	2.37	< 10	< 1	0.27	19	1.13	0.115	0.057	0.42	< 2	3	149	0.02	2	< 2	< 10	23	< 10	3	7		
1226002017 Dup	212	2.36	< 10	< 1	0.27	19	1.12	0.113	0.059	0.43	3	3	149	0.02	3	< 2	< 10	25	< 10	3	8		
1226002092 Orig																						0.18	0.77
1226002092 Dup																						0.18	0.77
1226013016 Orig																							
1226013016 Dup																							
1226013095 Orig																						0.18	1.91
1226013095 Dup																						0.17	1.83
1227028078 Orig	313	2.42	< 10	< 1	0.29	12	1.10	0.171	0.038	1.42	3	1	75	0.02	< 1	< 2	< 10	15	< 10	2	18		
1227028078 Dup	314	2.43	< 10	< 1	0.29	13	1.11	0.172	0.038	1.44	2	1	76	0.02	1	< 2	< 10	16	< 10	2	18		
1226013064 Orig																							
1226013064 Dup																							
1227028082 Orig																							
1227028082 Dup																							
1226013004 Orig																						0.26	0.71
1226013004 Dup																						0.27	0.72

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-04626**
Report Date:	**02-Jun-20**
Date Submitted:	**28-Apr-20**
Your Reference:	**March 2020 Check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

182 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-05-16 09:15:04
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-05-20 07:45:34
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-05-14 15:02:27

REPORT **A20-04626**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-04626**
Report Date: **02-Jun-20**
Date Submitted: **28-Apr-20**
Your Reference: **March 2020 Check assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

182 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-05-09 15:17:40
4F-C, S	Infrared	2020-05-07 11:23:38

REPORT **A20-04626**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
V860672							932	2.3	< 0.5	59	374	11	16	8	57	1.55	< 2	< 10	84	< 0.5	< 2	1.22	18
1226011011	14.7	7.36	-7.32	17.5	0.422	9.12	8	< 0.2	< 0.5	43	354	< 1	15	3	83	3.67	< 2	< 10	74	< 0.5	3	1.72	10
1226006098	36.6	9.74	-26.8	42.0	0.232	8.94	242	0.4	< 0.5	73	356	2	22	14	51	2.10	10	< 10	44	< 0.5	3	0.85	11
1228038168	77.5	44.2	-33.2	94.9	0.466	8.75	908	5.8	2.0	34	930	< 1	20	37	519	1.09	111	< 10	28	< 0.5	< 2	1.96	15
1226006013	28.6	21.9	-6.70	34.6	0.634	9.03	62	0.6	< 0.5	24	598	< 1	20	3	92	2.38	13	12	56	< 0.5	4	1.15	12
1228038203	38.4	44.1	5.70	46.2	0.954	9.21	153	1.9	1.4	61	1040	< 1	17	46	272	2.20	47	< 10	42	< 0.5	4	2.29	10
1226006023	33.3	19.3	-14.0	38.6	0.501	9.07	104	0.3	0.5	22	238	2	16	9	180	1.55	11	14	46	< 0.5	2	1.16	11
1226006042	32.1	12.2	-19.9	35.8	0.340	9.03	112	0.4	< 0.5	17	231	2	21	2	72	1.70	10	10	47	< 0.5	< 2	0.84	10
1228038292	2.81	16.6	13.8	2.76	6.02	9.47	6	< 0.2	< 0.5	129	543	< 1	54	< 2	56	5.55	< 2	< 10	22	< 0.5	5	3.76	26
1228038298	38.9	35.4	-3.50	45.3	0.782	9.11	40	0.5	< 0.5	56	563	< 1	21	4	42	2.06	19	< 10	41	< 0.5	< 2	2.02	13
1226006044	35.0	16.7	-18.2	39.5	0.424	8.94	122	0.4	< 0.5	24	256	1	15	2	145	1.96	7	13	46	< 0.5	5	1.01	8
1227015017	13.8	15.3	1.49	24.2	0.633	8.97	85	1.0	2.7	36	677	1	17	21	747	3.65	6	18	61	< 0.5	3	1.62	8
1227015066	2.81	19.2	16.4	2.76	6.97	9.38	6	< 0.2	< 0.5	112	596	< 1	63	< 2	51	5.48	< 2	11	17	< 0.5	< 2	3.81	26
1227015148	33.6	14.2	-19.4	41.7	0.341	8.94	39	0.5	< 0.5	31	483	< 1	16	21	233	2.37	10	15	46	< 0.5	3	1.32	7
1227015347	59.6	74.0	14.5	69.5	1.06	8.93	317	8.5	3.4	83	1810	1	17	377	1170	1.17	96	< 10	34	< 0.5	4	2.73	11
1226006001	35.2	17.3	-17.8	41.7	0.417	8.86	775	0.8	< 0.5	292	254	2	16	7	67	1.85	12	13	37	< 0.5	3	1.04	9
1226006416	27.4	30.5	3.15	37.7	0.810	9.09	95	0.6	< 0.5	29	817	< 1	23	5	94	3.56	13	23	52	< 0.5	3	2.24	11
1226006433	31.1	15.0	-16.1	38.6	0.388	8.80	368	0.8	0.8	216	199	2	19	10	175	1.81	14	11	46	< 0.5	3	1.01	7
1227015135	23.3	22.0	-1.34	33.1	0.665	8.82	256	0.7	2.8	86	500	1	13	10	830	2.37	12	21	52	< 0.5	4	1.51	10
1227015270	43.6	95.8	52.1	55.7	1.72	8.62	143	1.6	0.6	27	1080	< 1	19	15	188	0.92	59	< 10	41	< 0.5	4	3.73	8
1226006435	24.1	32.7	8.62	29.4	1.11	8.87	171	0.4	< 0.5	59	296	2	15	< 2	45	1.81	14	18	45	< 0.5	2	1.54	8
1227015137	24.1	15.2	-8.83	29.7	0.513	8.85	764	0.6	0.5	30	500	< 1	12	12	184	1.62	60	< 10	64	< 0.5	< 2	1.89	6
v860664							120	1.6	< 0.5	58	330	4	12	9	65	1.50	< 2	< 10	84	< 0.5	< 2	1.08	15
1228038265	39.2	21.4	-17.8	49.0	0.436	8.76	84	0.8	6.6	20	582	1	18	23	1730	0.67	42	< 10	41	< 0.5	< 2	0.85	7
1226006152	21.1	11.5	-9.66	27.3	0.421	8.97	316	0.5	< 0.5	152	349	2	13	< 2	42	3.59	7	11	65	< 0.5	4	1.50	7
1228038007	56.8	46.7	-10.0	67.1	0.697	8.76	152	1.3	5.2	40	597	< 1	16	32	1260	1.35	65	< 10	32	< 0.5	2	2.21	9
1228038091	95.9	30.9	-65.0	119	0.260	8.83	1220	4.1	6.0	46	1070	< 1	14	394	1470	0.87	92	< 10	25	< 0.5	< 2	1.22	9
1226006167	16.8	10.2	-6.55	22.0	0.463	8.78	1530	0.6	< 0.5	345	276	2	14	< 2	32	3.21	4	< 10	36	< 0.5	4	1.07	9
1228038065	26.8	20.0	-6.72	36.4	0.550	8.81	278	1.0	2.0	32	1060	2	18	12	524	0.86	52	< 10	41	< 0.5	3	0.90	9
1228038024	33.1	3.98	-29.1	38.9	0.102	8.44	399	0.3	0.7	11	81	< 1	11	6	189	0.38	102	< 10	19	< 0.5	< 2	0.24	5
1226011024	20.2	9.48	-10.7	25.1	0.378	8.99	11	< 0.2	< 0.5	20	503	< 1	12	3	82	3.65	10	< 10	68	< 0.5	4	1.69	10
1226006031	18.0	12.0	-6.04	22.0	0.543	8.81	142	0.3	< 0.5	82	231	2	18	< 2	31	1.73	7	12	61	< 0.5	3	0.68	6
1226006195	61.2	16.7	-44.6	69.8	0.239	8.68	2030	1.6	< 0.5	630	192	2	12	5	56	1.40	24	< 10	26	< 0.5	4	0.77	5
1228038152	48.6	26.3	-22.3	59.1	0.445	8.74	578	4.7	5.3	82	820	1	19	335	1260	1.30	69	< 10	37	< 0.5	5	1.05	10
1226006169	20.2	62.8	42.6	24.8	2.53	8.93	153	0.4	< 0.5	129	308	2	17	< 2	36	3.35	4	< 10	24	< 0.5	3	1.33	10
1226006176	54.5	11.1	-43.4	63.4	0.175	8.58	893	1.2	< 0.5	519	350	5	15	2	51	2.82	18	< 10	34	< 0.5	10	0.88	8
1228038422	58.2	80.9	22.7	74.4	1.09	8.84	975	1.3	0.6	25	1280	< 1	13	25	103	1.27	69	< 10	32	< 0.5	3	3.01	11
1226006180	47.2	10.5	-36.7	56.3	0.186	8.68	646	0.6	< 0.5	227	252	2	12	4	37	1.97	13	< 10	43	< 0.5	8	0.71	7
1226011015	15.6	4.99	-10.6	21.1	0.236	8.83	10	< 0.2	< 0.5	33	397	< 1	11	2	68	3.15	8	< 10	48	< 0.5	4	1.06	10
1226006139	33.8	8.85	-25.0	39.5	0.224	8.84	387	0.7	< 0.5	277	379	2	17	< 2	39	3.49	12	11	27	< 0.5	7	1.27	13
v860665							931	2.4	< 0.5	58	366	10	15	8	56	1.51	< 2	< 10	83	< 0.5	< 2	1.19	17
1226007151	51.1	5.99	-45.1	61.3	0.0978	8.55	3250	0.8	< 0.5	344	260	1	14	< 2	30	2.07	8	< 10	33	< 0.5	5	0.71	8
1226007127	34.6	14.1	-20.5	45.0	0.313	8.93	142	2.9	1.9	61	507	2	14	2	560	2.10	27	< 10	53	< 0.5	4	1.07	8
1232011029	12.6	26.3	13.7	19.3	1.36	9.14	72	0.7	1.9	43	658	2	50	3	363	2.37	18	< 10	86	< 0.5	< 2	1.75	16
1227015273	12.4	107	94.1	24.2	4.40	9.07	18	0.3	< 0.5	18	1990	< 1	174	6	233	3.69	14	< 10	37	< 0.5	< 2	4.41	34
1227031036	50.9	12.3	-38.6	59.1	0.208	8.77	74	0.5	< 0.5	128	394	4	13	3	88	1.21	9	< 10	25	< 0.5	3	0.64	11
1227015010	128	12.6	-116	145	0.0872	8.34	1860	2.8	7.0	745	354	< 1	16	20	1840	1.36	38	< 10	15	< 0.5	13	0.90	9
1227015169	20.3	13.9	-6.43	26.0	0.533	9.03	50	4.0	1.0	57	840	1	16	34	355	1.67	9	< 10	67	< 0.5	2	0.89	9
1227015200	3.13	13.1	9.96	3.06	4.27	9.36	14	0.3	< 0.5	116	491	< 1	47	< 2	57	5.46	4	< 10	18	< 0.5	< 2	3.67	23

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1227015240	3.75	12.2	8.46	3.67	3.32	9.30	8	0.3	< 0.5	133	710	< 1	56	< 2	69	5.59	2	< 10	21	< 0.5	< 2	3.62	25
1227016117	39.5	55.1	15.6	45.9	1.20	8.91	191	0.9	1.3	26	667	1	10	32	351	0.80	44	< 10	37	< 0.5	4	2.18	8
1227015037	68.3	12.0	-56.3	77.2	0.155	8.48	815	1.9	7.2	195	604	< 1	14	17	2310	2.24	15	< 10	31	< 0.5	4	1.02	8
1227015289	41.1	82.2	41.1	49.9	1.65	8.85	152	1.1	0.7	28	1490	1	11	24	221	1.38	77	< 10	45	< 0.5	< 2	3.28	7
1227015126	2.19	7.37	5.18	2.14	3.44	9.60	< 5	0.2	< 0.5	115	474	< 1	46	< 2	50	5.43	< 2	< 10	21	< 0.5	< 2	3.64	22
1227016146	79.4	19.4	-59.9	90.3	0.215	8.53	472	2.5	13.3	79	449	1	16	13	3220	0.97	76	< 10	16	< 0.5	2	0.90	9
1227015245	48.9	67.1	18.1	56.3	1.19	8.79	261	19.1	1.6	27	1320	< 1	13	60	332	1.48	52	< 10	42	< 0.5	< 2	2.70	10
1227015077	13.8	25.1	11.3	19.0	1.32	8.95	609	1.8	2.1	51	1030	< 1	13	378	805	3.13	6	18	40	< 0.5	2	1.60	6
v860666							717	3.0	< 0.5	33	252	17	12	15	44	1.24	< 2	< 10	66	< 0.5	< 2	1.94	10
1227015257	33.2	55.0	21.8	40.7	1.35	8.76	116	0.7	0.6	28	1170	2	20	22	153	2.29	42	< 10	49	< 0.5	5	2.87	9
1226007069	39.7	7.23	-32.5	45.0	0.161	8.59	252	0.3	< 0.5	93	257	< 1	17	< 2	30	3.13	5	< 10	51	< 0.5	7	1.16	6
1226007022	45.5	5.98	-39.5	51.5	0.116	8.35	1650	0.9	< 0.5	440	242	1	16	< 2	28	2.80	4	< 10	49	< 0.5	6	1.22	6
1226007074	21.8	7.37	-14.4	26.3	0.280	8.85	85	< 0.2	< 0.5	20	229	3	17	< 2	42	3.33	4	12	42	< 0.5	3	1.29	7
1226007051	53.2	9.11	-44.1	58.8	0.155	8.70	178	0.3	< 0.5	36	202	1	18	< 2	39	2.42	10	< 10	33	< 0.5	4	0.92	9
1226007100	43.6	8.49	-35.1	49.9	0.170	8.57	674	0.6	< 0.5	261	292	2	12	< 2	48	2.46	9	< 10	47	< 0.5	9	0.91	7
1226007019	26.3	4.74	-21.6	30.0	0.158	8.73	377	0.8	< 0.5	396	273	< 1	15	< 2	33	3.40	4	< 10	51	< 0.5	10	1.32	4
1232011032	9.79	31.3	21.5	13.5	2.32	9.30	12	0.2	< 0.5	20	716	1	30	< 2	110	1.73	7	< 10	83	< 0.5	< 2	1.62	11
1226007125	60.3	12.6	-47.7	65.8	0.192	8.59	247	4.8	< 0.5	13	493	2	23	4	148	1.97	17	< 10	25	< 0.5	4	0.72	11
1226007198	11.1	9.34	-1.80	14.7	0.635	9.13	110	0.5	< 0.5	92	383	4	14	3	163	3.06	7	< 10	68	< 0.5	3	1.42	11
1227031099	36.5	27.0	-9.59	47.8	0.564	9.10	84	0.4	2.1	81	499	3	18	2	606	1.51	11	< 10	37	< 0.5	4	1.30	9
1226007173	32.7	8.11	-24.6	48.4	0.168	9.02	278	1.5	< 0.5	116	289	2	17	< 2	108	2.19	16	< 10	35	< 0.5	3	0.62	10
1227031090	46.0	22.0	-24.1	55.1	0.398	9.07	53	0.4	4.6	113	532	5	21	< 2	1190	1.32	6	< 10	39	< 0.5	5	0.99	11
1226007169	43.5	9.34	-34.2	52.1	0.179	9.01	168	4.0	1.0	55	574	1	13	2	339	2.09	23	< 10	32	< 0.5	7	0.66	9
1227015183	16.8	44.5	27.7	24.5	1.82	8.81	50	0.6	< 0.5	29	832	1	16	18	129	2.24	27	12	47	< 0.5	4	2.36	7
1227031052	33.7	32.9	-0.860	40.7	0.807	8.85	98	0.3	1.0	67	626	3	20	< 2	314	1.67	7	< 10	43	< 0.5	3	1.54	10
1226007163	43.8	10.8	-33.0	51.5	0.211	9.05	286	4.1	3.6	112	403	1	14	2	929	1.77	22	< 10	34	< 0.5	7	0.67	10
1227031007	35.1	35.7	0.650	44.1	0.810	9.20	279	0.4	3.2	119	645	3	22	< 2	813	1.40	7	< 10	39	< 0.5	4	1.52	9
1226007129	32.3	13.5	-18.8	44.7	0.302	9.16	130	1.6	0.8	41	395	< 1	15	2	247	1.85	25	< 10	39	< 0.5	7	0.65	8
v860667							957	2.3	< 0.5	59	382	10	16	8	57	1.62	< 2	< 10	84	< 0.5	< 2	1.30	16
1226022040	98.6	34.7	-63.9	119	0.291	8.67	307	3.3	4.6	88	672	1	43	8	1230	1.73	24	< 10	18	< 0.5	< 2	1.53	34
1226022097	37.0	7.47	-29.5	44.7	0.167	8.77	68	0.4	< 0.5	46	280	2	10	< 2	84	3.24	10	< 10	47	< 0.5	6	1.30	9
1226022157	42.5	9.62	-32.9	49.3	0.195	8.84	637	1.7	2.3	252	667	2	19	< 2	563	2.69	15	< 10	45	< 0.5	< 2	1.16	10
1226022080	22.7	28.6	5.88	29.1	0.982	8.81	101	1.0	1.4	32	652	2	26	6	368	1.69	22	< 10	55	< 0.5	2	1.60	15
1226022029	109	34.0	-74.9	137	0.248	8.40	796	1.7	11.1	254	1040	1	43	3	2630	2.80	40	< 10	18	< 0.5	7	1.18	24
1226022006	21.3	29.2	7.90	29.1	1.00	9.32	111	0.3	0.8	20	655	< 1	17	< 2	203	1.63	16	< 10	53	< 0.5	3	1.41	10
1226022027	24.4	7.10	-17.3	36.8	0.193	8.87	89	0.4	1.3	66	512	1	14	< 2	325	2.37	10	< 10	45	< 0.5	4	0.78	9
1226014304	40.8	9.73	-31.1	47.8	0.204	8.79	342	0.4	0.6	111	320	3	17	2	148	2.24	< 2	< 10	27	< 0.5	< 2	1.40	12
1226014310	62.4	14.1	-48.3	71.4	0.197	8.70	126	0.6	1.3	119	435	6	21	4	341	1.97	11	< 10	27	< 0.5	3	1.48	12
1226022002	98.1	32.4	-65.7	112	0.289	8.51	78	0.6	< 0.5	59	697	2	49	2	190	2.40	24	< 10	20	< 0.5	2	1.38	30
1227030044	55.0	32.8	-22.2	68.6	0.478	8.76	912	11.2	0.9	60	698	2	29	3	266	1.99	16	< 10	36	< 0.5	4	1.66	16
1226022001	133	28.5	-104	153	0.186	8.57	98	1.1	0.9	83	746	< 1	66	3	364	2.50	36	< 10	16	< 0.5	3	1.28	46
1227030123	39.1	46.4	7.35	45.9	1.01	8.84	66	1.1	0.7	82	764	2	37	4	178	1.87	9	< 10	55	< 0.5	7	2.21	11
1227041073	15.2	48.7	33.5	22.7	2.15	9.30	70	0.2	< 0.5	64	454	2	14	< 2	121	1.01	3	< 10	120	< 0.5	4	2.18	4
1227041031	40.2	7.60	-32.6	46.5	0.163	8.73	226	0.4	< 0.5	36	284	< 1	13	4	47	1.68	12	< 10	39	< 0.5	5	0.69	10
1226014376	40.4	18.2	-22.2	46.9	0.389	8.82	57	< 0.2	< 0.5	71	325	3	15	3	54	2.06	3	< 10	47	< 0.5	< 2	1.51	12
1227030073	23.6	15.2	-8.44	28.8	0.528	8.81	89	0.7	0.5	60	724	< 1	30	< 2	216	1.91	9	< 10	58	< 0.5	4	0.98	10
1226014209	43.0	21.0	-22.0	52.1	0.403	8.68	472	0.6	0.5	91	411	4	13	< 2	151	1.49	8	< 10	32	< 0.5	< 2	1.31	9
1226014199	2.18	8.60	6.42	5.21	1.65	9.28	12	< 0.2	0.6	116	427	1	46	< 2	80	5.51	< 2	< 10	15	< 0.5	< 2	3.61	22
1227041009	72.4	12.5	-59.9	89.4	0.140	8.65	128	1.7	1.5	189	326	< 1	12	2	448	1.50	8	< 10	25	< 0.5	9	0.67	5

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
V860668							977	1.7	< 0.5	87	225	12	9	27	54	1.28	< 2	< 10	49	< 0.5	< 2	0.85	7
1227035138	95.9	49.4	-46.5	112	0.442	8.74	1020	2.9	0.6	33	856	1	20	32	132	1.26	129	< 10	26	< 0.5	< 2	1.94	15
1227014132	4.79	11.7	6.92	8.57	1.37	9.31	24	< 0.2	< 0.5	109	582	1	59	< 2	84	4.85	< 2	< 10	17	< 0.5	< 2	3.37	25
1226014230	40.9	13.4	-27.6	47.8	0.280	9.06	239	0.5	0.7	119	449	3	23	< 2	179	1.34	10	< 10	52	< 0.5	4	0.88	10
1226014020	45.3	19.9	-25.4	54.2	0.367	8.57	431	0.6	1.2	84	610	3	22	4	281	1.85	14	< 10	38	< 0.5	< 2	1.48	9
1227035131	22.8	41.6	18.8	30.6	1.36	9.02	80	0.4	0.6	69	893	2	33	16	214	3.32	17	< 10	60	< 0.5	< 2	2.92	17
1227035025	4.37	9.86	5.49	8.57	1.15	9.24	17	0.3	< 0.5	114	445	< 1	41	< 2	63	5.21	3	< 10	19	< 0.5	< 2	3.57	20
1226014013	5.00	5.87	0.873	4.90	1.20	9.18	10	< 0.2	< 0.5	116	392	1	49	< 2	54	5.49	< 2	< 10	16	< 0.5	< 2	3.54	22
1226014334	44.6	28.4	-16.1	50.8	0.559	9.76	59	0.4	0.9	111	495	3	18	< 2	239	1.39	7	< 10	35	< 0.5	3	1.32	10
1226014051	73.2	11.7	-61.5	80.5	0.146	8.65	137	1.3	< 0.5	262	252	3	22	4	88	1.29	14	< 10	26	< 0.5	6	0.72	10
1227035270	10.4	14.7	4.31	15.6	0.942	8.83	24	1.3	< 0.5	137	594	< 1	17	5	100	2.39	11	< 10	33	< 0.5	< 2	0.99	11
1226014121	40.0	16.0	-24.0	49.0	0.326	9.24	33	< 0.2	0.5	47	361	2	20	< 2	192	1.03	6	< 10	42	< 0.5	5	0.97	8
1226014251	58.5	9.84	-48.7	68.0	0.145	8.47	380	0.9	5.5	72	585	< 1	14	12	1190	2.01	97	< 10	27	< 0.5	< 2	0.81	10
1226014289	41.3	18.0	-23.4	47.5	0.379	8.87	114	0.4	1.3	74	639	3	16	< 2	297	2.02	7	< 10	48	< 0.5	4	1.61	9
1226014067	45.3	16.1	-29.2	55.1	0.292	9.15	37	0.4	0.7	78	344	3	13	< 2	177	1.77	5	< 10	37	< 0.5	5	0.99	9
1226014008	73.8	10.5	-63.3	84.5	0.124	8.57	204	0.6	< 0.5	169	361	2	19	2	88	1.80	9	< 10	28	< 0.5	5	0.56	10
1226014050	61.2	15.1	-46.2	69.2	0.218	8.71	140	0.6	0.6	110	298	3	19	5	114	1.49	11	< 10	29	< 0.5	5	0.89	10
1227035123	5.20	22.2	17.0	9.80	2.27	9.00	9	0.8	< 0.5	57	641	< 1	20	8	60	2.65	9	< 10	38	< 0.5	4	1.70	9
1227035032	2.33	90.2	87.9	44.7	2.02	8.95	68	1.1	< 0.5	26	1100	1	21	9	63	1.64	73	< 10	38	< 0.5	2	3.74	12
1226004260	33.5	14.7	-18.8	45.9	0.320	8.47	56	0.6	< 0.5	10	494	< 1	11	15	89	2.83	18	< 10	40	< 0.5	4	1.43	6
V860669							3360	2.6	< 0.5	39	242	16	12	13	42	1.32	4	< 10	53	< 0.5	< 2	0.85	7
1227016047	62.1	10.9	-51.3	89.1	0.122	8.75	110	1.5	24.6	87	168	1	16	9	6100	0.86	73	< 10	17	< 0.5	< 2	0.71	12
1227016045	84.6	32.5	-52.2	112	0.289	8.78	484	5.3	60.6	178	416	< 1	18	26	> 10000	0.97	126	< 10	19	< 0.5	< 2	1.65	11
1227016024	0.412	1.87	1.46	3.67	0.510	7.90	7	< 0.2	< 0.5	11	182	< 1	7	< 2	40	2.13	< 2	< 10	18	< 0.5	< 2	0.44	5
1227016126	74.3	57.0	-17.3	90.0	0.633	8.89	318	3.0	4.7	91	1000	< 1	16	54	1040	0.96	101	< 10	28	< 0.5	3	2.26	13
1227016186	51.4	53.4	1.94	64.6	0.826	8.66	226	1.2	2.3	52	1090	< 1	11	16	461	1.46	52	< 10	32	< 0.5	< 2	2.39	12
1227016101	59.3	30.4	-28.9	69.5	0.437	8.73	470	1.8	3.1	37	440	< 1	19	19	753	0.92	67	< 10	26	< 0.5	2	1.18	8
1227016037	57.4	3.12	-54.3	68.3	0.0456	8.01	134	0.4	13.4	43	116	< 1	18	8	3110	1.94	129	< 10	17	0.6	4	0.45	10
1227016090	35.0	48.7	13.8	42.0	1.16	8.89	119	0.3	< 0.5	26	445	< 1	8	4	107	0.41	66	< 10	24	< 0.5	< 2	1.77	7
1226022182	28.1	7.00	-21.1	34.9	0.200	8.95	387	1.3	< 0.5	375	360	2	8	5	46	3.06	5	< 10	44	< 0.5	11	1.04	5
1227016057	27.5	43.0	15.5	34.6	1.24	8.84	255	2.0	5.4	41	445	< 1	14	7	1330	1.20	39	< 10	45	< 0.5	< 2	2.08	9
1227016050	72.2	22.8	-49.4	86.7	0.263	8.48	238	0.7	21.1	51	708	< 1	20	28	5150	1.24	51	< 10	21	< 0.5	2	1.13	10
1226022273	33.5	9.59	-23.9	38.9	0.247	8.85	224	0.8	0.6	145	411	13	19	< 2	140	3.74	13	< 10	61	< 0.5	3	1.55	10
1226022107	37.7	5.23	-32.5	44.1	0.119	8.75	64	0.7	< 0.5	169	280	< 1	15	< 2	83	2.60	15	< 10	49	< 0.5	3	0.49	8
1227016023	5.94	2.74	-3.20	5.82	0.471	7.69	11	< 0.2	< 0.5	15	198	< 1	12	2	49	2.37	9	< 10	47	0.6	< 2	0.45	7
1226022268	40.7	6.61	-34.1	45.3	0.146	8.67	275	0.5	< 0.5	203	238	2	19	< 2	26	3.52	4	< 10	45	< 0.5	8	1.33	6
1227016020	80.4	0.624	-79.8	94.6	0.00660	8.17	279	0.6	6.3	26	108	< 1	14	7	1670	0.92	144	< 10	11	< 0.5	2	0.15	11
1227016240	15.7	128	112	27.0	4.74	8.89	20	0.5	< 0.5	32	1260	< 1	194	8	88	2.34	21	< 10	30	< 0.5	< 2	6.43	28
1227016014	105	2.25	-103	119	0.0189	7.86	116	0.7	10.0	29	109	< 1	17	11	2630	0.71	89	< 10	13	< 0.5	< 2	0.18	12
1226022172	67.5	4.12	-63.4	77.8	0.0530	8.75	> 5000	6.2	< 0.5	669	532	2	21	3	104	2.85	28	< 10	19	< 0.5	11	0.33	13
1226022300	32.5	26.1	-6.40	39.8	0.655	8.96	170	0.3	< 0.5	52	375	2	16	< 2	67	2.93	8	< 10	44	< 0.5	3	1.96	13
1226022171	53.3	5.85	-47.5	61.9	0.0946	8.81	427	1.1	< 0.5	208	549	1	23	2	148	3.16	23	< 10	25	< 0.5	7	0.75	13
1227016247	47.4	91.5	44.1	63.1	1.45	8.93	143	1.4	1.5	29	1880	< 1	13	23	390	0.98	147	< 10	38	< 0.5	3	3.24	7
1226022163	34.4	49.9	15.6	42.9	1.16	9.14	178	1.0	1.1	94	736	< 1	69	3	293	2.37	21	< 10	56	< 0.5	< 2	2.45	18
1226022265	24.9	7.73	-17.2	29.1	0.266	8.76	377	1.2	< 0.5	300	367	7	13	< 2	41	3.13	5	< 10	53	< 0.5	8	1.05	5
1226022229	27.5	5.49	-22.0	33.1	0.166	8.80	473	2.8	< 0.5	1010	385	10	15	5	73	2.25	7	< 10	48	< 0.5	12	0.48	7
V860670							1610	9.6	< 0.5	51	332	20	12	6	54	1.55	< 2	< 10	84	< 0.5	< 2	1.12	14
1227041039	44.8	33.7	-11.1	51.5	0.655	8.68	66	0.7	< 0.5	138	351	< 1	13	4	41	1.41	15	< 10	45	< 0.5	5	1.50	6
1226014082	83.2	11.7	-71.5	95.2	0.123	8.61	188	1.1	< 0.5	191	387	7	21	3	87	2.30	16	< 10	20	< 0.5	6	1.14	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226014293	48.5	14.6	-33.9	57.9	0.253	9.14	39	0.4	< 0.5	72	472	3	25	< 2	124	1.85	7	< 10	40	< 0.5	3	1.23	9
1224035235	50.5	14.4	-36.1	57.0	0.252	8.75	124	0.5	3.4	26	250	< 1	19	8	828	1.27	47	< 10	28	< 0.5	2	0.95	9
1226014074	53.9	12.6	-41.3	63.4	0.199	9.02	51	< 0.2	< 0.5	87	298	3	14	< 2	116	1.82	6	< 10	33	< 0.5	4	1.24	11
1227035005	44.0	3.61	-40.4	52.7	0.0686	8.34	207	0.8	3.9	70	856	< 1	14	19	1170	2.01	115	< 10	37	0.6	5	0.42	11
1226014211	46.5	14.5	-32.1	54.8	0.264	9.26	153	0.8	1.9	111	520	3	15	< 2	482	1.39	13	< 10	43	< 0.5	3	1.16	9
1227035160	78.8	16.8	-62.0	87.0	0.194	8.24	92	1.6	3.5	55	283	< 1	18	6	898	1.12	101	< 10	26	< 0.5	2	0.83	11
1227035019	38.4	51.1	12.7	44.1	1.16	8.93	147	1.8	0.8	20	1300	< 1	14	33	250	1.86	50	< 10	37	< 0.5	< 2	2.26	8
1227041095	23.3	46.4	23.1	28.5	1.63	8.95	47	0.2	< 0.5	40	396	< 1	10	< 2	57	1.06	2	< 10	90	< 0.5	2	2.00	4
1227035241	45.7	64.8	19.1	52.7	1.23	8.66	142	0.7	1.9	28	692	< 1	15	10	476	0.43	46	< 10	24	< 0.5	2	2.64	7
1226014265	55.1	10.7	-44.4	61.9	0.173	8.66	64	0.5	1.1	101	480	3	19	4	273	1.90	9	< 10	38	< 0.5	2	1.09	10
1227035084	100	14.4	-85.7	111	0.130	8.11	96	0.7	2.5	26	399	1	24	8	574	0.86	182	< 10	19	< 0.5	< 2	0.88	15
1226014024	59.7	14.2	-45.5	65.5	0.217	8.67	75	0.8	2.1	98	363	1	14	4	521	1.73	12	< 10	35	< 0.5	7	1.03	9
1224035151	43.7	20.0	-23.7	67.1	0.298	8.47	181	0.8	5.8	43	387	1	26	7	1490	0.83	103	< 10	25	< 0.5	< 2	0.94	16
1227035096	40.7	67.8	27.1	53.6	1.26	8.83	142	1.8	< 0.5	38	1180	4	17	28	148	1.62	97	< 10	36	< 0.5	3	2.85	10
1227035217	48.7	28.4	-20.3	61.6	0.461	8.75	433	2.2	1.3	37	1090	< 1	16	57	421	1.13	82	< 10	28	< 0.5	4	2.25	11
1227035021	139	49.9	-89.6	170	0.293	8.20	256	6.9	0.8	33	741	2	27	25	192	1.25	119	< 10	16	< 0.5	< 2	1.77	20
V860671							1130	4.7	< 0.5	24	140	7	6	< 2	27	0.64	< 2	< 10	24	< 0.5	4	0.60	5
1226015038	11.5	79.5	67.9	19.9	3.99	9.02	22	0.3	< 0.5	122	707	< 1	57	< 2	50	5.24	< 2	10	15	< 0.5	< 2	3.83	27
1226015155	3.13	19.5	16.3	3.06	6.35	8.92	6	0.3	< 0.5	119	696	< 1	56	< 2	49	5.20	< 2	10	16	< 0.5	< 2	3.76	27
1227042199	30.1	13.8	-16.3	35.8	0.386	8.95	32	0.3	< 0.5	46	252	2	14	< 2	84	1.93	9	< 10	35	< 0.5	6	0.97	9
1227042091	28.9	58.0	29.0	35.8	1.62	8.89	112	0.9	1.2	42	564	1	12	2	320	2.12	11	< 10	39	< 0.5	5	1.83	8
1226015356	14.3	7.09	-7.17	18.7	0.380	8.81	15	< 0.2	< 0.5	25	448	1	11	4	268	3.12	3	< 10	60	< 0.5	2	1.24	10
1226015255	3.13	11.7	8.59	3.06	3.82	9.04	6	< 0.2	< 0.5	112	677	< 1	55	< 2	74	5.10	2	< 10	14	< 0.5	< 2	3.46	25
1226015228	17.9	8.84	-9.07	23.3	0.380	8.72	26	0.2	0.9	18	592	1	10	22	331	2.94	7	10	35	< 0.5	2	1.21	10
1226015203	9.68	19.5	9.85	13.5	1.45	9.04	45	0.2	0.6	61	543	< 1	32	< 2	167	3.63	4	17	78	< 0.5	< 2	2.16	17
1226015100	29.4	8.11	-21.3	35.8	0.226	8.70	183	1.7	< 0.5	44	525	1	14	15	108	3.12	21	< 10	37	< 0.5	3	1.85	10
1226015265	46.8	10.1	-36.7	56.3	0.179	8.67	50	0.3	< 0.5	23	382	< 1	12	3	80	2.71	23	< 10	37	< 0.5	3	1.50	9
1226015222	13.5	11.0	-2.57	17.5	0.628	8.72	34	0.3	< 0.5	42	508	< 1	11	7	281	3.46	6	11	45	< 0.5	< 2	1.48	8
1226015159	29.8	11.9	-17.9	36.4	0.325	8.78	149	0.8	5.4	64	523	< 1	11	6	1330	3.04	9	11	38	< 0.5	4	1.43	9
1226015080	16.6	16.0	-0.600	23.0	0.695	8.94	677	2.2	12.5	103	558	1	10	104	2430	3.21	4	19	49	< 0.5	4	1.50	8
1226015002	72.2	12.7	-59.5	81.8	0.155	8.65	182	0.4	< 0.5	113	429	1	13	5	68	1.80	12	< 10	28	< 0.5	4	0.85	9
1226015062	22.8	22.3	-0.491	28.5	0.783	8.87	122	0.7	0.6	44	702	< 1	12	20	259	2.69	18	13	35	< 0.5	4	2.19	7
1227042115	95.3	12.1	-83.2	110	0.110	8.65	144	8.0	2.5	831	337	3	10	5	441	1.79	23	< 10	17	< 0.5	44	0.82	12
1226015064	32.7	13.0	-19.7	39.8	0.326	8.80	466	0.7	2.4	121	464	1	10	6	881	2.20	10	13	45	< 0.5	3	1.02	10
1226015106	15.7	21.8	6.12	20.8	1.05	8.87	65	0.3	< 0.5	41	414	1	19	6	77	3.14	3	23	58	< 0.5	2	1.81	13

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
V860672	12	3.81	< 10	< 1	0.30	11	0.66	0.168	0.070	0.07	< 2	5	30	0.43	6	< 2	< 10	114	< 10	15	16		
1226011011	211	2.59	< 10	< 1	0.24	17	1.01	0.177	0.050	0.61	< 2	2	153	0.02	4	< 2	< 10	24	< 10	3	9	0.11	0.57
1226006098	531	2.77	< 10	< 1	0.27	18	0.77	0.153	0.040	1.38	3	1	80	0.01	< 1	< 2	< 10	16	< 10	3	13	0.25	1.37
1228038168	257	3.44	< 10	< 1	0.37	15	0.39	0.043	0.052	3.38	< 2	< 1	26	< 0.01	2	< 2	< 10	8	< 10	3	13	0.66	3.10
1226006013	265	2.82	< 10	< 1	0.38	25	1.46	0.054	0.062	1.10	< 2	1	29	0.01	< 1	< 2	< 10	21	< 10	2	8	0.30	1.13
1228038203	283	2.35	< 10	< 1	0.40	15	0.91	0.128	0.046	1.61	2	1	50	0.03	< 1	< 2	< 10	16	< 10	2	14	0.60	1.51
1226006023	276	2.15	< 10	< 1	0.25	16	0.76	0.062	0.038	1.34	< 2	< 1	36	0.01	< 1	< 2	< 10	10	< 10	2	13	0.32	1.26
1226006042	490	2.19	< 10	< 1	0.24	16	0.77	0.087	0.039	1.24	3	< 1	53	< 0.01	2	< 2	< 10	11	< 10	1	12	0.28	1.17
1228038292	245	5.28	< 10	2	0.06	< 10	2.24	0.496	0.021	0.09	3	8	73	0.24	< 1	< 2	< 10	148	< 10	4	3	0.16	0.09
1228038298	302	2.91	< 10	< 1	0.49	15	1.19	0.064	0.045	1.49	2	2	35	0.04	2	< 2	< 10	21	< 10	2	14	0.56	1.48
1226006044	285	2.12	< 10	< 1	0.36	19	0.88	0.059	0.046	1.37	< 2	< 1	37	< 0.01	2	< 2	< 10	10	< 10	1	10	0.30	1.29
1227015017	397	2.64	< 10	< 1	0.25	15	1.33	0.096	0.047	0.86	3	1	161	0.01	1	< 2	< 10	17	< 10	2	7	0.31	0.79
1227015066	281	5.35	< 10	2	0.05	< 10	2.69	0.428	0.019	0.09	< 2	10	79	0.21	1	< 2	< 10	140	< 10	4	3	0.25	0.09
1227015148	288	2.28	< 10	< 1	0.33	12	0.90	0.090	0.035	1.34	< 2	1	99	0.02	< 1	< 2	< 10	11	< 10	2	15	0.27	1.36
1227015347	302	2.55	< 10	< 1	0.26	13	1.02	0.038	0.046	2.33	8	< 1	44	< 0.01	4	< 2	< 10	6	< 10	2	11	1.16	2.27
1226006001	322	2.64	< 10	< 1	0.31	15	0.80	0.064	0.039	1.42	< 2	< 1	38	< 0.01	< 1	< 2	< 10	12	< 10	2	8	0.29	1.36
1226006416	352	3.04	< 10	< 1	0.27	27	1.62	0.171	0.063	1.26	< 2	2	93	0.02	1	< 2	< 10	23	< 10	3	10	0.39	1.23
1226006433	455	2.34	< 10	< 1	0.28	15	0.72	0.126	0.039	1.34	2	< 1	59	< 0.01	2	< 2	< 10	11	< 10	2	9	0.27	1.26
1227015135	204	2.34	< 10	< 1	0.29	15	0.92	0.077	0.044	1.12	2	1	70	0.02	< 1	< 2	< 10	17	< 10	2	11	0.23	1.08
1227015270	388	2.26	< 10	< 1	0.21	17	0.46	0.034	0.042	1.76	3	< 1	44	< 0.01	2	< 2	< 10	4	< 10	3	8	1.21	1.82
1226006435	363	2.29	< 10	< 1	0.25	15	0.85	0.073	0.036	1.01	< 2	< 1	45	< 0.01	< 1	< 2	< 10	11	< 10	1	8	0.39	0.96
1227015137	284	1.98	< 10	< 1	0.30	< 10	0.65	0.042	0.035	1.10	2	< 1	54	< 0.01	< 1	< 2	< 10	5	< 10	< 1	9	0.51	0.97
v860664	13	3.26	< 10	< 1	0.22	< 10	0.52	0.225	0.058	0.06	< 2	4	35	0.45	4	< 2	< 10	94	< 10	15	21		
1228038265	408	1.81	< 10	< 1	0.35	15	0.18	0.028	0.042	1.69	3	< 1	36	< 0.01	3	< 2	< 10	4	< 10	2	11	0.37	1.60
1226006152	264	2.58	< 10	< 1	0.34	11	0.86	0.259	0.034	0.88	< 2	1	157	0.02	< 1	< 2	< 10	15	< 10	2	11	0.15	0.89
1228038007	196	2.35	< 10	< 1	0.27	12	0.24	0.062	0.039	2.30	3	< 1	62	< 0.01	< 1	< 2	< 10	6	< 10	1	11	0.61	2.19
1228038091	210	3.82	< 10	< 1	0.36	10	0.50	0.037	0.040	4.04	5	< 1	29	< 0.01	2	< 2	< 10	5	< 10	2	12	0.58	3.87
1226006167	218	2.82	< 10	< 1	0.18	15	0.99	0.124	0.037	0.71	3	1	119	< 0.01	< 1	< 2	< 10	16	< 10	2	14	0.11	0.72
1228038065	222	1.85	< 10	< 1	0.38	17	0.19	0.036	0.067	1.62	4	< 1	25	< 0.01	< 1	< 2	< 10	6	< 10	2	7	0.38	1.19
1228038024	96	1.21	< 10	< 1	0.19	14	0.04	0.025	0.045	1.25	< 2	< 1	11	< 0.01	2	< 2	< 10	2	< 10	1	8	0.09	1.27
1226011024	194	2.52	< 10	< 1	0.20	18	0.98	0.147	0.054	0.92	< 2	1	110	0.02	< 1	< 2	< 10	14	< 10	2	8	0.14	0.82
1226006031	463	2.08	< 10	< 1	0.33	10	0.75	0.051	0.034	0.73	< 2	< 1	33	< 0.01	< 1	< 2	< 10	10	< 10	< 1	6	0.20	0.72
1226006195	302	3.53	< 10	< 1	0.39	< 10	0.52	0.033	0.032	2.32	3	< 1	14	0.02	< 1	< 2	< 10	6	< 10	2	16	0.30	2.28
1228038152	261	2.50	< 10	< 1	0.41	16	0.60	0.050	0.045	2.02	4	1	34	< 0.01	4	< 2	< 10	9	< 10	2	13	0.46	1.93
1226006169	267	3.03	< 10	< 1	0.13	< 10	1.30	0.112	0.036	0.82	2	2	105	< 0.01	3	< 2	< 10	19	< 10	2	14	0.14	0.81
1226006176	252	4.19	< 10	< 1	0.41	11	0.98	0.091	0.038	2.12	2	1	64	0.03	< 1	< 2	< 10	15	< 10	2	19	0.20	2.07
1228038422	135	2.79	< 10	< 1	0.37	13	0.63	0.035	0.043	2.33	2	< 1	33	< 0.01	3	< 2	< 10	8	< 10	3	9	0.98	2.43
1226006180	275	3.25	< 10	< 1	0.40	11	0.79	0.052	0.033	1.82	2	< 1	32	0.02	1	< 2	< 10	9	< 10	2	17	0.20	1.84
1226011015	182	2.27	< 10	< 1	0.14	18	0.79	0.091	0.052	0.68	3	1	118	0.02	3	< 2	< 10	14	< 10	2	3	0.10	0.69
1226006139	366	3.76	< 10	< 1	0.15	20	1.14	0.160	0.035	1.33	3	1	104	0.03	2	< 2	< 10	17	< 10	2	14	0.10	1.29
v860665	11	3.72	< 10	< 1	0.30	12	0.65	0.163	0.070	0.07	< 2	5	29	0.43	7	< 2	< 10	112	< 10	14	20		
1226007151	368	3.78	< 10	< 1	0.32	11	0.58	0.065	0.034	2.05	2	< 1	48	0.03	1	< 2	< 10	7	< 10	2	17	0.22	2.00
1226007127	287	2.27	< 10	< 1	0.36	13	1.14	0.104	0.038	1.54	< 2	< 1	45	0.03	5	< 2	< 10	10	< 10	1	17	0.26	1.47
1232011029	498	3.23	< 10	< 1	0.49	22	1.34	0.117	0.064	0.67	3	3	81	0.13	2	< 2	< 10	38	< 10	3	20	0.37	0.63
1227015273	732	4.53	10	< 1	0.07	39	3.94	0.032	0.158	0.81	4	13	63	0.04	3	< 2	< 10	93	< 10	5	9	1.36	0.79
1227031036	207	2.77	< 10	< 1	0.16	15	0.96	0.061	0.044	2.02	< 2	2	30	< 0.01	3	< 2	< 10	17	11	3	16	0.25	1.93
1227015010	209	4.80	< 10	< 1	0.35	13	0.64	0.032	0.045	4.78	3	1	43	0.02	1	< 2	< 10	13	< 10	2	19	0.22	4.72
1227015169	266	2.08	< 10	< 1	0.39	14	0.91	0.037	0.037	0.92	< 2	1	33	0.05	< 1	< 2	< 10	12	< 10	2	16	0.26	0.85
1227015200	138	4.74	< 10	1	0.05	< 10	2.05	0.516	0.019	0.09	< 2	8	69	0.20	< 1	< 2	< 10	134	< 10	4	3	0.16	0.10
1227015240	330	5.42	< 10	< 1	0.06	< 10	2.26	0.514	0.022	0.14	< 2	8	76	0.22	< 1	< 2	< 10	140	< 10	4	4	0.32	0.12
1227016117	99	1.53	< 10	< 1	0.25	14	0.56	0.025	0.042	1.52	3	< 1	26	< 0.01	2	< 2	< 10	3	< 10	2	8	0.79	1.50

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227015037	228	3.68	< 10	< 1	0.27	13	0.91	0.059	0.039	2.56	< 2	< 1	54	< 0.01	< 1	< 2	< 10	8	< 10	2	19	0.19	2.52
1227015289	134	2.15	< 10	< 1	0.31	12	0.91	0.032	0.041	1.65	< 2	< 1	37	< 0.01	< 1	< 2	< 10	6	< 10	2	8	1.07	1.63
1227015126	132	4.53	< 10	2	0.07	< 10	1.84	0.517	0.019	0.08	< 2	6	61	0.20	2	< 2	< 10	132	< 10	4	3	0.12	0.07
1227016146	272	2.97	< 10	< 1	0.31	13	0.32	0.037	0.042	3.09	9	< 1	29	< 0.01	1	< 2	< 10	6	< 10	2	16	0.34	2.95
1227015245	46	2.30	< 10	< 1	0.44	16	0.78	0.032	0.045	1.98	4	< 1	41	< 0.01	1	< 2	< 10	8	< 10	2	10	0.79	1.84
1227015077	149	2.13	< 10	< 1	0.27	12	1.52	0.099	0.034	0.65	< 2	1	59	< 0.01	3	< 2	< 10	12	< 10	1	9	0.30	0.62
v860666	12	3.20	< 10	< 1	0.25	16	0.43	0.160	0.048	0.04	< 2	3	47	0.30	3	< 2	< 10	58	< 10	16	24		
1227015257	366	2.35	< 10	< 1	0.29	14	0.93	0.103	0.039	1.46	< 2	< 1	119	< 0.01	< 1	< 2	< 10	8	< 10	2	11	0.79	1.33
1226007069	315	2.93	< 10	< 1	0.17	10	0.75	0.130	0.035	1.45	< 2	1	114	< 0.01	2	< 2	< 10	11	< 10	2	16	0.16	1.47
1226007022	467	3.08	< 10	< 1	0.19	11	0.51	0.228	0.033	1.64	3	< 1	157	0.03	< 1	< 2	< 10	7	< 10	2	17	0.23	1.68
1226007074	305	1.84	< 10	< 1	0.24	13	1.05	0.149	0.036	0.93	< 2	1	143	< 0.01	< 1	< 2	< 10	12	< 10	2	11	0.17	0.86
1226007051	341	2.66	< 10	< 1	0.20	12	0.95	0.091	0.041	2.01	3	1	75	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.20	1.92
1226007100	276	3.22	< 10	< 1	0.28	11	0.73	0.093	0.034	1.66	3	< 1	81	0.02	< 1	< 2	< 10	10	< 10	2	15	0.15	1.63
1226007019	453	3.07	< 10	< 1	0.18	11	0.69	0.212	0.034	1.02	< 2	< 1	145	0.03	2	< 2	< 10	8	< 10	2	17	0.12	0.98
1232011032	616	2.98	< 10	< 1	0.50	22	0.99	0.079	0.058	0.46	2	3	43	0.12	4	< 2	< 10	34	< 10	3	16	0.45	0.44
1226007125	474	3.40	< 10	< 1	0.25	14	1.39	0.079	0.051	2.27	< 2	1	39	< 0.01	3	< 2	< 10	13	< 10	2	15	0.29	2.15
1226007198	193	2.41	< 10	< 1	0.33	14	1.57	0.089	0.039	0.50	< 2	2	69	0.05	< 1	< 2	< 10	20	< 10	2	14	0.24	0.48
1227031099	352	2.58	< 10	< 1	0.20	14	0.91	0.095	0.039	1.63	3	1	57	< 0.01	< 1	< 2	< 10	14	< 10	3	14	0.41	1.56
1226007173	265	3.23	< 10	< 1	0.35	13	1.60	0.036	0.040	1.56	< 2	1	27	0.04	< 1	< 2	< 10	16	< 10	2	18	0.22	1.58
1227031090	475	2.80	< 10	< 1	0.22	14	0.93	0.068	0.041	1.85	2	2	30	< 0.01	< 1	< 2	< 10	17	< 10	3	19	0.31	1.80
1226007169	170	2.99	< 10	< 1	0.21	12	1.38	0.085	0.038	1.79	< 2	< 1	42	< 0.01	4	< 2	< 10	10	< 10	2	17	0.17	1.70
1227015183	266	2.10	< 10	< 1	0.30	12	0.87	0.066	0.036	0.86	< 2	< 1	78	0.01	< 1	< 2	< 10	8	< 10	2	7	0.63	0.80
1227031052	424	2.69	< 10	< 1	0.20	15	0.85	0.114	0.039	1.34	2	1	57	< 0.01	3	< 2	< 10	14	< 10	2	11	0.51	1.33
1226007163	221	2.68	< 10	< 1	0.29	13	1.46	0.034	0.036	1.58	2	< 1	20	< 0.01	6	< 2	< 10	11	< 10	2	13	0.23	1.68
1227031007	536	2.81	< 10	< 1	0.14	13	0.99	0.086	0.036	1.44	3	1	51	< 0.01	2	< 2	< 10	16	< 10	2	14	0.54	1.44
1226007129	268	2.52	< 10	< 1	0.41	13	1.29	0.041	0.042	1.52	< 2	< 1	21	< 0.01	2	< 2	< 10	10	< 10	1	13	0.25	1.46
v860667	12	3.85	< 10	< 1	0.30	11	0.67	0.178	0.071	0.07	< 2	5	33	0.45	6	3	< 10	118	< 10	15	16		
1226022040	136	4.41	< 10	< 1	0.35	< 10	0.99	0.078	0.060	3.84	< 2	4	30	0.08	3	< 2	< 10	59	< 10	7	14	0.48	3.90
1226022097	114	2.57	< 10	< 1	0.29	12	1.10	0.198	0.037	1.50	< 2	< 1	183	< 0.01	< 1	< 2	< 10	11	< 10	2	18	0.13	1.46
1226022157	204	3.11	< 10	< 1	0.22	15	1.38	0.191	0.048	1.59	< 2	2	87	0.04	2	< 2	< 10	21	< 10	3	17	0.22	1.61
1226022080	267	2.49	< 10	< 1	0.30	14	0.80	0.104	0.050	1.58	< 2	1	35	0.04	2	< 2	< 10	17	< 10	4	17	0.30	0.95
1226022029	292	7.34	< 10	1	0.15	12	2.19	0.057	0.059	4.20	4	7	34	0.07	5	< 2	< 10	92	< 10	8	18	0.44	4.48
1226022006	218	2.57	< 10	< 1	0.29	15	1.30	0.068	0.044	1.03	< 2	2	34	0.06	3	< 2	< 10	23	< 10	3	15	0.39	0.95
1226022027	187	2.71	< 10	< 1	0.21	17	1.47	0.132	0.044	1.26	< 2	< 1	59	0.01	3	< 2	< 10	12	< 10	3	14	0.16	1.20
1226014304	261	2.81	< 10	< 1	0.32	13	0.86	0.129	0.040	1.64	< 2	2	42	0.09	2	< 2	< 10	29	< 10	3	15	0.24	1.56
1226014310	300	2.97	< 10	< 1	0.23	14	0.72	0.160	0.039	2.40	< 2	1	75	0.06	< 1	< 2	< 10	17	< 10	3	17	0.24	2.33
1226022002	379	5.88	< 10	3	0.58	< 10	1.54	0.101	0.059	3.61	2	6	56	0.14	3	< 2	< 10	99	< 10	7	12	0.45	3.66
1227030044	536	3.97	< 10	< 1	0.29	12	1.22	0.099	0.049	2.25	< 2	3	59	0.08	9	< 2	< 10	42	< 10	4	15	0.48	2.24
1226022001	332	7.17	< 10	3	0.58	< 10	1.49	0.104	0.079	4.90	3	8	54	0.16	2	< 2	< 10	133	< 10	9	9	0.39	5.01
1227030123	283	2.69	< 10	< 1	0.26	18	1.28	0.077	0.049	1.55	< 2	2	49	0.01	2	< 2	< 10	16	< 10	3	11	0.71	1.50
1227041073	405	2.01	< 10	< 1	0.30	54	0.37	0.062	0.068	0.82	< 2	< 1	96	< 0.01	6	< 2	< 10	7	< 10	4	3	0.66	0.74
1227041031	204	2.72	< 10	< 1	0.14	19	0.90	0.104	0.046	1.51	< 2	1	41	< 0.01	3	< 2	< 10	13	< 10	2	12	0.16	1.52
1226014376	227	2.78	< 10	< 1	0.33	13	0.86	0.091	0.040	1.65	< 2	2	43	0.10	< 1	< 2	< 10	23	< 10	3	17	0.27	1.53
1227030073	259	2.60	< 10	< 1	0.20	18	1.21	0.099	0.045	1.00	< 2	2	65	0.03	2	< 2	< 10	15	< 10	2	12	0.31	0.94
1226014209	218	2.36	< 10	< 1	0.17	14	0.70	0.131	0.036	1.72	< 2	1	75	0.04	< 1	< 2	< 10	14	< 10	2	14	0.34	1.70
1226014199	290	4.37	< 10	2	0.03	< 10	1.48	0.542	0.020	0.15	< 2	4	63	0.19	< 1	3	< 10	122	< 10	3	3	0.15	0.17
1227041009	177	3.78	< 10	< 1	0.18	13	0.94	0.061	0.039	3.15	3	< 1	24	< 0.01	4	< 2	< 10	7	< 10	2	18	0.18	2.92
V860668	15	1.90	< 10	< 1	0.25	14	0.45	0.174	0.047	0.05	< 2	3	31	0.27	4	< 2	< 10	56	< 10	17	26		
1227035138	229	3.74	< 10	< 1	0.40	15	0.49	0.051	0.051	3.77	3	< 1	26	< 0.01	3	< 2	< 10	9	< 10	3	18	0.70	3.65
1227014132	321	4.69	< 10	3	0.03	< 10	2.03	0.342	0.021	0.24	< 2	5	94	0.22	< 1	< 2	< 10	115	< 10	3	5	0.20	0.28
1226014230	597	2.94	< 10	< 1	0.28	14	0.71	0.078	0.039	1.59	2	2	26	0.06	< 1	< 2	< 10	22	< 10	3	19	0.27	1.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226014020	361	2.28	< 10	< 1	0.22	17	0.79	0.168	0.047	1.84	< 2	< 1	53	< 0.01	< 1	< 2	< 10	8	< 10	3	19	0.30	1.77
1227035131	289	3.59	< 10	< 1	0.38	13	1.50	0.199	0.040	1.10	< 2	4	53	0.10	< 1	< 2	< 10	53	< 10	3	11	0.57	1.00
1227035025	229	4.39	< 10	3	0.07	< 10	1.58	0.522	0.022	0.24	< 2	6	60	0.19	< 1	< 2	< 10	129	< 10	3	3	0.15	0.28
1226014013	311	4.35	< 10	1	0.04	< 10	1.60	0.490	0.019	0.14	2	4	66	0.19	< 1	< 2	< 10	122	< 10	3	3	0.18	0.16
1226014334	378	2.84	< 10	< 1	0.15	14	0.80	0.094	0.037	1.72	< 2	< 1	51	< 0.01	< 1	< 2	< 10	12	< 10	3	16	0.41	1.66
1226014051	511	3.42	< 10	< 1	0.17	15	0.73	0.090	0.042	2.83	< 2	< 1	39	0.01	2	< 2	< 10	12	< 10	3	21	0.22	2.63
1227035270	219	2.59	< 10	< 1	0.17	10	0.91	0.068	0.033	0.47	2	1	49	0.02	2	< 2	< 10	12	< 10	1	7	0.27	0.51
1226014121	433	2.32	< 10	< 1	0.16	14	0.74	0.056	0.040	1.55	< 2	1	22	0.01	< 1	< 2	< 10	15	< 10	2	17	0.28	1.60
1226014251	139	2.70	< 10	< 1	0.17	14	0.80	0.046	0.039	2.18	< 2	< 1	39	< 0.01	1	< 2	< 10	8	< 10	1	12	0.19	2.22
1226014289	339	2.51	< 10	< 1	0.19	13	0.78	0.165	0.036	1.57	< 2	1	101	0.04	< 1	< 2	< 10	16	< 10	2	14	0.28	1.55
1226014067	218	2.28	< 10	< 1	0.27	16	0.96	0.130	0.044	1.91	< 2	< 1	45	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.23	1.80
1226014008	390	3.68	< 10	< 1	0.22	17	1.28	0.076	0.039	2.88	< 2	< 1	28	< 0.01	4	< 2	< 10	10	< 10	3	22	0.25	2.76
1226014050	435	2.95	< 10	< 1	0.18	15	0.91	0.106	0.041	2.31	< 2	1	47	< 0.01	4	< 2	< 10	12	< 10	3	19	0.33	2.26
1227035123	424	2.25	< 10	< 1	0.19	12	0.68	0.191	0.036	0.35	3	1	118	0.03	2	< 2	< 10	12	< 10	1	9	0.33	0.32
1227035032	232	2.31	< 10	< 1	0.25	16	0.99	0.058	0.047	1.48	< 2	< 1	59	< 0.01	< 1	< 2	< 10	8	< 10	3	8	1.16	1.46
1226004260	220	2.28	< 10	< 1	0.22	16	0.80	0.097	0.044	1.56	< 2	< 1	117	0.01	2	< 2	< 10	10	< 10	2	16	0.22	1.50
V860669	15	2.05	< 10	< 1	0.27	13	0.52	0.176	0.049	0.05	< 2	3	30	0.27	4	< 2	< 10	61	< 10	17	19		
1227016047	151	2.72	< 10	< 1	0.19	11	0.14	0.030	0.038	3.20	3	< 1	35	< 0.01	2	< 2	< 10	3	< 10	1	13	0.17	2.91
1227016045	230	3.04	< 10	1	0.37	< 10	0.15	0.032	0.040	3.99	14	< 1	36	< 0.01	7	< 2	< 10	5	< 10	1	17	0.53	3.67
1227016024	68	0.94	< 10	< 1	0.03	< 10	0.34	0.029	0.028	0.12	< 2	1	21	< 0.01	< 1	< 2	< 10	10	11	< 1	7	0.03	0.12
1227016126	102	3.16	< 10	2	0.39	< 10	0.56	0.038	0.046	3.03	4	< 1	32	< 0.01	2	< 2	< 10	7	< 10	2	12	0.97	2.94
1227016186	62	2.80	< 10	< 1	0.31	15	0.83	0.031	0.049	2.27	2	1	45	0.04	2	< 2	< 10	10	< 10	3	12	0.73	2.11
1227016101	203	2.22	< 10	< 1	0.36	12	0.31	0.037	0.044	2.32	5	< 1	28	< 0.01	2	< 2	< 10	6	< 10	2	14	0.45	2.27
1227016037	206	2.41	< 10	< 1	0.29	< 10	0.31	0.052	0.040	2.33	4	< 1	39	< 0.01	3	< 2	< 10	9	< 10	< 1	13	0.02	2.23
1227016090	18	1.33	< 10	< 1	0.10	10	0.26	0.027	0.039	1.41	< 2	< 1	29	< 0.01	< 1	< 2	< 10	1	< 10	1	7	0.67	1.37
1226022182	129	3.31	< 10	< 1	0.21	11	1.12	0.180	0.032	1.06	< 2	< 1	135	< 0.01	1	< 2	< 10	9	< 10	2	13	0.13	1.14
1227016057	124	1.14	< 10	< 1	0.26	14	0.13	0.046	0.041	1.16	4	< 1	50	< 0.01	2	< 2	< 10	4	< 10	< 1	8	0.54	1.13
1227016050	364	2.73	< 10	< 1	0.23	< 10	0.27	0.040	0.040	2.89	3	< 1	47	< 0.01	< 1	< 2	< 10	5	< 10	1	12	0.48	2.83
1226022273	401	2.82	< 10	< 1	0.29	13	1.01	0.215	0.040	1.23	2	1	202	< 0.01	2	< 2	< 10	15	< 10	2	16	0.16	1.27
1226022107	359	2.85	< 10	< 1	0.26	11	1.45	0.089	0.037	1.40	< 2	< 1	72	< 0.01	3	< 2	< 10	11	< 10	2	22	0.05	1.44
1227016023	193	1.08	< 10	< 1	0.08	< 10	0.30	0.038	0.029	0.21	< 2	1	26	< 0.01	< 1	< 2	< 10	10	19	< 1	9	0.06	0.19
1226022268	551	3.12	< 10	< 1	0.21	11	0.70	0.264	0.035	1.50	3	< 1	167	< 0.01	< 1	< 2	< 10	11	< 10	2	14	0.15	1.48
1227016020	76	2.91	< 10	< 1	0.27	< 10	0.19	0.025	0.038	3.09	2	< 1	13	< 0.01	< 1	< 2	< 10	5	< 10	1	14	0.03	3.09
1227016240	792	4.19	< 10	< 1	0.14	18	4.23	0.027	0.096	0.82	4	12	156	< 0.01	< 1	< 2	< 10	64	< 10	4	3	3.42	0.88
1227016014	147	3.64	< 10	< 1	0.26	< 10	0.16	0.023	0.038	4.12	3	< 1	12	< 0.01	< 1	< 2	< 10	4	< 10	1	14	0.11	3.88
1226022172	269	4.21	< 10	< 1	0.31	13	1.68	0.076	0.043	2.58	4	2	45	< 0.01	7	< 2	< 10	20	< 10	3	26	0.09	2.54
1226022300	249	2.92	< 10	< 1	0.29	36	1.59	0.195	0.137	1.23	< 2	3	221	0.02	< 1	< 2	< 10	26	< 10	5	3	0.50	1.30
1226022171	341	3.76	< 10	< 1	0.27	14	1.54	0.168	0.045	2.10	4	2	82	< 0.01	4	< 2	< 10	21	< 10	3	23	0.10	2.02
1227016247	186	2.23	< 10	< 1	0.38	13	0.53	0.047	0.042	1.72	< 2	< 1	29	< 0.01	< 1	< 2	< 10	5	< 10	2	7	1.48	2.06
1226022163	231	3.68	< 10	< 1	0.35	19	1.78	0.064	0.097	1.39	< 2	3	51	0.12	< 1	< 2	< 10	40	< 10	5	21	0.60	1.40
1226022265	297	3.31	< 10	< 1	0.23	10	0.95	0.152	0.034	1.00	3	1	127	0.01	2	< 2	< 10	12	< 10	2	15	0.15	0.95
1226022229	217	3.35	< 10	< 1	0.25	11	0.85	0.071	0.035	1.04	2	1	75	0.02	2	< 2	< 10	13	< 10	2	19	0.11	1.08
V860670	13	3.54	< 10	< 1	0.22	11	0.52	0.233	0.058	0.06	3	4	38	0.46	7	< 2	< 10	95	< 10	15	19		
1227041039	276	2.97	< 10	< 1	0.20	30	0.82	0.047	0.053	1.74	< 2	< 1	66	< 0.01	1	< 2	< 10	6	< 10	3	11	0.48	1.68
1226014082	347	3.61	< 10	< 1	0.25	13	1.05	0.199	0.040	3.20	3	1	66	< 0.01	< 1	< 2	< 10	13	< 10	3	27	0.23	3.11
1226014293	285	2.64	< 10	< 1	0.18	14	0.85	0.174	0.039	1.93	< 2	1	106	0.04	2	< 2	< 10	15	< 10	3	16	0.31	1.89
1224035235	274	1.84	< 10	< 1	0.21	16	0.08	0.046	0.044	1.87	3	< 1	54	< 0.01	< 1	< 2	< 10	4	< 10	1	8	0.25	1.86
1226014074	205	2.85	< 10	< 1	0.24	16	1.12	0.055	0.043	2.14	< 2	2	20	0.06	2	< 2	< 10	19	< 10	3	19	0.21	2.07
1227035005	46	2.67	< 10	< 1	0.22	28	1.06	0.030	0.072	1.73	7	1	37	< 0.01	1	< 2	< 10	14	< 10	3	7	0.06	1.72
1226014211	265	2.51	< 10	< 1	0.26	14	0.83	0.082	0.040	1.88	< 2	1	43	0.04	1	< 2	< 10	14	< 10	3	20	0.31	1.79
1227035160	260	3.03	< 10	< 1	0.27	10	0.14	0.030	0.040	3.09	9	< 1	29	< 0.01	4	< 2	< 10	6	10	1	15	0.24	2.84

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227035019	246	2.21	< 10	< 1	0.32	14	1.28	0.072	0.036	1.46	< 2	< 1	43	< 0.01	< 1	< 2	< 10	8	< 10	2	13	0.70	1.44
1227041095	227	2.07	< 10	< 1	0.22	42	0.52	0.042	0.063	1.02	< 2	< 1	58	< 0.01	1	< 2	< 10	5	< 10	3	3	0.64	0.93
1227035241	260	1.74	< 10	< 1	0.20	< 10	0.18	0.022	0.040	1.75	< 2	< 1	22	< 0.01	1	< 2	< 10	2	< 10	2	8	0.88	1.72
1226014265	366	2.75	< 10	< 1	0.19	15	0.92	0.170	0.041	2.04	< 2	1	84	0.04	4	< 2	< 10	15	10	3	17	0.16	2.02
1227035084	329	3.63	< 10	< 1	0.28	11	0.23	0.026	0.032	3.86	4	< 1	21	< 0.01	< 1	< 2	< 10	5	< 10	1	16	0.38	3.62
1226014024	350	2.60	< 10	< 1	0.20	17	0.88	0.135	0.045	2.29	3	< 1	45	< 0.01	3	< 2	< 10	7	< 10	2	16	0.30	2.14
1224035151	337	3.18	< 10	< 1	0.26	13	0.17	0.028	0.031	3.38	4	< 1	28	< 0.01	< 1	< 2	< 10	4	< 10	1	14	0.26	2.19
1227035096	165	2.52	< 10	< 1	0.31	18	1.19	0.052	0.046	1.88	< 2	< 1	46	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.98	1.75
1227035217	167	2.92	< 10	< 1	0.26	17	0.58	0.043	0.048	2.24	3	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.80	2.01
1227035021	228	5.57	< 10	< 1	0.27	14	0.78	0.043	0.043	5.84	6	< 1	27	< 0.01	< 1	< 2	< 10	8	< 10	2	13	0.69	5.56
V860671	9	1.59	< 10	< 1	0.08	< 10	0.12	0.137	0.032	0.02	< 2	1	21	0.30	3	< 2	< 10	39	< 10	7	21		
1226015038	125	5.43	< 10	2	0.03	< 10	3.07	0.430	0.020	0.09	< 2	14	88	0.23	< 1	< 2	< 10	158	< 10	5	3	1.06	0.65
1226015155	123	5.46	< 10	< 1	0.03	< 10	3.02	0.424	0.020	0.10	< 2	13	86	0.22	< 1	< 2	< 10	157	< 10	4	3	0.23	0.10
1227042199	209	2.33	< 10	< 1	0.11	14	1.30	0.123	0.040	1.24	< 2	1	71	< 0.01	3	< 2	< 10	13	< 10	2	14	0.22	1.17
1227042091	159	2.24	< 10	< 1	0.16	13	1.03	0.116	0.038	1.30	< 2	< 1	51	< 0.01	3	< 2	< 10	9	< 10	2	10	0.45	1.17
1226015356	121	2.40	< 10	< 1	0.19	19	1.00	0.109	0.053	0.68	< 2	1	141	0.03	< 1	< 2	< 10	16	< 10	2	7	0.17	0.61
1226015255	123	4.70	< 10	< 1	0.03	< 10	2.48	0.409	0.020	0.09	< 2	9	75	0.20	3	< 2	< 10	127	< 10	4	4	0.16	0.10
1226015228	110	2.37	< 10	< 1	0.14	16	1.03	0.066	0.047	0.82	< 2	< 1	101	0.01	2	< 2	< 10	13	< 10	2	5	0.18	0.76
1226015203	104	3.41	< 10	< 1	0.30	11	1.82	0.172	0.038	0.40	3	6	62	0.10	3	< 2	< 10	67	< 10	3	10	0.26	0.44
1226015100	106	2.24	< 10	< 1	0.20	14	0.89	0.134	0.040	1.28	< 2	1	155	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.22	1.17
1226015265	102	2.56	< 10	< 1	0.24	17	0.96	0.168	0.043	2.15	< 2	< 1	130	0.02	< 1	< 2	< 10	9	< 10	2	23	0.14	1.84
1226015222	96	2.31	< 10	< 1	0.15	15	1.02	0.091	0.043	0.61	< 2	1	169	< 0.01	2	< 2	< 10	13	< 10	1	7	0.25	0.57
1226015159	83	2.67	< 10	< 1	0.15	15	1.03	0.100	0.044	1.25	< 2	1	131	0.02	1	< 2	< 10	18	< 10	2	13	0.15	1.19
1226015080	68	2.40	< 10	< 1	0.25	16	1.53	0.076	0.046	0.80	< 2	1	96	< 0.01	2	< 2	< 10	18	< 10	2	9	0.19	0.75
1226015002	140	3.37	< 10	< 1	0.17	15	1.14	0.039	0.036	2.68	< 2	< 1	40	< 0.01	2	< 2	< 10	8	< 10	2	17	0.37	2.67
1226015062	111	2.12	< 10	< 1	0.19	13	1.06	0.098	0.034	1.01	< 2	< 1	116	0.01	< 1	< 2	< 10	9	< 10	1	10	0.40	0.93
1227042115	64	4.40	< 10	< 1	0.30	14	1.05	0.050	0.042	3.82	3	< 1	34	0.02	2	< 2	< 10	10	< 10	2	25	0.18	3.58
1226015064	96	2.34	< 10	< 1	0.24	15	0.85	0.060	0.041	1.30	< 2	1	60	0.01	< 1	< 2	< 10	12	< 10	2	10	0.21	1.30
1226015106	104	2.66	< 10	< 1	0.27	15	1.59	0.117	0.041	0.68	< 2	4	79	0.06	< 1	< 2	< 10	41	< 10	3	11	0.26	0.68

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
V860672	
1226011011	
1226006098	
1228038168	
1226006013	
1228038203	
1226006023	
1226006042	
1228038292	
1228038298	
1226006044	
1227015017	
1227015066	
1227015148	
1227015347	
1226006001	
1226006416	
1226006433	
1227015135	
1227015270	
1226006435	
1227015137	
v860664	
1228038265	
1226006152	
1228038007	
1228038091	
1226006167	
1228038065	
1228038024	
1226011024	
1226006031	
1226006195	
1228038152	
1226006169	
1226006176	
1228038422	
1226006180	
1226011015	
1226006139	
v860665	
1226007151	
1226007127	
1232011029	
1227015273	
1227031036	
1227015010	
1227015169	
1227015200	
1227015240	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1227016117	
1227015037	
1227015289	
1227015126	
1227016146	
1227015245	
1227015077	
v860666	
1227015257	
1226007069	
1226007022	
1226007074	
1226007051	
1226007100	
1226007019	
1232011032	
1226007125	
1226007198	
1227031099	
1226007173	
1227031090	
1226007169	
1227015183	
1227031052	
1226007163	
1227031007	
1226007129	
v860667	
1226022040	
1226022097	
1226022157	
1226022080	
1226022029	
1226022006	
1226022027	
1226014304	
1226014310	
1226022002	
1227030044	
1226022001	
1227030123	
1227041073	
1227041031	
1226014376	
1227030073	
1226014209	
1226014199	
1227041009	
V860668	
1227035138	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1227014132	
1226014230	
1226014020	
1227035131	
1227035025	
1226014013	
1226014334	
1226014051	
1227035270	
1226014121	
1226014251	
1226014289	
1226014067	
1226014008	
1226014050	
1227035123	
1227035032	
1226004260	
V860669	
1227016047	
1227016045	
1227016024	
1227016126	
1227016186	
1227016101	
1227016037	
1227016090	
1226022182	
1227016057	
1227016050	
1226022273	
1226022107	
1227016023	
1226022268	
1227016020	
1227016240	
1227016014	
1226022172	10.4
1226022300	
1226022171	
1227016247	
1226022163	
1226022265	
1226022229	
V860670	
1227041039	
1226014082	
1226014293	
1224035235	
1226014074	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1227035005	
1226014211	
1227035160	
1227035019	
1227041095	
1227035241	
1226014265	
1227035084	
1226014024	
1224035151	
1227035096	
1227035217	
1227035021	
V860671	
1226015038	
1226015155	
1227042199	
1227042091	
1226015356	
1226015255	
1226015228	
1226015203	
1226015100	
1226015265	
1226015222	
1226015159	
1226015080	
1226015002	
1226015062	
1227042115	
1226015064	
1226015106	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	75	1050	1	24	93	130	7.31	249	< 10	778	0.9	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	75	1050	1	26	93	131	7.44	241	< 10	790	0.9	< 2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
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SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.4				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.4				8.35																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.58																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2320	771	< 1	34	56	272	2.96	8		86	0.8	6	0.42	21
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2350	768	< 1	35	60	268	3.00	7		86	0.8	6	0.42	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4660	863	< 1	32	80	353	3.07	9		74	0.7	22	0.43	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4500	846	< 1	33	75	350	2.94	4		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 218 Meas							528																
OREAS 218 Cert							531																
OREAS 218 Meas							533																
OREAS 218 Cert							531																
OREAS 218 Meas							527																
OREAS 218 Cert							531																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas							547																
OREAS 218 Cert							531																
OREAS 218 Meas							546																
OREAS 218 Cert							531																
OREAS 218 Meas							521																
OREAS 218 Cert							531																
OREAS 218 Meas							538																
OREAS 218 Cert							531																
OREAS 229 (Fire Assay) Meas																							
OREAS 229 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas								70.2	299	3800	536	13	24	> 5000	> 10000	1.89	82			0.6	< 2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.9	285	3650	508	13	23	> 5000	> 10000	1.72	79			0.6	< 2	1.55	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										369	166	< 1	227	9	27	7.50			141	1.1	3	0.07	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										355	167	< 1	222	3	27	7.37			141	1.0	5	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3020																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire							3030																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
1228038298 Orig							40																
1228038298 Dup							40																
1226006044 Orig																							
1226006044 Dup																							
1227015066 Orig								< 0.2	< 0.5	111	591	< 1	62	< 2	51	5.43	< 2	11	17	< 0.5	< 2	3.79	26
1227015066 Dup								< 0.2	< 0.5	112	601	< 1	64	< 2	51	5.52	< 2	11	16	< 0.5	< 2	3.82	26
1227015270 Orig							145																
1227015270 Dup							140																
1226006435 Orig																							
1226006435 Dup																							
1228038091 Orig								3.8	6.1	45	1070	< 1	14	393	1460	0.87	94	< 10	26	< 0.5	< 2	1.22	10
1228038091 Dup								4.3	6.0	47	1080	< 1	14	396	1470	0.86	89	< 10	24	< 0.5	< 2	1.22	9
1228038024 Orig							388																
1228038024 Dup							409																
1226006195 Orig																							
1226006195 Dup																							
1226006139 Orig								0.7	< 0.5	283	385	2	18	< 2	39	3.60	13	12	27	< 0.5	8	1.30	13
1226006139 Dup								0.7	< 0.5	272	372	2	17	< 2	38	3.38	11	11	27	< 0.5	7	1.23	12
1232011029 Orig																							
1232011029 Dup																							
1227015273 Orig							13																
1227015273 Dup							23																
1227015200 Orig	3.13	13.1	9.96	3.06	4.27																		
1227015200 Dup	3.13	13.1	9.95	3.06	4.27																		
1227015126 Orig								0.2	< 0.5	118	477	< 1	47	< 2	50	5.50	< 2	< 10	22	< 0.5	< 2	3.68	23
1227015126 Dup								0.2	< 0.5	112	471	< 1	45	< 2	49	5.37	3	< 10	20	< 0.5	< 2	3.60	21
1227016146 Orig																							
1227016146 Dup																							
1226007019 Orig							388																
1226007019 Dup							366																
1232011032 Orig																							
1232011032 Dup																							
1227031052 Orig						8.85																	
1227031052 Dup						8.85																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226007129 Orig								1.5	0.8	41	391	1	15	2	240	1.82	25	< 10	42	< 0.5	6	0.64	8
1226007129 Dup								1.7	0.8	41	398	< 1	15	2	255	1.89	26	< 10	35	< 0.5	7	0.66	7
1226022097 Orig							61																
1226022097 Dup							74																
1226022002 Orig																							
1226022002 Dup																							
1226022001 Orig							94																
1226022001 Dup							101																
1227030123 Orig								1.1	0.7	82	760	2	37	4	176	1.86	9	< 10	56	< 0.5	7	2.20	12
1227030123 Dup								1.0	0.8	81	769	2	38	4	181	1.88	10	< 10	54	< 0.5	6	2.22	11
1226014199 Orig	2.18	8.61	6.43	5.21	1.65																		
1226014199 Dup	2.18	8.58	6.40	5.21	1.65																		
1227035138 Orig							972																
1227035138 Dup							1080																
1227035131 Orig								0.4	0.7	70	903	2	33	16	218	3.37	17	< 10	62	< 0.5	< 2	2.95	17
1227035131 Dup								0.4	0.6	69	883	2	32	16	210	3.28	18	< 10	58	< 0.5	< 2	2.89	17
1226014121 Orig																							
1226014121 Dup																							
1226014050 Orig							145																
1226014050 Dup							134																
1226004260 Orig								0.7	< 0.5	10	500	1	11	16	89	2.88	17	< 10	41	< 0.5	3	1.44	6
1226004260 Dup								0.6	< 0.5	10	488	< 1	12	15	88	2.77	18	< 10	39	< 0.5	4	1.42	6
1227016024 Orig																							
1227016024 Dup																							
1227016101 Orig							490																
1227016101 Dup							450																
1226022107 Orig																							
1226022107 Dup																							
1226022268 Orig								0.5	< 0.5	202	237	2	19	< 2	27	3.45	4	< 10	43	< 0.5	9	1.32	6
1226022268 Dup								0.6	< 0.5	204	240	2	19	< 2	26	3.60	4	< 10	47	< 0.5	8	1.34	6
1227016020 Orig							273																
1227016020 Dup							284																
1226022172 Orig																							
1226022265 Orig																							
1226022265 Dup																							
1227041039 Orig	44.8	33.7	-11.1	51.5	0.655																		
1227041039 Dup	44.8	33.7	-11.1	51.5	0.655																		
1226014293 Orig						9.15		0.4	< 0.5	72	485	3	35	< 2	126	1.91	7	< 10	41	< 0.5	3	1.25	9
1226014293 Dup						9.14		0.5	< 0.5	71	460	3	16	< 2	123	1.80	7	< 10	38	< 0.5	3	1.21	9
1226014074 Orig							51																
1226014074 Dup							50																
1227035019 Orig																							
1227035019 Dup																							
1224035151 Orig							198																
1224035151 Dup							164																
1227035096 Orig								1.9	< 0.5	39	1180	4	17	27	149	1.63	93	< 10	36	< 0.5	2	2.86	10
1227035096 Dup								1.8	< 0.5	37	1170	4	17	28	147	1.61	101	< 10	36	< 0.5	3	2.85	10
1226015155 Orig																							
1226015155 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226015255 Orig							6																
1226015255 Dup							5																
1226015222 Orig								0.3	< 0.5	42	510	< 1	11	5	280	3.42	8	11	44	< 0.5	5	1.48	7
1226015222 Dup								0.3	< 0.5	41	506	< 1	10	9	282	3.49	3	12	47	< 0.5	< 2	1.49	10
1226015159 Orig																							
1226015159 Dup																							
1227042115 Orig							146																
1227042115 Dup							141																
1226015064 Orig						8.80																	
1226015064 Dup						8.80																	
1226015106 Orig	15.7	21.8	6.10	20.8	1.05																		
1226015106 Dup	15.7	21.9	6.15	20.8	1.05																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	84	5.90	20	2	1.19	< 10	0.41	0.123	0.035	0.01	3	19	29		< 1	< 2	< 10	176	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	84	6.09	20	1	1.18	< 10	0.40	0.116	0.035	0.01	4	19	28		< 1	< 2	< 10	177	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
SGR-1b Meas																						27.3	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.51
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	48	5.30	< 10		0.50	39	1.36	0.033	0.065	0.38	< 2	4	17			< 2	< 10	36	< 10	20	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	48	5.47	< 10		0.50	39	1.38	0.033	0.065	0.38	3	4	17			< 2	< 10	36	< 10	20	31		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	46	6.24	< 10		0.46	37	1.49		0.061	0.70	3	4	15			< 2	< 10	37	< 10	18	23		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	44	6.09	< 10		0.43	36	1.45		0.061	0.67	3	4	15			< 2	< 10	36	< 10	18	34		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 229 (Fire Assay) Meas																							
OREAS 229 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas	32	3.49	10	4	0.41	21	0.45	0.164	0.034	4.76	125	3	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.36	< 10	4	0.38	20	0.43	0.150	0.033	4.49	122	2	18			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	363	14.7	20	< 1	0.11	10	0.18	0.047	0.021	0.02		26	14	0.11		2	< 10	208		4	16		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	359	14.2	20	2	0.11	11	0.18	0.047	0.021	0.02		26	14	0.12		< 2	< 10	205		4	17		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.32
GS316-3 Cert																						0.0600	0.340
1228038298 Orig																							
1228038298 Dup																							
1226006044 Orig																						0.31	1.29
1226006044 Dup																						0.30	1.29
1227015066 Orig	281	5.28	< 10	2	0.04	< 10	2.68	0.427	0.019	0.09	3	10	79	0.21	1	< 2	< 10	140	< 10	4	3		
1227015066 Dup	282	5.42	< 10	2	0.05	< 10	2.69	0.430	0.019	0.09	< 2	10	79	0.21	1	< 2	< 10	141	< 10	4	3		
1227015270 Orig																							
1227015270 Dup																							
1226006435 Orig																						0.39	0.97
1226006435 Dup																						0.39	0.95
1228038091 Orig	210	3.79	< 10	< 1	0.36	10	0.50	0.037	0.040	3.98	5	< 1	29	< 0.01	2	< 2	< 10	5	< 10	2	12		
1228038091 Dup	209	3.85	< 10	< 1	0.35	10	0.51	0.037	0.039	4.10	5	< 1	29	< 0.01	3	< 2	< 10	5	< 10	2	12		
1228038024 Orig																							
1228038024 Dup																							
1226006195 Orig																						0.30	2.28
1226006195 Dup																						0.29	2.29
1226006139 Orig	372	3.86	< 10	< 1	0.16	20	1.16	0.166	0.035	1.36	3	1	108	0.03	1	< 2	< 10	18	< 10	2	14		
1226006139 Dup	359	3.66	< 10	< 1	0.15	20	1.12	0.155	0.035	1.29	3	1	100	0.03	2	< 2	< 10	17	< 10	2	14		
1232011029 Orig																						0.37	0.61
1232011029 Dup																						0.37	0.64
1227015273 Orig																							
1227015273 Dup																							
1227015200 Orig																							
1227015200 Dup																							
1227015126 Orig	134	4.62	< 10	2	0.07	< 10	1.86	0.525	0.019	0.08	< 2	6	61	0.20	3	< 2	< 10	134	< 10	4	3		
1227015126 Dup	131	4.44	< 10	2	0.07	< 10	1.81	0.509	0.018	0.07	< 2	6	60	0.20	2	< 2	< 10	129	< 10	4	3		
1227016146 Orig																						0.34	2.97
1227016146 Dup																						0.34	2.92
1226007019 Orig																							
1226007019 Dup																							
1232011032 Orig																						0.46	0.43
1232011032 Dup																						0.45	0.45
1227031052 Orig																							
1227031052 Dup																							
1226007129 Orig	264	2.45	< 10	< 1	0.40	13	1.27	0.041	0.041	1.48	2	< 1	21	< 0.01	3	< 2	< 10	10	< 10	1	13	0.26	1.45
1226007129 Dup	271	2.59	< 10	< 1	0.41	13	1.32	0.041	0.042	1.56	< 2	< 1	21	< 0.01	2	< 2	< 10	10	< 10	2	14	0.24	1.46
1226022097 Orig																							
1226022097 Dup																							
1226022002 Orig																						0.45	3.67
1226022002 Dup																						0.45	3.64
1226022001 Orig																							
1226022001 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227030123 Orig	284	2.68	< 10	< 1	0.26	17	1.28	0.076	0.049	1.56	< 2	2	49	0.01	2	< 2	< 10	16	< 10	3	12		
1227030123 Dup	283	2.70	< 10	< 1	0.26	18	1.29	0.078	0.049	1.55	< 2	2	50	0.01	2	< 2	< 10	16	< 10	3	10		
1226014199 Orig																							
1226014199 Dup																							
1227035138 Orig																						0.70	3.70
1227035138 Dup																						0.71	3.61
1227035131 Orig	287	3.62	< 10	< 1	0.39	13	1.52	0.204	0.041	1.11	4	4	54	0.10	< 1	< 2	< 10	54	< 10	3	11		
1227035131 Dup	291	3.55	< 10	< 1	0.37	13	1.48	0.194	0.040	1.08	< 2	4	52	0.10	< 1	< 2	< 10	52	< 10	3	11		
1226014121 Orig																						0.29	1.60
1226014121 Dup																						0.28	1.60
1226014050 Orig																							
1226014050 Dup																							
1226004260 Orig	221	2.32	< 10	< 1	0.22	16	0.81	0.099	0.044	1.60	< 2	< 1	119	0.01	1	< 2	< 10	10	< 10	2	16		
1226004260 Dup	219	2.25	< 10	< 1	0.21	16	0.79	0.096	0.043	1.52	< 2	< 1	114	0.01	2	< 2	< 10	10	< 10	2	16		
1227016024 Orig																						0.03	0.12
1227016024 Dup																						0.04	0.13
1227016101 Orig																							
1227016101 Dup																							
1226022107 Orig																						0.05	1.46
1226022107 Dup																						0.05	1.42
1226022268 Orig	543	3.09	< 10	1	0.21	11	0.70	0.259	0.035	1.48	3	< 1	163	< 0.01	< 1	< 2	< 10	11	< 10	2	13		
1226022268 Dup	560	3.14	< 10	< 1	0.22	11	0.70	0.268	0.035	1.53	3	< 1	170	< 0.01	3	< 2	< 10	11	< 10	2	14		
1227016020 Orig																							
1227016020 Dup																							
1226022172 Orig																							
1226022265 Orig																						0.15	0.97
1226022265 Dup																						0.16	0.92
1227041039 Orig																							
1227041039 Dup																							
1226014293 Orig	290	2.72	< 10	< 1	0.18	15	0.87	0.178	0.040	1.97	< 2	1	108	0.04	2	< 2	< 10	16	17	3	16		
1226014293 Dup	280	2.55	< 10	< 1	0.17	14	0.82	0.171	0.038	1.90	2	1	103	0.04	2	< 2	< 10	15	< 10	3	15		
1226014074 Orig																							
1226014074 Dup																							
1227035019 Orig																						0.69	1.42
1227035019 Dup																						0.70	1.45
1224035151 Orig																							
1224035151 Dup																							
1227035096 Orig	165	2.53	< 10	< 1	0.32	19	1.20	0.054	0.046	1.88	< 2	< 1	46	< 0.01	< 1	< 2	< 10	8	< 10	2	10		
1227035096 Dup	164	2.52	< 10	< 1	0.31	17	1.18	0.051	0.046	1.88	< 2	< 1	45	< 0.01	3	< 2	< 10	8	< 10	2	10		
1226015155 Orig																						0.23	0.10
1226015155 Dup																						0.24	0.10
1226015255 Orig																							
1226015255 Dup																							
1226015222 Orig	98	2.31	< 10	< 1	0.15	15	1.02	0.091	0.043	0.61	< 2	1	167	< 0.01	1	< 2	< 10	13	< 10	2	5		
1226015222 Dup	95	2.32	< 10	< 1	0.16	15	1.01	0.092	0.042	0.61	< 2	1	170	0.01	2	< 2	< 10	13	< 10	1	8		
1226015159 Orig																						0.15	1.20
1226015159 Dup																						0.14	1.18
1227042115 Orig																							
1227042115 Dup																							
1226015064 Orig																							
1226015064 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226015106 Orig																						0.26	0.69
1226015106 Dup																						0.26	0.68
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
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GS311-4 Meas	
GS311-4 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
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GS311-4 Cert	
NBM-1 (slight fzz) Meas	
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OREAS 922 (AQUA REGIA) Meas	
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OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
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OREAS 218 Meas	
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OREAS 218 Meas	
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OREAS 218 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 218 Meas	
OREAS 218 Cert	
OREAS 229 (Fire Assay) Meas	11.9
OREAS 229 (Fire Assay) Cert	12.1
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	11.8
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
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OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS316-3 Meas	
GS316-3 Cert	
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GS316-3 Cert	
1228038298 Orig	
1228038298 Dup	
1226006044 Orig	
1226006044 Dup	
1227015066 Orig	
1227015066 Dup	
1227015270 Orig	
1227015270 Dup	
1226006435 Orig	
1226006435 Dup	
1228038091 Orig	
1228038091 Dup	
1228038024 Orig	
1228038024 Dup	
1226006195 Orig	
1226006195 Dup	
1226006139 Orig	
1226006139 Dup	
1232011029 Orig	
1232011029 Dup	
1227015273 Orig	
1227015273 Dup	
1227015200 Orig	
1227015200 Dup	
1227015126 Orig	
1227015126 Dup	
1227016146 Orig	
1227016146 Dup	
1226007019 Orig	
1226007019 Dup	
1232011032 Orig	
1232011032 Dup	
1227031052 Orig	
1227031052 Dup	
1226007129 Orig	
1226007129 Dup	
1226022097 Orig	
1226022097 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1226022002 Orig	
1226022002 Dup	
1226022001 Orig	
1226022001 Dup	
1227030123 Orig	
1227030123 Dup	
1226014199 Orig	
1226014199 Dup	
1227035138 Orig	
1227035138 Dup	
1227035131 Orig	
1227035131 Dup	
1226014121 Orig	
1226014121 Dup	
1226014050 Orig	
1226014050 Dup	
1226004260 Orig	
1226004260 Dup	
1227016024 Orig	
1227016024 Dup	
1227016101 Orig	
1227016101 Dup	
1226022107 Orig	
1226022107 Dup	
1226022268 Orig	
1226022268 Dup	
1227016020 Orig	
1227016020 Dup	
1226022172 Orig	10.4
1226022265 Orig	
1226022265 Dup	
1227041039 Orig	
1227041039 Dup	
1226014293 Orig	
1226014293 Dup	
1226014074 Orig	
1226014074 Dup	
1227035019 Orig	
1227035019 Dup	
1224035151 Orig	
1224035151 Dup	
1227035096 Orig	
1227035096 Dup	
1226015155 Orig	
1226015155 Dup	
1226015255 Orig	
1226015255 Dup	
1226015222 Orig	
1226015222 Dup	
1226015159 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1226015159 Dup	
1227042115 Orig	
1227042115 Dup	
1226015064 Orig	
1226015064 Dup	
1226015106 Orig	
1226015106 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-05525**
Report Date:	**26-Jun-20**
Date Submitted:	**28-May-20**
Your Reference:	**April 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

183 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-06-16 15:47:39
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-06-10 14:27:25

REPORT **A20-05525**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-05525**
Report Date: **26-Jun-20**
Date Submitted: **28-May-20**
Your Reference: **April 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

183 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-06-11 16:32:57
4F-C, S	Infrared	2020-06-11 19:48:14

REPORT **A20-05525**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232012005	5.52	15.4	9.85	9.19	1.67	9.25	33	0.2	< 0.5	44	419	1	19	< 2	114	2.29	4	< 10	60	< 0.5	< 2	1.75	12
1226017165	49.5	14.2	-35.3	55.7	0.255	8.74	919	1.1	< 0.5	244	527	< 1	10	8	80	1.94	24	< 10	37	< 0.5	12	0.95	9
1226017302	68.4	9.10	-59.3	75.0	0.121	8.52	128	0.4	< 0.5	35	364	1	12	5	45	1.37	16	< 10	30	< 0.5	4	0.70	8
1226017138	53.7	8.72	-45.0	67.1	0.130	8.61	326	1.3	5.3	82	845	1	15	4	1270	2.21	24	< 10	32	< 0.5	4	0.92	12
1226017349	66.4	5.86	-60.6	75.9	0.0772	8.30	49	0.5	1.5	108	424	1	11	2	408	2.59	12	< 10	33	< 0.5	4	1.29	8
1232012011	27.8	42.2	14.4	34.0	1.24	8.59	77	0.4	< 0.5	19	788	< 1	9	23	83	1.69	18	< 10	40	< 0.5	< 2	2.16	7
1226017115	45.5	12.0	-33.5	54.2	0.221	8.61	97	0.5	0.5	52	507	2	13	5	111	1.86	12	< 10	42	< 0.5	5	1.00	10
1226017088	47.3	10.2	-37.1	57.6	0.178	8.86	126	0.7	0.5	151	842	1	15	5	149	2.03	18	< 10	28	< 0.5	4	0.84	13
1226017424	106	5.75	-100	119	0.0481	8.23	378	0.5	< 0.5	31	323	1	14	5	41	1.88	17	< 10	20	< 0.5	4	0.90	9
1226017417	59.5	6.72	-52.7	68.6	0.0980	8.54	56	0.2	< 0.5	32	449	2	13	< 2	74	2.04	12	< 10	35	< 0.5	3	1.08	9
1226020081	27.9	25.4	-2.54	37.7	0.673	8.95	72	3.1	0.5	64	816	1	19	14	152	1.26	19	< 10	36	< 0.5	3	1.28	10
1226017037	61.8	13.5	-48.3	71.7	0.188	8.58	1290	6.8	4.1	47	299	2	11	9	1150	1.28	24	< 10	31	< 0.5	19	0.86	8
1226020021	3.43	19.2	15.8	6.43	2.99	9.13	12	0.8	0.6	133	715	< 1	51	33	193	4.45	< 2	< 10	29	< 0.5	3	3.35	22
1226020088	14.3	15.3	1.08	20.2	0.759	8.87	115	0.5	< 0.5	69	512	1	29	< 2	203	3.12	3	14	75	< 0.5	< 2	2.11	15
1226017303	122	7.59	-115	133	0.0571	8.90	2540	1.5	< 0.5	88	313	2	13	9	65	1.08	24	< 10	19	< 0.5	19	0.33	8
1226017146	51.1	18.1	-33.1	58.5	0.309	8.08	609	0.7	< 0.5	181	464	2	14	4	110	1.60	10	< 10	32	< 0.5	4	1.17	8
1226017010	36.6	22.7	-13.9	42.3	0.536	8.83	123	0.6	1.9	63	532	4	17	5	549	1.39	18	< 10	54	< 0.5	3	1.10	10
1226020011	34.9	8.59	-26.3	39.8	0.216	8.72	136	0.6	0.5	31	435	1	14	7	127	2.09	17	12	34	< 0.5	5	0.93	9
V860679							914	2.5	< 0.5	61	406	10	16	7	58	1.52	< 2	< 10	83	< 0.5	< 2	1.34	16
1226004238	47.7	19.6	-28.1	57.9	0.339	8.57	233	3.3	2.2	34	930	< 1	20	42	507	2.00	33	10	31	< 0.5	< 2	1.37	10
1226004176	48.8	7.75	-41.1	59.1	0.131	8.32	324	6.9	2.1	69	700	< 1	19	111	541	1.54	48	< 10	29	< 0.5	3	0.68	10
1227035192	22.3	20.9	-1.38	27.0	0.776	8.62	43	1.0	0.5	22	606	< 1	15	19	146	2.48	18	11	35	< 0.5	4	1.51	9
1226004174	38.3	12.8	-25.5	45.6	0.281	8.73	235	4.6	4.0	70	369	< 1	14	323	1030	0.62	62	< 10	29	< 0.5	< 2	0.67	12
1227035036	8.33	24.1	15.8	13.2	1.83	8.90	13	0.6	< 0.5	36	521	1	25	8	53	2.17	9	< 10	42	< 0.5	< 2	1.66	6
1226004104	55.3	5.11	-50.2	64.3	0.0795	7.90	284	0.8	8.0	73	198	2	23	14	1980	1.67	64	< 10	40	0.8	< 2	0.41	10
1226004233	25.8	39.1	13.3	34.3	1.14	9.06	60	1.5	1.1	33	986	1	11	98	310	1.47	42	< 10	39	< 0.5	< 2	2.08	8
1226025001	45.1	18.8	-26.3	53.6	0.351	8.67	92	1.4	1.0	54	649	2	27	4	268	1.98	24	< 10	46	< 0.5	4	1.08	13
1226025010	30.9	22.0	-8.89	38.3	0.576	8.83	139	3.3	< 0.5	9	752	1	17	< 2	111	2.09	15	< 10	57	< 0.5	< 2	1.19	10
1226025137	44.7	19.6	-25.1	54.5	0.360	8.79	152	5.9	< 0.5	9	510	< 1	11	3	178	1.55	16	< 10	33	< 0.5	7	0.90	8
1226004082	50.1	28.9	-21.2	58.2	0.496	8.50	1240	6.4	0.9	28	697	1	17	56	204	1.62	56	< 10	33	< 0.5	2	1.60	9
1226025041	36.6	23.4	-13.1	42.0	0.559	8.83	128	2.6	< 0.5	10	554	1	21	3	126	1.57	16	< 10	48	< 0.5	3	1.14	10
1226015095	52.6	68.0	15.4	65.5	1.04	8.63	131	4.7	3.3	53	1330	< 1	17	422	856	1.89	83	< 10	39	< 0.5	3	2.93	9
1226015336	24.9	9.35	-15.5	30.0	0.312	8.63	47	0.8	1.1	13	476	< 1	15	6	249	2.75	18	< 10	40	< 0.5	3	1.20	9
1226004156	38.8	5.48	-33.4	48.1	0.114	8.60	624	0.9	14.2	83	858	< 1	19	15	3450	2.01	59	< 10	31	< 0.5	< 2	0.55	9
1226004306	45.7	25.2	-20.5	57.3	0.440	8.24	487	0.7	14.3	43	661	< 1	18	17	3470	1.05	118	< 10	29	< 0.5	< 2	1.04	9
1226004002	50.6	49.1	-1.53	60.6	0.809	8.59	180	1.0	2.3	23	610	1	13	32	577	0.92	59	< 10	32	< 0.5	3	1.97	9
1226004099	60.8	33.5	-27.3	77.5	0.433	8.48	703	2.4	22.6	102	651	1	16	26	5360	0.97	86	< 10	27	< 0.5	3	1.38	8
V860680							715	3.2	< 0.5	37	274	18	12	16	47	1.20	4	< 10	62	< 0.5	< 2	2.07	13
1226004044	11.7	4.98	-6.68	17.5	0.285	8.05	58	< 0.2	1.8	26	256	1	17	5	498	1.00	13	< 10	36	< 0.5	< 2	0.35	8
1226004130	41.1	15.4	-25.7	49.6	0.311	8.48	733	1.0	3.0	45	785	1	19	52	700	1.61	108	< 10	36	< 0.5	< 2	0.78	10
1226025103	41.0	16.7	-24.3	47.5	0.352	8.65	158	3.2	0.8	14	622	< 1	20	7	188	1.89	11	< 10	35	< 0.5	5	1.30	8
1226004157	43.4	12.4	-31.0	52.4	0.238	8.57	337	0.9	10.9	74	887	< 1	16	57	2590	1.73	78	< 10	29	< 0.5	< 2	0.84	9
1226004021	36.9	32.9	-3.99	42.3	0.778	8.65	306	3.0	1.0	38	643	2	20	17	309	1.33	41	< 10	39	< 0.5	3	1.50	10
1227030012	31.3	59.7	28.3	38.0	1.57	8.96	69	0.7	< 0.5	46	636	< 1	79	3	148	1.80	7	< 10	49	< 0.5	2	2.25	13
1226025016	61.7	12.0	-49.7	67.7	0.177	8.28	75	1.0	0.6	45	484	< 1	26	4	139	1.43	24	< 10	30	< 0.5	7	0.74	10
1226015345	20.4	7.97	-12.4	23.9	0.334	9.01	81	0.6	< 0.5	26	510	1	19	13	217	3.66	16	< 10	52	< 0.5	5	2.28	10
1226015147	23.5	19.5	-4.06	30.0	0.649	8.93	22	0.6	< 0.5	36	809	2	15	10	98	3.07	23	< 10	39	< 0.5	< 2	2.60	8
1226015248	24.7	13.7	-11.0	29.7	0.462	8.63	74	0.8	1.2	32	470	2	14	28	428	2.79	16	< 10	44	< 0.5	4	1.65	8
1226015231	32.6	25.8	-6.75	44.4	0.582	8.54	387	1.3	0.9	54	567	2	18	54	274	2.40	30	< 10	41	< 0.5	5	2.08	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226025058	47.9	21.1	-26.8	54.5	0.387	8.68	57	1.0	1.0	58	365	2	43	3	272	1.12	20	< 10	40	< 0.5	3	1.11	13
1226025037	48.6	12.1	-36.5	53.6	0.226	8.88	79	2.6	< 0.5	47	513	1	20	5	138	1.52	21	< 10	39	< 0.5	5	0.68	13
1226025139	31.1	14.5	-16.7	47.8	0.303	8.39	182	3.9	0.6	24	561	1	13	8	240	1.53	23	< 10	44	< 0.5	4	0.80	10
1226025029	37.6	16.5	-21.1	47.2	0.349	8.65	114	2.6	3.6	24	513	1	12	4	994	1.39	14	< 10	44	< 0.5	3	1.01	9
1227030098	16.1	39.4	23.2	21.1	1.86	8.89	192	0.6	2.8	55	654	2	69	< 2	667	2.44	11	< 10	65	< 0.5	< 2	2.33	13
1226015033	42.9	78.7	35.8	53.3	1.48	8.71	51	0.8	< 0.5	22	1100	< 1	15	15	69	1.07	49	< 10	38	< 0.5	< 2	3.23	10
1226015286	23.8	13.4	-10.5	29.1	0.459	8.74	94	0.5	< 0.5	27	614	1	14	12	155	2.64	15	< 10	39	< 0.5	2	1.79	9
V860681							116	1.7	< 0.5	61	361	5	13	8	66	1.48	< 2	< 10	80	< 0.5	< 2	1.20	15
1226021478	50.0	7.86	-42.1	61.6	0.128	8.56	66	1.0	< 0.5	192	324	2	16	2	66	1.22	9	< 10	34	< 0.5	6	0.59	13
1226021454	30.2	19.8	-10.4	35.2	0.563	8.86	114	0.3	< 0.5	77	337	2	10	3	115	1.45	6	< 10	58	< 0.5	< 2	1.12	8
1225002380	47.8	58.0	10.2	56.3	1.03	8.94	222	1.9	0.6	33	1000	1	14	31	159	1.37	38	< 10	40	< 0.5	5	2.40	10
1225002396	49.1	36.2	-12.9	61.6	0.589	8.93	125	2.1	2.1	56	502	1	12	36	483	1.26	36	< 10	36	< 0.5	3	1.75	9
1226021467	92.9	9.11	-83.8	103	0.0888	8.36	88	1.4	5.8	344	192	2	13	3	1170	1.49	13	< 10	23	< 0.5	6	0.89	9
1225002377	50.8	41.8	-9.05	59.1	0.707	9.22	278	1.5	1.1	37	1010	< 1	12	38	255	1.45	42	< 10	38	< 0.5	3	1.96	9
1225002376	43.0	66.3	23.3	53.0	1.25	9.20	104	1.7	1.8	35	1260	3	12	53	439	1.38	31	< 10	44	< 0.5	< 2	2.66	8
1234099032	0.291	18.6	18.3	14.1	1.32	8.95	30	0.5	1.3	23	515	2	19	6	317	1.71	5	< 10	57	< 0.5	< 2	1.33	9
1226021016	34.6	17.1	-17.5	44.4	0.385	8.62	215	0.5	< 0.5	149	260	7	9	< 2	40	2.40	7	< 10	30	< 0.5	5	1.30	7
1225002509	31.3	65.0	33.7	42.6	1.53	9.05	268	0.9	1.2	39	1120	< 1	20	32	320	1.88	63	< 10	52	< 0.5	< 2	2.73	12
1226021050	42.2	11.3	-30.8	49.0	0.232	8.73	52	0.7	< 0.5	72	290	3	16	< 2	75	2.73	12	< 10	36	< 0.5	3	1.54	10
1225002386	63.9	57.4	-6.59	74.1	0.774	8.86	199	2.7	2.0	33	1350	1	21	57	526	1.61	44	< 10	49	< 0.5	< 2	2.57	12
1226021316	89.7	9.23	-80.4	98.9	0.0933	8.43	231	1.2	< 0.5	180	568	1	15	< 2	136	3.20	46	< 10	35	< 0.5	7	1.24	8
1226029058	34.5	37.1	2.61	42.6	0.871	8.94	99	0.3	1.4	104	614	4	15	< 2	397	1.14	9	< 10	46	< 0.5	< 2	1.47	9
1226021422	56.1	7.49	-48.6	67.7	0.111	8.36	41	0.4	1.1	40	228	1	15	< 2	299	1.50	17	< 10	36	< 0.5	4	0.92	9
1226021013	28.4	11.5	-17.0	34.0	0.337	8.83	213	0.8	< 0.5	172	292	6	15	< 2	40	1.94	8	< 10	34	< 0.5	4	1.01	7
1226029147	51.0	8.99	-42.0	63.7	0.141	8.25	137	0.4	< 0.5	42	243	4	15	2	45	1.31	14	< 10	38	< 0.5	4	0.65	9
1226021412	41.1	5.74	-35.4	45.6	0.126	8.38	69	0.3	< 0.5	55	202	2	14	< 2	65	2.12	5	< 10	29	< 0.5	3	0.83	7
1226029122	32.0	18.0	-14.0	35.8	0.501	8.75	90	0.3	1.4	49	689	2	16	< 2	448	1.43	6	< 10	43	< 0.5	4	1.01	9
1226021441	24.2	31.6	7.44	28.8	1.10	9.00	94	0.4	< 0.5	66	475	1	11	4	149	1.22	5	< 10	84	< 0.5	< 2	1.51	8
V860682							716	3.0	< 0.5	34	272	14	11	16	45	1.15	< 2	< 10	61	< 0.5	< 2	2.03	12
1226021220	32.2	6.61	-25.6	36.8	0.180	8.85	92	0.4	< 0.5	85	255	2	13	< 2	80	3.10	6	< 10	42	< 0.5	3	1.31	9
1226021138	65.3	8.36	-56.9	73.8	0.113	8.49	66	0.3	< 0.5	104	153	1	13	< 2	73	1.62	4	< 10	30	< 0.5	3	0.71	6
1226021283	39.9	5.75	-34.1	47.2	0.122	8.57	86	0.4	< 0.5	68	215	2	14	< 2	84	3.13	8	< 10	36	< 0.5	5	1.52	9
1226021187	35.4	21.4	-14.1	40.7	0.524	8.86	234	0.5	< 0.5	111	292	2	12	< 2	57	2.10	< 2	< 10	44	< 0.5	3	1.59	8
1226021230	41.8	8.85	-32.9	46.9	0.189	8.96	70	0.3	< 0.5	54	249	2	16	< 2	93	1.90	12	< 10	28	< 0.5	< 2	0.74	10
1226021242	30.1	16.0	-14.1	35.2	0.454	8.96	113	0.4	< 0.5	70	330	2	14	< 2	49	2.10	11	< 10	41	< 0.5	5	1.27	10
1226008025	124	9.61	-114	145	0.0662	8.36	465	4.3	15.1	132	1120	< 1	27	607	3950	2.31	147	< 10	19	< 0.5	6	0.49	20
1226021130	14.5	16.1	1.62	17.8	0.906	8.94	166	< 0.2	< 0.5	50	178	2	17	< 2	21	2.48	3	< 10	33	< 0.5	4	1.11	3
1226008053	43.6	34.8	-8.78	50.8	0.685	8.84	106	0.9	0.7	77	553	2	19	5	172	1.94	18	< 10	47	< 0.5	5	1.82	12
1226008081	52.5	13.7	-38.7	59.7	0.230	8.74	88	0.6	< 0.5	44	846	1	16	11	179	1.87	58	< 10	30	< 0.5	3	0.80	11
1226008366	42.4	9.74	-32.6	46.5	0.209	8.63	602	0.7	< 0.5	358	279	2	10	5	39	1.78	9	< 10	32	< 0.5	10	0.80	7
1226008004	38.8	17.3	-21.5	45.6	0.380	8.84	279	1.1	0.5	207	413	2	20	15	142	1.52	14	< 10	44	< 0.5	5	1.15	9
1226008069	29.1	35.9	6.83	35.2	1.02	8.82	54	0.9	< 0.5	79	669	2	15	7	71	1.89	39	< 10	37	< 0.5	6	2.02	8
1226008076	39.7	26.3	-13.4	45.6	0.577	8.85	40	0.4	0.8	23	469	1	25	4	175	2.09	17	< 10	26	< 0.5	3	1.89	12
1226019705	56.8	30.8	-25.9	65.5	0.470	8.94	433	1.3	5.6	54	758	2	13	30	1470	0.90	143	< 10	35	< 0.5	< 2	1.41	8
1226008207	51.9	7.74	-44.1	57.6	0.134	8.77	381	0.9	< 0.5	114	371	1	11	9	74	2.03	15	< 10	45	< 0.5	4	0.75	8
1226019061	36.1	24.7	-11.5	40.4	0.610	8.92	128	0.3	3.3	51	882	2	15	17	876	1.65	36	< 10	44	< 0.5	3	1.46	10
1226008097	16.9	47.3	30.4	25.4	1.86	9.27	49	0.4	3.6	53	669	< 1	12	8	827	1.13	18	< 10	49	< 0.5	3	2.07	10
1226008363	23.4	23.4	-0.00074	27.6	0.850	8.87	107	0.2	< 0.5	46	363	3	15	< 2	39	2.11	5	< 10	43	< 0.5	7	1.24	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
			7																				
1226019265	53.3	61.0	7.65	63.1	0.966	8.70	115	1.3	4.1	34	802	1	13	11	923	0.42	66	< 10	17	< 0.5	2	2.33	8
V860683							935	2.5	< 0.5	60	403	10	17	8	58	1.48	< 2	< 10	80	< 0.5	< 2	1.32	16
1226021407	64.5	13.7	-50.8	70.1	0.195	8.53	48	0.4	< 0.5	59	265	2	14	< 2	59	1.97	7	< 10	32	< 0.5	3	1.30	9
1226029042	49.8	11.6	-38.2	55.4	0.209	8.70	344	1.1	< 0.5	128	355	2	12	11	94	1.97	12	< 10	41	< 0.5	4	1.06	8
1226029106	44.6	21.2	-23.3	51.8	0.410	8.76	94	0.6	< 0.5	120	343	4	14	< 2	54	1.42	12	< 10	43	< 0.5	4	1.16	9
1226029050	39.9	22.4	-17.5	47.8	0.469	8.75	73	0.5	1.2	98	445	4	18	3	347	0.96	14	< 10	33	< 0.5	< 2	1.03	9
1226021143	57.7	10.4	-47.3	63.1	0.164	8.55	203	0.4	< 0.5	116	260	3	15	< 2	36	2.45	8	< 10	28	< 0.5	4	1.33	6
1226021063	20.1	21.0	0.923	24.2	0.869	8.94	124	0.6	< 0.5	145	422	6	17	< 2	49	2.54	7	< 10	61	< 0.5	< 2	2.34	8
1226021074	43.7	9.24	-34.5	47.2	0.196	8.57	528	0.4	< 0.5	199	207	2	9	< 2	24	2.33	7	< 10	40	< 0.5	4	1.27	7
1226021293	34.1	10.7	-23.3	38.6	0.278	8.77	302	0.4	< 0.5	75	228	3	11	< 2	51	2.75	9	< 10	54	< 0.5	5	1.58	10
1226021162	37.5	10.3	-27.1	43.5	0.238	8.62	146	0.9	< 0.5	197	508	7	23	< 2	119	2.42	9	< 10	36	< 0.5	2	0.97	9
1226021401	66.5	7.73	-58.7	70.1	0.110	8.64	36	0.3	< 0.5	16	196	1	14	< 2	51	1.41	13	< 10	32	< 0.5	3	0.79	8
1226021340	39.4	13.7	-25.7	42.3	0.324	8.78	67	0.3	< 0.5	31	242	3	15	< 2	54	1.96	5	< 10	41	< 0.5	4	1.23	8
1226021103	47.6	6.47	-41.1	51.1	0.127	8.69	288	0.6	< 0.5	78	305	2	14	4	60	1.91	13	< 10	46	< 0.5	5	0.63	10
1226021108	22.8	4.13	-18.7	25.4	0.162	8.95	149	0.6	< 0.5	120	404	2	11	< 2	116	2.53	7	< 10	47	< 0.5	5	0.26	8
1226021263	77.0	10.8	-66.1	83.6	0.130	8.64	207	1.1	2.7	93	500	1	16	3	682	2.42	36	< 10	36	< 0.5	4	0.78	13
1226021383	40.6	20.5	-20.1	44.4	0.462	8.96	71	0.4	1.0	36	530	1	12	3	261	1.93	12	< 10	53	< 0.5	4	1.19	9
1226029149	58.2	7.12	-51.1	62.8	0.113	8.68	84	0.6	< 0.5	103	311	3	13	3	55	1.77	17	< 10	40	< 0.5	5	0.47	10
1226029096	63.9	6.23	-57.7	71.4	0.0872	8.69	212	1.0	< 0.5	160	232	< 1	12	3	129	1.65	6	< 10	35	< 0.5	21	0.64	7
1226021099	46.6	8.10	-38.5	51.5	0.157	8.67	129	1.3	< 0.5	193	571	5	11	< 2	153	2.42	15	< 10	41	< 0.5	6	1.13	8
1226021100	42.5	10.3	-32.2	46.5	0.222	8.68	37	0.7	0.6	101	432	3	19	< 2	194	2.49	10	< 10	36	< 0.5	5	1.35	9
1226021272	37.4	12.2	-25.2	42.6	0.287	8.83	418	0.3	< 0.5	52	378	2	13	< 2	76	2.14	7	< 10	37	< 0.5	6	0.90	8
V860684							114	1.7	< 0.5	60	363	4	13	9	67	1.50	< 2	< 10	79	< 0.5	< 2	1.21	15
1226019168	21.0	16.4	-4.66	25.4	0.644	8.79	160	< 0.2	3.1	19	727	< 1	13	18	823	2.03	32	< 10	32	< 0.5	< 2	1.21	11
1226019333	59.5	40.3	-19.2	69.5	0.579	8.64	970	3.3	7.1	105	677	1	21	372	1650	0.77	76	< 10	23	< 0.5	< 2	1.65	10
1226008127	10.6	64.5	53.9	15.3	4.21	9.30	169	< 0.2	< 0.5	22	697	1	66	4	61	2.34	8	< 10	71	< 0.5	3	3.00	22
1226019173	46.8	74.2	27.5	54.8	1.35	8.81	109	1.3	4.8	36	871	2	14	13	1190	0.40	79	< 10	22	< 0.5	3	2.90	7
1226008390	54.8	9.58	-45.2	62.5	0.153	8.58	2310	1.1	< 0.5	556	292	1	10	< 2	29	2.39	6	< 10	49	< 0.5	11	1.00	9
1226008186	106	6.86	-98.7	126	0.0542	8.24	307	10.7	13.7	1590	901	1	26	19	3290	2.79	75	< 10	25	< 0.5	21	0.38	20
1226008169	49.3	22.8	-26.5	53.0	0.430	8.81	92	1.2	< 0.5	118	349	3	23	2	40	1.28	17	< 10	29	< 0.5	5	1.59	14
1226008261	38.6	12.7	-25.9	45.0	0.282	8.76	75	0.5	< 0.5	41	312	1	12	6	49	1.88	14	10	43	< 0.5	3	1.01	8
1225001165	14.5	16.6	2.10	18.1	0.917	9.10	181	1.3	0.6	58	488	2	13	31	198	2.04	14	< 10	36	< 0.5	< 2	1.47	8
1226008278	64.1	11.2	-52.9	68.6	0.163	8.32	626	1.2	< 0.5	240	275	2	13	10	35	1.55	16	< 10	36	< 0.5	5	0.77	10
1226019042	17.1	52.0	34.9	20.5	2.53	9.16	256	0.6	0.9	24	965	< 1	9	64	216	1.00	42	< 10	28	< 0.5	< 2	2.30	6
1226019327	40.9	65.1	24.2	49.3	1.32	8.70	693	7.9	4.5	62	946	2	31	359	1070	0.88	144	< 10	26	< 0.5	< 2	2.53	14
1226019065	60.4	10.1	-50.3	66.8	0.151	8.63	507	0.7	5.7	70	471	1	13	4	1450	1.93	42	< 10	36	< 0.5	< 2	0.93	11
1226019150	17.1	35.3	18.3	21.4	1.65	9.08	186	0.7	1.0	25	811	< 1	12	15	270	1.37	42	< 10	33	< 0.5	< 2	1.80	6
1225001194	20.1	11.6	-8.48	23.6	0.492	8.93	39	0.3	< 0.5	24	670	1	10	6	144	3.22	20	< 10	43	< 0.5	3	1.56	10
1226019079	4.78	56.7	51.9	9.19	6.18	8.75	44	0.6	< 0.5	31	565	1	11	5	85	1.65	12	< 10	47	< 0.5	2	2.83	6
1226008031	54.9	34.0	-20.8	68.3	0.498	8.77	185	1.8	16.7	85	1160	1	26	12	4020	2.32	47	< 10	37	< 0.5	3	1.54	11
1225001084	64.5	13.8	-50.6	74.7	0.185	8.51	658	6.0	4.4	48	563	1	17	68	1040	1.08	47	< 10	26	< 0.5	< 2	0.96	10
1226019144	60.9	39.3	-21.6	69.2	0.568	8.77	174	4.4	4.2	88	1190	1	15	164	1010	1.68	64	< 10	27	< 0.5	7	1.92	8
V860685							912	2.4	< 0.5	60	406	10	16	7	59	1.47	< 2	< 10	79	< 0.5	< 2	1.32	17
1225001009	39.8	17.1	-22.7	44.7	0.381	8.49	208	0.7	2.9	62	669	1	15	37	621	2.58	38	< 10	31	< 0.5	< 2	1.89	9
1226008317	47.4	11.4	-36.0	53.6	0.212	8.55	439	0.7	< 0.5	198	357	2	10	5	52	1.85	9	< 10	40	< 0.5	10	0.61	9
1226018023	33.0	23.8	-9.23	44.1	0.539	8.76	78	2.3	0.6	1250	403	3	14	9	137	1.52	10	< 10	54	< 0.5	< 2	1.45	11
1225001405	45.9	17.9	-28.0	57.3	0.312	8.73	215	2.1	0.9	21	657	< 1	14	27	210	2.51	30	< 10	33	< 0.5	2	1.88	10
1225001052	50.5	16.2	-34.3	59.1	0.274	8.69	447	2.7	4.5	64	724	< 1	13	48	982	2.18	34	< 10	30	< 0.5	3	1.58	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226018204	20.9	17.4	-3.48	27.6	0.633	8.95	371	0.6	< 0.5	115	568	2	14	4	81	2.72	8	< 10	68	< 0.5	2	2.15	10
1225003245	4.57	10.6	6.02	10.4	1.02	8.85	35	< 0.2	< 0.5	10	397	2	13	7	135	3.03	7	< 10	31	< 0.5	3	1.41	9
1225001020	42.2	47.6	5.39	49.6	0.959	8.70	785	1.2	3.5	63	948	< 1	32	29	782	1.99	81	< 10	41	< 0.5	< 2	2.19	14
1226018229	38.9	11.9	-27.1	49.3	0.241	8.45	257	0.7	< 0.5	120	527	2	14	4	92	2.77	14	< 10	46	< 0.5	6	1.65	9
1226008309	38.8	12.2	-26.6	43.2	0.283	8.49	239	0.4	< 0.5	126	371	2	10	< 2	55	2.06	8	< 10	42	< 0.5	4	0.82	8
1225001408	37.6	15.6	-22.0	42.9	0.364	8.57	170	0.8	2.8	64	817	1	16	103	596	2.48	48	< 10	33	< 0.5	< 2	1.97	9
1226018004	48.9	53.8	4.86	55.4	0.971	8.42	57	0.5	< 0.5	6	1060	< 1	13	13	129	1.38	12	< 10	37	< 0.5	4	2.34	8
1226018222	81.4	11.5	-69.9	88.5	0.130	8.35	410	0.9	< 0.5	299	323	1	13	4	49	1.61	19	< 10	36	< 0.5	9	0.91	9
1226018257	40.9	75.6	34.7	46.5	1.62	8.43	1030	0.8	< 0.5	263	517	2	13	4	54	2.12	16	< 10	34	< 0.5	12	0.71	9
1226018216	25.4	15.1	-10.3	30.6	0.493	8.73	486	1.3	< 0.5	228	609	3	17	4	58	2.91	6	< 10	64	< 0.5	5	1.97	8
1226018265	19.6	21.6	2.03	24.8	0.871	9.07	113	0.3	< 0.5	51	508	4	23	3	95	1.78	6	< 10	49	< 0.5	3	1.33	9
1225001018	74.5	5.62	-68.8	84.2	0.0668	8.50	2020	1.1	5.5	44	608	1	17	24	1350	1.27	168	< 10	28	< 0.5	< 2	0.32	11
1225001071	53.1	19.0	-34.1	60.3	0.315	8.68	263	1.4	9.4	95	673	2	15	110	2040	2.24	48	< 10	27	< 0.5	< 2	1.76	9
V860686							688	3.2	< 0.5	34	278	14	12	16	45	1.16	< 2	< 10	60	< 0.5	< 2	2.06	10
1226019027	5.10	13.7	8.62	8.27	1.66	9.18	29	0.3	< 0.5	115	618	< 1	49	< 2	74	4.59	6	< 10	20	< 0.5	< 2	3.59	22
1225001169	20.4	23.0	2.63	26.3	0.875	8.84	226	1.3	0.6	203	491	3	15	17	193	1.44	41	< 10	31	< 0.5	< 2	1.32	8
1226019273	70.3	80.2	9.92	79.9	1.00	8.71	415	2.3	< 0.5	34	1190	1	19	14	153	0.76	97	< 10	21	< 0.5	< 2	2.90	15
1226008137	17.1	44.1	27.0	22.4	1.97	9.25	69	0.6	3.3	73	695	1	11	5	710	1.01	9	< 10	93	< 0.5	3	1.82	7
1226019019	43.8	77.3	33.5	57.6	1.34	8.91	156	1.3	< 0.5	24	1010	1	16	12	90	1.25	89	< 10	35	< 0.5	< 2	3.27	11
1226019190	26.6	29.4	2.86	34.0	0.865	9.03	25	0.2	< 0.5	83	565	3	19	< 2	46	1.91	10	14	59	< 0.5	< 2	1.84	16
1226008239	38.9	8.99	-30.0	46.2	0.194	8.62	401	0.5	< 0.5	215	290	1	13	3	38	2.72	9	< 10	43	< 0.5	6	1.25	7
1226019097	5.94	15.2	9.29	5.82	2.62	9.17	11	0.3	< 0.5	115	719	< 1	55	< 2	66	4.79	3	< 10	21	< 0.5	2	3.64	25
1226019285	2.50	9.34	6.84	2.45	3.81	9.35	7	< 0.2	< 0.5	125	497	< 1	51	< 2	44	5.01	< 2	< 10	16	< 0.5	2	3.89	23
1225001146	55.0	28.8	-26.2	63.7	0.452	8.70	244	3.8	1.7	36	929	2	14	31	412	1.93	34	< 10	30	< 0.5	3	1.78	9
1226019290	7.91	25.3	17.4	14.7	1.72	9.02	25	0.6	< 0.5	29	689	2	14	13	101	2.62	21	< 10	33	< 0.5	3	1.81	9
1226008286	42.8	5.85	-37.0	46.9	0.125	8.64	378	0.6	< 0.5	235	280	2	12	2	44	2.83	7	< 10	41	< 0.5	6	1.14	8
1226019116	50.8	13.2	-37.6	55.7	0.237	8.66	44	0.8	< 0.5	12	623	< 1	14	15	116	2.63	17	< 10	30	< 0.5	4	1.12	8
1226019216	45.2	20.6	-24.6	54.2	0.380	8.72	158	3.9	1.0	15	655	< 1	15	162	399	1.85	24	11	33	< 0.5	5	1.21	9
1225001015	50.2	14.2	-36.0	58.5	0.243	8.66	1080	0.8	6.8	52	799	< 1	21	17	1630	1.67	101	< 10	35	< 0.5	< 2	0.70	11
1226008378	67.7	7.22	-60.5	74.7	0.0966	8.11	679	0.5	< 0.5	254	204	1	10	< 2	23	1.81	5	< 10	31	< 0.5	6	0.96	7
1226019197	10.3	17.8	7.50	15.9	1.12	8.97	14	1.7	< 0.5	127	586	1	15	8	79	2.84	18	< 10	41	< 0.5	< 2	1.86	11
1225001212	37.0	9.62	-27.4	42.3	0.228	8.63	102	1.3	1.3	43	446	2	12	16	307	2.49	16	< 10	34	< 0.5	3	1.48	8
1226019220	20.9	18.5	-2.45	29.7	0.622	8.81	51	1.0	0.7	24	616	1	13	31	269	2.59	15	15	29	< 0.5	4	1.56	8
1225001213	53.1	37.4	-15.7	66.2	0.565	8.62	254	4.2	1.3	52	988	2	16	103	329	1.69	50	< 10	28	< 0.5	4	2.06	10
1262019012	18.2	18.1	-0.170	23.0	0.786	8.86	26	0.5	< 0.5	23	472	1	14	9	123	2.33	12	< 10	33	< 0.5	3	1.51	8
1226019109	38.3	21.8	-16.5	45.0	0.484	8.80	109	2.2	1.1	36	552	1	12	36	419	2.53	25	< 10	41	< 0.5	6	1.66	9
1226019210	72.6	23.4	-49.2	81.2	0.288	8.36	188	0.7	3.0	28	801	1	13	19	917	1.76	16	< 10	31	< 0.5	2	1.41	9
V860687							117	1.7	< 0.5	61	363	4	13	9	67	1.47	< 2	< 10	81	< 0.5	< 2	1.19	14

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1232012005	104	2.44	< 10	< 1	0.27	14	1.02	0.142	0.040	0.33	< 2	3	44	0.11	< 1	< 2	< 10	40	< 10	2	10	0.16	0.30
1226017165	90	2.93	< 10	< 1	0.23	16	1.37	0.065	0.038	1.84	< 2	< 1	33	0.02	4	< 2	< 10	9	< 10	2	18	0.18	1.82
1226017302	173	3.14	< 10	< 1	0.20	16	0.97	0.033	0.043	2.51	< 2	< 1	24	0.02	< 1	< 2	< 10	7	< 10	2	17	0.41	2.45
1226017138	137	3.52	< 10	< 1	0.22	15	1.39	0.084	0.042	2.38	< 2	1	41	0.02	< 1	< 2	< 10	15	< 10	3	18	0.26	2.19
1226017349	144	2.65	< 10	< 1	0.17	16	0.92	0.189	0.041	2.57	< 2	< 1	124	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.18	2.48
1232012011	86	1.88	< 10	< 1	0.28	18	0.71	0.111	0.041	1.22	< 2	< 1	48	< 0.01	< 1	< 2	< 10	9	< 10	2	9	0.53	1.11
1226017115	125	2.64	< 10	< 1	0.25	16	1.01	0.120	0.042	1.78	< 2	1	60	< 0.01	< 1	< 2	< 10	12	< 10	2	17	0.15	1.77
1226017088	77	3.24	< 10	< 1	0.18	16	1.47	0.083	0.047	1.86	< 2	1	39	0.01	1	< 2	< 10	16	< 10	3	16	0.13	1.88
1226017424	131	3.89	< 10	< 1	0.20	14	0.85	0.117	0.039	4.00	< 2	< 1	93	< 0.01	< 1	< 2	< 10	7	< 10	2	22	0.15	3.90
1226017417	120	2.87	< 10	< 1	0.22	17	1.14	0.090	0.046	2.38	< 2	< 1	64	0.01	2	< 2	< 10	9	< 10	2	20	0.21	2.24
1226020081	102	2.07	< 10	< 1	0.28	13	0.78	0.028	0.034	1.24	< 2	< 1	30	0.02	< 1	< 2	< 10	8	< 10	1	15	0.34	1.23
1226017037	119	2.43	< 10	< 1	0.25	15	0.65	0.098	0.038	2.37	< 2	< 1	41	< 0.01	8	< 2	< 10	7	< 10	2	18	0.19	2.34
1226020021	180	4.74	< 10	2	0.11	< 10	2.10	0.376	0.025	0.21	< 2	8	69	0.20	< 1	< 2	< 10	125	< 10	4	4	0.24	0.21
1226020088	161	3.20	< 10	< 1	0.35	11	1.50	0.203	0.038	0.71	< 2	4	49	0.09	< 1	< 2	< 10	57	< 10	3	9	0.24	0.66
1226017303	179	4.90	< 10	< 1	0.20	14	0.85	0.025	0.038	4.82	3	< 1	12	< 0.01	2	< 2	< 10	6	< 10	2	18	0.18	4.34
1226017146	171	2.84	< 10	< 1	0.16	13	0.98	0.098	0.044	2.02	< 2	< 1	55	0.01	1	< 2	< 10	12	< 10	2	13	0.21	1.91
1226017010	245	2.48	< 10	< 1	0.35	16	1.04	0.065	0.043	1.38	< 2	1	42	0.02	< 1	< 2	< 10	16	< 10	2	14	0.26	1.38
1226020011	144	2.40	< 10	< 1	0.19	16	0.94	0.075	0.043	1.29	< 2	< 1	118	< 0.01	1	< 2	< 10	9	< 10	2	13	0.16	1.30
V860679	12	4.04	< 10	< 1	0.31	12	0.69	0.180	0.070	0.07	< 2	6	33	0.43	3	2	< 10	120	< 10	15	11		
1226004238	361	2.58	< 10	< 1	0.24	14	1.03	0.051	0.041	1.99	< 2	< 1	36	< 0.01	2	< 2	< 10	8	< 10	2	15	0.30	1.89
1226004176	286	2.42	< 10	< 1	0.26	13	0.82	0.032	0.043	1.95	3	< 1	28	< 0.01	4	< 2	< 10	8	< 10	2	14	0.18	1.93
1227035192	200	2.28	< 10	< 1	0.18	14	0.97	0.072	0.035	0.99	< 2	< 1	65	< 0.01	< 1	< 2	< 10	11	< 10	1	13	0.32	0.88
1226004174	152	1.50	< 10	< 1	0.23	15	0.14	0.034	0.048	1.59	4	< 1	22	< 0.01	1	< 2	< 10	4	< 10	1	14	0.16	1.49
1227035036	533	2.02	< 10	< 1	0.22	12	0.54	0.202	0.038	0.44	< 2	< 1	123	0.02	< 1	< 2	< 10	10	< 10	1	7	0.39	0.43
1226004104	461	2.86	< 10	< 1	0.21	< 10	0.51	0.043	0.035	2.13	2	< 1	45	< 0.01	< 1	2	< 10	9	< 10	< 1	10	0.33	2.10
1226004233	168	1.26	< 10	< 1	0.30	14	0.37	0.079	0.042	1.18	2	< 1	61	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.52	1.12
1226025001	403	3.22	< 10	< 1	0.24	31	1.35	0.093	0.067	1.80	3	2	47	< 0.01	2	< 2	< 10	22	< 10	3	16	0.27	1.75
1226025010	266	2.97	< 10	< 1	0.30	11	1.53	0.052	0.043	1.23	< 2	2	33	0.02	3	< 2	< 10	16	< 10	2	16	0.29	1.25
1226025137	157	2.60	< 10	< 1	0.33	< 10	1.26	0.045	0.038	1.80	2	< 1	22	< 0.01	4	< 2	< 10	11	< 10	2	13	0.27	1.78
1226004082	291	2.44	< 10	< 1	0.24	14	1.05	0.050	0.040	1.92	3	< 1	46	0.03	< 1	< 2	< 10	9	12	2	16	0.47	1.90
1226025041	423	2.67	< 10	< 1	0.29	14	1.20	0.069	0.039	1.36	< 2	1	34	0.01	< 1	< 2	< 10	14	< 10	2	13	0.34	1.37
1226015095	280	2.53	< 10	< 1	0.31	15	0.85	0.099	0.047	2.24	5	< 1	99	< 0.01	2	< 2	< 10	7	< 10	2	17	0.99	2.14
1226015336	340	2.30	< 10	< 1	0.17	15	0.70	0.076	0.044	0.95	< 2	< 1	119	0.02	< 1	< 2	< 10	12	< 10	2	9	0.26	0.98
1226004156	295	2.97	< 10	< 1	0.30	15	1.38	0.031	0.042	1.63	2	< 1	26	0.04	< 1	< 2	< 10	10	< 10	2	16	0.08	1.57
1226004306	308	2.48	< 10	< 1	0.29	16	0.74	0.024	0.041	1.94	< 2	< 1	16	< 0.01	2	< 2	< 10	7	< 10	2	11	0.39	1.87
1226004002	170	2.03	< 10	< 1	0.33	11	0.49	0.031	0.041	2.02	3	< 1	30	< 0.01	< 1	< 2	< 10	5	< 10	2	11	0.65	1.98
1226004099	270	2.64	< 10	1	0.30	12	0.63	0.027	0.038	2.56	4	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.52	2.53
V860680	12	3.28	< 10	< 1	0.26	17	0.45	0.170	0.046	0.04	< 2	3	51	0.30	3	< 2	< 10	61	< 10	17	8		
1226004044	336	1.39	< 10	< 1	0.10	< 10	0.23	0.027	0.030	0.60	3	1	19	< 0.01	< 1	< 2	< 10	8	< 10	< 1	8	0.19	0.57
1226004130	231	2.75	< 10	< 1	0.29	14	1.06	0.032	0.040	1.71	3	< 1	25	0.01	< 1	< 2	< 10	8	< 10	2	9	0.31	1.62
1226025103	472	2.49	< 10	< 1	0.27	14	1.16	0.126	0.037	1.63	< 2	< 1	55	0.03	2	< 2	< 10	13	< 10	2	17	0.29	1.55
1226004157	198	2.82	< 10	< 1	0.29	15	1.24	0.031	0.043	1.79	2	< 1	26	0.04	< 1	< 2	< 10	9	< 10	2	14	0.29	1.71
1226004021	412	2.08	< 10	< 1	0.21	< 10	0.49	0.048	0.040	1.48	5	< 1	42	< 0.01	< 1	< 2	< 10	7	< 10	2	10	0.56	1.38
1227030012	497	2.84	< 10	< 1	0.28	17	1.76	0.059	0.058	1.35	3	3	74	0.01	2	< 2	< 10	23	< 10	3	10	0.87	1.24
1226025016	522	3.11	< 10	< 1	0.25	17	0.75	0.108	0.047	2.29	< 2	1	39	< 0.01	2	< 2	< 10	13	< 10	2	18	0.19	2.21
1226015345	395	2.44	< 10	< 1	0.21	18	0.90	0.243	0.049	0.77	< 2	1	206	0.01	< 1	< 2	< 10	15	< 10	3	6	0.14	0.78
1226015147	103	2.13	< 10	< 1	0.24	12	0.80	0.167	0.035	1.03	< 2	1	197	0.04	< 1	< 2	< 10	13	< 10	2	11	0.33	0.98
1226015248	154	2.11	< 10	< 1	0.18	14	0.80	0.095	0.043	1.01	< 2	1	174	< 0.01	< 1	< 2	< 10	13	< 10	2	9	0.24	0.97
1226015231	160	2.48	< 10	< 1	0.19	16	1.02	0.113	0.047	1.59	< 2	1	188	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.40	1.45
1226025058	225	2.53	< 10	< 1	0.26	16	0.93	0.048	0.068	1.93	< 2	1	29	0.03	3	< 2	< 10	16	< 10	2	13	0.39	1.78
1226025037	146	2.89	< 10	< 1	0.20	29	1.20	0.047	0.070	1.85	< 2	1	27	< 0.01	4	< 2	< 10	17	< 10	3	15	0.19	1.75

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226025139	135	2.59	< 10	< 1	0.20	13	1.22	0.070	0.037	1.63	< 2	< 1	32	< 0.01	1	< 2	< 10	10	< 10	2	15	0.30	1.56
1226025029	159	2.27	< 10	< 1	0.20	14	0.92	0.086	0.040	1.62	< 2	< 1	39	< 0.01	3	< 2	< 10	9	< 10	2	14	0.39	1.54
1227030098	299	2.48	< 10	< 1	0.38	19	1.61	0.214	0.054	0.69	< 2	3	173	0.06	2	< 2	< 10	27	< 10	3	13	0.67	0.69
1226015033	99	2.15	< 10	< 1	0.21	14	0.90	0.038	0.045	1.85	< 2	< 1	70	< 0.01	< 1	< 2	< 10	7	< 10	2	10	1.11	1.74
1226015286	160	2.26	< 10	< 1	0.17	19	0.82	0.102	0.045	0.96	< 2	1	130	0.02	< 1	< 2	< 10	13	< 10	2	7	0.22	0.95
V860681	13	3.38	< 10	< 1	0.23	11	0.56	0.252	0.061	0.06	< 2	4	39	0.46	3	< 2	< 10	100	< 10	15	12		
1226021478	260	2.72	< 10	< 1	0.17	22	0.73	0.070	0.060	2.06	< 2	1	72	0.01	< 1	< 2	< 10	14	< 10	3	15	0.30	2.01
1226021454	141	2.23	< 10	< 1	0.18	29	0.92	0.072	0.054	1.22	< 2	< 1	55	< 0.01	< 1	< 2	< 10	11	< 10	2	12	0.32	1.15
1225002380	107	2.43	< 10	< 1	0.23	18	1.06	0.078	0.047	1.98	< 2	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	3	15	0.84	1.84
1225002396	72	2.18	< 10	< 1	0.28	16	0.66	0.075	0.046	2.17	< 2	< 1	46	< 0.01	1	< 2	< 10	6	< 10	3	16	0.50	2.01
1226021467	213	3.27	< 10	< 1	0.22	15	0.63	0.151	0.039	3.36	< 2	< 1	61	< 0.01	< 1	< 2	< 10	7	< 10	2	19	0.22	3.35
1225002377	100	2.32	< 10	< 1	0.28	16	1.03	0.083	0.045	2.03	< 2	< 1	36	< 0.01	2	< 2	< 10	9	< 10	2	17	0.56	1.93
1225002376	87	2.25	< 10	< 1	0.30	16	1.11	0.070	0.044	1.81	< 2	1	48	< 0.01	< 1	< 2	< 10	9	< 10	2	11	0.95	1.73
1234099032	216	2.43	< 10	< 1	0.28	15	0.91	0.092	0.046	0.48	< 2	3	48	0.09	2	< 2	< 10	31	< 10	3	11	0.26	0.46
1226021016	168	2.70	< 10	< 1	0.16	12	0.92	0.177	0.030	1.57	< 2	< 1	125	< 0.01	< 1	< 2	< 10	10	< 10	2	13	0.24	1.45
1225002509	100	3.00	< 10	< 1	0.25	21	1.38	0.071	0.055	1.45	2	1	44	< 0.01	< 1	< 2	< 10	15	< 10	3	12	0.91	1.39
1226021050	175	2.69	< 10	< 1	0.19	16	1.15	0.229	0.039	1.64	< 2	1	138	< 0.01	< 1	< 2	< 10	11	< 10	2	20	0.20	1.60
1225002386	149	3.01	< 10	< 1	0.26	21	1.00	0.128	0.055	2.56	2	1	87	< 0.01	3	< 2	< 10	14	< 10	4	20	0.86	2.42
1226021316	219	5.08	< 10	3	0.21	12	2.47	0.148	0.040	3.20	< 2	2	82	0.02	3	< 2	< 10	20	< 10	3	25	0.44	3.23
1226029058	208	2.49	< 10	< 1	0.17	15	0.85	0.063	0.042	1.43	< 2	1	32	0.01	< 1	< 2	< 10	15	< 10	3	16	0.47	1.39
1226021422	228	2.56	< 10	< 1	0.17	16	0.80	0.149	0.041	2.38	2	< 1	79	0.03	< 1	< 2	< 10	9	< 10	2	20	0.23	2.21
1226021013	306	2.54	< 10	< 1	0.14	12	0.83	0.174	0.033	1.15	< 2	1	130	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.22	1.11
1226029147	208	2.71	< 10	< 1	0.19	13	0.96	0.083	0.042	2.09	< 2	1	52	< 0.01	3	< 2	< 10	12	< 10	3	18	0.18	2.08
1226021412	218	1.99	< 10	< 1	0.14	12	0.87	0.155	0.038	1.52	< 2	1	80	< 0.01	1	< 2	< 10	12	< 10	2	18	0.26	1.49
1226029122	244	2.53	< 10	< 1	0.12	14	0.85	0.103	0.040	1.24	2	< 1	36	< 0.01	< 1	< 2	< 10	12	< 10	2	14	0.31	1.17
1226021441	156	1.89	< 10	< 1	0.29	34	0.82	0.058	0.054	0.95	< 2	< 1	69	< 0.01	< 1	< 2	< 10	8	< 10	3	10	0.53	0.94
V860682	12	3.15	< 10	< 1	0.25	17	0.44	0.167	0.045	0.04	< 2	3	50	0.29	3	< 2	< 10	59	< 10	16	7		
1226021220	143	2.47	< 10	< 1	0.17	13	1.49	0.256	0.036	1.19	< 2	< 1	131	< 0.01	< 1	< 2	< 10	12	< 10	2	15	0.20	1.20
1226021138	176	2.93	< 10	< 1	0.18	10	0.72	0.131	0.039	2.55	< 2	< 1	85	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.16	2.41
1226021283	178	2.50	< 10	< 1	0.16	13	1.40	0.309	0.036	1.59	< 2	< 1	152	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.22	1.54
1226021187	129	2.22	< 10	< 1	0.21	14	1.23	0.176	0.042	1.39	< 2	1	143	0.01	< 1	< 2	< 10	12	< 10	2	17	0.34	1.33
1226021230	224	2.73	< 10	< 1	0.12	13	1.39	0.129	0.035	1.56	< 2	< 1	57	< 0.01	< 1	< 2	< 10	12	< 10	2	17	0.20	1.53
1226021242	224	2.32	< 10	< 1	0.18	19	1.25	0.188	0.050	1.22	< 2	1	151	0.02	1	< 2	< 10	16	< 10	2	15	0.24	1.15
1226008025	129	6.31	< 10	2	0.22	13	2.06	0.039	0.053	4.76	3	3	20	0.05	< 1	< 2	< 10	43	< 10	6	21	0.21	4.74
1226021130	274	1.79	< 10	< 1	0.15	< 10	0.84	0.213	0.035	0.62	< 2	1	128	< 0.01	< 1	< 2	< 10	12	< 10	2	13	0.14	0.58
1226008053	217	2.50	< 10	< 1	0.43	17	0.89	0.151	0.045	1.80	< 2	1	91	0.01	1	< 2	< 10	15	< 10	2	17	0.50	1.66
1226008081	140	3.44	< 10	< 1	0.28	28	1.62	0.044	0.057	1.98	3	1	42	< 0.01	2	< 2	< 10	16	< 10	4	18	0.34	1.95
1226008366	194	3.66	< 10	< 1	0.21	11	0.83	0.057	0.033	1.58	< 2	< 1	42	0.01	< 1	< 2	< 10	9	< 10	2	10	0.30	1.52
1226008004	300	2.75	< 10	< 1	0.29	13	0.85	0.107	0.038	1.62	< 2	2	56	0.03	< 1	< 2	< 10	18	< 10	2	19	0.30	1.49
1226008069	194	2.66	< 10	< 1	0.29	15	1.05	0.120	0.041	1.28	< 2	1	62	0.03	< 1	< 2	< 10	13	< 10	2	11	0.55	1.15
1226008076	208	2.84	< 10	< 1	0.48	27	1.24	0.170	0.076	1.55	< 2	4	102	0.05	2	< 2	< 10	32	< 10	3	12	0.42	1.49
1226019705	178	2.31	< 10	< 1	0.30	11	0.46	0.025	0.037	2.26	6	< 1	24	< 0.01	< 1	< 2	< 10	5	< 10	2	10	0.47	2.14
1226008207	151	3.25	< 10	< 1	0.39	15	1.14	0.099	0.040	1.96	< 2	< 1	43	0.03	2	< 2	< 10	11	< 10	2	22	0.18	1.88
1226019061	154	2.58	< 10	< 1	0.21	25	0.82	0.030	0.054	1.42	4	< 1	45	< 0.01	< 1	< 2	< 10	10	< 10	2	10	0.41	1.32
1226008097	119	2.22	< 10	< 1	0.41	48	0.68	0.052	0.080	0.91	< 2	2	176	0.02	1	< 2	< 10	22	< 10	5	6	0.70	0.83
1226008363	201	3.50	< 10	< 1	0.22	14	1.36	0.061	0.041	0.87	< 2	1	43	0.02	< 1	< 2	< 10	16	< 10	2	10	0.39	0.90
1226019265	152	2.03	< 10	< 1	0.18	< 10	0.29	0.022	0.041	2.19	3	< 1	20	< 0.01	< 1	< 2	< 10	3	< 10	2	10	0.79	2.06
V860683	12	3.90	< 10	< 1	0.30	12	0.67	0.176	0.069	0.07	< 2	5	33	0.42	5	< 2	< 10	118	< 10	15	9		
1226021407	182	2.70	< 10	< 1	0.18	16	0.93	0.181	0.038	2.34	< 2	< 1	91	< 0.01	2	< 2	< 10	9	< 10	2	16	0.27	2.29
1226029042	140	3.25	< 10	< 1	0.18	20	1.26	0.118	0.057	1.82	2	1	81	0.03	< 1	< 2	< 10	15	< 10	3	16	0.22	1.81
1226029106	195	2.56	< 10	< 1	0.18	14	1.01	0.102	0.039	1.76	< 2	1	69	< 0.01	2	< 2	< 10	14	< 10	3	17	0.35	1.69

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226029050	289	2.55	< 10	< 1	0.11	14	0.81	0.053	0.041	1.67	< 2	2	25	< 0.01	1	< 2	< 10	16	< 10	3	15	0.40	1.56
1226021143	169	2.86	< 10	< 1	0.15	11	0.92	0.213	0.036	2.06	< 2	1	112	< 0.01	2	< 2	< 10	12	< 10	2	20	0.25	2.06
1226021063	308	2.11	< 10	< 1	0.16	14	0.82	0.244	0.037	0.87	< 2	1	279	0.04	2	< 2	< 10	17	< 10	2	9	0.40	0.79
1226021074	167	2.89	< 10	< 1	0.21	11	0.70	0.174	0.032	1.66	< 2	< 1	98	< 0.01	< 1	< 2	< 10	8	< 10	2	12	0.19	1.54
1226021293	137	2.21	< 10	< 1	0.24	16	1.21	0.233	0.039	1.42	< 2	< 1	129	0.02	< 1	< 2	< 10	9	< 10	2	16	0.30	1.26
1226021162	128	3.39	< 10	< 1	0.22	14	1.48	0.111	0.035	1.34	< 2	1	60	0.03	< 1	< 2	< 10	13	< 10	2	20	0.28	1.42
1226021401	209	2.43	< 10	< 1	0.16	15	0.83	0.139	0.040	2.33	< 2	< 1	77	< 0.01	3	< 2	< 10	9	< 10	2	18	0.19	2.29
1226021340	107	2.06	< 10	< 1	0.23	19	1.09	0.166	0.049	1.54	< 2	1	93	< 0.01	< 1	< 2	< 10	11	< 10	3	18	0.16	1.38
1226021103	184	3.01	< 10	< 1	0.20	19	1.16	0.112	0.044	1.64	3	1	51	< 0.01	< 1	< 2	< 10	13	< 10	2	18	0.18	1.67
1226021108	88	3.30	< 10	< 1	0.27	13	2.23	0.043	0.036	0.85	< 2	< 1	20	< 0.01	< 1	< 2	< 10	12	< 10	2	17	0.13	0.83
1226021263	97	3.91	< 10	3	0.27	15	2.26	0.065	0.047	2.82	< 2	2	38	0.01	3	< 2	< 10	17	< 10	4	30	0.24	2.73
1226021383	97	2.53	< 10	< 1	0.29	22	1.55	0.080	0.046	1.49	< 2	< 1	62	0.02	< 1	< 2	< 10	12	< 10	3	18	0.36	1.45
1226029149	154	3.16	< 10	< 1	0.20	15	1.41	0.080	0.041	2.12	< 2	1	39	< 0.01	< 1	< 2	< 10	14	< 10	3	20	0.16	2.05
1226029096	133	3.12	< 10	< 1	0.30	15	0.96	0.092	0.038	2.40	< 2	1	36	0.01	2	< 2	< 10	14	< 10	2	17	0.07	2.33
1226021099	107	3.86	< 10	2	0.32	13	1.26	0.097	0.037	1.68	< 2	1	58	0.07	< 1	< 2	< 10	13	< 10	2	22	0.23	1.68
1226021100	184	3.09	< 10	< 1	0.22	14	1.16	0.138	0.042	1.54	< 2	1	84	0.04	< 1	< 2	< 10	13	< 10	2	19	0.24	1.52
1226021272	188	2.68	< 10	< 1	0.20	16	1.68	0.111	0.044	1.43	< 2	1	66	< 0.01	< 1	< 2	< 10	13	< 10	2	18	0.33	1.39
V860684	14	3.37	< 10	< 1	0.23	11	0.56	0.246	0.059	0.07	< 2	4	39	0.46	5	< 2	< 10	98	< 10	15	10		
1226019168	82	2.31	< 10	< 1	0.16	26	0.94	0.032	0.055	0.96	3	1	46	< 0.01	< 1	< 2	< 10	11	< 10	2	8	0.26	0.83
1226019333	128	2.28	< 10	< 1	0.27	< 10	0.54	0.030	0.044	2.29	8	1	29	< 0.01	< 1	< 2	< 10	7	< 10	2	10	0.63	2.27
1226008127	241	3.95	< 10	1	1.26	61	2.41	0.082	0.180	0.44	< 2	9	190	0.19	< 1	< 2	< 10	88	< 10	7	6	0.79	0.50
1226019173	167	1.79	< 10	< 1	0.23	< 10	0.30	0.022	0.040	1.92	< 2	< 1	36	< 0.01	< 1	< 2	< 10	3	< 10	2	9	0.99	1.79
1226008390	164	3.81	< 10	2	0.35	11	0.69	0.112	0.033	2.07	< 2	< 1	82	0.02	< 1	< 2	< 10	9	< 10	2	19	0.24	2.04
1226008186	138	6.03	< 10	2	0.21	17	3.03	0.027	0.058	4.25	6	2	15	0.01	2	< 2	< 10	33	< 10	5	24	0.15	4.13
1226008169	220	2.88	< 10	< 1	0.37	36	0.89	0.046	0.090	1.74	< 2	3	56	0.04	2	< 2	< 10	31	< 10	3	9	0.47	1.73
1226008261	167	2.75	< 10	< 1	0.29	12	0.79	0.083	0.037	1.50	< 2	< 1	48	< 0.01	< 1	< 2	< 10	10	< 10	1	12	0.27	1.47
1225001165	194	1.64	< 10	< 1	0.17	18	0.44	0.154	0.045	0.63	< 2	< 1	148	0.01	1	< 2	< 10	8	< 10	2	7	0.38	0.59
1226008278	198	3.79	< 10	< 1	0.24	13	0.76	0.052	0.039	2.38	< 2	< 1	41	< 0.01	2	< 2	< 10	8	< 10	2	19	0.27	2.24
1226019042	118	1.49	< 10	< 1	0.27	16	0.58	0.035	0.042	0.71	< 2	< 1	37	< 0.01	2	< 2	< 10	5	< 10	2	8	0.71	0.67
1226019327	178	2.75	< 10	< 1	0.27	15	0.63	0.035	0.052	2.52	5	2	38	< 0.01	2	< 2	< 10	13	< 10	3	12	0.85	1.61
1226019065	83	2.83	< 10	< 1	0.18	25	0.56	0.042	0.052	2.22	2	< 1	53	< 0.01	< 1	< 2	< 10	11	< 10	2	12	0.16	2.18
1226019150	176	1.79	< 10	< 1	0.25	17	0.57	0.100	0.042	0.77	< 2	< 1	59	< 0.01	2	< 2	< 10	7	< 10	2	9	0.50	0.70
1225001194	113	2.50	< 10	< 1	0.20	17	0.81	0.134	0.044	0.82	< 2	1	100	0.02	< 1	< 2	< 10	13	< 10	2	9	0.22	0.77
1226019079	156	1.76	< 10	< 1	0.28	18	0.54	0.147	0.038	0.30	< 2	< 1	116	0.02	< 1	< 2	< 10	7	< 10	2	6	0.82	0.30
1226008031	176	3.91	< 10	2	0.27	24	2.35	0.033	0.062	2.20	< 2	2	41	0.03	2	< 2	< 10	24	< 10	3	18	0.47	2.23
1225001084	161	2.53	< 10	< 1	0.25	19	0.51	0.049	0.051	2.61	3	< 1	27	< 0.01	4	< 2	< 10	6	< 10	2	19	0.35	2.44
1226019144	155	2.66	< 10	< 1	0.29	14	1.26	0.086	0.041	2.36	3	< 1	37	< 0.01	3	< 2	< 10	12	< 10	2	14	0.55	2.26
V860685	12	3.96	< 10	< 1	0.31	12	0.68	0.179	0.067	0.07	< 2	5	33	0.41	5	< 2	< 10	117	< 10	15	9		
1225001009	124	2.11	< 10	< 1	0.26	12	0.99	0.168	0.037	1.46	< 2	< 1	52	0.01	< 1	< 2	< 10	9	< 10	2	14	0.28	1.46
1226008317	157	4.55	< 10	1	0.26	11	0.88	0.039	0.036	1.80	2	< 1	27	< 0.01	< 1	< 2	< 10	11	< 10	1	8	0.22	1.75
1226018023	172	2.19	< 10	< 1	0.24	15	0.70	0.137	0.042	1.51	< 2	1	99	< 0.01	< 1	2	< 10	14	< 10	2	13	0.36	1.44
1225001405	133	2.32	< 10	< 1	0.25	14	0.99	0.190	0.042	1.98	< 2	< 1	62	0.01	1	< 2	< 10	9	< 10	2	17	0.32	1.87
1225001052	88	2.19	< 10	< 1	0.25	13	0.87	0.141	0.041	1.98	< 2	< 1	50	< 0.01	1	< 2	< 10	7	< 10	2	20	0.27	1.93
1226018204	204	2.51	< 10	< 1	0.34	14	0.75	0.255	0.043	0.92	< 2	2	124	0.09	1	< 2	< 10	23	< 10	2	13	0.29	0.90
1225003245	180	2.45	< 10	< 1	0.11	17	0.85	0.078	0.052	0.34	< 2	1	112	0.02	< 1	< 2	< 10	17	< 10	2	4	0.28	0.34
1225001020	139	3.36	< 10	< 1	0.44	18	1.58	0.054	0.077	1.65	2	3	105	0.06	1	< 2	< 10	34	< 10	3	13	0.59	1.62
1226018229	175	2.92	< 10	< 1	0.20	15	0.97	0.212	0.043	1.67	< 2	1	86	0.01	< 1	< 2	< 10	12	< 10	2	14	0.22	1.61
1226008309	169	3.83	< 10	< 1	0.28	10	0.83	0.075	0.034	1.40	< 2	< 1	47	0.03	< 1	< 2	< 10	10	< 10	2	13	0.25	1.41
1225001408	165	2.16	< 10	< 1	0.28	13	1.00	0.084	0.039	1.47	< 2	1	52	0.03	< 1	< 2	< 10	11	< 10	2	13	0.31	1.40
1226018004	116	2.17	< 10	< 1	0.31	14	1.29	0.028	0.039	2.13	< 2	< 1	24	< 0.01	< 1	< 2	< 10	7	< 10	2	12	0.68	1.81
1226018222	117	3.32	< 10	< 1	0.28	12	0.90	0.057	0.034	2.95	< 2	< 1	52	0.03	< 1	< 2	< 10	8	< 10	2	28	0.14	2.89

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226018257	174	3.23	< 10	< 1	0.21	15	1.25	0.067	0.039	1.53	< 2	< 1	45	< 0.01	2	< 2	< 10	10	< 10	2	15	0.18	1.52
1226018216	262	2.57	< 10	< 1	0.37	15	0.83	0.291	0.046	1.07	2	1	166	0.08	< 1	< 2	< 10	21	< 10	2	15	0.34	1.00
1226018265	253	2.28	< 10	< 1	0.19	14	0.86	0.140	0.039	0.82	< 2	1	103	0.03	< 1	< 2	< 10	15	< 10	2	12	0.37	0.81
1225001018	118	3.49	< 10	< 1	0.26	13	0.77	0.030	0.041	2.91	3	< 1	19	< 0.01	< 1	< 2	< 10	8	< 10	1	12	0.06	2.75
1225001071	132	2.39	< 10	< 1	0.21	13	0.95	0.177	0.039	1.97	< 2	< 1	51	0.02	< 1	< 2	< 10	9	< 10	2	19	0.31	1.97
V860686	13	3.21	< 10	< 1	0.25	17	0.45	0.166	0.047	0.04	< 2	3	50	0.30	4	< 2	< 10	61	< 10	16	9		
1226019027	175	4.63	< 10	1	0.09	< 10	1.94	0.460	0.023	0.24	< 2	7	71	0.21	2	< 2	< 10	130	< 10	4	4	0.18	0.27
1225001169	288	1.91	< 10	< 1	0.15	12	0.47	0.081	0.037	0.89	< 2	< 1	77	< 0.01	< 1	< 2	< 10	8	< 10	2	11	0.42	0.86
1226019273	124	2.87	< 10	< 1	0.24	15	0.72	0.039	0.050	2.78	2	< 1	30	< 0.01	< 1	< 2	< 10	6	< 10	3	12	1.13	2.61
1226008137	204	1.95	< 10	< 1	0.29	48	0.72	0.045	0.069	0.74	< 2	< 1	152	< 0.01	< 1	2	< 10	8	< 10	4	4	0.66	0.73
1226019019	125	2.51	< 10	< 1	0.29	22	0.79	0.047	0.055	1.95	< 2	< 1	46	< 0.01	< 1	< 2	< 10	9	< 10	2	12	0.97	1.88
1226019190	117	2.53	< 10	< 1	0.47	16	1.08	0.053	0.042	1.09	< 2	3	31	0.08	2	< 2	< 10	26	< 10	3	12	0.38	1.11
1226008239	189	3.37	< 10	< 1	0.19	15	0.96	0.146	0.037	1.45	3	< 1	131	< 0.01	< 1	< 2	< 10	12	< 10	2	11	0.17	1.51
1226019097	159	4.81	< 10	3	0.07	< 10	2.18	0.489	0.023	0.18	< 2	8	76	0.19	1	< 2	< 10	124	< 10	4	3	0.21	0.19
1226019285	151	4.83	< 10	2	0.05	< 10	2.18	0.515	0.019	0.07	< 2	9	69	0.21	< 1	< 2	< 10	140	< 10	4	2	0.15	0.08
1225001146	125	2.41	< 10	< 1	0.23	15	0.95	0.077	0.043	2.18	< 2	< 1	50	< 0.01	< 1	< 2	< 10	8	< 10	2	19	0.45	2.08
1226019290	147	2.00	< 10	< 1	0.19	12	1.03	0.076	0.036	0.48	< 2	1	74	< 0.01	< 1	< 2	< 10	11	< 10	1	8	0.34	0.48
1226008286	174	3.40	< 10	< 1	0.18	15	1.02	0.150	0.037	1.45	< 2	< 1	139	< 0.01	< 1	2	< 10	12	< 10	2	10	0.18	1.53
1226019116	159	2.09	< 10	< 1	0.23	14	1.39	0.156	0.040	1.78	< 2	< 1	47	< 0.01	< 1	< 2	< 10	11	< 10	2	14	0.16	1.82
1226019216	111	2.11	< 10	< 1	0.32	14	1.45	0.046	0.039	1.79	< 2	1	29	0.01	2	< 2	< 10	11	< 10	2	14	0.27	1.77
1225001015	134	3.19	< 10	< 1	0.39	16	1.27	0.031	0.053	1.93	2	2	38	0.01	< 1	< 2	< 10	18	< 10	2	13	0.29	1.91
1226008378	216	3.67	< 10	< 1	0.19	12	0.66	0.107	0.033	2.47	< 2	< 1	67	0.02	2	< 2	< 10	7	< 10	2	20	0.22	2.44
1226019197	183	1.94	< 10	< 1	0.20	11	0.79	0.258	0.034	0.50	< 2	1	165	0.02	< 1	< 2	< 10	12	< 10	1	6	0.25	0.52
1225001212	169	2.01	< 10	< 1	0.19	17	0.65	0.143	0.045	1.39	< 2	< 1	165	< 0.01	2	< 2	< 10	8	< 10	2	10	0.23	1.38
1226019220	160	1.98	< 10	< 1	0.18	11	1.12	0.070	0.033	1.07	< 2	< 1	62	< 0.01	1	< 2	< 10	10	< 10	1	13	0.23	0.97
1225001213	179	2.57	< 10	< 1	0.19	16	0.76	0.083	0.048	2.27	3	< 1	88	< 0.01	3	< 2	< 10	7	< 10	2	16	0.62	2.16
1262019012	209	1.97	< 10	< 1	0.16	12	0.72	0.173	0.033	0.80	< 2	< 1	94	< 0.01	< 1	< 2	< 10	10	< 10	1	10	0.28	0.75
1226019109	113	2.10	< 10	< 1	0.23	13	0.90	0.099	0.036	1.48	< 2	< 1	89	< 0.01	< 1	< 2	< 10	10	< 10	2	17	0.30	1.47
1226019210	114	2.75	< 10	< 1	0.40	14	1.19	0.064	0.039	2.74	< 2	< 1	37	0.01	1	< 2	< 10	10	< 10	2	17	0.36	2.65
V860687	13	3.33	< 10	< 1	0.23	11	0.56	0.243	0.061	0.06	< 2	4	39	0.46	5	2	< 10	99	< 10	15	10		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	69	1030	2	24	91	126	6.32	226	< 10	769	0.9	2	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	70	1030	2	24	90	125	6.37	235	< 10	779	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1030	1	24	92	126	6.27	219	< 10	776	0.9	4	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
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GS311-4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						8.45																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	770	< 1	35	56	261	2.67	6		83	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2250	777	< 1	35	58	266	2.66	7		82	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2290	780	< 1	35	58	265	2.69	6		80	0.8	9	0.43	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4540	887	< 1	34	81	351	2.73	9		67	0.7	26	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4580	888	< 1	33	80	344	2.74	7		69	0.7	22	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				86	426						49		45
Oreas 96 (Aqua								11.50		39100.				100	448						27.9		49.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert										00													
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				84	424						38		46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.4		> 10000				87	432						46		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								69.0	294	3650	543	13	25	> 5000	> 10000	1.63	78			0.6	4	1.70	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.7	297	3690	542	14	25	> 5000	> 10000	1.65	77			0.6	2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	292	3600	534	12	25	> 5000	> 10000	1.57	80			0.6	4	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							2980																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2980																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3030																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
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GS316-3 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							500																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
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Oreas E1336 (Fire Assay) Meas							507																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
1226017417 Orig							56																
1226017417 Dup							55																
1226020021 Orig								0.8	0.6	135	719	< 1	51	32	197	4.51	< 2	< 10	29	< 0.5	3	3.36	22
1226020021 Dup								0.8	0.5	131	710	< 1	52	34	190	4.38	3	< 10	28	< 0.5	2	3.34	22
1226004238 Orig							235																
1226004238 Dup							230																
1226004176 Orig																							
1226004176 Dup																							
1226025001 Orig								1.4	1.0	53	636	2	26	4	260	1.94	23	< 10	45	< 0.5	3	1.06	12

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226025001 Dup								1.4	1.0	56	661	2	28	5	277	2.03	26	< 10	47	< 0.5	4	1.10	14
1226015095 Orig																							
1226015095 Dup																							
1226004130 Orig								1.0	2.8	46	792	1	19	50	696	1.63	111	< 10	35	< 0.5	< 2	0.79	10
1226004130 Dup								0.9	3.2	44	778	1	19	53	704	1.60	105	< 10	37	< 0.5	< 2	0.77	11
1226004021 Orig																							
1226004021 Dup																							
1226025016 Orig							78																
1226025016 Dup							72																
1226015248 Orig	24.7	13.7	-11.0	29.7	0.461																		
1226015248 Dup	24.7	13.7	-10.9	29.7	0.463																		
1227030098 Orig								0.6	3.0	56	659	2	70	< 2	675	2.47	10	< 10	66	< 0.5	< 2	2.36	13
1227030098 Dup								0.6	2.7	54	648	2	68	< 2	660	2.41	12	< 10	65	< 0.5	< 2	2.30	13
1226015033 Orig							49																
1226015033 Dup							52																
1234099032 Orig							30																
1234099032 Dup							30																
1226021013 Orig						8.82																	
1226021013 Dup						8.84																	
1226029122 Orig																							
1226029122 Dup																							
1226021441 Orig								0.4	0.6	68	481	1	11	4	151	1.25	4	< 10	89	< 0.5	< 2	1.53	9
1226021441 Dup								0.5	< 0.5	63	468	1	11	4	146	1.20	5	< 10	80	< 0.5	< 2	1.48	7
1226008053 Orig																							
1226008053 Dup																							
1226008004 Orig							229																
1226008004 Dup							329																
1226008069 Orig								0.9	< 0.5	81	674	2	16	6	71	1.89	36	< 10	37	< 0.5	7	2.03	8
1226008069 Dup								1.0	< 0.5	77	665	2	15	8	71	1.88	42	< 10	37	< 0.5	6	2.01	8
1226008097 Orig	16.9	47.3	30.4	25.4	1.86																		
1226008097 Dup	16.9	47.3	30.4	25.4	1.86																		
1226019265 Orig																							
1226019265 Dup																							
1226021407 Orig							47																
1226021407 Dup							49																
1226021143 Orig								0.4	< 0.5	119	261	3	16	< 2	36	2.46	6	< 10	28	< 0.5	4	1.33	6
1226021143 Dup								0.4	< 0.5	113	259	3	15	< 2	35	2.44	10	< 10	27	< 0.5	4	1.33	5
1226021401 Orig																							
1226021401 Dup																							
1226029149 Orig							80																
1226029149 Dup							87																
1226021100 Orig								0.6	0.5	105	435	3	19	< 2	196	2.51	10	< 10	35	< 0.5	4	1.35	8
1226021100 Dup								0.7	0.6	97	428	3	18	< 2	192	2.47	10	< 10	36	< 0.5	5	1.34	10
1226019168 Orig																							
1226019168 Dup																							
1226008390 Orig							2190																
1226008390 Dup							2420																
1226019042 Orig																							
1226019042 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226019150 Orig								0.7	1.0	25	816	< 1	12	15	276	1.40	40	< 10	33	< 0.5	2	1.82	6
1226019150 Dup								0.7	1.0	25	806	1	12	16	264	1.35	45	< 10	33	< 0.5	< 2	1.78	6
1225001194 Orig							38																
1225001194 Dup							40																
1226018023 Orig																							
1226018023 Dup																							
1225001052 Orig	50.5	16.2	-34.3	59.1	0.275																		
1225001052 Dup	50.5	16.2	-34.3	59.1	0.274																		
1225003245 Orig						8.85																	
1225003245 Dup						8.84																	
1225001020 Orig								1.1	3.5	63	945	1	32	28	780	1.98	79	< 10	40	< 0.5	< 2	2.19	15
1225001020 Dup								1.3	3.6	63	951	< 1	32	29	784	2.00	84	< 10	41	< 0.5	< 2	2.20	13
1226008309 Orig							273																
1226008309 Dup							205																
1226018222 Orig																							
1226018222 Dup																							
1226019027 Orig							29																
1226019027 Dup							29																
1225001169 Orig								1.2	0.7	207	496	3	16	16	199	1.47	41	< 10	31	< 0.5	< 2	1.34	8
1225001169 Dup								1.3	0.6	199	486	3	14	18	188	1.42	40	< 10	31	< 0.5	< 2	1.31	7
1226019190 Orig																							
1226019190 Dup																							
1226019290 Orig							24																
1226019290 Dup							25																
1226008378 Orig								0.5	< 0.5	254	204	1	10	< 2	23	1.81	6	< 10	30	< 0.5	4	0.96	7
1226008378 Dup								0.6	< 0.5	255	204	1	10	< 2	23	1.82	5	< 10	33	< 0.5	8	0.97	6
1262019012 Orig							14																
1262019012 Dup							38																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	80	5.53	20	2	1.14	< 10	0.39	0.140	0.033	0.02	4	19	33		< 1	< 2	< 10	169	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.67	20	2	1.14	< 10	0.39	0.132	0.034	0.01	4	19	32		< 1	< 2	< 10	168	< 10	4	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.56	20	< 1	1.11	< 10	0.39	0.136	0.033	0.01	4	19	33		< 1	< 2	< 10	166	< 10	4	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
SGR-1b Meas																						27.7	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.52
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.51
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	48	5.21	< 10		0.53	39	1.34	0.032	0.062	0.36	3	4	16			< 2	< 10	37	< 10	20	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	47	5.23	< 10		0.51	39	1.34	0.032	0.063	0.37	2	4	16			< 2	< 10	36	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	47	5.40	< 10		0.50	40	1.37	0.033	0.063	0.37	2	4	17			< 2	< 10	37	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	6.08	< 10		0.45	37	1.43		0.060	0.68	< 2	4	15			< 2	< 10	36	< 10	19	27		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	44	6.27	< 10		0.45	37	1.43		0.062	0.69	2	4	15			< 2	< 10	37	< 10	19	30		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.83	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.82	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.15	6												

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	32	3.36	10	4	0.40	21	0.43	0.153	0.034	4.56	119	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.44	10	4	0.40	21	0.43	0.157	0.034	4.70	123	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.34	10	4	0.38	20	0.43	0.150	0.033	4.38	106	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1226017417 Orig																						0.21	2.25
1226017417 Dup																						0.21	2.24
1226020021 Orig	181	4.85	< 10	2	0.11	< 10	2.14	0.382	0.025	0.20	< 2	8	70	0.20	2	< 2	< 10	126	< 10	4	4		
1226020021 Dup	178	4.64	< 10	2	0.11	< 10	2.06	0.370	0.025	0.21	< 2	8	68	0.20	< 1	< 2	< 10	124	< 10	4	4		
1226004238 Orig																							
1226004238 Dup																							
1226004176 Orig																						0.18	1.91
1226004176 Dup																						0.18	1.95
1226025001 Orig	397	3.16	< 10	< 1	0.23	30	1.32	0.090	0.066	1.76	3	2	46	< 0.01	2	< 2	< 10	22	< 10	3	15		
1226025001 Dup	409	3.28	< 10	< 1	0.24	32	1.37	0.096	0.069	1.85	2	2	48	< 0.01	1	< 2	< 10	22	< 10	3	17		
1226015095 Orig																						0.99	2.16
1226015095 Dup																						0.99	2.12
1226004130 Orig	231	2.73	< 10	< 1	0.29	14	1.06	0.032	0.040	1.71	3	< 1	25	0.01	2	< 2	< 10	8	< 10	2	9		
1226004130 Dup	230	2.77	< 10	< 1	0.29	14	1.06	0.031	0.040	1.70	4	< 1	25	0.01	< 1	< 2	< 10	8	< 10	1	9		
1226004021 Orig																						0.56	1.42
1226004021 Dup																						0.56	1.34
1226025016 Orig																							
1226025016 Dup																							
1226015248 Orig																							
1226015248 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227030098 Orig	301	2.52	< 10	1	0.39	19	1.64	0.216	0.055	0.69	< 2	3	174	0.06	2	< 2	< 10	27	< 10	3	14	0.67	0.67
1227030098 Dup	297	2.44	< 10	< 1	0.38	19	1.59	0.213	0.054	0.69	< 2	3	172	0.06	3	< 2	< 10	27	< 10	3	12	0.66	0.70
1226015033 Orig																							
1226015033 Dup																							
1234099032 Orig																						0.26	0.44
1234099032 Dup																						0.26	0.48
1226021013 Orig																							
1226021013 Dup																							
1226029122 Orig																						0.32	1.17
1226029122 Dup																						0.31	1.18
1226021441 Orig	158	1.93	< 10	< 1	0.29	34	0.84	0.059	0.055	0.97	< 2	< 1	71	< 0.01	< 1	< 2	< 10	8	< 10	3	10		
1226021441 Dup	154	1.86	< 10	< 1	0.28	35	0.81	0.057	0.053	0.93	< 2	< 1	68	< 0.01	2	< 2	< 10	8	< 10	3	9		
1226008053 Orig																						0.50	1.64
1226008053 Dup																						0.49	1.68
1226008004 Orig																							
1226008004 Dup																							
1226008069 Orig	196	2.66	< 10	< 1	0.29	15	1.05	0.121	0.041	1.26	< 2	1	63	0.03	2	< 2	< 10	14	< 10	2	11		
1226008069 Dup	192	2.67	< 10	< 1	0.29	15	1.04	0.119	0.041	1.29	< 2	1	62	0.03	< 1	< 2	< 10	13	< 10	2	11		
1226008097 Orig																							
1226008097 Dup																							
1226019265 Orig																						0.79	2.05
1226019265 Dup																						0.79	2.07
1226021407 Orig																							
1226021407 Dup																							
1226021143 Orig	170	2.85	< 10	< 1	0.16	11	0.92	0.214	0.035	2.05	< 2	1	112	< 0.01	2	< 2	< 10	12	< 10	2	20		
1226021143 Dup	167	2.86	< 10	< 1	0.15	11	0.92	0.212	0.037	2.06	< 2	1	111	< 0.01	1	< 2	< 10	12	< 10	2	20		
1226021401 Orig																						0.19	2.35
1226021401 Dup																						0.19	2.23
1226029149 Orig																							
1226029149 Dup																							
1226021100 Orig	188	3.14	< 10	< 1	0.22	14	1.18	0.139	0.042	1.55	< 2	1	84	0.04	< 1	< 2	< 10	13	< 10	2	19		
1226021100 Dup	181	3.04	< 10	< 1	0.22	14	1.14	0.137	0.042	1.53	< 2	1	84	0.04	< 1	< 2	< 10	13	< 10	2	19		
1226019168 Orig																						0.25	0.77
1226019168 Dup																						0.27	0.88
1226008390 Orig																							
1226008390 Dup																							
1226019042 Orig																						0.72	0.67
1226019042 Dup																						0.70	0.67
1226019150 Orig	177	1.82	< 10	< 1	0.25	18	0.57	0.102	0.042	0.79	< 2	< 1	59	< 0.01	2	< 2	< 10	7	< 10	2	9		
1226019150 Dup	174	1.76	< 10	< 1	0.25	17	0.56	0.099	0.041	0.76	< 2	< 1	59	< 0.01	2	< 2	< 10	7	< 10	2	9		
1225001194 Orig																							
1225001194 Dup																							
1226018023 Orig																						0.36	1.47
1226018023 Dup																						0.36	1.41
1225001052 Orig																							
1225001052 Dup																							
1225003245 Orig																							
1225003245 Dup																							
1225001020 Orig	139	3.34	< 10	< 1	0.43	17	1.57	0.053	0.077	1.66	2	3	104	0.06	2	< 2	< 10	34	< 10	3	13		
1225001020 Dup	140	3.37	< 10	< 1	0.44	19	1.59	0.054	0.077	1.65	2	3	107	0.06	1	< 2	< 10	34	< 10	3	14		
1226008309 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226008309 Dup																							
1226018222 Orig																						0.14	2.82
1226018222 Dup																						0.14	2.96
1226019027 Orig																							
1226019027 Dup																							
1225001169 Orig	289	1.93	< 10	< 1	0.15	13	0.48	0.084	0.037	0.90	< 2	< 1	78	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1225001169 Dup	287	1.89	< 10	< 1	0.15	12	0.47	0.079	0.037	0.87	< 2	< 1	75	< 0.01	< 1	< 2	< 10	8	< 10	2	11		
1226019190 Orig																						0.38	1.12
1226019190 Dup																						0.39	1.11
1226019290 Orig																							
1226019290 Dup																							
1226008378 Orig	215	3.67	< 10	< 1	0.19	11	0.66	0.107	0.033	2.45	< 2	< 1	66	0.02	2	< 2	< 10	7	< 10	2	20	0.22	2.40
1226008378 Dup	216	3.66	< 10	< 1	0.19	12	0.66	0.108	0.033	2.50	< 2	< 1	67	0.02	1	< 2	< 10	7	< 10	2	20	0.22	2.47
1262019012 Orig																							
1262019012 Dup																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
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Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-05527**
Report Date:	**29-Jun-20**
Date Submitted:	**28-May-20**
Your Reference:	**April 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-06-15 09:38:48
4F-C, S	Infrared	2020-06-16 21:01:59

REPORT **A20-05527**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-05527**
Report Date: **29-Jun-20**
Date Submitted: **28-May-20**
Your Reference: **April 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-06-17 07:54:25
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-06-10 14:27:25

REPORT **A20-05527**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226024112	50.1	15.1	-35.0	55.1	0.273	8.63	138	1.1	< 0.5	107	612	2	15	< 2	98	1.60	11	< 10	40	< 0.5	2	1.14	9
1226020480	50.3	100	50.0	63.7	1.57	8.50	124	0.7	0.6	15	1330	< 1	11	15	142	0.63	116	< 10	30	< 0.5	2	3.85	8
1225002402	19.4	17.3	-2.04	23.9	0.725	8.95	22	0.3	< 0.5	23	549	2	15	8	64	2.39	11	< 10	48	< 0.5	2	1.84	10
1225002422	24.1	8.48	-15.6	27.0	0.315	8.96	12	0.4	< 0.5	16	131	1	13	7	113	1.35	11	< 10	56	< 0.5	< 2	0.83	9
1226024114	20.0	19.7	-0.268	24.2	0.815	9.06	51	0.2	0.6	21	729	1	13	< 2	149	2.33	15	< 10	63	< 0.5	< 2	1.57	10
1226020615	62.5	25.0	-37.5	71.1	0.351	8.51	920	2.1	7.8	161	528	1	10	31	2380	1.90	28	< 10	37	< 0.5	4	1.36	8
1226020552	20.3	27.5	7.24	24.2	1.14	8.84	340	0.7	0.6	43	770	< 1	16	25	115	2.06	17	< 10	47	< 0.5	2	1.75	11
1225002430	13.5	15.9	2.33	17.8	0.893	9.00	24	0.5	< 0.5	17	280	1	14	7	70	2.64	9	< 10	57	< 0.5	2	2.07	10
1226020588	55.4	63.6	8.20	68.0	0.935	8.66	423	2.0	1.4	34	984	1	14	80	297	0.91	81	< 10	28	< 0.5	3	2.62	11
1225002440	21.5	15.4	-6.10	30.3	0.510	8.86	215	0.6	3.1	38	333	1	10	7	825	2.36	17	< 10	53	< 0.5	2	1.70	9
1226024086	21.7	23.3	1.64	27.0	0.864	8.61	58	0.5	1.2	30	713	2	15	3	285	2.41	12	< 10	66	< 0.5	< 2	1.91	10
1225002455	7.80	9.00	1.19	13.2	0.683	8.86	21	0.2	< 0.5	29	404	1	9	6	101	2.69	7	< 10	39	< 0.5	< 2	1.30	10
1226021443	42.0	15.5	-26.5	46.5	0.333	8.69	83	0.4	1.1	56	761	2	16	5	381	2.00	14	< 10	46	< 0.5	< 2	1.17	11
1226021447	25.0	32.9	7.91	29.4	1.12	9.03	69	0.2	< 0.5	34	570	1	11	4	129	1.47	6	< 10	106	< 0.5	< 2	1.64	9
1225002074	87.7	34.0	-53.7	95.9	0.355	8.54	152	1.3	4.5	84	631	1	15	5	1060	1.82	17	< 10	39	< 0.5	3	1.76	11
1226021011	25.8	29.7	3.88	30.0	0.990	8.70	84	0.7	1.0	105	478	7	23	11	252	2.26	10	< 10	50	< 0.5	2	2.48	8
1226020028	48.6	40.1	-8.53	54.8	0.732	8.81	47	0.7	< 0.5	59	1370	1	101	16	179	2.23	13	< 10	48	< 0.5	< 2	2.36	25
1225002271	34.2	31.0	-3.19	38.9	0.796	8.86	113	0.7	< 0.5	24	616	2	15	10	119	1.77	15	< 10	54	< 0.5	< 2	1.75	10
V860673							120	1.7	< 0.5	59	341	4	12	10	62	1.41	< 2	< 10	75	< 0.5	< 2	1.14	14
1225002086	60.9	17.8	-43.1	65.2	0.273	8.65	278	1.3	1.9	105	356	2	18	9	410	1.47	44	< 10	37	< 0.5	< 2	1.07	11
1225002016	82.9	12.6	-70.3	87.6	0.144	8.66	176	1.0	1.0	57	414	2	16	6	241	1.64	10	< 10	30	< 0.5	< 2	1.09	12
1226020365	58.8	16.9	-42.0	64.0	0.264	8.56	154	0.8	0.6	97	546	3	17	7	246	2.86	10	< 10	35	< 0.5	6	2.03	10
1225002060	70.2	18.8	-51.4	75.9	0.248	8.56	88	1.6	2.7	77	474	2	17	9	617	1.95	22	< 10	35	< 0.5	4	1.23	9
1225002004	67.6	13.1	-54.5	73.8	0.177	8.56	183	1.3	5.7	129	456	1	14	5	1460	1.76	16	< 10	42	< 0.5	3	0.96	8
1225002072	76.3	13.8	-62.5	83.9	0.165	8.47	137	1.2	5.7	101	485	2	19	6	1450	2.32	20	< 10	35	< 0.5	3	1.20	13
1226020250	0.000	185	185	12.3	15.1	8.78	16	< 0.2	< 0.5	60	1420	< 1	253	4	69	3.08	6	< 10	30	< 0.5	< 2	6.80	36
1226020438	3.12	7.12	4.00	7.35	0.969	9.23	79	5.3	1.3	105	678	< 1	41	26	267	4.35	< 2	< 10	32	< 0.5	< 2	3.06	21
1225002045	55.3	24.5	-30.8	64.6	0.378	8.53	190	0.7	6.1	145	349	2	27	5	1750	1.80	15	< 10	48	< 0.5	2	1.33	12
1225002125	42.8	13.7	-29.1	51.5	0.267	8.70	218	1.2	0.7	69	388	2	14	12	208	1.94	24	< 10	46	< 0.5	3	1.43	10
1225002029	68.4	17.4	-51.0	79.0	0.220	8.53	113	1.9	2.2	85	560	2	12	5	602	2.74	34	< 10	36	< 0.5	5	1.68	9
1226024051	53.9	9.62	-44.3	59.7	0.161	8.54	370	4.0	< 0.5	404	576	1	16	4	81	1.93	16	< 10	47	< 0.5	3	0.99	12
1226024058	36.1	16.3	-19.8	41.3	0.395	8.73	303	1.0	< 0.5	162	699	1	16	< 2	89	2.33	16	< 10	51	< 0.5	< 2	1.48	12
1226024088	17.1	17.3	0.249	22.7	0.764	9.00	52	0.3	0.6	36	671	1	17	2	154	2.52	12	< 10	60	< 0.5	< 2	1.82	9
1225002038	69.5	12.0	-57.5	79.9	0.150	8.59	114	1.2	5.1	156	437	2	14	7	1340	1.65	14	< 10	36	< 0.5	3	0.94	9
1226024139	57.2	7.72	-49.5	61.6	0.125	8.41	63	0.6	< 0.5	134	275	2	16	< 2	82	2.23	16	< 10	32	< 0.5	4	0.87	8
1226024159	18.6	17.4	-1.27	21.7	0.799	9.29	115	0.4	< 0.5	22	653	1	14	< 2	104	1.35	10	< 10	68	< 0.5	< 2	0.99	12
1226020393	28.9	153	124	40.4	3.77	8.60	71	1.3	3.9	52	1160	< 1	122	7	743	1.91	26	< 10	32	< 0.5	< 2	5.33	22
1226020459	58.6	11.0	-47.6	67.7	0.162	8.30	433	2.3	1.6	126	593	< 1	13	67	553	1.90	26	10	29	< 0.5	2	1.08	9
1226020466	12.8	22.8	9.97	12.6	1.81	8.96	452	1.4	0.8	56	962	1	13	336	353	1.95	7	12	45	< 0.5	< 2	1.50	7
1226020380	3.13	16.1	13.0	3.06	5.25	9.14	8	0.4	< 0.5	122	640	< 1	56	< 2	53	4.42	< 2	< 10	18	< 0.5	< 2	3.58	26
1226024124	37.7	15.1	-22.6	42.0	0.359	8.75	392	1.0	< 0.5	205	616	1	16	< 2	95	2.31	16	< 10	69	< 0.5	2	1.50	9
1226024036	33.1	10.1	-23.0	38.0	0.266	8.79	196	1.1	4.4	135	545	< 1	12	< 2	1140	1.75	11	< 10	60	< 0.5	5	0.97	9
1226024062	43.5	9.11	-34.4	50.2	0.181	8.70	296	0.5	1.5	54	777	1	16	< 2	377	2.03	18	< 10	60	< 0.5	3	0.66	11
1226020538	35.3	14.8	-20.5	48.1	0.308	8.80	433	0.9	1.3	125	636	1	11	12	433	2.86	16	< 10	44	< 0.5	4	2.02	8
V860674							988	2.3	< 0.5	58	400	10	16	7	57	1.50	< 2	< 10	78	< 0.5	< 2	1.36	16
1226020109	38.1	15.9	-22.2	46.5	0.341	8.67	74	1.0	0.5	60	469	2	14	16	197	2.58	22	25	34	< 0.5	5	1.22	10
1226020180	47.2	12.7	-34.4	53.9	0.236	8.72	85	0.8	0.5	110	579	4	15	8	163	2.80	17	18	37	< 0.5	6	1.33	10
1226017107	11.7	17.7	6.06	15.6	1.13	9.40	30	0.2	< 0.5	31	469	1	14	< 2	81	1.79	7	< 10	51	< 0.5	< 2	1.20	10
1226020200	31.7	8.12	-23.5	37.7	0.216	8.63	567	1.0	5.8	108	647	2	13	21	1880	2.09	9	< 10	40	< 0.5	< 2	0.87	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226017150	12.1	8.46	-3.62	16.5	0.511	9.10	88	0.3	< 0.5	75	555	1	13	4	68	1.99	3	< 10	55	< 0.5	3	0.68	7
1226020704	37.1	5.23	-31.8	44.4	0.118	8.29	40	0.2	10.9	27	78	1	16	3	2880	0.73	64	< 10	44	< 0.5	4	0.19	10
1226020057	42.7	12.0	-30.7	60.9	0.196	8.90	1060	2.4	30.3	101	433	< 1	14	17	7610	0.75	61	< 10	54	< 0.5	< 2	0.66	9
1226020228	8.32	13.6	5.29	14.7	0.926	8.48	42	0.3	0.7	17	241	2	15	5	194	1.39	21	< 10	23	< 0.5	< 2	0.57	7
1226017105	15.8	18.1	2.28	25.7	0.704	8.96	248	0.7	< 0.5	170	610	1	13	7	108	1.88	9	< 10	48	< 0.5	< 2	1.44	8
1226020324	3.84	5.00	1.16	13.5	0.371	7.21	16	< 0.2	< 0.5	20	196	1	13	2	75	1.28	25	< 10	25	< 0.5	2	0.26	7
1232012038	0.000	11.8	11.8	3.37	3.51	8.84	7	< 0.2	< 0.5	119	520	< 1	50	< 2	48	4.78	< 2	< 10	20	< 0.5	3	3.80	22
1226017202	67.8	7.96	-59.8	76.9	0.104	8.31	4940	3.8	0.7	1410	516	1	23	6	86	1.99	10	< 10	35	< 0.5	15	0.83	8
1225002244	57.3	34.9	-22.4	68.6	0.509	8.90	572	2.9	2.7	108	549	1	14	65	581	1.18	35	< 10	40	< 0.5	< 2	1.62	9
1225002344	49.2	64.2	14.9	62.5	1.03	9.11	375	2.9	0.5	41	1010	2	21	29	148	1.26	49	< 10	39	< 0.5	2	2.55	10
1226020410	77.6	5.61	-72.0	95.2	0.0589	8.39	344	0.9	45.6	64	280	1	18	5	> 10000	1.24	82	< 10	28	0.5	< 2	0.51	12
1225002321	65.4	68.9	3.55	86.1	0.801	8.85	164	1.9	1.2	57	940	1	18	45	334	1.52	42	< 10	27	< 0.5	3	2.76	13
1226017337	84.5	14.3	-70.1	91.0	0.157	8.45	114	1.1	0.6	148	411	7	16	3	198	1.78	13	< 10	31	< 0.5	7	1.28	11
1226020141	54.9	3.36	-51.5	61.3	0.0549	8.27	421	1.6	10.3	35	139	1	16	7	2560	1.53	149	< 10	42	0.5	< 2	0.55	11
1225002333	54.6	47.2	-7.37	62.5	0.756	8.79	253	3.5	1.4	70	1180	2	17	63	309	1.40	40	< 10	39	< 0.5	3	2.02	11
1226020503	43.5	59.2	15.6	53.0	1.12	8.80	151	1.1	1.7	31	555	< 1	11	15	408	0.42	79	< 10	26	< 0.5	< 2	2.52	7
1225002242	45.8	54.8	8.95	56.7	0.967	8.85	129	1.8	0.6	23	725	< 1	13	31	160	1.00	37	< 10	37	< 0.5	4	2.22	10
V860675							719	3.1	< 0.5	34	273	15	11	17	44	1.15	< 2	< 10	60	< 0.5	< 2	2.03	9
1226020048	58.9	29.8	-29.2	67.1	0.444	8.84	157	1.5	7.5	49	411	2	13	14	1820	0.44	93	< 10	20	< 0.5	2	1.27	8
1225002259	62.0	33.3	-28.6	68.3	0.488	8.78	106	2.7	2.2	46	484	2	13	40	523	1.08	33	< 10	39	< 0.5	< 2	1.60	10
1226020417	84.9	19.5	-65.4	94.9	0.205	8.54	258	1.3	11.5	74	201	1	13	15	2910	0.62	221	< 10	23	< 0.5	< 2	0.89	10
1226017384	76.1	4.12	-72.0	83.3	0.0495	8.22	384	0.8	< 0.5	301	465	1	11	4	97	1.42	19	< 10	31	< 0.5	4	0.52	8
1226020152	99.1	9.23	-89.9	113	0.0814	8.28	895	5.0	14.2	359	146	1	15	17	3610	0.83	224	< 10	25	< 0.5	< 2	0.46	11
1225002330	44.9	33.2	-11.7	51.5	0.646	8.77	139	1.1	0.6	19	801	1	18	32	125	1.97	34	< 10	44	< 0.5	2	1.97	9
1225002230	38.0	33.2	-4.82	49.6	0.669	8.93	130	0.6	< 0.5	23	563	1	14	11	139	1.73	13	< 10	56	< 0.5	< 2	1.82	10
1226020039	35.7	59.7	24.0	44.1	1.35	9.06	163	1.8	1.0	31	1170	2	14	46	270	1.14	46	< 10	32	< 0.5	2	2.50	8
1225002145	68.0	26.8	-41.2	76.3	0.351	8.93	93	1.2	5.2	66	536	2	17	6	1300	1.36	24	< 10	37	< 0.5	5	1.44	23
1225002165	52.5	26.9	-25.6	59.1	0.455	9.00	54	1.1	1.1	32	600	1	15	24	201	2.39	20	< 10	50	< 0.5	4	2.19	9
1226020223	79.5	12.2	-67.2	90.7	0.135	8.68	647	1.6	2.9	57	285	< 1	14	14	716	0.72	202	< 10	28	< 0.5	< 2	0.64	10
1225002228	40.2	33.9	-6.29	46.5	0.729	8.94	204	0.6	0.8	41	771	2	19	13	222	2.23	31	< 10	39	< 0.5	4	1.91	11
1226020419	81.3	27.9	-53.4	93.1	0.300	8.77	284	1.3	0.9	34	784	4	20	40	265	1.10	128	< 10	25	< 0.5	< 2	2.11	14
1226017021	30.3	144	113	35.2	4.08	8.97	154	0.9	4.3	41	939	2	11	11	1120	2.37	26	< 10	43	< 0.5	3	1.16	8
1226020069	8.44	2.75	-5.69	8.27	0.332	7.94	295	< 0.2	< 0.5	15	134	2	13	3	65	0.67	6	< 10	24	< 0.5	< 2	0.14	7
1225002186	62.8	23.3	-39.5	70.1	0.332	8.94	243	0.6	1.9	44	542	2	15	5	472	1.59	14	< 10	36	< 0.5	3	1.38	9
1226020261	60.2	26.8	-33.3	67.1	0.400	8.90	49	0.9	0.6	25	530	2	14	28	137	2.36	27	< 10	39	< 0.5	4	2.14	10
1225002204	54.7	29.9	-24.8	62.5	0.479	8.85	67	1.0	< 0.5	30	535	2	15	25	153	2.33	30	< 10	45	< 0.5	5	2.21	10
1225002174	56.1	20.7	-35.4	66.5	0.312	8.74	68	1.1	3.3	49	513	2	16	14	789	1.88	21	< 10	38	< 0.5	4	1.27	11
1226020288	39.6	4.98	-34.6	47.2	0.106	8.96	751	11.0	8.7	165	617	1	11	195	2790	2.38	12	< 10	51	< 0.5	2	0.79	9
1225002133	73.9	29.0	-45.0	84.5	0.343	8.69	100	0.9	1.8	51	635	3	18	11	414	2.07	15	< 10	34	< 0.5	3	1.70	11
1226020339	58.7	54.0	-4.69	72.0	0.751	8.91	142	3.2	9.3	56	822	< 1	13	91	2210	0.58	104	< 10	25	< 0.5	3	3.18	8
1226020284	169	14.8	-154	176	0.0844	7.98	1830	4.3	< 0.5	901	209	< 1	9	12	139	1.08	38	< 10	10	< 0.5	10	0.36	6
V860676							967	2.4	< 0.5	59	410	10	16	8	58	1.53	< 2	< 10	79	< 0.5	< 2	1.39	17
1226015363	19.3	8.61	-10.7	22.0	0.390	8.64	14	< 0.2	< 0.5	26	483	1	10	< 2	137	3.04	6	25	37	< 0.5	4	1.30	9
1226015001	101	9.11	-91.8	108	0.0845	8.53	144	0.6	< 0.5	55	449	1	13	3	57	2.04	22	< 10	30	< 0.5	7	1.04	9
1226015312	66.7	7.98	-58.7	72.0	0.111	8.79	54	0.4	< 0.5	41	358	2	13	4	101	1.79	23	< 10	38	< 0.5	3	0.98	10
1227042012	29.2	27.9	-1.23	35.2	0.793	9.08	101	1.1	5.1	92	739	2	14	3	1260	2.23	14	< 10	51	< 0.5	5	1.27	10
1227042104	67.5	19.3	-48.2	74.7	0.258	8.60	634	1.4	< 0.5	315	493	2	9	3	54	1.72	13	< 10	33	< 0.5	4	1.36	8
1227042013	24.4	17.6	-6.80	29.1	0.604	8.99	231	0.9	2.5	54	685	1	12	3	648	2.40	15	< 10	46	< 0.5	3	1.53	8
1226016274	46.7	6.87	-39.8	52.4	0.131	8.72	239	0.7	2.4	72	395	1	7	3	642	2.23	14	< 10	38	< 0.5	7	1.01	7

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226016330	55.6	19.1	-36.5	64.3	0.297	8.92	81	0.3	< 0.5	30	479	1	13	3	117	2.76	14	< 10	37	< 0.5	5	1.96	11
1227042026	64.2	15.4	-48.8	73.5	0.209	8.78	84	0.6	< 0.5	33	232	1	12	3	50	1.51	16	< 10	36	< 0.5	2	0.99	9
1227042206	48.0	13.4	-34.7	53.9	0.248	8.66	25	0.2	< 0.5	50	221	2	13	< 2	39	2.15	5	< 10	37	< 0.5	4	1.32	8
1227042118	36.3	9.59	-26.7	45.9	0.209	8.85	44	0.4	< 0.5	54	297	2	12	< 2	75	1.62	9	< 10	41	< 0.5	3	0.62	7
1227042053	47.3	31.9	-15.3	57.3	0.558	8.98	143	1.7	2.6	154	574	2	10	6	412	1.85	9	< 10	32	< 0.5	7	2.13	8
1227042070	40.5	11.7	-28.8	48.1	0.244	8.94	46	0.4	< 0.5	65	268	2	16	< 2	64	1.61	9	< 10	39	< 0.5	3	0.76	9
1227042172	49.2	7.62	-41.5	55.7	0.137	8.76	76	0.7	< 0.5	136	321	1	11	< 2	58	1.61	12	< 10	33	< 0.5	3	0.72	8
1226016288	2.81	5.12	2.30	2.76	1.86	9.20	6	< 0.2	< 0.5	117	462	< 1	47	< 2	50	4.85	2	< 10	14	< 0.5	3	3.60	24
1227042083	36.5	13.6	-22.9	40.7	0.333	8.83	44	0.4	< 0.5	71	261	2	17	< 2	58	1.55	10	< 10	32	< 0.5	5	0.84	9
1226016169	58.2	10.8	-47.5	65.5	0.164	8.60	380	1.2	2.6	190	451	1	11	< 2	631	2.33	14	< 10	34	< 0.5	5	0.99	9
1226016250	78.7	4.24	-74.5	87.3	0.0486	8.34	469	3.0	< 0.5	883	315	2	12	8	67	1.69	23	< 10	26	< 0.5	13	0.27	10
1226016205	72.7	5.36	-67.3	86.7	0.0618	8.56	235	0.5	< 0.5	128	331	< 1	11	< 2	68	1.98	18	< 10	27	< 0.5	5	0.73	10
1227042203	41.5	7.97	-33.6	50.5	0.158	8.41	206	0.4	0.6	80	189	1	14	< 2	148	1.92	8	< 10	32	< 0.5	3	0.80	10
1227042249	28.8	7.97	-20.9	35.5	0.224	8.72	69	< 0.2	< 0.5	27	219	2	11	< 2	66	2.32	5	< 10	33	< 0.5	4	1.22	10
1226016234	2.19	6.86	4.68	2.14	3.20	9.21	5	< 0.2	< 0.5	116	453	< 1	43	< 2	49	4.66	< 2	< 10	15	< 0.5	< 2	3.58	22
V860677							120	1.7	< 0.5	59	364	4	13	9	67	1.55	< 2	< 10	76	< 0.5	< 2	1.28	14
1226016115	100	4.87	-95.2	107	0.0454	8.16	204	1.6	0.9	116	422	1	13	3	277	1.52	22	< 10	13	< 0.5	10	0.31	9
1226016137	70.2	14.4	-55.8	75.0	0.192	8.62	117	0.5	< 0.5	76	235	1	9	3	80	1.05	7	< 10	19	< 0.5	4	0.90	5
1226016224	55.4	11.2	-44.2	61.9	0.181	8.77	271	0.7	5.1	97	481	1	12	< 2	1230	3.36	14	< 10	37	< 0.5	6	2.22	9
1226016068	66.0	9.09	-56.9	72.9	0.125	8.60	92	0.8	< 0.5	115	320	1	16	< 2	132	1.81	8	< 10	29	< 0.5	6	1.02	11
1226016110	25.7	9.72	-16.0	32.8	0.297	9.02	110	0.5	< 0.5	23	528	2	10	< 2	154	2.58	10	< 10	49	< 0.5	3	1.52	9
1232012289	12.9	37.8	24.9	17.8	2.13	8.07	21	0.8	0.7	15	841	1	15	7	208	1.76	8	< 10	58	< 0.5	< 2	1.98	11
1232012322	13.4	44.1	30.7	19.0	2.32	8.26	14	0.4	< 0.5	14	752	1	17	< 2	115	1.38	6	< 10	95	< 0.5	< 2	1.97	12
1226016104	30.4	6.22	-24.2	35.2	0.177	8.98	102	0.3	0.8	34	381	< 1	9	< 2	216	1.73	10	< 10	43	< 0.5	2	0.50	10
1232012276	16.3	38.2	21.9	20.5	1.86	8.74	43	1.0	1.1	15	754	< 1	17	22	305	2.16	11	< 10	51	< 0.5	< 2	2.64	9
1232012313	13.6	34.5	20.8	18.1	1.91	9.07	29	0.5	< 0.5	20	826	1	23	2	194	1.56	10	< 10	67	< 0.5	< 2	1.82	11
1226017443	54.7	4.62	-50.0	63.7	0.0726	8.27	68	0.3	< 0.5	11	335	2	15	4	57	1.56	8	< 10	25	< 0.5	2	0.60	9
1226017222	45.2	11.1	-34.1	50.8	0.218	8.73	141	0.4	0.7	53	492	1	13	2	147	2.23	9	< 10	31	< 0.5	5	1.13	8
1226016031	71.1	8.84	-62.3	77.5	0.114	8.45	234	1.1	< 0.5	179	221	1	10	< 2	174	1.25	6	< 10	26	< 0.5	8	0.51	6
1226016048	30.7	20.9	-9.85	35.2	0.593	8.71	124	0.2	< 0.5	39	390	2	13	< 2	140	1.94	6	< 10	45	< 0.5	4	1.37	10
1226016050	27.9	16.8	-11.1	32.5	0.518	9.13	79	0.3	0.8	36	511	1	16	< 2	208	1.89	9	< 10	55	< 0.5	3	1.04	9
1226017398	73.5	6.87	-66.7	80.5	0.0853	8.44	48	0.2	< 0.5	16	419	1	13	3	67	2.30	10	< 10	33	< 0.5	3	1.30	8
1232012199	12.4	23.0	10.6	17.5	1.31	8.47	27	0.6	1.1	22	686	2	23	3	321	2.18	10	< 10	62	< 0.5	< 2	1.71	9
1226016027	3.75	4.86	1.11	3.67	1.32	9.56	11	< 0.2	< 0.5	129	437	< 1	44	< 2	45	4.90	< 2	< 10	16	< 0.5	3	3.60	21
1226017085	127	20.5	-107	148	0.138	8.38	319	1.3	5.9	105	1620	1	49	11	1510	3.24	37	< 10	19	< 0.5	6	1.22	33
1226017429	80.5	9.24	-71.3	86.1	0.107	8.51	44	0.4	< 0.5	29	322	2	12	6	55	1.67	22	< 10	24	< 0.5	2	1.10	10
1226017032	35.1	8.59	-26.5	40.1	0.214	8.91	134	0.5	3.3	42	847	1	10	15	898	2.66	22	< 10	39	< 0.5	4	1.40	9
1226017322	80.0	6.98	-73.0	87.0	0.0803	8.29	78	0.6	2.9	176	466	2	14	4	657	2.28	9	< 10	27	< 0.5	3	1.23	8
V860678							756	3.0	< 0.5	33	271	15	12	18	45	1.18	< 2	< 10	59	< 0.5	2	2.05	11
1232012336	11.6	24.4	12.8	11.3	2.15	9.15	25	0.4	0.7	25	676	2	17	3	291	1.54	6	< 10	57	< 0.5	< 2	1.48	8
1232012008	11.6	17.0	5.49	11.3	1.50	8.99	40	0.4	0.5	21	535	4	30	7	125	2.05	8	< 10	42	< 0.5	< 2	1.48	9
1226017215	107	3.37	-104	112	0.0301	8.01	148	0.6	0.5	7	332	1	12	6	112	1.34	28	< 10	20	< 0.5	4	0.20	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226024112	193	2.56	< 10	< 1	0.19	15	1.01	0.100	0.049	1.69	< 2	1	46	0.03	1	< 2	< 10	14	< 10	3	17	0.35	1.80
1226020480	88	2.13	< 10	< 1	0.21	11	0.42	0.036	0.040	2.17	< 2	< 1	31	< 0.01	< 1	< 2	< 10	3	< 10	2	7	1.31	2.08
1225002402	241	2.01	< 10	< 1	0.21	18	0.69	0.224	0.053	0.80	< 2	1	166	< 0.01	1	< 2	< 10	13	< 10	3	5	0.55	0.78
1225002422	193	1.00	< 10	< 1	0.20	16	0.06	0.120	0.046	0.90	< 2	< 1	171	< 0.01	< 1	< 2	< 10	7	< 10	2	14	0.16	0.88
1226024114	136	2.24	< 10	< 1	0.35	14	1.17	0.193	0.044	0.81	< 2	1	72	0.05	2	< 2	< 10	17	< 10	3	14	0.34	0.79
1226020615	81	2.70	< 10	< 1	0.20	13	0.84	0.050	0.037	2.24	< 2	< 1	52	< 0.01	< 1	< 2	< 10	9	< 10	1	16	0.34	2.32
1226020552	96	2.33	< 10	< 1	0.32	12	1.31	0.065	0.032	0.80	< 2	2	48	0.06	< 1	< 2	< 10	19	< 10	2	20	0.33	0.79
1225002430	183	1.39	< 10	< 1	0.20	18	0.25	0.307	0.047	0.58	< 2	< 1	335	0.01	< 1	< 2	< 10	9	< 10	2	10	0.33	0.58
1226020588	78	2.65	< 10	< 1	0.25	15	0.66	0.031	0.049	2.40	2	< 1	32	< 0.01	1	< 2	< 10	7	< 10	3	13	0.83	2.22
1225002440	108	1.74	< 10	< 1	0.23	17	0.28	0.223	0.046	1.00	< 2	< 1	207	0.01	< 1	< 2	< 10	9	< 10	2	14	0.30	0.99
1226024086	162	2.32	< 10	< 1	0.44	16	1.02	0.230	0.046	0.93	< 2	1	96	0.06	2	< 2	< 10	19	< 10	3	16	0.40	0.88
1225002455	73	2.00	< 10	< 1	0.16	19	0.61	0.106	0.049	0.41	< 2	1	101	0.02	< 1	< 2	< 10	13	< 10	2	5	0.23	0.43
1226021443	166	2.86	< 10	< 1	0.20	19	1.31	0.085	0.044	1.49	< 2	1	58	0.03	< 1	< 2	< 10	18	< 10	3	18	0.31	1.52
1226021447	120	2.12	< 10	< 1	0.35	42	1.01	0.068	0.063	0.94	< 2	1	113	0.04	< 1	< 2	< 10	15	< 10	4	7	0.53	0.96
1225002074	130	2.99	< 10	< 1	0.19	23	0.99	0.110	0.049	3.25	2	< 1	66	< 0.01	2	< 2	< 10	9	< 10	2	20	0.85	3.13
1226021011	240	2.29	< 10	< 1	0.15	15	0.82	0.179	0.039	1.09	< 2	1	244	0.04	< 1	< 2	< 10	14	< 10	2	12	0.58	0.98
1226020028	430	3.47	< 10	< 1	0.27	24	2.27	0.040	0.100	1.76	3	7	82	0.09	< 1	< 2	< 10	48	< 10	4	14	0.58	1.79
1225002271	172	2.32	< 10	< 1	0.28	17	0.95	0.142	0.044	1.25	< 2	2	77	0.04	2	< 2	< 10	20	< 10	3	21	0.45	1.27
V860673	13	3.13	< 10	< 1	0.22	10	0.52	0.234	0.060	0.06	< 2	4	37	0.46	7	< 2	< 10	94	< 10	15	26		
1225002086	218	2.47	< 10	< 1	0.18	15	0.49	0.068	0.041	2.13	2	< 1	62	< 0.01	1	< 2	< 10	8	< 10	2	21	0.29	2.13
1225002016	221	2.76	< 10	< 1	0.11	22	0.86	0.139	0.053	2.88	< 2	< 1	71	< 0.01	1	< 2	< 10	9	< 10	3	26	0.20	2.86
1226020365	173	2.66	< 10	< 1	0.21	15	1.34	0.109	0.046	2.16	< 2	2	108	< 0.01	< 1	< 2	< 10	14	< 10	2	17	0.28	2.09
1225002060	207	2.54	< 10	< 1	0.12	22	1.11	0.153	0.052	2.49	4	1	72	< 0.01	3	< 2	< 10	12	< 10	2	22	0.35	2.48
1225002004	147	2.57	< 10	< 1	0.19	16	0.95	0.094	0.042	2.54	2	< 1	63	< 0.01	3	< 2	< 10	7	< 10	2	21	0.29	2.41
1225002072	274	2.75	< 10	< 1	0.13	18	1.00	0.173	0.044	2.69	3	1	96	< 0.01	1	< 2	< 10	12	19	2	18	0.89	2.74
1226020250	756	5.36	< 10	2	0.09	34	5.55	0.023	0.139	0.35	4	17	129	< 0.01	< 1	< 2	< 10	102	< 10	5	2	4.15	0.40
1226020438	123	4.11	< 10	2	0.16	< 10	1.72	0.495	0.022	0.21	< 2	7	62	0.15	1	< 2	< 10	103	< 10	3	6	0.14	0.24
1225002045	250	2.49	< 10	< 1	0.21	17	0.73	0.078	0.052	2.08	2	2	85	< 0.01	< 1	< 2	< 10	16	< 10	2	17	0.42	2.11
1225002125	147	2.02	< 10	< 1	0.23	16	0.51	0.189	0.044	1.68	< 2	< 1	131	< 0.01	< 1	< 2	< 10	7	< 10	3	17	0.26	1.68
1225002029	110	2.48	< 10	< 1	0.15	22	1.14	0.202	0.052	2.57	3	1	112	< 0.01	2	< 2	< 10	11	< 10	3	23	0.34	2.58
1226024051	193	3.01	< 10	< 1	0.22	15	1.04	0.134	0.045	1.90	< 2	1	57	0.02	< 1	< 2	< 10	14	< 10	3	19	0.23	1.95
1226024058	194	2.79	< 10	< 1	0.22	15	1.45	0.133	0.045	1.25	< 2	1	61	0.04	1	< 2	< 10	18	< 10	3	17	0.27	1.35
1226024088	222	2.28	< 10	< 1	0.36	15	1.04	0.227	0.044	0.78	< 2	1	104	0.06	< 1	< 2	< 10	18	< 10	3	14	0.30	0.74
1225002038	175	2.60	< 10	< 1	0.16	15	0.83	0.086	0.041	2.57	< 2	< 1	61	< 0.01	< 1	< 2	< 10	7	< 10	2	21	0.24	2.61
1226024139	244	2.99	< 10	< 1	0.16	12	1.12	0.122	0.036	1.95	< 2	< 1	77	< 0.01	< 1	< 2	< 10	10	< 10	2	21	0.18	2.01
1226024159	171	2.11	< 10	< 1	0.49	14	1.10	0.068	0.042	0.67	< 2	2	29	0.07	2	< 2	< 10	24	< 10	3	15	0.28	0.71
1226020393	528	3.67	< 10	< 1	0.13	24	2.75	0.023	0.095	1.24	5	10	91	< 0.01	< 1	< 2	< 10	60	< 10	4	7	2.32	1.32
1226020459	122	2.66	< 10	< 1	0.22	16	1.19	0.067	0.039	2.25	2	< 1	61	0.02	< 1	< 2	< 10	8	< 10	2	17	0.20	2.21
1226020466	123	1.77	< 10	< 1	0.29	12	1.25	0.047	0.032	0.41	< 2	1	55	0.05	< 1	< 2	< 10	12	< 10	2	13	0.34	0.41
1226020380	144	5.04	< 10	2	0.07	< 10	2.46	0.428	0.019	0.09	< 2	10	69	0.25	< 1	< 2	< 10	158	< 10	4	4	0.19	0.10
1226024124	192	2.62	< 10	< 1	0.28	15	1.16	0.212	0.045	1.33	< 2	2	108	0.05	2	< 2	< 10	20	< 10	3	20	0.27	1.37
1226024036	152	2.18	< 10	< 1	0.27	17	0.84	0.132	0.047	1.17	< 2	1	53	0.04	2	< 2	< 10	12	< 10	3	16	0.26	1.24
1226024062	129	3.21	< 10	< 1	0.24	13	1.71	0.052	0.045	1.48	< 2	1	35	0.04	1	< 2	< 10	20	< 10	3	19	0.19	1.64
1226020538	169	2.48	< 10	< 1	0.19	13	1.13	0.119	0.039	1.54	< 2	< 1	126	0.02	1	< 2	< 10	13	< 10	2	14	0.23	1.57
V860674	12	3.85	< 10	< 1	0.29	12	0.66	0.182	0.070	0.07	< 2	5	34	0.47	5	< 2	< 10	121	< 10	15	22		
1226020109	129	2.48	< 10	< 1	0.22	12	1.14	0.073	0.036	1.47	< 2	1	105	< 0.01	< 1	< 2	< 10	11	< 10	1	16	0.21	1.52
1226020180	148	2.91	< 10	< 1	0.21	12	1.28	0.094	0.035	1.68	< 2	< 1	123	< 0.01	< 1	< 2	< 10	11	< 10	2	19	0.24	1.76
1226017107	199	2.18	< 10	< 1	0.32	15	1.15	0.113	0.039	0.53	< 2	2	84	0.05	< 1	< 2	< 10	20	< 10	2	14	0.27	0.51
1226020200	157	2.36	< 10	< 1	0.20	14	0.82	0.072	0.041	1.16	< 2	< 1	51	< 0.01	< 1	< 2	< 10	14	< 10	1	11	0.15	1.23
1226017150	161	2.51	< 10	< 1	0.24	15	1.23	0.100	0.040	0.58	< 2	1	60	0.02	< 1	< 2	< 10	16	< 10	2	13	0.19	0.54
1226020704	155	1.58	< 10	< 1	0.23	13	0.14	0.024	0.042	1.56	< 2	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	1	12	0.08	1.45

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1226020057	105	1.66	< 10	< 1	0.32	13	0.13	0.031	0.042	2.00	2	< 1	24	< 0.01	3	< 2	< 10	4	< 10	1	12	0.27	1.99
1226020228	236	1.19	< 10	< 1	0.06	< 10	0.29	0.027	0.036	0.47	< 2	1	22	< 0.01	1	< 2	< 10	9	< 10	< 1	10	0.16	0.48
1226017105	136	2.42	< 10	< 1	0.23	13	1.06	0.081	0.039	0.87	< 2	2	46	0.05	2	< 2	< 10	17	< 10	2	16	0.28	0.84
1226020324	189	1.18	< 10	< 1	0.03	< 10	0.18	0.025	0.034	0.43	< 2	1	16	< 0.01	< 1	< 2	< 10	9	< 10	< 1	11	0.11	0.44
1232012038	171	4.55	< 10	2	0.07	< 10	1.80	0.483	0.020	0.10	< 2	7	71	0.22	< 1	< 2	< 10	129	< 10	4	4	0.22	0.11
1226017202	521	3.92	< 10	< 1	0.22	14	1.05	0.131	0.037	2.56	3	< 1	61	< 0.01	1	< 2	< 10	11	< 10	2	19	0.18	2.51
1225002244	153	2.45	< 10	< 1	0.26	15	0.77	0.057	0.046	2.41	< 2	< 1	32	< 0.01	2	< 2	< 10	7	< 10	2	14	0.66	2.24
1225002344	171	2.50	< 10	< 1	0.19	17	0.97	0.063	0.050	2.08	< 2	< 1	49	< 0.01	3	< 2	< 10	9	< 10	3	16	0.93	2.04
1226020410	113	2.69	< 10	2	0.20	11	0.32	0.036	0.037	3.17	< 2	< 1	36	< 0.01	< 1	< 2	< 10	6	< 10	1	12	0.18	3.11
1225002321	60	2.91	< 10	< 1	0.32	20	1.00	0.103	0.055	2.98	< 2	1	82	< 0.01	4	< 2	< 10	12	< 10	4	25	0.86	2.81
1226017337	200	3.03	< 10	< 1	0.19	15	0.95	0.181	0.041	2.95	< 2	1	78	0.01	4	< 2	< 10	12	< 10	3	23	0.27	2.97
1226020141	147	2.10	< 10	< 1	0.17	< 10	0.29	0.046	0.043	1.97	< 2	< 1	38	< 0.01	< 1	< 2	< 10	7	< 10	< 1	10	0.15	2.00
1225002333	201	2.45	< 10	< 1	0.23	17	1.06	0.099	0.044	2.15	4	< 1	55	< 0.01	1	< 2	< 10	8	12	3	19	0.74	2.04
1226020503	116	1.57	< 10	< 1	0.20	12	0.10	0.027	0.042	1.73	3	< 1	30	< 0.01	1	< 2	< 10	2	< 10	2	11	0.77	1.73
1225002242	104	2.11	< 10	< 1	0.25	15	0.79	0.045	0.046	1.91	< 2	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.76	1.85
V860675	12	3.13	< 10	< 1	0.25	16	0.44	0.167	0.048	0.04	< 2	3	50	0.31	2	< 2	< 10	60	< 10	16	22		
1226020048	176	2.02	< 10	< 1	0.21	11	0.20	0.025	0.043	2.23	7	< 1	18	< 0.01	1	< 2	< 10	3	< 10	1	12	0.48	2.19
1225002259	115	2.16	< 10	< 1	0.30	16	0.41	0.096	0.047	2.32	3	< 1	51	< 0.01	1	< 2	< 10	6	< 10	3	19	0.44	2.23
1226020417	122	2.77	< 10	< 1	0.26	11	0.17	0.027	0.044	3.26	4	< 1	15	< 0.01	< 1	< 2	< 10	4	< 10	1	12	0.29	3.10
1226017384	157	2.61	< 10	< 1	0.19	15	0.76	0.080	0.040	2.67	< 2	< 1	39	< 0.01	< 1	2	< 10	9	< 10	2	26	0.15	2.72
1226020152	176	3.29	< 10	< 1	0.37	13	0.15	0.033	0.044	3.85	20	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	17	0.17	3.70
1225002330	246	2.32	< 10	< 1	0.21	20	1.13	0.189	0.049	1.64	< 2	< 1	70	< 0.01	< 1	< 2	< 10	11	< 10	3	14	0.56	1.68
1225002230	195	2.24	< 10	< 1	0.26	25	0.94	0.135	0.055	1.60	< 2	1	68	0.01	< 1	< 2	< 10	13	< 10	3	17	0.46	1.62
1226020039	183	1.89	< 10	< 1	0.16	< 10	0.87	0.030	0.039	1.45	5	< 1	37	< 0.01	2	< 2	< 10	6	< 10	2	10	0.82	1.44
1225002145	230	2.51	< 10	< 1	0.16	20	0.93	0.124	0.052	2.58	4	1	59	< 0.01	< 1	< 2	< 10	10	61	3	22	0.46	2.49
1225002165	176	2.23	< 10	< 1	0.31	16	0.99	0.176	0.043	1.93	2	< 1	109	0.04	1	< 2	< 10	9	< 10	3	17	0.51	1.93
1226020223	131	2.78	< 10	< 1	0.25	14	0.28	0.028	0.047	2.98	3	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	15	0.20	2.96
1225002228	238	2.65	< 10	< 1	0.18	27	1.50	0.170	0.063	1.51	< 2	2	78	< 0.01	< 1	< 2	< 10	18	< 10	3	4	0.58	1.52
1226020419	108	3.47	< 10	< 1	0.25	11	0.87	0.026	0.045	3.06	4	< 1	19	< 0.01	2	2	< 10	9	< 10	2	11	0.69	3.04
1226017021	168	2.60	< 10	< 1	0.27	19	1.58	0.069	0.047	1.09	< 2	1	41	0.06	2	< 2	< 10	14	< 10	2	16	0.19	1.15
1226020069	226	0.77	< 10	< 1	0.04	< 10	0.08	0.018	0.047	0.25	3	< 1	10	< 0.01	< 1	< 2	< 10	7	< 10	< 1	7	0.06	0.27
1225002186	192	2.40	< 10	< 1	0.16	19	1.00	0.159	0.047	2.28	2	1	82	< 0.01	< 1	< 2	< 10	10	< 10	3	22	0.31	2.29
1226020261	135	2.45	< 10	< 1	0.25	16	0.92	0.178	0.047	2.19	< 2	< 1	98	0.03	1	< 2	< 10	9	< 10	3	20	0.33	2.19
1225002204	135	2.45	< 10	< 1	0.28	19	0.92	0.206	0.053	2.09	< 2	1	126	0.03	2	< 2	< 10	12	< 10	3	22	0.37	2.04
1225002174	155	2.54	< 10	< 1	0.21	16	0.94	0.155	0.051	2.18	2	1	73	< 0.01	1	< 2	< 10	13	< 10	3	18	0.35	2.17
1226020288	122	2.41	< 10	< 1	0.23	16	0.61	0.067	0.043	1.59	2	< 1	69	< 0.01	< 1	< 2	< 10	10	< 10	1	14	0.15	1.54
1225002133	186	2.83	< 10	< 1	0.16	18	1.00	0.166	0.048	2.84	< 2	< 1	83	< 0.01	3	< 2	< 10	10	< 10	3	21	0.47	2.76
1226020339	129	2.21	< 10	< 1	0.22	12	0.22	0.037	0.045	2.42	4	< 1	24	< 0.01	< 1	< 2	< 10	5	< 10	2	9	0.99	2.35
1226020284	170	5.55	< 10	< 1	0.30	< 10	0.44	0.034	0.033	6.03	2	< 1	27	< 0.01	2	< 2	< 10	5	< 10	1	21	0.14	5.74
V860676	12	3.92	< 10	< 1	0.30	12	0.68	0.188	0.072	0.07	< 2	6	35	0.47	5	2	< 10	122	< 10	15	21		
1226015363	83	2.40	< 10	< 1	0.18	16	1.23	0.121	0.051	0.72	< 2	1	131	< 0.01	2	< 2	< 10	14	< 10	2	10	0.14	0.72
1226015001	70	3.99	< 10	2	0.23	13	1.13	0.056	0.036	3.48	2	< 1	57	0.01	2	< 2	< 10	8	< 10	2	26	0.11	3.52
1226015312	104	2.63	< 10	< 1	0.24	16	0.85	0.129	0.042	2.41	< 2	< 1	91	0.02	< 1	< 2	< 10	7	< 10	2	23	0.09	2.35
1227042012	153	2.40	< 10	< 1	0.22	13	0.94	0.204	0.038	1.12	< 2	< 1	82	0.02	< 1	< 2	< 10	12	< 10	2	18	0.24	1.15
1227042104	93	2.88	< 10	< 1	0.28	19	0.78	0.157	0.044	2.52	< 2	< 1	79	0.01	< 1	< 2	< 10	11	< 10	2	21	0.32	2.44
1227042013	126	2.11	< 10	< 1	0.20	12	1.00	0.235	0.035	0.98	< 2	< 1	97	0.01	< 1	< 2	< 10	11	< 10	2	16	0.28	0.95
1226016274	131	2.05	< 10	< 1	0.20	20	0.98	0.172	0.048	1.68	< 2	< 1	69	< 0.01	3	< 2	< 10	7	< 10	2	17	0.17	1.71
1226016330	69	2.51	< 10	< 1	0.21	18	1.22	0.256	0.047	2.14	< 2	1	88	< 0.01	< 1	< 2	< 10	11	< 10	3	21	0.23	2.10
1227042026	114	2.70	< 10	< 1	0.22	13	1.28	0.069	0.038	2.49	< 2	< 1	27	0.02	3	< 2	< 10	8	< 10	2	21	0.24	2.40
1227042206	171	2.10	< 10	< 1	0.19	15	0.96	0.214	0.038	1.70	< 2	< 1	110	< 0.01	< 1	< 2	< 10	9	< 10	2	18	0.24	1.76
1227042118	169	2.44	< 10	< 1	0.19	13	1.28	0.086	0.036	1.39	< 2	< 1	39	< 0.01	1	< 2	< 10	10	< 10	2	18	0.19	1.50

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1227042053	121	2.31	< 10	< 1	0.19	16	0.62	0.217	0.048	1.89	< 2	< 1	154	< 0.01	2	< 2	< 10	11	< 10	2	19	0.47	1.87
1227042070	152	2.35	< 10	< 1	0.17	15	1.18	0.106	0.039	1.55	< 2	1	59	< 0.01	1	< 2	< 10	12	< 10	2	20	0.20	1.57
1227042172	136	2.42	< 10	< 1	0.17	14	0.90	0.117	0.038	1.84	< 2	1	59	< 0.01	3	< 2	< 10	11	< 10	2	21	0.15	1.82
1226016288	113	4.50	< 10	3	0.03	< 10	1.76	0.465	0.019	0.08	< 2	5	68	0.24	< 1	< 2	< 10	134	< 10	4	3	0.07	0.09
1227042083	227	2.24	< 10	< 1	0.13	12	1.15	0.117	0.036	1.38	< 2	< 1	55	< 0.01	1	< 2	< 10	11	< 10	2	19	0.25	1.33
1226016169	89	2.90	< 10	< 1	0.18	17	1.42	0.127	0.046	2.16	< 2	< 1	69	< 0.01	2	< 2	< 10	12	< 10	2	22	0.10	2.14
1226016250	150	3.71	< 10	< 1	0.23	18	1.31	0.041	0.051	2.84	< 2	< 1	27	< 0.01	2	< 2	< 10	9	< 10	2	22	0.14	2.85
1226016205	62	3.04	< 10	< 1	0.17	14	1.16	0.129	0.041	2.72	< 2	< 1	54	< 0.01	2	2	< 10	10	< 10	3	19	0.09	2.83
1227042203	156	2.52	< 10	< 1	0.16	12	1.17	0.143	0.035	1.94	< 2	1	71	< 0.01	2	< 2	< 10	11	< 10	2	24	0.15	1.65
1227042249	113	2.21	< 10	< 1	0.18	15	1.10	0.194	0.040	1.83	< 2	< 1	102	< 0.01	1	< 2	< 10	10	< 10	2	16	0.11	1.16
1226016234	105	4.26	< 10	< 1	0.04	< 10	1.66	0.464	0.019	0.07	< 2	5	69	0.22	< 1	< 2	< 10	132	< 10	4	3	0.06	0.07
V860677	13	3.29	< 10	< 1	0.23	11	0.56	0.254	0.060	0.06	< 2	4	41	0.47	4	< 2	< 10	100	< 10	15	14		
1226016115	96	4.14	< 10	< 1	0.24	13	1.09	0.048	0.043	3.56	< 2	< 1	21	< 0.01	5	< 2	< 10	10	< 10	2	23	0.05	3.50
1226016137	138	3.01	< 10	< 1	0.35	33	0.37	0.037	0.056	2.45	< 2	< 1	97	0.02	2	< 2	< 10	9	< 10	3	16	0.28	2.45
1226016224	132	2.63	< 10	< 1	0.17	18	1.15	0.250	0.052	2.00	< 2	< 1	119	0.02	< 1	< 2	< 10	13	< 10	2	20	0.13	2.02
1226016068	156	3.31	< 10	< 1	0.19	18	1.01	0.126	0.039	2.34	< 2	1	46	0.04	2	< 2	< 10	24	< 10	2	19	0.21	2.38
1226016110	106	1.99	< 10	< 1	0.20	17	1.14	0.214	0.049	0.99	2	1	104	0.02	< 1	< 2	< 10	14	< 10	2	13	0.12	1.07
1232012289	95	2.66	< 10	< 1	0.34	27	1.06	0.087	0.060	0.59	< 2	2	55	0.10	2	< 2	< 10	31	< 10	3	11	0.48	0.58
1232012322	158	2.60	< 10	< 1	0.64	27	0.92	0.068	0.059	0.64	2	3	45	0.13	< 1	< 2	< 10	37	< 10	3	14	0.57	0.62
1226016104	75	2.28	< 10	< 1	0.17	17	1.02	0.078	0.052	1.18	< 2	< 1	53	0.02	< 1	< 2	< 10	12	< 10	2	14	0.06	1.15
1232012276	89	2.28	< 10	< 1	0.28	22	0.99	0.110	0.057	0.68	< 2	2	67	0.10	3	< 2	< 10	24	< 10	3	15	0.47	0.67
1232012313	156	2.41	< 10	< 1	0.44	24	1.04	0.065	0.056	0.62	< 2	2	39	0.11	< 1	< 2	< 10	29	< 10	3	17	0.47	0.59
1226017443	156	2.84	< 10	< 1	0.23	20	0.88	0.112	0.049	2.98	< 2	< 1	48	0.01	1	< 2	< 10	8	< 10	3	22	0.13	2.08
1226017222	163	2.42	< 10	< 1	0.16	15	1.26	0.118	0.038	1.62	< 2	< 1	53	0.01	2	< 2	< 10	11	< 10	2	18	0.21	1.66
1226016031	133	3.23	< 10	< 1	0.34	12	0.73	0.038	0.039	2.50	< 2	< 1	18	< 0.01	2	< 2	< 10	7	< 10	2	19	0.18	2.53
1226016048	174	2.18	< 10	< 1	0.16	18	1.23	0.146	0.052	1.20	< 2	1	87	0.01	< 1	< 2	< 10	16	< 10	2	12	0.27	1.15
1226016050	105	2.29	< 10	< 1	0.23	19	1.29	0.076	0.050	1.07	< 2	1	53	0.03	1	< 2	< 10	16	< 10	2	18	0.15	1.06
1226017398	178	2.71	< 10	< 1	0.21	16	1.06	0.164	0.042	2.61	< 2	< 1	92	< 0.01	1	< 2	< 10	9	< 10	2	19	0.34	2.63
1232012199	156	2.21	< 10	< 1	0.45	20	1.03	0.142	0.052	0.56	< 2	2	89	0.08	2	< 2	< 10	25	< 10	2	12	0.32	0.57
1226016027	109	4.29	< 10	< 1	0.05	< 10	1.60	0.508	0.021	0.12	2	5	60	0.20	< 1	< 2	< 10	127	< 10	3	3	0.12	0.12
1226017085	89	7.79	< 10	2	0.31	< 10	2.13	0.062	0.070	4.00	3	6	47	0.30	3	< 2	< 10	138	< 10	9	12	0.24	4.83
1226017429	90	2.83	< 10	< 1	0.18	15	0.85	0.088	0.038	2.84	< 2	< 1	68	0.02	2	< 2	< 10	6	< 10	2	18	0.22	2.81
1226017032	85	2.59	< 10	< 1	0.30	17	1.49	0.114	0.045	1.30	< 2	1	57	0.05	< 1	< 2	< 10	18	< 10	3	18	0.09	1.31
1226017322	211	2.92	< 10	< 1	0.16	16	1.00	0.128	0.042	2.87	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19	0.17	2.84
V860678	12	3.14	< 10	< 1	0.25	17	0.44	0.172	0.045	0.04	< 2	3	50	0.30	3	< 2	< 10	60	< 10	16	9		
1232012336	222	2.04	< 10	< 1	0.36	16	0.93	0.080	0.047	0.36	< 2	2	51	0.10	< 1	< 2	< 10	23	< 10	2	13	0.33	0.37
1232012008	145	2.17	< 10	< 1	0.23	16	0.93	0.163	0.045	0.39	< 2	2	76	0.07	< 1	< 2	< 10	22	< 10	2	13	0.25	0.37
1226017215	125	4.11	< 10	< 1	0.20	13	1.27	0.023	0.040	3.70	< 2	< 1	9	< 0.01	2	< 2	< 10	7	< 10	2	18	0.02	3.66

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	69	1030	2	24	91	126	6.32	226	< 10	769	0.9	2	0.15	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	70	1030	2	24	90	125	6.37	235	< 10	779	0.9	3	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1030	1	24	92	126	6.27	219	< 10	776	0.9	4	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.8																					
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NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	770	< 1	35	56	261	2.67	6		83	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2250	777	< 1	35	58	266	2.66	7		82	0.8	8	0.43	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.9	< 0.5	2290	780	< 1	35	58	265	2.69	6		80	0.8	9	0.43	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4540	887	< 1	34	81	351	2.73	9		67	0.7	26	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4580	888	< 1	33	80	344	2.74	7		69	0.7	22	0.44	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				86	426						49		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.1		> 10000				84	424						38		46
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.4		> 10000				87	432						46		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								69.0	294	3650	543	13	25	> 5000	> 10000	1.63	78			0.6	4	1.70	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.7	297	3690	542	14	25	> 5000	> 10000	1.65	77			0.6	2	1.71	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	292	3600	534	12	25	> 5000	> 10000	1.57	80			0.6	4	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
OREAS 228b (Fire Assay) Meas							> 5000																
OREAS 228b (Fire Assay) Cert							8570																
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							503																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire							527																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert							510																
1225002422 Orig																							
1225002422 Dup																							
1225002440 Orig	21.5	15.4	-6.10	30.3	0.510		215																
1225002440 Dup	21.5	15.4	-6.10	30.3	0.510		215																
1226021447 Orig																							
1226021447 Dup																							
1225002074 Orig								1.3	4.5	85	631	1	15	5	1060	1.84	17	< 10	41	< 0.5	3	1.76	11
1225002074 Dup								1.2	4.5	82	630	1	15	6	1060	1.81	17	< 10	37	< 0.5	3	1.76	11
1225002086 Orig							283																
1225002086 Dup							272																
1226020250 Orig																							
1226020250 Dup																							
1225002125 Orig								1.2	0.7	69	392	2	15	11	209	1.95	25	< 10	44	< 0.5	4	1.44	11
1225002125 Dup								1.1	0.7	69	384	2	14	12	207	1.94	23	< 10	48	< 0.5	2	1.42	9
1225002029 Orig							114																
1225002029 Dup							111																
1226024159 Orig																							
1226024159 Dup																							
1226020393 Orig						8.60																	
1226020393 Dup						8.59																	
1226024036 Orig								1.2	4.2	138	550	< 1	12	< 2	1140	1.78	12	< 10	61	< 0.5	5	0.98	9
1226024036 Dup								1.1	4.6	133	540	< 1	12	< 2	1140	1.73	10	< 10	58	< 0.5	5	0.96	8
1226020538 Orig							471																
1226020538 Dup							395																
1226017107 Orig																							
1226017107 Dup																							
1226020324 Orig							16																
1226020324 Dup							15																
1232012038 Orig								< 0.2	< 0.5	121	526	< 1	50	< 2	49	4.87	< 2	< 10	21	< 0.5	3	3.85	22
1232012038 Dup								< 0.2	< 0.5	117	515	< 1	49	< 2	47	4.70	< 2	< 10	19	< 0.5	2	3.76	22
1225002244 Orig	57.3	34.9	-22.4	68.6	0.508																		
1225002244 Dup	57.3	35.0	-22.3	68.6	0.510																		
1226020503 Orig							157																
1226020503 Dup							144																
1226020417 Orig																							
1226020417 Dup																							
1226020152 Orig								5.0	14.2	358	146	1	15	17	3610	0.84	222	< 10	26	< 0.5	< 2	0.46	11
1226020152 Dup								5.0	14.2	361	146	1	16	17	3620	0.83	225	< 10	25	< 0.5	< 2	0.46	12
1226020419 Orig							250																
1226020419 Dup							318																
1225002174 Orig								1.1	3.3	48	507	2	16	13	779	1.85	22	< 10	36	< 0.5	3	1.25	11
1225002174 Dup								1.2	3.3	51	520	2	17	14	799	1.92	21	< 10	39	< 0.5	4	1.29	12
1226020284 Orig							1900																
1226020284 Dup							1770																
1226015363 Orig																							
1226015363 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226016330 Orig								0.3	< 0.5	31	485	1	13	2	119	2.80	13	< 10	38	< 0.5	6	1.98	12
1226016330 Dup								0.3	0.5	30	473	1	13	3	116	2.71	14	< 10	36	< 0.5	4	1.94	11
1227042026 Orig							85																
1227042026 Dup							82																
1227042118 Orig																							
1227042118 Dup																							
1226016288 Orig	2.81	5.12	2.31	2.76	1.86																		
1226016288 Dup	2.81	5.11	2.30	2.76	1.86																		
1226016205 Orig						8.56																	
1226016205 Dup						8.57																	
1226016234 Orig								< 0.2	< 0.5	118	452	< 1	43	< 2	50	4.72	< 2	< 10	15	< 0.5	3	3.60	22
1226016234 Dup								< 0.2	< 0.5	114	455	< 1	44	< 2	49	4.61	< 2	< 10	15	< 0.5	< 2	3.56	23
1226016115 Orig							206																
1226016115 Dup							202																
1232012313 Orig																							
1232012313 Dup																							
1226017443 Orig							66																
1226017443 Dup							70																
1226017032 Orig							130																
1226017032 Dup							137																
1226017322 Orig								0.6	2.8	177	465	1	14	4	667	2.28	7	< 10	26	< 0.5	3	1.23	8
1226017322 Dup								0.6	2.9	175	467	2	14	4	647	2.27	10	< 10	28	< 0.5	3	1.23	8
1232012008 Orig						8.97																	
1232012008 Dup						9.00																	
1226017215 Orig	107	3.37	-104	112	0.0301																		
1226017215 Dup	107	3.37	-104	112	0.0301																		
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
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Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	80	5.53	20	2	1.14	< 10	0.39	0.140	0.033	0.02	4	19	33		< 1	< 2	< 10	169	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.67	20	2	1.14	< 10	0.39	0.132	0.034	0.01	4	19	32		< 1	< 2	< 10	168	< 10	4	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.56	20	< 1	1.11	< 10	0.39	0.136	0.033	0.01	4	19	33		< 1	< 2	< 10	166	< 10	4	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
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BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
SGR-1b Meas																						27.4	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.58

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.51
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.52
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.11	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.51
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.53
GS311-4 Cert																						1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Meas																						1.10	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	48	5.21	< 10		0.53	39	1.34	0.032	0.062	0.36	3	4	16			< 2	< 10	37	< 10	20	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	47	5.23	< 10		0.51	39	1.34	0.032	0.063	0.37	2	4	16			< 2	< 10	36	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	47	5.40	< 10		0.50	40	1.37	0.033	0.063	0.37	2	4	17			< 2	< 10	37	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	44	6.08	< 10		0.45	37	1.43		0.060	0.68	< 2	4	15			< 2	< 10	36	< 10	19	27		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	44	6.27	< 10		0.45	37	1.43		0.062	0.69	2	4	15			< 2	< 10	37	< 10	19	30		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.83	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.82	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.15	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	32	3.36	10	4	0.40	21	0.43	0.153	0.034	4.56	119	2	19			< 2	< 10	13	< 10	7	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.44	10	4	0.40	21	0.43	0.157	0.034	4.70	123	2	19			< 2	< 10	13	< 10	7	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.34	10	4	0.38	20	0.43	0.150	0.033	4.38	106	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225002422 Orig																						0.17	0.86
1225002422 Dup																						0.16	0.90
1225002440 Orig																							
1225002440 Dup																							
1226021447 Orig																						0.53	0.93
1226021447 Dup																						0.53	0.98
1225002074 Orig	131	3.02	< 10	1	0.19	23	1.00	0.111	0.049	3.26	3	< 1	67	< 0.01	2	< 2	< 10	9	< 10	2	21		
1225002074 Dup	130	2.96	< 10	< 1	0.19	22	0.98	0.108	0.049	3.23	2	< 1	66	< 0.01	2	< 2	< 10	9	< 10	2	20		
1225002086 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225002086 Dup																							
1226020250 Orig																						4.15	0.40
1226020250 Dup																						4.15	0.40
1225002125 Orig	147	2.05	< 10	< 1	0.23	16	0.52	0.188	0.045	1.69	< 2	< 1	131	< 0.01	< 1	< 2	< 10	7	< 10	3	17		
1225002125 Dup	146	1.99	< 10	< 1	0.23	15	0.50	0.189	0.043	1.66	< 2	< 1	130	< 0.01	< 1	< 2	< 10	7	< 10	3	17		
1225002029 Orig																							
1225002029 Dup																							
1226024159 Orig																						0.27	0.72
1226024159 Dup																						0.29	0.69
1226020393 Orig																							
1226020393 Dup																							
1226024036 Orig	153	2.22	< 10	< 1	0.28	18	0.85	0.134	0.047	1.19	< 2	1	54	0.04	2	< 2	< 10	12	< 10	3	16		
1226024036 Dup	151	2.15	< 10	< 1	0.26	17	0.83	0.130	0.047	1.15	< 2	1	52	0.04	3	< 2	< 10	12	< 10	3	16		
1226020538 Orig																							
1226020538 Dup																							
1226017107 Orig																						0.27	0.50
1226017107 Dup																						0.27	0.51
1226020324 Orig																							
1226020324 Dup																							
1232012038 Orig	172	4.65	< 10	2	0.07	< 10	1.83	0.494	0.020	0.10	< 2	7	71	0.22	3	< 2	< 10	131	< 10	4	4		
1232012038 Dup	169	4.46	< 10	1	0.07	< 10	1.77	0.472	0.019	0.09	< 2	6	71	0.22	< 1	< 2	< 10	128	< 10	4	4		
1225002244 Orig																						0.66	2.26
1225002244 Dup																						0.65	2.22
1226020503 Orig																							
1226020503 Dup																							
1226020417 Orig																						0.29	3.09
1226020417 Dup																						0.29	3.10
1226020152 Orig	174	3.31	< 10	< 1	0.37	13	0.15	0.033	0.044	3.85	21	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	17		
1226020152 Dup	177	3.26	< 10	< 1	0.37	12	0.15	0.032	0.044	3.84	20	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	2	17		
1226020419 Orig																						0.69	3.06
1226020419 Dup																						0.70	3.02
1225002174 Orig	152	2.51	< 10	< 1	0.21	16	0.93	0.151	0.051	2.14	3	1	72	< 0.01	1	< 2	< 10	13	< 10	3	18		
1225002174 Dup	158	2.57	< 10	< 1	0.22	17	0.95	0.159	0.051	2.22	2	1	74	< 0.01	1	< 2	< 10	13	< 10	3	19		
1226020284 Orig																							
1226020284 Dup																							
1226015363 Orig																						0.14	0.71
1226015363 Dup																						0.15	0.74
1226016330 Orig	67	2.52	< 10	< 1	0.21	18	1.24	0.259	0.047	2.16	< 2	1	90	< 0.01	< 1	< 2	< 10	12	< 10	3	21		
1226016330 Dup	71	2.49	< 10	< 1	0.20	18	1.21	0.254	0.047	2.12	< 2	1	86	< 0.01	1	< 2	< 10	11	< 10	3	21		
1227042026 Orig																							
1227042026 Dup																							
1227042118 Orig																						0.19	1.50
1227042118 Dup																						0.19	1.51
1226016288 Orig																							
1226016288 Dup																							
1226016205 Orig																							
1226016205 Dup																							
1226016234 Orig	104	4.31	< 10	1	0.04	< 10	1.67	0.468	0.019	0.08	3	5	69	0.22	< 1	< 2	< 10	132	< 10	4	3	0.06	0.06
1226016234 Dup	105	4.21	< 10	< 1	0.04	< 10	1.64	0.460	0.019	0.07	< 2	5	69	0.23	< 1	< 2	< 10	132	< 10	4	3	0.06	0.07
1226016115 Orig																							
1226016115 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1232012313 Orig																						0.47	0.61
1232012313 Dup																						0.48	0.58
1226017443 Orig																							
1226017443 Dup																							
1226017032 Orig																						0.09	1.36
1226017032 Dup																						0.09	1.26
1226017322 Orig	212	2.92	< 10	< 1	0.16	16	1.00	0.127	0.041	2.89	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19		
1226017322 Dup	209	2.92	< 10	< 1	0.16	16	1.00	0.128	0.042	2.85	< 2	< 1	87	0.01	< 1	< 2	< 10	9	< 10	2	19		
1232012008 Orig																							
1232012008 Dup																							
1226017215 Orig																							
1226017215 Dup																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
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Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-07082**
Report Date:	**07-Aug-20**
Date Submitted:	**06-Jul-20**
Your Reference:	**May 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

148 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-07-16 07:17:51
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-07-17 22:29:40
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-07-15 21:39:45

REPORT **A20-07082**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-07082**
Report Date: **07-Aug-20**
Date Submitted: **06-Jul-20**
Your Reference: **May 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

148 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-07-20 21:51:27
4F-C, S	Infrared	2020-07-15 19:44:33

REPORT **A20-07082**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225006257	61.9	37.9	-24.0	74.7	0.507	8.78	> 5000	2.7	18.2	80	945	< 1	12	54	4210	1.18	71	< 10	48	< 0.5	< 2	1.60	10
1232013029	10.4	16.6	6.19	15.3	1.08	9.18	40	0.4	< 0.5	19	531	1	14	9	53	2.94	17	< 10	66	< 0.5	< 2	1.82	8
1225006267	10.0	5.12	-4.88	9.80	0.522	8.58	18	< 0.2	< 0.5	18	169	1	10	2	157	2.36	10	< 10	27	< 0.5	2	0.65	7
1226009229	42.2	8.74	-33.4	46.9	0.186	8.75	187	0.6	0.6	80	497	1	10	4	201	2.23	8	< 10	44	< 0.5	< 2	1.08	8
1225006212	45.0	68.2	23.2	50.8	1.34	9.11	128	0.6	2.2	24	742	1	12	22	526	0.71	74	< 10	33	< 0.5	< 2	2.36	9
1225006317	11.9	3.86	-8.01	11.6	0.332	8.21	28	< 0.2	0.5	16	177	2	16	3	157	1.73	10	< 10	21	< 0.5	2	0.44	7
1225006154	26.1	3.24	-22.9	30.0	0.108	7.59	956	0.4	3.0	35	134	2	16	7	836	0.79	77	< 10	30	< 0.5	< 2	0.12	8
1232013016	6.04	23.1	17.0	9.19	2.51	9.04	12	0.5	< 0.5	13	517	2	20	6	112	2.45	5	< 10	62	< 0.5	< 2	2.03	10
1225006059	55.8	73.7	17.9	63.4	1.16	8.85	306	1.5	4.0	40	882	1	12	36	873	0.62	168	< 10	25	< 0.5	3	2.73	8
1225006033	48.4	72.6	24.2	55.4	1.31	8.90	73	1.1	< 0.5	24	1020	1	12	24	133	1.25	74	< 10	40	< 0.5	3	2.97	10
1225006070	47.7	46.0	-1.70	53.3	0.863	8.70	154	2.5	1.0	45	902	2	13	38	257	1.45	53	< 10	37	< 0.5	3	2.10	9
1225006013	50.3	41.1	-9.21	55.7	0.737	8.85	137	1.3	1.2	34	870	2	12	49	309	1.45	45	< 10	34	< 0.5	3	1.85	9
1225006272	45.5	3.62	-41.9	50.2	0.0721	8.38	250	0.4	5.6	27	108	1	15	6	1390	1.19	64	< 10	57	< 0.5	2	0.44	12
1225006050	80.1	48.5	-31.6	89.4	0.543	8.79	375	5.1	7.1	114	810	2	14	71	1490	0.73	140	< 10	31	< 0.5	3	1.74	10
1225006007	88.5	47.8	-40.7	100	0.477	8.70	823	37.9	11.9	196	891	2	15	78	2250	0.76	147	< 10	32	< 0.5	3	1.72	10
1233005004	9.99	35.0	25.0	13.2	2.66	9.21	11	0.3	< 0.5	26	554	1	21	< 2	114	2.51	7	< 10	56	< 0.5	< 2	2.32	13
V860694							119	1.7	< 0.5	59	349	4	12	11	64	1.52	< 2	< 10	83	< 0.5	< 2	1.13	15
1226009076	39.4	13.2	-26.2	43.2	0.306	8.80	228	0.5	< 0.5	112	302	3	11	3	55	1.58	8	< 10	57	< 0.5	2	0.97	9
1225006234	13.4	3.49	-9.94	13.2	0.265	8.24	452	0.3	1.2	41	136	2	14	2	447	0.64	13	< 10	36	< 0.5	< 2	0.15	8
1226027049	53.5	17.8	-35.7	59.1	0.301	8.80	116	0.9	< 0.5	78	545	4	18	4	181	1.83	18	< 10	46	< 0.5	2	1.42	10
1225006390	56.3	14.1	-42.3	63.1	0.223	8.61	669	1.0	6.1	76	752	1	14	28	1590	1.58	89	< 10	35	< 0.5	< 2	0.77	11
1226027040	28.6	19.5	-9.09	32.8	0.596	9.15	45	0.7	1.9	59	787	1	16	3	426	2.78	13	< 10	90	< 0.5	3	1.77	11
1226009109	31.7	24.7	-6.99	36.1	0.683	9.04	132	2.4	< 0.5	29	509	1	14	4	155	1.60	28	< 10	54	< 0.5	3	1.27	9
1225006377	57.3	22.6	-34.7	73.2	0.308	8.76	673	0.7	30.0	131	603	< 1	15	7	7530	0.70	74	< 10	49	< 0.5	< 2	0.95	12
1226009238	37.4	12.8	-24.6	42.6	0.301	8.87	71	0.7	0.5	102	532	2	19	7	158	2.02	13	< 10	75	< 0.5	2	1.35	9
1225006225	14.9	12.9	-2.02	17.8	0.725	8.70	41	< 0.2	0.7	19	300	1	13	5	204	1.75	47	< 10	23	< 0.5	< 2	0.83	7
1225006452	110	26.4	-83.6	119	0.223	8.36	176	0.8	5.6	24	874	1	13	27	1420	0.62	119	< 10	26	< 0.5	< 2	1.11	9
1226027059	55.2	31.6	-23.6	60.0	0.526	8.66	222	1.9	0.5	260	488	3	14	6	65	1.50	9	< 10	62	< 0.5	7	1.76	9
1226009111	37.7	23.3	-14.4	42.3	0.552	8.91	234	0.7	0.5	99	488	2	16	5	133	1.52	14	< 10	41	< 0.5	3	1.17	9
1225006368	13.1	3.49	-9.63	12.9	0.271	8.48	14	< 0.2	< 0.5	17	179	2	14	3	148	1.85	12	< 10	29	0.6	2	0.47	7
1225006293	56.7	21.9	-34.8	64.6	0.338	8.60	533	1.1	5.0	97	697	1	15	20	1020	1.92	49	< 10	37	< 0.5	< 2	1.39	10
1226009151	35.1	29.1	-6.02	39.8	0.730	9.03	140	1.4	< 0.5	35	459	2	15	5	114	1.51	23	< 10	46	< 0.5	5	1.36	9
1225006182	71.5	25.1	-46.5	79.6	0.315	8.70	210	1.4	7.7	74	622	2	15	32	1940	1.59	31	< 10	53	< 0.5	< 2	1.20	12
1232013007	22.8	17.1	-5.74	27.0	0.633	8.91	561	4.8	< 0.5	24	756	1	14	28	109	1.58	33	< 10	42	< 0.5	2	1.26	9
1226027162	52.1	8.87	-43.2	56.0	0.158	8.76	112	0.7	0.6	157	219	2	11	2	153	1.50	5	< 10	24	< 0.5	7	0.72	7
1225006174	74.6	12.0	-62.6	79.9	0.150	8.60	568	1.1	2.5	31	268	1	12	23	684	0.58	174	< 10	25	< 0.5	< 2	0.61	10
V860695							728	3.2	< 0.5	33	263	17	10	17	43	1.20	< 2	< 10	61	< 0.5	< 2	1.95	10
1225009011	32.1	18.6	-13.5	36.8	0.507	8.82	118	1.7	0.6	54	651	1	13	26	227	1.82	16	10	46	< 0.5	3	1.25	10
1225004317	68.3	9.25	-59.1	75.0	0.123	8.47	462	1.3	< 0.5	213	370	4	15	5	63	1.92	10	< 10	51	< 0.5	5	0.69	12
1233004049	1.88	21.2	19.3	1.84	11.5	9.44	< 5	< 0.2	< 0.5	21	425	2	19	< 2	83	2.00	2	< 10	74	< 0.5	< 2	1.54	12
1225004300	80.7	8.87	-71.9	87.0	0.102	8.51	170	1.2	0.6	170	450	1	14	10	201	2.46	15	< 10	47	< 0.5	4	1.03	9
1225004211	64.2	6.35	-57.8	68.9	0.0922	8.46	148	0.7	< 0.5	112	352	2	11	5	49	2.67	8	< 10	33	< 0.5	4	1.15	9
1225004310	70.2	13.5	-56.7	77.5	0.174	8.53	176	0.9	< 0.5	76	410	2	15	8	114	2.52	10	< 10	50	< 0.5	5	1.21	10
1225004174	43.9	14.5	-29.5	54.5	0.266	8.69	255	0.9	< 0.5	215	468	4	18	3	66	1.73	10	< 10	61	< 0.5	3	0.84	10
1225005175	42.6	37.4	-5.17	49.3	0.759	8.89	242	1.4	< 0.5	23	793	2	14	29	129	1.75	26	< 10	45	< 0.5	3	1.91	9
1225004331	57.1	12.9	-44.2	68.0	0.189	8.69	133	1.2	0.8	44	449	2	12	7	192	2.53	13	< 10	43	< 0.5	6	1.31	9
1225004157	33.5	10.4	-23.2	40.7	0.254	8.71	121	0.2	< 0.5	32	175	2	13	5	44	1.80	17	< 10	57	0.5	4	0.71	8
1225004330	67.9	22.9	-45.0	78.1	0.294	8.64	172	0.9	3.1	105	522	2	14	4	669	2.28	7	< 10	47	< 0.5	4	1.53	9
1225009001	4.16	13.8	9.67	7.66	1.81	9.14	26	0.5	< 0.5	32	533	1	16	7	58	2.24	5	13	41	< 0.5	2	1.15	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225004243	66.9	10.8	-56.0	72.3	0.150	8.44	214	0.7	< 0.5	90	397	< 1	12	8	51	2.80	8	< 10	41	< 0.5	4	1.30	9
1225005225	53.1	36.7	-16.5	60.9	0.601	9.00	95	1.3	0.9	31	990	2	12	36	257	1.47	27	< 10	38	< 0.5	2	1.79	8
1225005031	22.6	85.7	63.1	33.1	2.59	9.23	142	1.4	1.4	30	1110	2	13	27	319	1.98	20	< 10	53	< 0.5	3	2.09	10
1225004178	44.6	11.6	-32.9	63.7	0.182	8.58	91	0.5	< 0.5	90	481	6	19	4	129	1.23	14	< 10	47	< 0.5	< 2	0.79	11
1225005121	42.6	50.4	7.77	51.5	0.979	9.02	180	1.1	0.5	25	998	1	13	31	140	1.68	32	< 10	43	< 0.5	2	2.12	9
1225004193	56.1	11.6	-44.5	71.1	0.163	8.46	393	1.0	0.9	191	479	4	14	5	182	2.97	12	< 10	58	< 0.5	5	1.51	11
1225004082	51.1	14.9	-36.3	56.3	0.264	8.80	45	0.4	0.6	50	508	3	14	5	167	1.34	10	< 10	39	< 0.5	< 2	0.98	10
1225005220	33.4	40.7	7.30	45.6	0.892	9.01	121	1.0	< 0.5	34	1010	1	15	32	133	1.91	31	< 10	48	< 0.5	2	1.81	8
1225004105	19.7	14.5	-5.19	24.5	0.592	8.89	73	0.3	< 0.5	34	425	2	17	6	62	2.52	11	< 10	59	< 0.5	< 2	1.37	10
1225004095	49.6	7.12	-42.5	55.4	0.128	8.50	2160	1.6	< 0.5	353	505	4	15	4	64	2.67	10	< 10	59	< 0.5	3	1.45	10
V860696							981	2.5	< 0.5	61	395	11	16	9	56	1.60	< 2	< 10	82	< 0.5	< 2	1.27	16
1225012354	50.8	20.6	-30.2	62.2	0.331	8.63	86	0.6	< 0.5	97	541	3	22	2	185	2.06	12	< 10	36	< 0.5	4	1.42	9
1225017207	35.4	11.3	-24.1	41.3	0.274	8.62	210	0.3	< 0.5	98	327	2	18	5	34	2.36	15	< 10	35	< 0.5	3	1.10	8
1225012303	51.0	7.85	-43.2	59.1	0.133	8.74	385	1.5	3.1	161	745	2	19	3	837	2.39	10	< 10	60	< 0.5	5	0.82	12
1225012393	53.5	9.49	-44.0	61.6	0.154	8.53	47	0.2	< 0.5	17	489	1	12	4	52	2.64	7	12	57	< 0.5	5	1.43	8
1225012397	72.1	7.48	-64.6	78.4	0.0955	8.50	74	0.3	< 0.5	32	442	1	14	5	54	3.30	9	< 10	54	< 0.5	3	1.70	9
1225012256	54.2	13.1	-41.1	60.6	0.216	8.56	190	0.9	1.5	165	621	2	15	6	481	2.94	14	< 10	48	< 0.5	4	1.41	9
1225012331	123	4.36	-119	129	0.0338	7.83	137	0.5	< 0.5	36	278	2	17	5	43	1.49	12	< 10	32	< 0.5	6	0.40	10
1225012162	48.3	10.3	-38.0	54.5	0.190	8.49	940	1.0	< 0.5	298	484	3	19	6	96	2.30	11	< 10	72	< 0.5	5	0.79	10
1225012116	26.6	23.6	-2.94	30.6	0.771	8.88	955	0.8	< 0.5	165	518	3	18	4	75	2.28	7	< 10	62	< 0.5	3	1.51	9
1225012273	73.3	14.8	-58.5	88.8	0.167	8.53	162	0.7	< 0.5	10	279	1	13	6	33	1.45	22	< 10	52	< 0.5	5	0.76	8
1225012248	45.6	10.7	-34.9	55.7	0.193	8.83	145	0.5	1.0	45	474	1	12	3	311	2.64	13	< 10	55	< 0.5	6	1.33	9
1225012111	11.8	18.2	6.41	15.9	1.14	9.21	246	0.2	< 0.5	22	631	2	14	< 2	80	2.72	5	< 10	87	< 0.5	3	1.47	8
1225012221	60.4	11.2	-49.2	69.5	0.162	8.47	233	1.0	< 0.5	269	375	3	16	6	42	2.10	11	< 10	49	< 0.5	8	1.05	9
1225012231	60.0	9.08	-50.9	68.3	0.133	8.66	636	0.6	< 0.5	203	377	< 1	12	5	63	2.00	15	< 10	50	< 0.5	8	0.55	10
1225012285	72.4	7.99	-64.4	79.3	0.101	8.59	150	0.7	< 0.5	188	432	< 1	11	4	51	2.40	11	10	52	< 0.5	6	1.03	8
1232014005	2.81	19.1	16.3	7.35	2.60	9.50	22	0.3	< 0.5	30	483	2	26	2	117	1.58	4	< 10	69	< 0.5	< 2	1.28	11
1232014110	6.45	26.6	20.2	11.9	2.23	9.73	12	0.3	< 0.5	21	564	2	23	< 2	122	1.74	5	< 10	98	< 0.5	< 2	1.53	11
V860697							730	3.1	< 0.5	34	269	14	12	19	43	1.26	< 2	< 10	61	< 0.5	< 2	2.04	12
1433001142	71.0	89.5	18.5	94.3	0.949	8.56	277	1.8	1.2	66	1480	< 1	91	3	302	4.57	19	< 10	48	< 0.5	3	4.40	31
1434002011	3.63	121	117	11.0	11.0	8.83	< 5	0.3	< 0.5	209	1120	< 1	65	< 2	92	4.53	5	< 10	17	< 0.5	3	5.50	33
1434002119	9.37	43.1	33.7	14.4	3.00	9.07	899	0.3	1.1	55	1010	1	24	4	297	2.21	5	< 10	54	< 0.5	< 2	2.43	13
1433001136	7.90	63.9	56.0	15.9	4.01	9.04	46	0.5	< 0.5	75	943	1	62	2	211	3.52	10	< 10	36	< 0.5	< 2	3.36	24
1225014187	9.78	6.24	-3.54	16.8	0.370	8.95	33	0.5	1.4	21	609	1	14	17	451	3.08	9	13	46	< 0.5	3	1.14	11
1433001133	29.4	31.6	2.21	36.1	0.874	8.73	47	0.3	< 0.5	59	528	2	39	4	112	1.59	4	< 10	32	< 0.5	< 2	1.63	18
1433001091	43.2	81.0	37.8	62.2	1.30	8.55	60	1.2	0.8	213	1340	< 1	71	5	215	5.17	14	< 10	52	< 0.5	3	4.92	34
1433001076	87.7	95.2	7.55	107	0.888	8.41	151	1.3	1.9	81	1380	< 1	55	5	457	3.30	31	< 10	33	< 0.5	3	3.95	29
1225014265	2.50	9.74	7.24	2.45	3.98	8.89	< 5	0.2	< 0.5	126	592	< 1	59	< 2	49	5.51	< 2	< 10	15	< 0.5	< 2	3.84	25
1433001123	18.7	76.8	58.0	27.9	2.76	8.88	6	0.4	< 0.5	114	986	< 1	93	< 2	94	4.97	7	< 10	30	< 0.5	2	4.69	34
1433001105	9.05	83.0	74.0	18.4	4.52	8.96	11	0.5	0.5	48	1330	< 1	151	< 2	179	6.00	8	< 10	73	< 0.5	3	5.04	36
1433001152	8.53	82.9	74.4	18.1	4.59	8.69	< 5	0.4	< 0.5	93	1270	< 1	75	< 2	135	4.86	11	< 10	30	< 0.5	4	4.46	34
1225014058	60.0	13.7	-46.2	80.8	0.170	8.41	303	0.5	< 0.5	123	366	1	16	3	63	2.14	21	< 10	34	< 0.5	5	0.98	9
1225014014	87.3	4.11	-83.2	96.5	0.0426	8.08	1930	0.3	< 0.5	18	321	2	20	4	58	1.54	8	< 10	29	< 0.5	4	0.43	12
1433001034	49.2	96.7	47.5	68.3	1.42	8.45	251	2.0	0.6	108	1570	< 1	42	5	225	4.38	22	< 10	54	< 0.5	3	5.28	37
1225014011	48.3	9.74	-38.6	55.1	0.177	8.62	2220	1.0	< 0.5	119	457	2	19	4	121	2.28	10	< 10	39	< 0.5	5	1.13	8
1433001042	3.01	106	103	11.3	9.32	8.83	17	0.3	< 0.5	106	938	< 1	71	< 2	120	3.81	6	< 10	76	< 0.5	3	4.86	29
1225014044	109	11.0	-98.3	116	0.0946	8.29	96	0.3	< 0.5	36	556	2	22	6	84	1.94	10	< 10	22	< 0.5	4	0.83	13
1225008353	55.7	15.7	-40.0	61.9	0.254	8.52	140	0.5	2.6	114	709	3	30	< 2	627	2.02	5	< 10	33	< 0.5	3	1.11	12
1225014252	2.19	12.6	10.4	2.14	5.89	8.91	< 5	< 0.2	< 0.5	126	570	< 1	57	< 2	45	5.76	< 2	< 10	20	< 0.5	2	3.99	24

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225007321	26.9	8.91	-18.0	30.3	0.294	8.86	90	0.3	< 0.5	83	417	2	19	3	72	2.69	11	< 10	55	< 0.5	4	1.56	8
V860698							972	2.5	< 0.5	60	410	11	17	8	57	1.70	< 2	< 10	84	< 0.5	< 2	1.35	18
1225017222	40.5	7.54	-33.0	45.9	0.164	8.97	152	3.8	1.0	58	585	2	16	3	416	2.11	22	< 10	65	< 0.5	5	0.62	10
1225017273	54.2	13.1	-41.0	59.1	0.222	8.85	173	3.4	1.9	163	430	1	11	2	508	2.06	24	< 10	38	< 0.5	7	1.07	9
1225008090	47.9	16.3	-31.6	53.0	0.308	8.89	282	0.5	0.8	89	436	5	23	3	273	1.17	12	< 10	49	< 0.5	3	0.87	10
1225008036	55.5	19.9	-35.6	65.2	0.306	8.72	167	0.7	0.7	177	382	7	25	2	221	1.47	13	< 10	33	< 0.5	4	1.12	11
1225008380	12.5	13.3	0.768	19.6	0.676	9.10	89	0.4	1.2	76	774	3	16	25	338	3.21	10	< 10	65	< 0.5	4	1.81	10
1225008274	57.5	20.6	-36.9	65.5	0.314	8.70	151	0.9	1.2	77	539	4	21	9	289	1.85	16	< 10	39	< 0.5	4	1.48	12
1225011063	52.0	7.97	-44.0	61.9	0.129	8.60	1150	2.0	< 0.5	438	401	5	19	3	98	1.79	12	< 10	24	< 0.5	5	0.76	11
1225008076	43.5	17.5	-26.0	51.8	0.339	8.84	94	0.6	0.6	119	387	5	20	3	204	1.37	13	< 10	58	< 0.5	< 2	0.99	9
1225017175	45.5	14.7	-30.8	52.1	0.282	8.80	166	3.2	< 0.5	26	549	3	18	6	182	1.94	21	< 10	40	< 0.5	6	0.88	10
1225008019	59.7	12.9	-46.8	68.0	0.189	8.70	61	0.5	< 0.5	83	366	6	23	3	111	2.12	7	< 10	39	< 0.5	5	1.20	11
1225017154	33.8	9.47	-24.4	37.7	0.251	8.73	161	0.7	0.5	318	381	2	12	12	53	3.06	12	15	39	< 0.5	3	0.96	12
1225008083	50.6	18.5	-32.1	55.7	0.332	8.88	38	0.5	0.8	106	309	5	20	3	190	1.15	11	< 10	46	< 0.5	6	0.91	10
1225017224	40.0	12.8	-27.2	47.8	0.268	8.87	232	5.1	1.2	33	578	3	15	3	344	2.25	32	< 10	49	< 0.5	6	1.07	9
1225008004	67.5	22.5	-45.0	80.5	0.279	8.63	401	1.8	6.4	455	589	4	32	7	1470	1.96	18	< 10	29	< 0.5	5	1.64	16
1225017053	25.3	13.2	-12.1	30.6	0.431	8.76	249	0.3	< 0.5	65	243	3	16	11	60	1.76	8	13	58	< 0.5	5	0.93	11
1225012414	87.2	7.85	-79.3	95.9	0.0819	8.44	132	0.5	< 0.5	77	446	5	18	3	110	1.91	11	< 10	22	< 0.5	7	0.82	11
1225017238	28.7	11.3	-17.4	33.1	0.343	8.91	120	0.3	< 0.5	29	384	3	20	< 2	114	1.96	12	< 10	37	< 0.5	3	0.81	9
1225008168	50.0	10.7	-39.3	56.7	0.189	8.72	67	0.3	0.9	84	538	4	30	3	260	2.60	3	< 10	24	< 0.5	< 2	1.60	13
1225012449	73.6	15.7	-57.9	79.6	0.197	8.53	85	0.5	1.1	70	477	2	16	6	432	2.73	14	15	46	< 0.5	5	1.64	11
1225017101	45.4	15.3	-30.1	51.1	0.299	8.62	633	0.7	< 0.5	357	239	2	13	5	26	2.13	12	14	48	< 0.5	4	0.97	12
1225012466	97.8	4.52	-93.3	105	0.0432	8.08	62	0.3	< 0.5	16	489	3	16	3	82	2.61	10	< 10	17	< 0.5	5	0.90	9
1225008112	4.38	8.99	4.61	4.29	2.10	9.11	6	0.2	< 0.5	125	478	< 1	52	< 2	56	5.68	< 2	< 10	17	< 0.5	2	3.94	23
1225017293	16.5	11.7	-4.71	19.3	0.609	8.88	99	0.3	< 0.5	112	411	2	16	< 2	41	3.71	5	12	38	< 0.5	5	1.49	9
V860699							120	1.7	< 0.5	59	358	5	14	11	64	1.63	< 2	< 10	82	< 0.5	< 2	1.18	15
1433001005	22.4	124	101	36.1	3.43	8.49	70	1.2	1.2	224	1410	< 1	104	7	312	4.96	17	< 10	25	< 0.5	4	4.56	42
1433001018	90.4	130	39.3	135	0.958	8.43	850	5.0	12.1	95	2250	< 1	17	6	2130	2.82	75	< 10	34	< 0.5	3	4.71	24
1225008359	46.7	8.41	-38.2	51.5	0.163	8.59	77	0.4	1.0	99	452	6	23	2	313	1.67	7	< 10	31	< 0.5	4	0.90	11
1225017013	43.4	20.9	-22.5	48.4	0.432	8.79	167	0.6	< 0.5	21	253	3	21	3	85	1.47	13	< 10	47	< 0.5	4	1.06	15
1225008204	36.3	28.9	-7.48	47.2	0.612	8.77	122	1.0	0.8	83	648	5	23	2	201	1.75	9	< 10	52	< 0.5	3	1.72	9
1225017056	29.5	15.2	-14.2	36.8	0.414	8.99	49	< 0.2	< 0.5	11	173	2	22	3	74	1.44	5	< 10	52	< 0.5	3	1.04	11
1225008214	53.9	17.3	-36.6	62.2	0.279	8.79	191	0.7	1.4	103	526	5	21	3	332	1.60	11	< 10	31	< 0.5	4	1.35	11
1225017134	36.2	20.5	-15.7	46.2	0.443	8.76	100	0.7	0.7	38	462	1	18	4	211	2.23	12	10	53	< 0.5	6	1.32	12
1225008246	41.2	22.8	-18.4	47.5	0.481	8.87	86	0.4	1.0	102	542	5	21	2	246	1.28	9	< 10	49	< 0.5	5	1.28	10
1225008370	44.7	16.6	-28.1	57.9	0.286	8.63	327	0.5	< 0.5	89	502	5	21	3	137	2.29	10	< 10	43	< 0.5	6	1.54	10
1225008286	52.5	17.5	-35.0	60.9	0.287	8.65	301	0.5	0.9	102	584	5	22	< 2	219	1.46	13	< 10	37	< 0.5	3	1.27	11
1225017065	29.7	17.0	-12.7	36.1	0.471	8.90	54	1.0	< 0.5	25	557	2	22	6	107	2.27	20	< 10	58	< 0.5	5	1.08	11
1225008230	47.6	13.1	-34.5	61.3	0.213	8.71	260	0.7	1.7	91	580	6	24	2	428	1.24	10	< 10	23	< 0.5	3	0.89	13
1225008305	43.1	7.17	-35.9	49.9	0.144	8.74	239	0.2	1.4	56	469	2	18	< 2	353	1.59	6	< 10	22	< 0.5	< 2	0.61	9
1225017187	39.4	7.10	-32.3	43.8	0.162	8.92	99	0.6	< 0.5	65	239	2	16	2	139	2.63	11	11	50	< 0.5	6	0.96	14
1225008117	7.08	9.33	2.25	11.6	0.802	9.00	84	0.3	0.5	129	562	2	51	< 2	102	5.49	< 2	< 10	22	< 0.5	3	3.73	22
1225008312	41.2	11.5	-29.7	49.3	0.234	8.82	203	0.5	0.5	104	465	5	22	2	218	1.34	9	< 10	60	< 0.5	3	0.97	11
1225008127	47.4	17.8	-29.6	57.6	0.309	8.77	70	0.6	1.2	132	445	5	20	2	309	1.40	11	< 10	48	< 0.5	3	1.24	11
1225011118	41.5	22.8	-18.7	59.4	0.384	8.83	166	0.5	< 0.5	125	434	6	22	2	54	1.23	9	< 10	52	< 0.5	3	1.08	10
1225017121	38.2	15.4	-22.8	46.9	0.328	8.86	84	1.1	0.7	33	565	2	20	6	224	2.06	20	< 10	55	< 0.5	6	1.08	10
1225008217	49.1	35.0	-14.1	59.1	0.593	8.77	162	0.7	1.0	92	563	5	18	3	239	1.87	11	< 10	47	< 0.5	6	2.06	10
1225008047	4.38	9.78	5.41	4.29	2.28	8.98	10	0.2	< 0.5	129	511	2	59	< 2	72	5.20	< 2	< 10	16	< 0.5	< 2	3.56	24
V860700							755	3.2	< 0.5	34	273	15	12	20	45	1.31	< 2	< 10	64	0.5	< 2	2.07	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225017047	42.5	9.69	-32.8	46.5	0.208	8.30	207	0.4	< 0.5	92	238	2	14	2	38	2.06	13	11	62	< 0.5	6	0.67	12

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225006257	140	2.82	< 10	< 1	0.23	12	0.71	0.032	0.042	2.56	8	< 1	33	< 0.01	< 1	< 2	< 10	6	< 10	2	14	0.56	2.44
1232013029	238	2.23	10	< 1	0.44	16	0.92	0.279	0.040	0.49	< 2	2	188	0.08	2	< 2	< 10	24	< 10	2	9	0.28	0.50
1225006267	107	1.15	< 10	< 1	0.06	< 10	0.41	0.044	0.028	0.31	< 2	1	33	< 0.01	< 1	< 2	< 10	12	< 10	< 1	7	0.14	0.32
1226009229	172	3.01	< 10	< 1	0.20	12	0.85	0.126	0.033	1.41	< 2	< 1	64	0.04	< 1	< 2	< 10	13	< 10	2	14	0.15	1.53
1225006212	167	1.73	< 10	< 1	0.21	< 10	0.59	0.033	0.039	1.63	3	< 1	46	< 0.01	< 1	< 2	< 10	4	< 10	1	10	1.05	1.66
1225006317	318	1.20	< 10	< 1	0.04	< 10	0.26	0.031	0.028	0.39	< 2	1	22	< 0.01	1	< 2	< 10	11	< 10	< 1	9	0.13	0.38
1225006154	307	1.48	< 10	< 1	0.10	< 10	0.18	0.022	0.042	0.96	2	< 1	13	< 0.01	2	< 2	< 10	8	< 10	< 1	13	0.14	0.98
1232013016	254	2.27	< 10	< 1	0.35	18	1.07	0.165	0.046	0.29	< 2	2	107	0.11	1	< 2	< 10	35	< 10	3	12	0.34	0.30
1225006059	192	2.19	< 10	< 1	0.25	< 10	0.48	0.033	0.037	2.21	7	< 1	36	< 0.01	< 1	< 2	< 10	4	< 10	2	9	1.09	2.07
1225006033	120	2.15	< 10	< 1	0.24	15	0.85	0.043	0.042	1.89	< 2	< 1	42	< 0.01	< 1	< 2	< 10	6	< 10	2	10	0.98	1.81
1225006070	200	2.19	< 10	< 1	0.18	< 10	0.82	0.046	0.041	1.80	8	< 1	45	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.72	1.74
1225006013	140	2.21	< 10	< 1	0.17	13	0.83	0.044	0.038	1.88	3	< 1	46	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.59	1.82
1225006272	155	1.67	< 10	< 1	0.20	15	0.17	0.045	0.040	1.67	< 2	< 1	37	< 0.01	< 1	< 2	< 10	5	< 10	1	10	0.15	1.64
1225006050	174	2.75	< 10	< 1	0.30	< 10	0.52	0.034	0.040	3.04	29	< 1	28	< 0.01	1	< 2	< 10	5	< 10	2	14	0.75	2.92
1225006007	200	3.02	< 10	3	0.29	< 10	0.54	0.035	0.038	3.48	47	< 1	28	< 0.01	1	4	< 10	5	< 10	2	12	0.76	3.27
1233005004	237	2.82	< 10	< 1	0.28	26	1.18	0.165	0.060	0.41	< 2	3	125	0.14	2	< 2	< 10	41	< 10	3	21	0.43	0.43
V860694	13	3.21	< 10	< 1	0.24	10	0.54	0.263	0.057	0.06	< 2	4	39	0.47	5	< 2	< 10	101	< 10	15	18		
1226009076	165	2.62	< 10	< 1	0.21	11	0.69	0.078	0.036	1.46	2	1	49	0.02	< 1	< 2	< 10	13	< 10	2	11	0.24	1.41
1225006234	232	0.85	< 10	< 1	0.06	< 10	0.14	0.023	0.037	0.42	< 2	< 1	12	< 0.01	< 1	< 2	< 10	6	< 10	< 1	11	0.11	0.43
1226027049	265	2.52	< 10	< 1	0.21	16	0.80	0.179	0.047	1.99	< 2	1	106	0.02	2	< 2	< 10	18	< 10	3	20	0.31	1.93
1225006390	156	2.77	< 10	< 1	0.27	15	1.12	0.029	0.041	2.13	2	< 1	26	0.04	< 1	< 2	< 10	9	< 10	2	15	0.28	2.06
1226027040	233	2.32	< 10	< 1	0.54	16	1.01	0.294	0.044	1.11	< 2	1	134	0.06	2	< 2	< 10	22	< 10	3	18	0.35	1.07
1226009109	194	2.05	< 10	< 1	0.26	13	0.91	0.115	0.037	1.21	< 2	1	63	< 0.01	1	< 2	< 10	12	< 10	2	14	0.41	1.18
1225006377	139	2.09	< 10	< 1	0.30	13	0.15	0.034	0.043	2.55	< 2	< 1	25	< 0.01	< 1	< 2	< 10	5	< 10	1	14	0.42	2.39
1226009238	324	2.45	< 10	< 1	0.31	13	0.69	0.196	0.035	1.41	< 2	1	98	0.07	< 1	< 2	< 10	19	< 10	2	20	0.32	1.39
1225006225	211	1.26	< 10	< 1	0.10	< 10	0.39	0.037	0.040	0.56	< 2	< 1	36	< 0.01	< 1	< 2	< 10	9	< 10	< 1	8	0.30	0.58
1225006452	162	3.51	< 10	< 1	0.23	< 10	0.45	0.021	0.037	3.94	3	< 1	17	< 0.01	< 1	< 2	< 10	4	< 10	1	13	0.52	3.87
1226027059	236	2.35	< 10	< 1	0.19	16	0.61	0.149	0.045	1.97	< 2	< 1	95	< 0.01	2	< 2	< 10	10	< 10	2	22	0.48	1.96
1226009111	234	2.54	< 10	< 1	0.22	14	0.84	0.076	0.038	1.34	< 2	1	43	< 0.01	1	< 2	< 10	14	< 10	2	14	0.37	1.38
1225006368	220	1.18	< 10	< 1	0.05	< 10	0.30	0.034	0.029	0.40	< 2	1	23	< 0.01	3	< 2	< 10	11	26	< 1	9	0.14	0.42
1225006293	160	2.56	< 10	< 1	0.26	13	0.92	0.089	0.038	2.09	2	< 1	50	0.05	< 1	< 2	< 10	9	< 10	2	20	0.35	2.11
1226009151	218	2.28	< 10	< 1	0.24	13	0.94	0.079	0.038	1.28	< 2	1	34	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.44	1.30
1225006182	170	2.69	< 10	< 1	0.24	< 10	0.63	0.062	0.039	2.55	4	< 1	50	< 0.01	3	< 2	< 10	9	77	1	13	0.45	2.60
1232013007	231	1.79	< 10	< 1	0.29	17	0.56	0.141	0.042	0.82	< 2	1	63	0.04	2	< 2	< 10	15	< 10	2	11	0.31	0.88
1226027162	160	2.31	< 10	< 1	0.13	13	0.83	0.077	0.038	1.82	< 2	1	37	0.01	1	< 2	< 10	11	< 10	2	17	0.17	1.83
1225006174	117	2.47	< 10	< 1	0.19	11	0.25	0.025	0.043	2.75	4	< 1	15	< 0.01	2	< 2	< 10	4	< 10	1	12	0.29	2.61
V860695	11	3.04	< 10	< 1	0.26	16	0.43	0.177	0.046	0.04	< 2	3	50	0.30	3	< 2	< 10	61	< 10	16	24		
1225009011	139	2.10	< 10	< 1	0.29	18	0.87	0.056	0.042	1.18	< 2	1	56	0.03	< 1	< 2	< 10	12	< 10	2	17	0.25	1.20
1225004317	265	3.35	< 10	< 1	0.19	16	0.96	0.118	0.041	2.60	< 2	1	63	< 0.01	< 1	< 2	< 10	15	< 10	3	21	0.23	2.45
1233004049	287	2.49	< 10	< 1	0.30	22	1.03	0.099	0.051	0.07	< 2	2	126	0.12	3	< 2	< 10	34	< 10	4	21	0.39	0.06
1225004300	195	3.18	< 10	< 1	0.21	15	1.00	0.148	0.041	2.88	3	< 1	105	< 0.01	< 1	< 2	< 10	10	< 10	3	20	0.16	2.84
1225004211	133	2.55	< 10	< 1	0.13	14	0.96	0.192	0.039	2.29	< 2	< 1	149	< 0.01	< 1	< 2	< 10	9	< 10	2	17	0.16	2.25
1225004310	266	2.69	< 10	< 1	0.19	17	1.09	0.206	0.044	2.50	< 2	< 1	112	< 0.01	1	< 2	< 10	11	< 10	2	21	0.29	2.53
1225004174	341	2.59	< 10	< 1	0.18	14	0.79	0.176	0.037	1.74	< 2	1	63	< 0.01	3	< 2	< 10	16	< 10	3	15	0.31	1.78
1225005175	211	2.22	< 10	< 1	0.23	13	0.97	0.070	0.043	1.74	< 2	< 1	51	< 0.01	< 1	< 2	< 10	8	< 10	2	11	0.74	1.61
1225004331	168	2.29	< 10	< 1	0.18	17	1.03	0.205	0.045	2.19	< 2	< 1	115	< 0.01	< 1	< 2	< 10	10	< 10	2	20	0.23	2.22
1225004157	212	1.81	< 10	< 1	0.24	16	0.40	0.092	0.044	1.27	< 2	< 1	85	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.27	1.33
1225004330	210	2.50	< 10	< 1	0.20	19	1.03	0.201	0.046	2.49	< 2	< 1	97	< 0.01	2	< 2	< 10	10	< 10	3	23	0.37	2.55
1225009001	195	1.96	< 10	< 1	0.29	11	0.78	0.104	0.040	0.25	3	1	65	0.04	1	< 2	< 10	13	< 10	1	13	0.26	0.25
1225004243	161	2.57	< 10	< 1	0.16	14	1.00	0.193	0.037	2.34	< 2	< 1	151	< 0.01	< 1	< 2	< 10	10	< 10	2	18	0.27	2.36
1225005225	164	2.13	< 10	< 1	0.20	< 10	1.23	0.057	0.040	1.90	< 2	< 1	35	< 0.01	1	< 2	< 10	7	< 10	1	9	0.79	1.99

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225005031	171	2.11	< 10	< 1	0.22	16	1.29	0.097	0.041	1.03	< 2	< 1	41	< 0.01	2	< 2	< 10	11	< 10	2	17	0.77	1.08
1225004178	365	2.79	< 10	< 1	0.14	14	0.76	0.089	0.039	2.14	< 2	1	40	0.03	2	< 2	< 10	18	< 10	3	18	0.26	2.08
1225005121	184	2.12	< 10	< 1	0.23	14	1.20	0.072	0.040	1.70	< 2	< 1	49	< 0.01	2	< 2	< 10	8	< 10	2	12	0.83	1.68
1225004193	191	3.49	< 10	1	0.25	14	0.88	0.234	0.040	2.35	< 2	1	140	< 0.01	3	< 2	< 10	13	< 10	3	15	0.23	2.32
1225004082	213	2.65	< 10	< 1	0.13	14	0.82	0.091	0.039	1.91	< 2	1	44	0.02	1	< 2	< 10	16	< 10	2	14	0.23	1.84
1225005220	226	2.18	< 10	< 1	0.25	18	1.30	0.090	0.041	1.51	2	< 1	42	< 0.01	1	< 2	< 10	11	< 10	2	17	0.62	1.49
1225004105	311	2.07	< 10	< 1	0.21	15	0.82	0.118	0.042	0.76	< 2	1	88	0.01	2	< 2	< 10	13	< 10	2	12	0.34	0.80
1225004095	250	2.83	< 10	< 1	0.22	14	0.77	0.280	0.038	1.75	< 2	1	141	0.03	< 1	< 2	< 10	15	< 10	3	16	0.20	1.81
V860696	11	3.89	< 10	< 1	0.33	11	0.68	0.193	0.069	0.07	< 2	5	34	0.45	5	2	< 10	123	< 10	15	22		
1225012354	491	2.64	< 10	< 1	0.17	17	1.20	0.193	0.042	2.10	2	1	96	< 0.01	< 1	< 2	< 10	16	< 10	3	20	0.50	2.03
1225017207	397	2.57	< 10	< 1	0.26	18	0.85	0.199	0.037	1.27	< 2	1	102	< 0.01	< 1	< 2	< 10	17	< 10	2	11	0.29	1.35
1225012303	351	2.86	< 10	< 1	0.30	20	1.53	0.139	0.046	1.93	2	2	71	0.01	3	< 2	< 10	18	< 10	3	20	0.32	1.93
1225012393	178	2.29	< 10	< 1	0.32	15	1.17	0.113	0.038	1.98	< 2	< 1	93	0.02	1	< 2	< 10	10	< 10	2	15	0.17	2.01
1225012397	213	2.79	< 10	< 1	0.27	16	1.17	0.240	0.042	2.62	2	< 1	156	0.01	< 1	< 2	< 10	11	< 10	2	19	0.17	2.56
1225012256	253	2.91	< 10	< 1	0.25	17	1.32	0.181	0.040	1.94	2	1	84	0.01	2	< 2	< 10	16	< 10	2	22	0.29	1.98
1225012331	294	4.38	< 10	1	0.33	12	0.92	0.047	0.036	4.39	2	< 1	29	< 0.01	4	< 2	< 10	10	< 10	2	25	0.14	4.22
1225012162	340	3.10	< 10	< 1	0.37	14	1.12	0.130	0.037	1.76	2	1	59	0.01	1	< 2	< 10	16	< 10	2	17	0.24	1.78
1225012116	367	2.51	< 10	< 1	0.30	14	1.20	0.146	0.039	0.95	< 2	1	106	0.01	< 1	< 2	< 10	18	< 10	2	12	0.43	1.00
1225012273	182	2.84	< 10	< 1	0.39	14	0.80	0.049	0.037	2.89	< 2	< 1	24	0.02	1	< 2	< 10	9	< 10	2	23	0.24	2.90
1225012248	249	2.41	< 10	< 1	0.27	18	1.09	0.237	0.047	1.80	< 2	< 1	87	< 0.01	4	< 2	< 10	11	< 10	2	18	0.24	1.82
1225012111	232	2.34	< 10	< 1	0.31	14	1.28	0.203	0.036	0.49	2	2	106	0.05	< 1	< 2	< 10	20	< 10	2	13	0.25	0.52
1225012221	295	2.98	< 10	< 1	0.33	13	1.03	0.083	0.037	2.27	< 2	< 1	50	0.03	< 1	< 2	< 10	11	< 10	2	15	0.24	2.27
1225012231	184	3.42	< 10	< 1	0.31	16	1.15	0.053	0.038	2.26	2	< 1	25	< 0.01	< 1	< 2	< 10	11	< 10	2	16	0.18	2.23
1225012285	170	3.20	< 10	< 1	0.33	16	1.09	0.089	0.039	2.64	< 2	< 1	56	< 0.01	< 1	< 2	< 10	10	< 10	2	17	0.13	2.59
1232014005	415	2.40	< 10	< 1	0.34	17	0.95	0.098	0.046	0.25	< 2	3	64	0.11	< 1	< 2	< 10	36	< 10	3	16	0.35	0.24
1232014110	457	2.51	< 10	< 1	0.54	19	0.95	0.121	0.046	0.37	< 2	2	69	0.12	3	< 2	< 10	36	< 10	4	19	0.40	0.39
V860697	12	3.14	< 10	< 1	0.25	17	0.44	0.187	0.047	0.04	< 2	3	52	0.30	4	< 2	< 10	64	< 10	19	14		
1433001142	238	7.99	10	2	0.43	< 10	2.92	0.381	0.035	2.08	3	8	106	0.13	< 1	< 2	< 10	151	< 10	6	7	2.29	3.08
1434002011	153	10.5	20	2	0.09	< 10	2.52	0.230	0.036	0.33	4	20	88	0.13	< 1	< 2	< 10	442	< 10	9	4	2.48	0.36
1434002119	164	2.94	< 10	< 1	0.27	13	1.19	0.138	0.043	0.47	< 2	4	50	0.09	2	< 2	< 10	61	< 10	5	13	0.56	0.47
1433001136	275	6.31	10	2	0.11	< 10	2.16	0.235	0.041	0.48	3	5	84	0.03	2	< 2	< 10	131	< 10	7	7	1.19	0.52
1225014187	181	2.09	< 10	< 1	0.18	15	0.94	0.086	0.041	0.55	2	1	133	0.01	< 1	< 2	< 10	13	< 10	2	7	0.18	0.55
1433001133	474	4.06	< 10	< 1	0.10	10	1.05	0.069	0.037	1.14	2	5	49	0.07	2	< 2	< 10	96	< 10	6	8	0.44	1.18
1433001091	176	10.3	20	3	0.54	< 10	3.12	0.269	0.042	1.82	6	23	88	0.19	< 1	< 2	< 10	481	< 10	9	5	2.16	2.03
1433001076	162	7.30	< 10	3	0.28	< 10	2.16	0.171	0.046	3.22	3	8	64	0.10	< 1	< 2	< 10	145	< 10	7	12	1.58	3.50
1225014265	211	5.55	10	3	0.04	< 10	2.66	0.557	0.020	0.08	< 2	11	81	0.23	< 1	< 2	< 10	166	< 10	5	4	0.17	0.08
1433001123	235	9.55	20	2	0.25	< 10	2.76	0.381	0.042	0.77	4	13	107	0.14	< 1	< 2	< 10	243	< 10	8	5	1.85	0.91
1433001105	173	8.98	20	2	0.56	< 10	2.97	0.415	0.039	0.55	5	12	105	0.13	< 1	< 2	< 10	177	< 10	8	4	1.80	0.60
1433001152	132	10.7	20	3	0.26	< 10	3.37	0.120	0.059	0.60	5	17	71	0.13	< 1	< 2	< 10	223	< 10	13	6	1.74	0.59
1225014058	217	3.40	< 10	< 1	0.23	13	1.08	0.058	0.039	2.74	< 2	< 1	66	< 0.01	< 1	< 2	< 10	10	< 10	2	21	0.22	2.64
1225014014	290	3.66	< 10	< 1	0.19	17	1.05	0.040	0.039	3.22	< 2	< 1	38	< 0.01	2	< 2	< 10	9	< 10	3	18	0.14	3.15
1433001034	143	11.6	20	3	0.41	< 10	3.15	0.153	0.043	1.94	6	24	98	0.21	1	< 2	< 10	490	< 10	10	6	2.78	2.23
1225014011	325	2.91	< 10	< 1	0.25	13	1.07	0.096	0.039	1.85	< 2	< 1	69	0.01	1	< 2	< 10	11	< 10	2	21	0.23	1.80
1433001042	227	8.04	10	3	0.26	< 10	2.74	0.212	0.052	0.33	2	14	109	0.14	2	< 2	< 10	233	< 10	9	7	1.89	0.37
1225014044	333	4.42	< 10	< 1	0.23	17	1.45	0.045	0.043	3.88	2	< 1	39	< 0.01	2	< 2	< 10	12	< 10	3	18	0.29	3.79
1225008353	451	3.58	< 10	< 1	0.13	20	1.00	0.164	0.047	2.02	2	2	57	0.01	3	< 2	< 10	24	< 10	4	19	0.28	2.02
1225014252	212	5.56	10	3	0.05	< 10	2.35	0.706	0.020	0.07	2	9	86	0.19	< 1	< 2	< 10	159	< 10	5	3	0.18	0.07
1225007321	348	2.41	< 10	< 1	0.23	17	0.78	0.133	0.047	0.96	< 2	1	101	0.02	2	< 2	< 10	14	< 10	3	5	0.33	0.99
V860698	12	4.00	< 10	< 1	0.31	12	0.69	0.209	0.069	0.07	2	6	36	0.44	5	< 2	< 10	129	< 10	18	15		
1225017222	234	2.60	< 10	< 1	0.30	14	1.21	0.105	0.036	1.49	< 2	< 1	50	< 0.01	4	< 2	< 10	13	< 10	2	19	0.16	1.50
1225017273	169	2.47	< 10	< 1	0.36	13	1.08	0.100	0.038	1.92	2	< 1	45	0.02	4	< 2	< 10	11	< 10	2	21	0.23	1.93

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225008090	441	2.68	< 10	< 1	0.33	14	0.80	0.081	0.038	1.72	2	2	26	0.03	3	< 2	< 10	24	< 10	3	19	0.31	1.73
1225008036	520	2.95	< 10	< 1	0.24	14	0.92	0.099	0.040	2.17	2	1	45	0.01	3	< 2	< 10	19	< 10	3	20	0.54	2.13
1225008380	205	2.47	< 10	< 1	0.25	17	1.04	0.175	0.044	0.65	< 2	1	82	0.03	2	< 2	< 10	15	< 10	3	10	0.26	0.64
1225008274	341	2.71	< 10	< 1	0.25	14	0.66	0.183	0.041	2.16	< 2	1	82	0.02	< 1	< 2	< 10	14	< 10	3	18	0.42	2.14
1225011063	368	2.95	< 10	< 1	0.18	15	0.80	0.146	0.040	2.06	3	1	69	0.01	< 1	< 2	< 10	17	< 10	3	18	0.18	2.02
1225008076	380	2.47	< 10	< 1	0.26	15	0.84	0.089	0.041	1.69	< 2	1	41	0.01	2	< 2	< 10	18	< 10	3	20	0.33	1.69
1225017175	289	2.65	< 10	< 1	0.31	14	1.27	0.102	0.040	1.71	< 2	1	42	0.01	5	< 2	< 10	15	< 10	3	20	0.28	1.70
1225008019	452	2.78	< 10	< 1	0.22	14	1.03	0.240	0.040	2.20	< 2	1	104	0.03	3	< 2	< 10	17	< 10	3	20	0.32	2.22
1225017154	178	3.40	10	< 1	0.27	14	1.18	0.102	0.035	1.27	< 2	1	68	0.01	2	< 2	< 10	19	< 10	2	15	0.16	1.23
1225008083	397	2.62	< 10	< 1	0.22	14	0.76	0.071	0.040	1.91	2	1	27	< 0.01	3	< 2	< 10	16	< 10	3	20	0.35	1.82
1225017224	242	2.33	< 10	< 1	0.29	13	1.15	0.170	0.038	1.56	< 2	< 1	65	0.02	3	< 2	< 10	14	< 10	2	18	0.21	1.56
1225008004	379	3.40	< 10	< 1	0.27	22	1.12	0.107	0.054	2.80	2	3	44	0.05	< 1	3	< 10	30	< 10	4	22	0.46	2.63
1225017053	309	2.22	< 10	< 1	0.29	13	0.88	0.067	0.035	1.02	< 2	< 1	32	0.02	< 1	< 2	< 10	14	< 10	2	10	0.23	1.00
1225012414	316	3.19	< 10	< 1	0.24	16	0.96	0.153	0.042	3.19	< 2	1	59	< 0.01	2	< 2	< 10	13	< 10	3	25	0.22	3.13
1225017238	347	2.52	< 10	< 1	0.21	16	0.74	0.107	0.042	1.10	< 2	1	69	< 0.01	3	3	< 10	17	< 10	3	13	0.19	1.08
1225008168	349	3.02	10	< 1	0.31	19	1.28	0.149	0.048	1.88	< 2	4	58	0.09	< 1	< 2	< 10	40	< 10	4	19	0.18	1.85
1225012449	219	2.99	< 10	< 1	0.31	16	1.15	0.130	0.040	2.65	< 2	< 1	118	0.03	3	< 2	< 10	12	< 10	3	20	0.24	2.60
1225017101	221	2.68	< 10	< 1	0.36	16	0.77	0.065	0.040	1.72	< 2	< 1	42	< 0.01	2	< 2	< 10	12	< 10	2	8	0.23	1.67
1225012466	204	3.49	< 10	< 1	0.28	17	1.09	0.187	0.043	3.57	3	1	69	< 0.01	2	< 2	< 10	12	< 10	3	23	0.12	3.42
1225008112	198	4.67	10	< 1	0.05	< 10	1.71	0.595	0.020	0.13	< 2	5	72	0.21	2	< 2	< 10	140	< 10	4	3	0.14	0.14
1225017293	222	2.70	10	< 1	0.19	15	1.16	0.169	0.039	0.62	< 2	1	137	0.01	< 1	< 2	< 10	20	< 10	2	10	0.22	0.63
V860699	13	3.27	< 10	< 1	0.23	11	0.55	0.280	0.059	0.06	< 2	4	42	0.45	6	< 2	< 10	104	< 10	18	14		
1433001005	231	10.5	10	2	0.27	< 10	2.73	0.205	0.044	1.05	7	18	69	0.13	< 1	< 2	< 10	315	12	11	5	2.12	1.18
1433001018	203	10.4	10	< 1	0.36	< 10	2.82	0.128	0.066	3.36	6	13	44	0.18	< 1	< 2	< 10	149	< 10	11	8	3.08	4.42
1225008359	456	2.67	< 10	< 1	0.16	14	0.81	0.159	0.040	1.78	< 2	1	64	0.02	1	< 2	< 10	18	< 10	3	17	0.17	1.68
1225017013	340	2.51	< 10	< 1	0.28	15	0.79	0.083	0.038	1.59	< 2	1	43	< 0.01	2	< 2	< 10	15	< 10	2	19	0.36	1.58
1225008204	498	2.60	< 10	< 1	0.21	14	0.78	0.160	0.038	1.54	2	1	111	0.02	2	< 2	< 10	18	< 10	3	16	0.54	1.54
1225017056	419	1.88	< 10	< 1	0.23	13	0.58	0.131	0.038	1.22	< 2	1	75	0.01	2	< 2	< 10	14	< 10	2	15	0.27	1.20
1225008214	415	2.73	< 10	< 1	0.25	15	0.77	0.123	0.041	2.10	2	1	56	0.06	2	< 2	< 10	19	< 10	3	18	0.32	2.03
1225017134	210	2.72	< 10	< 1	0.31	27	1.40	0.087	0.061	1.57	< 2	1	41	0.01	2	< 2	< 10	20	< 10	3	8	0.35	1.51
1225008246	429	2.59	< 10	< 1	0.23	14	0.75	0.069	0.038	1.60	< 2	1	28	0.03	2	< 2	< 10	19	< 10	3	18	0.34	1.55
1225008370	372	2.86	< 10	< 1	0.22	14	0.80	0.256	0.040	2.00	< 2	1	158	0.04	2	< 2	< 10	18	< 10	3	16	0.31	1.89
1225008286	456	2.76	< 10	< 1	0.34	14	0.77	0.098	0.039	2.09	< 2	1	37	0.06	2	< 2	< 10	20	< 10	3	19	0.42	1.99
1225017065	266	2.60	< 10	< 1	0.28	27	1.38	0.123	0.064	1.22	< 2	1	50	< 0.01	< 1	< 2	< 10	22	< 10	4	5	0.27	1.18
1225008230	504	2.79	< 10	< 1	0.32	14	0.77	0.076	0.040	2.07	2	2	25	0.07	2	< 2	< 10	23	< 10	3	19	0.26	2.00
1225008305	314	2.41	< 10	< 1	0.24	14	0.64	0.121	0.041	1.64	< 2	1	46	< 0.01	< 1	< 2	< 10	14	< 10	3	19	0.19	1.63
1225017187	226	2.15	< 10	< 1	0.30	13	0.87	0.161	0.040	1.47	< 2	< 1	84	< 0.01	2	< 2	< 10	13	< 10	1	17	0.11	1.43
1225008117	291	4.68	10	2	0.07	< 10	1.63	0.583	0.022	0.36	< 2	5	73	0.20	3	< 2	< 10	131	< 10	4	4	0.27	0.38
1225008312	465	2.47	< 10	< 1	0.24	15	0.75	0.088	0.038	1.63	< 2	2	35	0.05	3	< 2	< 10	23	13	3	17	0.27	1.61
1225008127	395	2.52	< 10	< 1	0.27	15	0.76	0.079	0.038	1.94	< 2	1	31	0.05	< 1	< 2	< 10	18	< 10	3	18	0.36	1.88
1225011118	447	2.80	< 10	< 1	0.14	13	0.72	0.102	0.038	1.96	< 2	1	36	< 0.01	3	< 2	< 10	17	< 10	3	17	0.38	1.94
1225017121	255	2.53	< 10	< 1	0.26	16	1.20	0.130	0.043	1.49	< 2	1	49	< 0.01	3	< 2	< 10	16	< 10	3	17	0.26	1.53
1225008217	344	2.58	< 10	< 1	0.23	14	0.69	0.193	0.040	1.97	< 2	1	82	0.02	2	< 2	< 10	14	< 10	3	16	0.51	1.93
1225008047	283	4.91	< 10	2	0.04	< 10	1.94	0.466	0.019	0.13	< 2	5	78	0.22	< 1	< 2	< 10	138	< 10	4	4	0.25	0.14
V860700	12	3.19	< 10	< 1	0.26	17	0.45	0.196	0.046	0.04	< 2	3	54	0.31	5	< 2	< 10	65	< 10	19	12		
1225017047	232	2.69	< 10	< 1	0.38	11	0.87	0.063	0.036	1.54	2	< 1	37	< 0.01	< 1	< 2	< 10	12	< 10	< 1	6	0.15	1.52

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1225006257	5.15
1232013029	
1225006267	
1226009229	
1225006212	
1225006317	
1225006154	
1232013016	
1225006059	
1225006033	
1225006070	
1225006013	
1225006272	
1225006050	
1225006007	
1233005004	
V860694	
1226009076	
1225006234	
1226027049	
1225006390	
1226027040	
1226009109	
1225006377	
1226009238	
1225006225	
1225006452	
1226027059	
1226009111	
1225006368	
1225006293	
1226009151	
1225006182	
1232013007	
1226027162	
1225006174	
V860695	
1225009011	
1225004317	
1233004049	
1225004300	
1225004211	
1225004310	
1225004174	
1225005175	
1225004331	
1225004157	
1225004330	
1225009001	
1225004243	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1225005225	
1225005031	
1225004178	
1225005121	
1225004193	
1225004082	
1225005220	
1225004105	
1225004095	
V860696	
1225012354	
1225017207	
1225012303	
1225012393	
1225012397	
1225012256	
1225012331	
1225012162	
1225012116	
1225012273	
1225012248	
1225012111	
1225012221	
1225012231	
1225012285	
1232014005	
1232014110	
V860697	
1433001142	
1434002011	
1434002119	
1433001136	
1225014187	
1433001133	
1433001091	
1433001076	
1225014265	
1433001123	
1433001105	
1433001152	
1225014058	
1225014014	
1433001034	
1225014011	
1433001042	
1225014044	
1225008353	
1225014252	
1225007321	
V860698	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1225017222	
1225017273	
1225008090	
1225008036	
1225008380	
1225008274	
1225011063	
1225008076	
1225017175	
1225008019	
1225017154	
1225008083	
1225017224	
1225008004	
1225017053	
1225012414	
1225017238	
1225008168	
1225012449	
1225017101	
1225012466	
1225008112	
1225017293	
V860699	
1433001005	
1433001018	
1225008359	
1225017013	
1225008204	
1225017056	
1225008214	
1225017134	
1225008246	
1225008370	
1225008286	
1225017065	
1225008230	
1225008305	
1225017187	
1225008117	
1225008312	
1225008127	
1225011118	
1225017121	
1225008217	
1225008047	
V860700	
1225017047	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	74	1070	1	25	95	122	7.32	246	< 10	742	0.9	4	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1010	2	23	95	123	6.82	244	< 10	665	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1040	2	23	96	125	7.04	246	< 10	697	0.9	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Meas																							
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SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		43.1				8.55																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2260	783	< 1	35	59	252	2.94	8		80	0.8	10	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2200	744	< 1	32	58	257	2.79	8		78	0.8	9	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	753	< 1	33	62	255	2.87	7		83	0.8	13	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4260	852	< 1	31	76	322	2.81	7		63	0.7	19	0.40	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4380	841	< 1	29	81	331	2.82	7		61	0.7	19	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4520	859	< 1	34	84	326	2.92	6		68	0.7	23	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.9	282	3500	527	13	25	> 5000	> 10000	1.76	82			0.6	7	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	280	3560	519	13	23	> 5000	> 10000	1.70	78			0.6	7	1.65	29
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								68.2	281	3570	525	13	24	> 5000	> 10000	1.70	77			0.6	6	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										363	167	< 1	219	9	27	7.26			132	1.0	2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										374	172	1	232	10	27	7.37			138	1.0	5	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2990																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							491																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1225006257 Orig																							
1225006059 Orig							294	1.7	3.9	40	881	1	12	37	864	0.61	170	< 10	25	< 0.5	3	2.74	9
1225006059 Dup							317	1.3	4.2	41	882	1	12	36	882	0.62	167	< 10	25	< 0.5	3	2.72	8
1225006033 Orig																							
1225006033 Dup																							
1225006234 Orig							440																
1225006234 Dup							464																
1225006390 Orig																							
1225006390 Dup																							
1226009109 Orig							134																
1226009109 Dup							130																
1226009151 Orig								1.5	< 0.5	34	462	2	15	4	114	1.51	21	< 10	45	< 0.5	4	1.36	9
1226009151 Dup								1.4	< 0.5	35	456	2	15	6	113	1.50	24	< 10	46	< 0.5	5	1.36	9
1225004310 Orig																							
1225004310 Dup																							
1225004174 Orig							267																
1225004174 Dup							242																
1225004331 Orig								1.5	0.7	43	447	2	12	9	190	2.52	13	< 10	43	< 0.5	6	1.30	9
1225004331 Dup								1.0	0.9	46	452	2	12	5	193	2.55	13	< 10	43	< 0.5	7	1.32	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225004330 Orig	67.9	22.9	-45.0	78.1	0.294																		
1225004330 Dup	67.9	22.9	-45.0	78.1	0.294																		
1225005121 Orig							171																
1225005121 Dup							188																
1225004105 Orig							74																
1225004105 Dup							71																
1225004095 Orig								1.7	< 0.5	361	512	4	15	4	65	2.74	11	< 10	59	< 0.5	4	1.47	10
1225004095 Dup								1.5	< 0.5	344	498	4	15	4	63	2.61	8	< 10	58	< 0.5	3	1.42	10
1225012397 Orig																							
1225012397 Dup																							
1225012221 Orig						8.49		1.0	< 0.5	273	377	4	16	5	42	2.12	12	< 10	49	< 0.5	8	1.06	9
1225012221 Dup						8.45		1.0	< 0.5	265	372	3	15	6	41	2.08	10	< 10	49	< 0.5	8	1.04	9
1232014005 Orig																							
1232014005 Dup																							
1433001142 Orig							264																
1433001142 Dup							289																
1225014265 Orig																							
1225014265 Dup																							
1433001105 Orig							11	0.5	0.5	48	1320	< 1	150	< 2	180	5.96	10	< 10	73	< 0.5	4	5.01	37
1433001105 Dup							11	0.5	0.5	49	1330	< 1	152	< 2	178	6.04	6	< 10	74	< 0.5	3	5.06	36
1433001034 Orig							252																
1433001034 Dup							250																
1225014044 Orig	109	11.0	-98.3	116	0.0946																		
1225014044 Dup	109	11.0	-98.3	116	0.0946																		
1225014252 Orig																							
1225014252 Dup																							
1225008090 Orig								0.5	0.9	90	435	5	23	3	275	1.17	13	< 10	51	< 0.5	2	0.86	11
1225008090 Dup								0.5	0.6	89	437	5	23	3	271	1.17	10	< 10	46	< 0.5	4	0.87	10
1225017175 Orig																							
1225017175 Dup																							
1225008004 Orig							437																
1225008004 Dup							364																
1225012414 Orig								0.5	< 0.5	77	446	5	18	3	109	1.91	10	< 10	22	< 0.5	9	0.82	10
1225012414 Dup								0.5	< 0.5	77	446	5	18	3	110	1.92	12	< 10	23	< 0.5	5	0.82	11
1225017101 Orig																							
1225017101 Dup																							
1433001005 Orig							63																
1433001005 Dup							76																
1225017013 Orig							168																
1225017013 Dup							166																
1225017056 Orig								< 0.2	< 0.5	12	174	2	22	3	74	1.43	5	< 10	51	< 0.5	3	1.04	11
1225017056 Dup								< 0.2	< 0.5	11	172	2	22	3	75	1.45	5	< 10	53	< 0.5	3	1.04	10
1225008214 Orig																							
1225008214 Dup																							
1225008127 Orig																							
1225008127 Dup																							
1225017121 Orig	38.2	15.4	-22.8	46.9	0.329																		
1225017121 Dup	38.2	15.3	-22.9	46.9	0.327																		
1225008047 Orig						8.99	8																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225008047 Dup						8.97	11																
1225017047 Orig	42.5	9.70	-32.8	46.5	0.208																		
1225017047 Dup	42.5	9.68	-32.8	46.5	0.208																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	79	6.15	20	2	1.20	< 10	0.41	0.126	0.034	0.01	4	18	31		< 1	< 2	< 10	185	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.45	20	1	1.18	< 10	0.38	0.121	0.032	0.01	3	18	30		< 1	< 2	< 10	172	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	78	5.79	20	2	1.22	< 10	0.39	0.123	0.033	0.01	4	19	31		< 1	< 2	< 10	176	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
SGR-1b Meas																						27.5	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.57
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.13	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.32	< 10		0.50	39	1.36	0.035	0.061	0.37	2	4	18			< 2	< 10	39	< 10	22	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	4.88	< 10		0.51	38	1.28	0.033	0.060	0.35	2	4	17			< 2	< 10	37	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.52	39	1.32	0.035	0.062	0.36	3	4	18			< 2	< 10	38	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	35	1.39		0.056	0.64	3	4	15			< 2	< 10	36	< 10	19	27		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.72	< 10		0.43	35	1.37		0.057	0.65	< 2	4	15			< 2	< 10	36	< 10	17	33		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.12	< 10		0.45	36	1.41		0.059	0.67	2	4	16			< 2	< 10	37	< 10	18	35		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	29	3.36	10	4	0.39	20	0.43	0.173	0.033	4.55	124	2	20			< 2	< 10	14	< 10	8	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.27	10	4	0.38	20	0.43	0.167	0.032	4.62	119	2	19			< 2	< 10	13	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.30	10	4	0.39	20	0.43	0.169	0.032	4.59	119	2	19			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	338	14.2	20	< 1	0.12	10	0.18	0.051	0.021	0.02		26	15	0.13		< 2	< 10	212		4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	342	14.8	20	< 1	0.12	11	0.18	0.053	0.021	0.02		27	16	0.13		< 2	< 10	216		4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225006257 Orig																							
1225006059 Orig	191	2.20	< 10	< 1	0.24	< 10	0.48	0.033	0.038	2.20	7	< 1	36	< 0.01	< 1	< 2	< 10	4	< 10	2	9		
1225006059 Dup	192	2.18	< 10	< 1	0.25	< 10	0.47	0.034	0.037	2.22	7	< 1	37	< 0.01	< 1	< 2	< 10	4	< 10	2	9		
1225006033 Orig																						0.99	1.83
1225006033 Dup																						0.98	1.79
1225006234 Orig																							
1225006234 Dup																							
1225006390 Orig																						0.29	2.08
1225006390 Dup																						0.27	2.04
1226009109 Orig																							
1226009109 Dup																							
1226009151 Orig	219	2.30	< 10	< 1	0.24	13	0.95	0.079	0.039	1.28	< 2	1	34	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.44	1.30
1226009151 Dup	218	2.26	< 10	< 1	0.24	13	0.94	0.079	0.038	1.27	< 2	1	34	< 0.01	< 1	< 2	< 10	13	< 10	2	14	0.45	1.29
1225004310 Orig																						0.29	2.51
1225004310 Dup																						0.29	2.55
1225004174 Orig																							
1225004174 Dup																							
1225004331 Orig	169	2.28	< 10	< 1	0.18	17	1.03	0.204	0.044	2.19	3	< 1	114	< 0.01	< 1	< 2	< 10	10	< 10	2	20		
1225004331 Dup	168	2.29	< 10	< 1	0.18	17	1.04	0.206	0.045	2.19	< 2	< 1	116	< 0.01	3	< 2	< 10	10	< 10	2	20		
1225004330 Orig																							
1225004330 Dup																							
1225005121 Orig																						0.84	1.67
1225005121 Dup																						0.83	1.70
1225004105 Orig																							
1225004105 Dup																							
1225004095 Orig	254	2.87	< 10	< 1	0.23	14	0.78	0.285	0.038	1.78	< 2	1	144	0.03	< 1	< 2	< 10	15	< 10	3	16		
1225004095 Dup	247	2.78	< 10	< 1	0.22	13	0.75	0.275	0.037	1.71	< 2	1	139	0.03	< 1	< 2	< 10	15	< 10	3	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225012397 Orig																						0.18	2.47
1225012397 Dup																						0.17	2.65
1225012221 Orig	296	3.01	< 10	< 1	0.33	13	1.04	0.084	0.038	2.30	< 2	< 1	50	0.03	< 1	< 2	< 10	11	< 10	2	16		
1225012221 Dup	294	2.94	< 10	< 1	0.33	13	1.02	0.082	0.037	2.24	< 2	< 1	49	0.03	< 1	< 2	< 10	11	< 10	2	15		
1232014005 Orig																						0.35	0.24
1232014005 Dup																						0.35	0.24
1433001142 Orig																							
1433001142 Dup																							
1225014265 Orig																						0.16	0.08
1225014265 Dup																						0.17	0.08
1433001105 Orig	174	8.89	20	1	0.56	< 10	2.95	0.410	0.038	0.55	4	12	105	0.13	< 1	< 2	< 10	176	< 10	8	4		
1433001105 Dup	172	9.06	20	2	0.56	< 10	2.99	0.419	0.039	0.55	5	12	106	0.13	< 1	< 2	< 10	178	< 10	8	4		
1433001034 Orig																							
1433001034 Dup																							
1225014044 Orig																							
1225014044 Dup																							
1225014252 Orig																						0.18	0.07
1225014252 Dup																						0.18	0.07
1225008090 Orig	439	2.68	< 10	< 1	0.33	14	0.80	0.081	0.038	1.73	2	2	26	0.03	3	< 2	< 10	24	< 10	3	19		
1225008090 Dup	444	2.68	< 10	< 1	0.33	14	0.81	0.081	0.039	1.71	2	2	26	0.03	2	< 2	< 10	24	< 10	3	19		
1225017175 Orig																						0.28	1.71
1225017175 Dup																						0.29	1.70
1225008004 Orig																							
1225008004 Dup																							
1225012414 Orig	315	3.19	< 10	< 1	0.24	16	0.96	0.153	0.041	3.17	< 2	1	59	< 0.01	2	< 2	< 10	13	< 10	3	25		
1225012414 Dup	317	3.20	< 10	< 1	0.24	16	0.96	0.152	0.042	3.20	< 2	1	59	< 0.01	3	< 2	< 10	13	< 10	3	25		
1225017101 Orig																						0.23	1.67
1225017101 Dup																						0.23	1.67
1433001005 Orig																							
1433001005 Dup																							
1225017013 Orig																							
1225017013 Dup																							
1225017056 Orig	419	1.87	< 10	< 1	0.23	13	0.58	0.129	0.037	1.22	< 2	1	74	0.01	1	< 2	< 10	14	< 10	2	12		
1225017056 Dup	420	1.88	< 10	< 1	0.24	13	0.58	0.133	0.038	1.21	< 2	1	76	0.01	2	< 2	< 10	14	< 10	3	18		
1225008214 Orig																						0.32	2.04
1225008214 Dup																						0.32	2.03
1225008127 Orig																						0.38	1.95
1225008127 Dup																						0.35	1.82
1225017121 Orig																							
1225017121 Dup																							
1225008047 Orig																							
1225008047 Dup																							
1225017047 Orig																							
1225017047 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
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BaSO4 Meas	
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BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
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SGR-1b Meas	
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SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.0
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
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Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1225006257 Orig	5.15
1225006059 Orig	
1225006059 Dup	
1225006033 Orig	
1225006033 Dup	
1225006234 Orig	
1225006234 Dup	
1225006390 Orig	
1225006390 Dup	
1226009109 Orig	
1226009109 Dup	
1226009151 Orig	
1226009151 Dup	
1225004310 Orig	
1225004310 Dup	
1225004174 Orig	
1225004174 Dup	
1225004331 Orig	
1225004331 Dup	
1225004330 Orig	
1225004330 Dup	
1225005121 Orig	
1225005121 Dup	
1225004105 Orig	
1225004105 Dup	
1225004095 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1225004095 Dup	
1225012397 Orig	
1225012397 Dup	
1225012221 Orig	
1225012221 Dup	
1232014005 Orig	
1232014005 Dup	
1433001142 Orig	
1433001142 Dup	
1225014265 Orig	
1225014265 Dup	
1433001105 Orig	
1433001105 Dup	
1433001034 Orig	
1433001034 Dup	
1225014044 Orig	
1225014044 Dup	
1225014252 Orig	
1225014252 Dup	
1225008090 Orig	
1225008090 Dup	
1225017175 Orig	
1225017175 Dup	
1225008004 Orig	
1225008004 Dup	
1225012414 Orig	
1225012414 Dup	
1225017101 Orig	
1225017101 Dup	
1433001005 Orig	
1433001005 Dup	
1225017013 Orig	
1225017013 Dup	
1225017056 Orig	
1225017056 Dup	
1225008214 Orig	
1225008214 Dup	
1225008127 Orig	
1225008127 Dup	
1225017121 Orig	
1225017121 Dup	
1225008047 Orig	
1225008047 Dup	
1225017047 Orig	
1225017047 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-07084**
Report Date:	**30-Jul-20**
Date Submitted:	**06-Jul-20**
Your Reference:	**May 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-07-16 10:44:05
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-07-15 21:39:45

REPORT **A20-07084**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for samples V860693, V860688, V860689, V860690, V860691, and V860692

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-07084**
Report Date: **30-Jul-20**
Date Submitted: **06-Jul-20**
Your Reference: **May 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-07-10 21:28:06
4F-C, S	Infrared	2020-07-10 21:30:32

REPORT **A20-07084**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Insufficient material for samples V860693, V860688, V860689, V860690, V860691, and V860692

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225003051	18.1	20.1	2.01	21.4	0.939	8.16	27	0.4	< 0.5	26	554	1	20	9	124	3.45	14	< 10	47	< 0.5	2	2.27	9
1225003033	9.99	12.4	2.38	13.8	0.898	8.60	19	< 0.2	< 0.5	20	459	< 1	10	4	145	3.59	5	< 10	46	< 0.5	4	1.83	9
1225003296	8.43	19.4	11.0	13.2	1.47	9.05	79	0.3	0.8	49	468	1	13	11	267	3.29	9	< 10	71	< 0.5	5	2.26	9
1225006354	45.5	17.1	-28.4	53.3	0.320	8.63	1220	0.7	5.4	44	784	2	14	12	1230	1.77	75	< 10	35	< 0.5	3	0.87	9
1225003005	11.1	12.5	1.35	14.7	0.849	8.99	24	0.2	< 0.5	17	482	< 1	11	7	121	3.45	7	< 10	46	< 0.5	4	1.59	10
1226018106	42.7	10.1	-32.6	48.4	0.209	8.68	464	0.7	< 0.5	154	545	4	14	5	67	3.18	9	< 10	55	< 0.5	4	1.86	9
1225003274	39.5	4.37	-35.1	43.8	0.0999	8.96	30	0.7	< 0.5	15	390	< 1	7	4	47	2.80	18	< 10	37	< 0.5	7	1.02	6
1226009022	35.5	21.1	-14.5	39.8	0.529	8.89	108	0.3	< 0.5	74	514	2	31	< 2	63	2.15	6	< 10	36	< 0.5	6	1.41	10
1225003285	9.99	19.7	9.66	14.7	1.34	8.89	44	0.2	< 0.5	26	447	< 1	15	9	80	2.70	8	< 10	49	< 0.5	3	1.48	13
1226009003	18.7	9.23	-9.51	25.1	0.368	8.83	84	0.5	< 0.5	264	337	2	13	< 2	29	3.54	6	13	32	< 0.5	3	1.24	10
1226009039	11.2	15.6	4.41	16.5	0.946	9.31	51	< 0.2	0.7	38	616	2	18	3	140	1.69	6	< 10	61	< 0.5	2	0.83	10
1225003010	14.7	12.5	-2.21	18.1	0.690	8.90	23	< 0.2	< 0.5	24	481	1	11	8	118	3.76	7	< 10	44	< 0.5	4	1.77	10
1226009007	21.9	13.4	-8.51	25.1	0.532	8.82	29	< 0.2	< 0.5	22	318	2	15	< 2	30	3.34	6	14	34	< 0.5	7	1.35	9
1226009011	37.1	11.3	-25.8	42.0	0.268	8.61	216	0.5	< 0.5	121	389	2	11	15	91	1.94	7	< 10	42	< 0.5	4	0.67	8
1225003020	23.0	15.6	-7.37	26.6	0.587	8.75	87	0.3	< 0.5	28	538	< 1	13	5	119	2.64	15	< 10	53	< 0.5	2	1.47	10
1225006446	68.9	27.4	-41.5	87.3	0.314	8.25	497	1.3	32.8	73	578	2	17	23	7810	0.72	94	< 10	31	< 0.5	3	1.23	12
1226009175	6.24	17.5	11.2	13.5	1.30	8.98	29	0.3	0.7	51	483	1	13	6	181	2.76	6	12	49	< 0.5	4	1.09	10
1225006284	62.0	24.2	-37.7	70.1	0.346	8.62	873	1.3	7.1	42	666	1	13	24	1590	1.18	115	< 10	33	< 0.5	5	1.13	10
1226009118	19.2	10.9	-8.29	24.2	0.449	8.81	122	0.3	< 0.5	75	547	2	14	3	147	2.83	6	15	69	< 0.5	5	1.26	9
1225003257	6.97	36.6	29.6	12.6	2.91	8.66	18	< 0.2	< 0.5	22	493	< 1	33	9	75	3.18	11	< 10	52	< 0.5	3	2.67	12
1225006199	47.5	33.7	-13.8	59.7	0.564	8.62	349	1.6	3.6	51	927	1	16	53	732	1.94	34	< 10	39	< 0.5	4	1.85	10
1226009053	28.5	43.5	15.0	37.7	1.15	8.70	901	0.8	< 0.5	221	596	< 1	31	< 2	74	2.39	8	< 10	28	< 0.5	6	2.22	16
1226027216	29.6	28.7	-0.840	34.0	0.845	8.06	65	0.4	< 0.5	27	683	2	24	< 2	133	2.63	11	< 10	69	< 0.5	2	1.94	12
V860688							124																
1225003175	7.60	12.1	4.51	10.7	1.13	9.35	34	0.6	< 0.5	22	511	1	10	19	129	3.85	11	< 10	48	< 0.5	3	2.20	9
1233004183	9.38	24.4	15.0	9.19	2.65	9.15	14	0.3	0.5	24	472	1	27	3	60	1.52	4	< 10	57	< 0.5	< 2	1.53	12
1226018064	59.3	13.1	-46.2	64.9	0.201	8.68	450	0.6	2.2	68	557	2	10	3	590	2.77	20	< 10	38	< 0.5	4	1.55	11
1226027134	42.6	34.2	-8.40	47.8	0.716	8.82	186	0.7	0.5	111	563	1	28	5	53	1.80	11	< 10	42	< 0.5	2	1.78	11
1225003145	7.91	17.5	9.62	11.3	1.55	9.19	18	0.3	< 0.5	25	564	1	12	8	115	3.93	13	< 10	57	< 0.5	5	2.67	10
1233004129	7.91	20.1	12.2	11.6	1.72	8.19	14	0.3	0.9	10	533	1	16	9	188	1.78	7	< 10	54	< 0.5	< 2	1.47	9
1226018058	26.3	17.5	-8.86	30.6	0.571	8.77	213	0.4	0.6	53	638	2	13	5	108	2.93	9	10	54	< 0.5	7	1.94	9
1233004111	7.39	27.5	20.1	11.0	2.50	9.30	22	0.4	1.3	11	655	2	16	9	270	1.89	5	< 10	66	< 0.5	< 2	1.66	9
1226018043	55.8	34.6	-21.2	62.5	0.554	8.62	179	0.7	1.6	16	909	2	13	15	504	1.88	15	< 10	43	< 0.5	6	1.78	9
1226018095	41.7	18.6	-23.0	47.2	0.395	8.65	452	0.8	0.8	166	577	3	19	5	194	2.85	10	14	49	< 0.5	2	1.78	11
1225003103	11.3	12.0	0.702	11.0	1.08	8.96	27	0.3	< 0.5	20	445	< 1	11	9	125	3.91	4	< 10	55	< 0.5	5	2.40	8
1225006602	51.8	9.91	-41.8	64.3	0.154	8.50	777	1.0	22.0	84	889	1	14	19	5060	2.11	100	< 10	32	< 0.5	4	0.82	11
1225003133	15.3	17.4	2.12	19.3	0.903	8.88	64	0.4	< 0.5	23	498	< 1	15	12	158	3.76	10	< 10	46	< 0.5	4	2.27	10
1226018119	50.7	14.7	-36.0	56.3	0.261	8.56	188	0.7	< 0.5	88	524	2	17	4	67	3.30	10	< 10	51	< 0.5	3	2.03	9
1226027155	35.2	13.8	-21.4	44.7	0.308	8.75	49	0.4	< 0.5	67	345	2	18	< 2	79	2.06	9	< 10	46	< 0.5	4	0.89	10
1225003085	13.8	10.4	-3.48	17.5	0.594	8.92	20	< 0.2	< 0.5	19	492	1	11	9	113	3.57	13	< 10	52	< 0.5	5	2.06	8
1226027150	48.6	18.3	-30.3	56.0	0.327	8.59	42	1.2	0.7	221	468	4	14	< 2	159	2.56	12	< 10	36	< 0.5	3	1.18	9
1226027073	51.2	11.1	-40.1	57.3	0.194	8.70	57	2.2	1.2	252	365	3	11	< 2	226	2.39	9	< 10	42	< 0.5	10	0.96	8
1226018101	35.1	21.8	-13.3	42.6	0.511	8.84	24	0.8	3.3	91	457	3	13	8	940	1.75	8	< 10	53	< 0.5	3	1.40	9
1225003320	32.5	8.23	-24.3	43.8	0.188	8.95	45	1.0	< 0.5	14	460	< 1	7	7	66	3.02	17	< 10	44	< 0.5	6	1.14	8
1226018099	42.7	22.8	-19.9	51.1	0.446	8.76	30	0.5	1.2	101	392	3	13	7	317	1.29	11	< 10	39	< 0.5	3	1.23	10
V860689							951																
1226008299	59.6	11.8	-47.8	67.4	0.175	8.51	1210	0.9	< 0.5	368	281	1	11	3	31	2.04	10	< 10	40	< 0.5	8	0.89	9
1226026123	29.8	27.6	-2.16	45.3	0.609	8.83	233	2.1	2.1	47	781	2	25	5	499	2.09	17	< 10	51	< 0.5	4	1.90	17
1225003204	16.3	8.65	-7.70	22.7	0.382	8.84	278	0.4	0.5	71	392	1	11	13	169	3.17	17	< 10	35	< 0.5	5	1.36	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1226026010	87.1	40.7	-46.5	111	0.368	8.49	729	5.2	17.7	208	786	3	17	1700	5330	1.47	82	< 10	13	< 0.5	7	1.70	10
1226026069	160	28.8	-131	179	0.161	8.25	122	1.4	< 0.5	218	684	1	60	5	116	2.36	53	< 10	17	< 0.5	22	1.30	35
1225003215	8.33	6.36	-1.97	11.3	0.561	9.09	16	< 0.2	< 0.5	29	341	< 1	8	8	70	3.32	7	< 10	45	< 0.5	4	1.43	7
1226018164	37.4	10.3	-27.1	46.5	0.221	8.55	243	0.5	< 0.5	54	408	1	10	6	45	3.43	18	< 10	55	< 0.5	8	1.90	7
1226026078	70.0	14.6	-55.3	84.8	0.172	8.44	174	2.9	0.7	53	547	< 1	23	6	166	1.46	39	< 10	23	< 0.5	7	0.79	16
1225003219	10.4	24.1	13.7	13.5	1.79	9.01	21	0.4	< 0.5	20	427	< 1	18	7	80	3.00	13	< 10	41	< 0.5	4	1.85	8
1226018186	27.7	20.2	-7.51	34.0	0.594	8.79	109	0.5	< 0.5	79	542	2	14	3	74	2.88	11	< 10	66	< 0.5	5	1.99	10
1225001035	37.3	25.3	-12.0	57.9	0.437	8.70	883	1.2	10.2	126	904	< 1	14	110	2110	2.60	86	< 10	29	< 0.5	< 2	1.98	9
1226026035	75.8	18.6	-57.2	84.2	0.221	8.46	80	1.5	< 0.5	49	500	< 1	10	9	82	1.37	6	< 10	16	< 0.5	6	0.96	8
1226026024	195	46.1	-149	228	0.202	8.30	493	4.8	< 0.5	145	682	< 1	73	6	143	2.45	44	< 10	< 10	< 0.5	6	1.76	40
1226027225	54.5	20.9	-33.6	62.5	0.334	8.65	133	0.9	< 0.5	135	634	< 1	35	2	61	2.47	19	< 10	36	< 0.5	3	1.72	26
1226027223	43.8	14.5	-29.3	57.3	0.253	8.59	363	1.5	0.6	305	627	< 1	26	4	91	2.25	16	< 10	39	< 0.5	< 2	1.17	19
1225003192	11.6	11.0	-0.563	11.3	0.971	9.07	35	< 0.2	< 0.5	21	450	< 1	9	9	88	3.80	7	< 10	51	< 0.5	3	1.90	7
1226026051	80.0	19.6	-60.4	93.4	0.209	8.47	159	1.4	< 0.5	154	672	< 1	22	9	112	2.27	23	< 10	27	< 0.5	6	1.16	15
1226018128	37.4	34.1	-3.29	44.4	0.768	8.85	86	0.8	2.8	88	782	3	16	6	779	2.07	8	< 10	54	< 0.5	4	1.91	9
1226018138	62.0	7.99	-54.0	71.1	0.112	8.38	380	1.0	0.5	256	418	< 1	9	6	86	1.94	32	< 10	31	< 0.5	8	0.89	9
1233004209	1.86	23.7	21.8	8.88	2.67	9.32	19	0.2	< 0.5	21	469	2	18	4	111	1.34	6	< 10	61	< 0.5	3	1.16	8
1226027194	38.3	34.2	-4.07	47.2	0.726	8.84	224	1.2	2.7	203	716	< 1	37	3	471	2.30	13	< 10	54	< 0.5	2	2.04	13
V860690							744																
1225005125	34.8	42.4	7.60	48.1	0.881	8.89	229	1.2	1.5	42	974	1	14	30	327	1.86	48	< 10	42	< 0.5	3	1.93	9
1225004140	44.4	17.3	-27.0	49.9	0.347	8.67	704	0.8	0.5	175	554	3	15	5	127	1.94	12	< 10	40	< 0.5	4	1.17	9
1225005055	49.7	49.9	0.204	58.8	0.848	8.90	317	2.4	1.4	42	956	< 1	14	82	332	1.75	40	< 10	40	< 0.5	< 2	2.07	12
1225004062	44.7	14.5	-30.2	51.1	0.284	8.58	884	0.9	< 0.5	190	526	3	17	4	62	3.42	12	< 10	47	< 0.5	3	1.98	10
1225005254	62.2	15.9	-46.3	72.6	0.219	8.76	65	0.7	1.1	37	481	2	15	8	309	1.78	12	< 10	34	< 0.5	3	0.95	11
1225004046	50.3	15.4	-34.9	56.3	0.273	8.51	830	2.0	< 0.5	237	495	4	18	4	76	2.86	14	< 10	50	< 0.5	3	1.64	11
1225005029	33.4	55.7	22.3	39.8	1.40	8.94	179	1.7	1.4	39	955	1	21	22	269	1.88	23	< 10	51	< 0.5	3	2.01	9
1225004066	51.3	11.9	-39.5	60.6	0.196	8.69	202	0.9	< 0.5	185	495	5	19	4	77	2.57	15	< 10	41	< 0.5	2	1.54	10
1225005007	58.4	5.37	-53.1	64.3	0.0835	8.50	45	0.4	0.5	31	327	2	17	< 2	113	1.76	6	< 10	33	< 0.5	5	0.65	10
1225004269	55.0	9.91	-45.1	60.9	0.163	8.54	1200	0.8	< 0.5	268	435	4	16	4	54	2.26	10	< 10	35	< 0.5	5	0.98	10
1225005065	43.9	30.7	-13.3	52.1	0.589	8.93	160	0.7	1.1	47	662	1	15	10	275	1.90	18	< 10	39	< 0.5	5	1.51	10
1225005074	75.2	18.4	-56.7	83.6	0.221	8.69	91	0.8	2.2	45	494	1	19	3	467	1.73	12	< 10	23	< 0.5	5	1.03	10
1225004043	57.1	12.6	-44.5	63.7	0.198	8.61	414	1.0	< 0.5	202	449	4	16	4	86	2.41	17	< 10	40	< 0.5	3	1.39	14
1225007219	35.3	11.3	-24.1	40.1	0.280	8.83	63	0.4	0.6	48	599	< 1	13	7	174	2.23	8	< 10	47	< 0.5	2	1.42	8
1225007123	4.06	12.4	8.33	3.98	3.11	9.07	6	< 0.2	< 0.5	127	462	< 1	51	< 2	64	5.31	< 2	< 10	14	< 0.5	2	3.64	22
1225005015	71.7	9.97	-61.7	76.9	0.130	8.86	40	0.7	0.7	43	350	1	13	5	173	1.81	5	< 10	19	< 0.5	5	0.62	11
1225007149	2.50	12.4	9.88	2.45	5.05	9.19	< 5	< 0.2	< 0.5	124	451	< 1	50	< 2	47	5.49	< 2	< 10	16	< 0.5	< 2	3.71	21
1225007060	77.1	8.72	-68.3	83.3	0.105	8.21	121	0.7	< 0.5	116	380	5	25	4	47	3.61	13	< 10	32	< 0.5	7	1.53	14
1225007026	89.6	18.3	-71.2	96.8	0.190	8.45	149	0.9	1.7	201	606	2	20	4	506	2.12	17	< 10	16	< 0.5	4	1.28	12
1225007075	54.5	13.5	-40.9	59.1	0.229	8.72	86	0.4	< 0.5	169	339	4	18	3	36	1.97	6	< 10	34	< 0.5	3	1.17	10
V860691							957																
1225007027	76.9	25.2	-51.7	83.9	0.300	8.53	82	0.5	1.3	96	554	3	18	6	372	1.79	10	< 10	26	< 0.5	5	1.37	10
1225007034	78.7	8.73	-70.0	83.6	0.104	8.47	90	0.8	< 0.5	286	296	4	20	4	54	1.92	9	< 10	25	< 0.5	5	0.88	9
1225007038	68.4	10.2	-58.3	73.2	0.139	8.51	68	0.5	< 0.5	83	338	4	19	4	41	3.20	9	< 10	37	< 0.5	8	1.64	10
1225007087	28.6	5.12	-23.5	33.1	0.155	8.67	71	0.4	< 0.5	100	397	3	17	3	45	3.41	6	< 10	40	< 0.5	6	1.26	7
1225007019	58.6	5.75	-52.9	66.8	0.0861	8.40	67	0.3	< 0.5	43	329	3	18	4	86	1.75	9	< 10	33	< 0.5	5	0.89	11
1225007281	1.14	8.50	7.36	5.51	1.54	8.40	26	< 0.2	< 0.5	124	401	< 1	37	< 2	53	5.44	< 2	< 10	20	< 0.5	< 2	3.58	18
1225007287	16.9	8.76	-8.10	21.1	0.415	9.11	24	0.2	0.5	20	504	< 1	13	7	121	3.54	5	< 10	62	< 0.5	2	1.79	10
1225007255	4.69	7.75	3.06	4.59	1.69	9.05	5	< 0.2	< 0.5	121	400	< 1	49	< 2	58	5.80	4	< 10	17	< 0.5	< 2	3.78	21
1225007243	17.3	13.3	-4.00	21.1	0.629	9.00	24	0.3	0.7	27	698	4	13	14	278	3.79	3	< 10	59	< 0.5	4	1.89	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225014282	16.5	15.6	-0.858	20.2	0.771	9.09	119	0.3	< 0.5	46	465	< 1	15	7	99	2.82	3	16	104	< 0.5	4	1.43	12
1225014130	64.5	10.7	-53.7	69.8	0.154	9.02	44	0.4	< 0.5	23	396	1	16	7	100	3.17	17	< 10	40	< 0.5	4	1.57	8
1225014286	5.00	13.9	8.85	4.90	2.83	8.52	28	1.7	0.7	139	624	< 1	51	< 2	199	5.42	< 2	< 10	26	< 0.5	< 2	3.69	23
1225014148	44.3	9.53	-34.7	49.6	0.192	9.16	185	0.6	0.8	57	464	3	15	16	205	2.47	36	< 10	45	< 0.5	5	1.06	13
1434002023	3.85	121	118	8.57	14.2	8.71	< 5	0.4	< 0.5	171	918	< 1	75	< 2	85	5.36	4	< 10	45	< 0.5	3	5.38	31
1434002670	23.6	38.1	14.5	30.3	1.26	8.78	14	0.5	< 0.5	80	1040	< 1	22	< 2	150	3.95	5	< 10	25	< 0.5	2	3.55	28
1225014109	128	8.77	-119	138	0.0633	8.64	1000	2.8	0.5	722	255	2	14	13	178	1.29	37	< 10	12	< 0.5	16	0.52	7
1225014158	12.3	11.1	-1.17	15.9	0.698	7.88	56	< 0.2	0.7	39	542	< 1	14	5	327	3.02	8	15	35	< 0.5	4	1.30	10
1225014085	32.0	7.66	-24.3	36.8	0.208	8.89	36	0.3	< 0.5	21	352	1	16	< 2	55	4.03	5	< 10	50	< 0.5	6	1.87	8
1225014210	33.3	13.6	-19.7	42.0	0.324	8.82	870	2.0	8.1	122	719	< 1	13	276	2480	2.05	9	12	45	< 0.5	2	0.95	9
1225014092	42.1	14.2	-27.9	50.5	0.280	8.72	254	0.2	< 0.5	21	521	< 1	17	6	55	3.47	13	< 10	35	< 0.5	3	1.74	9
V860692							118																
1225009119	20.5	19.9	-0.619	27.3	0.730	8.63	15	0.4	< 0.5	22	745	< 1	18	12	228	3.61	16	< 10	43	< 0.5	3	2.67	7
1225009167	42.1	70.8	28.7	51.8	1.37	8.96	150	1.0	< 0.5	25	1660	< 1	12	31	148	1.16	54	< 10	47	< 0.5	3	2.77	9
1225009212	44.1	72.2	28.0	61.3	1.18	8.92	82	1.0	0.5	20	1180	< 1	12	19	92	1.33	63	< 10	40	< 0.5	3	3.06	8
1225009155	20.3	35.0	14.7	31.2	1.12	8.91	675	1.6	1.1	45	672	2	14	61	304	2.33	50	< 10	46	< 0.5	2	2.39	9
1233004135	8.01	31.1	23.1	13.2	2.36	8.97	13	0.4	< 0.5	17	425	3	19	4	106	1.24	5	< 10	68	< 0.5	< 2	1.41	10
1233006022	1.97	17.3	15.3	10.4	1.66	9.39	< 5	0.2	< 0.5	29	374	2	13	8	70	2.45	5	< 10	82	< 0.5	< 2	1.75	9
1225009075	8.53	89.7	81.2	16.5	5.42	9.43	13	0.3	< 0.5	32	1000	1	92	< 2	154	2.51	7	< 10	54	< 0.5	< 2	3.66	22
1225009058	8.00	31.5	23.5	18.7	1.69	8.97	139	0.8	1.0	39	729	1	20	41	355	2.90	15	10	45	< 0.5	2	2.16	9
1225009185	36.5	87.2	50.7	52.4	1.67	9.10	65	0.8	< 0.5	18	1040	< 1	12	9	98	0.85	39	< 10	46	< 0.5	2	3.30	9
1225009138	58.8	81.7	22.9	78.4	1.04	8.89	160	5.2	19.6	66	1070	1	14	492	4380	0.67	148	< 10	29	< 0.5	2	3.13	8
1233005019	1.14	21.4	20.3	4.59	4.67	8.82	11	< 0.2	< 0.5	22	384	2	22	2	114	1.78	4	< 10	71	< 0.5	< 2	1.30	10
2020051301	36.2	15.8	-20.4	41.7	0.380	9.47	151	0.8	1.5	45	703	< 1	12	47	439	2.59	27	< 10	31	< 0.5	3	1.29	8
1233004112	8.74	24.5	15.8	13.2	1.86	9.12	21	0.4	2.2	14	631	2	18	9	360	1.71	8	< 10	53	< 0.5	< 2	1.49	7
1225009090	47.6	78.0	30.4	58.2	1.34	9.22	164	1.3	4.6	30	1180	1	15	28	974	1.12	75	< 10	35	< 0.5	2	3.09	10
1225009053	29.6	18.5	-11.1	34.9	0.529	8.86	40	2.0	< 0.5	45	794	1	13	25	96	1.92	20	11	48	< 0.5	3	1.24	9
1233005028	1.55	30.9	29.4	10.7	2.88	8.90	6	< 0.2	< 0.5	22	433	2	17	3	83	1.10	6	< 10	52	< 0.5	< 2	1.39	9
1225009046	42.4	87.6	45.2	56.3	1.55	9.40	272	7.9	1.0	38	1230	2	16	23	251	1.02	95	< 10	28	< 0.5	3	3.48	9
1225009104	34.4	11.5	-22.8	43.8	0.264	8.76	80	1.2	0.6	58	410	1	12	17	250	2.62	17	< 10	31	< 0.5	3	1.70	10
1225009100	6.65	33.3	26.6	15.0	2.22	8.89	34	0.5	0.6	28	745	1	15	14	180	2.10	12	< 10	43	< 0.5	2	2.17	10
1225009199	7.48	14.3	6.81	20.2	0.707	9.08	91	0.6	< 0.5	21	549	2	13	28	144	2.92	27	< 10	45	< 0.5	3	2.04	8
1225009092	42.4	81.3	38.9	56.7	1.43	8.91	253	2.9	3.1	51	1030	1	14	21	804	0.81	96	< 10	31	< 0.5	< 2	3.13	10
1233004014	4.57	30.7	26.1	10.7	2.86	9.40	87	0.2	< 0.5	33	488	2	15	2	139	1.30	5	< 10	60	< 0.5	< 2	1.40	9
1233006005	10.6	10.9	0.234	14.1	0.770	9.30	6	0.2	< 0.5	13	334	1	13	4	61	2.30	6	< 10	81	< 0.5	3	1.30	8
1233004008	3.33	24.7	21.4	8.57	2.88	9.41	< 5	< 0.2	< 0.5	12	427	1	17	6	102	1.78	5	< 10	56	< 0.5	2	1.54	9
1233004070	11.1	25.0	13.9	14.7	1.70	9.36	16	0.3	< 0.5	14	484	1	15	4	114	2.51	5	< 10	69	< 0.5	< 2	1.94	8
1233004031	5.93	16.4	10.5	10.4	1.57	9.18	31	0.7	< 0.5	16	433	1	11	11	129	1.53	13	< 10	50	< 0.5	3	1.03	6
V860693							766																
1226009147	28.5	16.5	-12.0	34.0	0.486	8.82	206	1.0	< 0.5	186	535	1	21	8	93	2.15	20	12	73	< 0.5	4	1.13	11
1226009216	23.1	41.8	18.7	29.7	1.41	9.06	182	0.6	1.5	65	586	1	39	5	270	2.20	9	< 10	97	< 0.5	2	2.18	17
1225006092	67.2	18.5	-48.7	77.5	0.239	8.66	2720	12.7	2.7	62	498	2	15	66	690	1.19	84	< 10	39	< 0.5	< 2	0.92	11

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225003051	170	2.41	< 10	< 1	0.18	18	0.97	0.140	0.051	0.68	3	2	136	0.03	< 1	< 2	< 10	18	< 10	3	6	0.37	0.70
1225003033	112	2.29	< 10	< 1	0.13	18	0.88	0.166	0.050	0.45	< 2	1	172	0.02	2	< 2	< 10	16	< 10	3	3	0.23	0.45
1225003296	168	2.29	< 10	< 1	0.22	19	0.84	0.182	0.053	0.43	< 2	1	202	0.02	3	< 2	< 10	17	< 10	3	9	0.36	0.43
1225006354	109	2.70	< 10	< 1	0.26	14	1.36	0.028	0.039	1.73	2	< 1	15	0.02	< 1	< 2	< 10	9	< 10	2	10	0.32	1.74
1225003005	125	2.37	10	< 1	0.15	19	0.98	0.140	0.049	0.49	< 2	1	141	0.02	< 1	< 2	< 10	17	< 10	3	3	0.26	0.48
1226018106	212	2.67	< 10	< 1	0.29	14	0.75	0.243	0.041	1.53	< 2	1	126	0.06	2	< 2	< 10	16	< 10	2	18	0.37	1.58
1225003274	59	1.93	< 10	< 1	0.19	14	0.66	0.093	0.044	1.38	< 2	< 1	131	< 0.01	< 1	< 2	< 10	10	< 10	2	15	0.06	1.43
1226009022	251	3.14	< 10	< 1	0.42	30	1.36	0.098	0.076	1.29	< 2	3	82	0.06	3	< 2	< 10	30	< 10	3	15	0.30	1.30
1225003285	112	2.20	< 10	< 1	0.21	18	0.77	0.097	0.047	0.50	< 2	1	138	0.02	< 1	< 2	< 10	15	< 10	3	5	0.39	0.48
1226009003	136	3.12	10	< 1	0.16	12	1.23	0.169	0.037	0.80	< 2	1	144	< 0.01	2	< 2	< 10	19	< 10	2	10	0.19	0.82
1226009039	312	2.22	< 10	< 1	0.48	14	1.20	0.078	0.040	0.53	< 2	2	34	0.05	2	< 2	< 10	24	< 10	2	13	0.30	0.54
1225003010	120	2.61	10	< 1	0.12	20	1.00	0.156	0.053	0.58	3	1	198	0.03	< 1	< 2	< 10	19	< 10	3	2	0.44	0.59
1226009007	179	2.95	10	< 1	0.17	14	1.11	0.238	0.039	0.82	< 2	1	134	< 0.01	< 1	< 2	< 10	18	< 10	2	13	0.17	0.82
1226009011	178	3.89	< 10	< 1	0.22	11	0.83	0.051	0.034	1.40	< 2	< 1	32	0.02	< 1	< 2	< 10	13	< 10	1	11	0.22	1.37
1225003020	147	2.25	< 10	< 1	0.20	18	0.82	0.116	0.049	0.91	< 2	1	90	0.01	< 1	< 2	< 10	14	< 10	3	5	0.29	0.87
1225006446	165	2.43	< 10	< 1	0.26	14	0.26	0.032	0.042	3.03	4	< 1	33	< 0.01	3	< 2	< 10	5	< 10	2	16	0.50	2.85
1226009175	124	3.01	< 10	< 1	0.26	15	1.76	0.087	0.039	0.43	< 2	1	57	0.02	< 1	< 2	< 10	19	< 10	2	8	0.30	0.44
1225006284	159	2.68	< 10	< 1	0.26	11	0.54	0.036	0.043	2.54	4	< 1	34	< 0.01	< 1	< 2	< 10	7	< 10	2	16	0.37	2.29
1226009118	216	2.88	< 10	< 1	0.32	13	1.19	0.155	0.037	0.80	< 2	1	77	0.05	1	< 2	< 10	17	< 10	2	13	0.23	0.79
1225003257	214	2.36	< 10	< 1	0.21	18	1.30	0.101	0.055	0.42	< 2	3	158	0.01	< 1	3	< 10	24	< 10	3	3	0.60	0.41
1225006199	188	2.47	< 10	< 1	0.25	12	1.02	0.070	0.041	1.96	3	< 1	53	0.04	< 1	< 2	< 10	9	< 10	2	17	0.51	1.95
1226009053	171	4.36	10	< 1	0.43	40	1.82	0.085	0.130	1.23	2	7	79	0.10	< 1	< 2	< 10	70	< 10	6	8	0.63	1.23
1226027216	183	2.49	< 10	< 1	0.39	16	1.13	0.242	0.049	1.07	< 2	2	94	0.04	< 1	< 2	< 10	21	< 10	4	16	0.49	1.11
V860688																							
1225003175	107	2.08	< 10	< 1	0.20	16	0.99	0.230	0.043	0.36	< 2	< 1	178	0.01	2	< 2	< 10	13	< 10	2	8	0.14	0.35
1233004183	163	2.47	< 10	< 1	0.21	14	0.94	0.088	0.045	0.31	< 2	3	45	0.12	< 1	< 2	< 10	45	< 10	5	11	0.30	0.30
1226018064	152	2.98	< 10	< 1	0.17	11	0.74	0.180	0.036	2.11	< 2	< 1	158	0.02	1	< 2	< 10	12	< 10	2	16	0.20	2.12
1226027134	193	2.45	< 10	< 1	0.28	19	1.00	0.115	0.048	1.59	< 2	1	76	0.03	2	< 2	< 10	15	< 10	3	17	0.49	1.56
1225003145	90	2.39	10	< 1	0.22	18	1.14	0.180	0.050	0.36	< 2	2	213	0.03	< 1	< 2	< 10	19	< 10	3	6	0.25	0.37
1233004129	220	2.08	< 10	< 1	0.26	17	0.77	0.096	0.044	0.39	< 2	2	54	0.08	1	< 2	< 10	24	< 10	3	14	0.36	0.38
1226018058	139	2.33	< 10	< 1	0.29	13	0.92	0.145	0.041	1.06	< 2	1	119	0.05	< 1	< 2	< 10	16	< 10	2	16	0.30	1.00
1233004111	223	2.21	< 10	< 1	0.32	15	0.86	0.113	0.043	0.37	< 2	2	57	0.08	< 1	< 2	< 10	25	< 10	3	14	0.39	0.36
1226018043	126	2.36	< 10	< 1	0.35	15	1.23	0.053	0.038	2.10	< 2	< 1	41	< 0.01	3	< 2	< 10	10	< 10	2	15	0.57	2.04
1226018095	163	2.67	< 10	< 1	0.34	13	0.89	0.232	0.036	1.60	< 2	1	138	0.04	2	< 2	< 10	16	< 10	2	16	0.30	1.54
1225003103	155	2.16	10	< 1	0.22	17	0.81	0.171	0.047	0.35	< 2	1	274	0.05	1	< 2	< 10	17	< 10	3	5	0.27	0.36
1225006602	149	3.27	< 10	< 1	0.28	17	1.42	0.035	0.043	2.09	4	< 1	28	0.04	< 1	< 2	< 10	12	< 10	2	18	0.23	2.10
1225003133	108	2.29	< 10	< 1	0.17	18	1.03	0.204	0.051	0.63	< 2	1	187	< 0.01	< 1	< 2	< 10	17	< 10	3	3	0.32	0.63
1226018119	244	2.69	< 10	< 1	0.30	11	0.80	0.330	0.034	1.79	< 2	1	205	0.02	< 1	< 2	< 10	16	< 10	2	23	0.29	1.84
1226027155	300	2.57	< 10	< 1	0.19	13	1.38	0.132	0.037	1.41	< 2	1	57	< 0.01	2	< 2	< 10	16	< 10	3	18	0.27	1.46
1225003085	157	2.23	< 10	< 1	0.19	17	0.78	0.147	0.047	0.56	< 2	1	209	0.03	< 1	< 2	< 10	15	< 10	3	4	0.26	0.57
1226027150	144	2.91	< 10	< 1	0.24	16	1.70	0.095	0.042	1.74	< 2	< 1	54	< 0.01	< 1	< 2	< 10	13	< 10	3	19	0.32	1.83
1226027073	142	2.91	< 10	< 1	0.28	15	1.42	0.127	0.039	1.85	< 2	< 1	60	0.02	2	< 2	< 10	11	< 10	2	20	0.20	1.87
1226018101	192	1.97	< 10	< 1	0.23	14	0.67	0.175	0.040	1.37	< 2	1	128	< 0.01	< 1	< 2	< 10	15	< 10	2	15	0.34	1.39
1225003320	78	2.00	< 10	< 1	0.22	15	0.74	0.107	0.043	1.39	3	< 1	145	< 0.01	5	< 2	< 10	11	< 10	2	15	0.06	1.43
1226018099	193	2.33	< 10	< 1	0.19	14	0.76	0.088	0.042	1.61	< 2	1	40	< 0.01	2	< 2	< 10	14	< 10	3	13	0.39	1.67
V860689																							
1226008299	157	4.00	< 10	< 1	0.27	12	0.88	0.068	0.036	2.23	< 2	< 1	56	0.03	< 1	< 2	< 10	11	< 10	3	20	0.28	2.20
1226026123	180	2.49	< 10	< 1	0.31	15	1.03	0.122	0.050	1.51	< 2	2	55	0.05	3	< 2	< 10	24	< 10	4	16	0.46	1.48
1225003204	101	2.34	< 10	< 1	0.15	17	1.00	0.128	0.050	0.72	< 2	1	118	< 0.01	< 1	< 2	< 10	14	< 10	3	7	0.20	0.74
1226026010	150	3.37	< 10	< 1	0.29	15	0.90	0.083	0.041	3.60	4	1	37	< 0.01	2	< 2	< 10	13	< 10	4	19	0.53	3.61
1226026069	256	6.79	< 10	2	0.18	11	1.72	0.126	0.076	5.67	2	9	62	< 0.01	6	2	< 10	116	< 10	12	12	0.46	5.83

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225003215	73	1.86	< 10	< 1	0.19	19	0.67	0.144	0.046	0.37	< 2	1	160	0.03	2	< 2	< 10	12	< 10	3	6	0.07	0.37
1226018164	197	2.25	< 10	< 1	0.22	11	0.69	0.315	0.035	1.44	< 2	< 1	263	< 0.01	2	< 2	< 10	10	< 10	2	11	0.18	1.52
1226026078	138	3.29	< 10	< 1	0.25	10	0.93	0.074	0.044	2.75	< 2	1	26	< 0.01	2	< 2	< 10	17	< 10	3	14	0.26	2.77
1225003219	100	1.97	< 10	< 1	0.18	16	0.99	0.105	0.048	0.42	< 2	2	128	0.01	1	< 2	< 10	16	< 10	3	4	0.27	0.44
1226018186	217	2.43	< 10	< 1	0.31	14	0.70	0.296	0.043	1.07	< 2	1	177	0.06	< 1	< 2	< 10	20	< 10	2	14	0.30	1.11
1225001035	114	2.49	< 10	< 1	0.24	14	1.13	0.111	0.037	1.83	2	< 1	63	0.01	< 1	< 2	< 10	10	< 10	2	22	0.35	1.89
1226026035	157	3.02	< 10	< 1	0.31	13	0.65	0.097	0.037	2.85	< 2	< 1	33	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.30	2.75
1226026024	170	9.52	< 10	< 1	0.25	< 10	1.86	0.048	0.067	7.71	3	6	45	0.06	5	< 2	< 10	90	< 10	10	12	0.51	7.46
1226027225	156	3.22	< 10	< 1	0.25	14	1.06	0.209	0.053	2.01	< 2	4	129	0.10	2	< 2	< 10	57	< 10	5	16	0.31	2.04
1226027223	152	3.06	< 10	< 1	0.24	15	1.10	0.158	0.049	1.83	< 2	2	70	0.04	2	< 2	< 10	27	< 10	4	16	0.27	1.87
1225003192	105	1.98	10	< 1	0.20	17	0.95	0.184	0.045	0.36	< 2	1	159	0.01	< 1	< 2	< 10	14	< 10	3	6	0.12	0.37
1226026051	228	3.82	< 10	< 1	0.21	11	1.46	0.176	0.043	3.12	< 2	3	72	0.01	< 1	< 2	< 10	33	< 10	4	20	0.32	3.05
1226018128	227	2.51	< 10	< 1	0.25	12	0.97	0.183	0.038	1.44	3	1	128	0.02	< 1	< 2	< 10	19	< 10	2	13	0.53	1.45
1226018138	105	3.00	< 10	< 1	0.20	13	0.81	0.063	0.038	2.30	< 2	< 1	55	< 0.01	< 1	< 2	< 10	8	< 10	2	18	0.20	2.32
1233004209	343	2.00	< 10	< 1	0.35	15	0.72	0.075	0.040	0.34	< 2	1	36	0.08	2	< 2	< 10	21	< 10	2	14	0.41	0.29
1226027194	177	2.76	< 10	< 1	0.35	16	1.31	0.123	0.050	1.51	< 2	2	68	0.04	3	< 2	< 10	23	< 10	4	16	0.56	1.54
V860690																							
1225005125	178	2.30	< 10	< 1	0.20	17	1.14	0.120	0.043	1.55	< 2	< 1	48	< 0.01	< 1	< 2	< 10	10	< 10	3	12	0.68	1.57
1225004140	271	2.67	< 10	< 1	0.16	14	0.85	0.174	0.040	1.63	2	1	71	< 0.01	1	< 2	< 10	15	< 10	3	14	0.29	1.63
1225005055	200	2.34	< 10	< 1	0.26	14	1.03	0.080	0.041	2.15	< 2	< 1	47	< 0.01	< 1	< 2	< 10	8	21	2	13	0.74	1.92
1225004062	235	2.92	< 10	< 1	0.24	13	0.91	0.261	0.038	1.70	< 2	1	134	0.03	1	< 2	< 10	18	< 10	3	13	0.24	1.67
1225005254	231	2.52	< 10	< 1	0.16	20	1.08	0.118	0.048	2.39	< 2	1	57	< 0.01	< 1	< 2	< 10	15	< 10	3	22	0.24	2.37
1225004046	315	2.96	< 10	< 1	0.25	14	0.79	0.290	0.040	1.84	< 2	< 1	149	0.03	1	< 2	< 10	16	< 10	3	16	0.45	1.84
1225005029	229	2.21	< 10	< 1	0.21	16	1.26	0.098	0.044	1.27	< 2	1	41	< 0.01	2	< 2	< 10	13	< 10	3	11	0.73	1.30
1225004066	360	3.00	< 10	< 1	0.30	14	0.72	0.267	0.041	2.04	< 2	1	130	0.04	1	< 2	< 10	19	< 10	3	17	0.31	1.98
1225005007	305	2.21	< 10	< 1	0.16	27	1.00	0.126	0.062	2.11	< 2	2	50	< 0.01	2	< 2	< 10	16	< 10	3	5	0.24	2.10
1225004269	275	3.29	< 10	< 1	0.20	14	0.88	0.180	0.039	1.96	< 2	1	78	< 0.01	2	< 2	< 10	15	< 10	3	17	0.21	1.99
1225005065	278	2.38	< 10	< 1	0.16	26	1.19	0.132	0.057	1.80	< 2	1	47	< 0.01	2	< 2	< 10	14	< 10	3	5	0.46	1.70
1225005074	326	2.78	< 10	< 1	0.17	26	1.05	0.130	0.057	2.77	2	1	55	< 0.01	< 1	< 2	< 10	15	< 10	3	14	0.32	2.73
1225004043	269	2.80	< 10	< 1	0.31	14	0.67	0.269	0.038	1.99	< 2	1	151	0.03	1	< 2	< 10	17	40	3	17	0.33	2.08
1225007219	178	2.16	< 10	< 1	0.25	15	0.77	0.201	0.039	1.29	< 2	< 1	88	0.04	3	< 2	< 10	14	< 10	3	18	0.15	1.31
1225007123	172	4.68	< 10	1	0.04	< 10	1.76	0.513	0.020	0.13	2	4	64	0.19	< 1	< 2	< 10	135	< 10	4	3	0.21	0.13
1225005015	138	2.51	< 10	< 1	0.21	21	0.96	0.112	0.055	2.49	< 2	1	53	< 0.01	2	< 2	< 10	14	< 10	3	21	0.06	2.51
1225007149	207	4.58	< 10	1	0.04	< 10	1.73	0.586	0.019	0.08	< 2	5	67	0.18	3	< 2	< 10	139	< 10	4	3	0.10	0.08
1225007060	284	4.28	10	2	0.17	20	1.28	0.328	0.048	2.79	3	2	254	< 0.01	1	2	< 10	23	< 10	3	17	0.21	2.72
1225007026	197	3.60	< 10	< 1	0.22	21	1.13	0.191	0.049	3.42	< 2	2	70	0.02	< 1	< 2	< 10	20	< 10	4	23	0.19	3.16
1225007075	281	2.99	< 10	< 1	0.23	14	0.95	0.148	0.039	1.95	2	2	76	0.05	1	< 2	< 10	21	< 10	3	19	0.23	1.93
V860691																							
1225007027	253	3.08	< 10	< 1	0.20	16	1.04	0.142	0.043	2.89	< 2	1	50	< 0.01	< 1	< 2	< 10	14	< 10	3	22	0.32	2.74
1225007034	363	3.36	< 10	< 1	0.17	15	0.92	0.189	0.040	2.74	< 2	1	117	0.01	1	< 2	< 10	14	< 10	3	18	0.17	2.73
1225007038	312	3.22	< 10	< 1	0.20	14	1.00	0.271	0.041	2.41	< 2	1	225	< 0.01	< 1	< 2	< 10	15	< 10	3	16	0.25	2.39
1225007087	324	2.90	< 10	< 1	0.17	14	0.89	0.182	0.046	1.01	< 2	1	190	< 0.01	< 1	< 2	< 10	14	< 10	2	9	0.17	1.08
1225007019	290	2.49	< 10	< 1	0.22	18	0.77	0.180	0.045	2.35	2	< 1	67	0.01	< 1	< 2	< 10	10	< 10	3	19	0.23	2.18
1225007281	190	4.05	10	2	0.06	< 10	1.27	0.627	0.023	0.19	< 2	3	70	0.17	< 1	3	< 10	119	< 10	3	3	0.13	0.18
1225007287	159	2.35	< 10	< 1	0.20	18	0.98	0.151	0.051	0.70	< 2	1	200	0.03	1	< 2	< 10	18	< 10	3	7	0.17	0.69
1225007255	223	4.31	10	< 1	0.04	< 10	1.58	0.594	0.020	0.15	< 2	4	76	0.17	< 1	< 2	< 10	130	< 10	3	3	0.10	0.15
1225007243	197	2.51	10	< 1	0.23	18	1.14	0.117	0.048	0.68	< 2	1	160	0.02	2	< 2	< 10	18	< 10	3	4	0.31	0.69
1225014282	193	2.51	< 10	< 1	0.44	18	1.33	0.082	0.042	0.67	< 2	2	59	0.06	< 1	< 2	< 10	29	< 10	3	12	0.25	0.66
1225014130	214	2.75	< 10	< 1	0.20	15	1.04	0.128	0.039	2.34	< 2	< 1	156	< 0.01	< 1	< 2	< 10	11	< 10	2	19	0.19	2.28
1225014286	204	4.66	10	1	0.08	< 10	1.97	0.580	0.021	0.15	2	7	78	0.17	< 1	< 2	< 10	133	< 10	4	3	0.20	0.16
1225014148	140	2.68	< 10	< 1	0.23	17	0.89	0.089	0.042	1.64	< 2	< 1	130	< 0.01	< 1	< 2	< 10	11	< 10	3	16	0.19	1.62

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1434002023	213	8.42	20	2	0.22	< 10	2.49	0.378	0.037	0.27	< 2	14	129	0.13	< 1	< 2	< 10	286	< 10	8	3	1.55	0.28
1434002670	207	9.05	20	3	0.19	< 10	1.79	0.303	0.095	0.89	2	18	61	0.18	< 1	< 2	< 10	199	< 10	18	7	0.45	0.99
1225014109	352	4.79	< 10	< 1	0.25	10	0.54	0.047	0.034	4.74	< 2	< 1	39	< 0.01	2	< 2	< 10	8	< 10	2	22	0.19	4.52
1225014158	202	2.59	< 10	< 1	0.14	15	1.13	0.088	0.046	0.51	< 2	1	129	0.03	< 1	< 2	< 10	20	< 10	2	9	0.20	0.52
1225014085	326	2.42	10	< 1	0.24	15	1.33	0.190	0.042	1.15	< 2	< 1	176	< 0.01	< 1	< 2	< 10	15	< 10	2	13	0.10	1.20
1225014210	147	2.31	< 10	< 1	0.27	13	0.95	0.047	0.034	1.38	< 2	< 1	42	< 0.01	< 1	< 2	< 10	11	< 10	1	17	0.19	1.37
1225014092	211	3.01	< 10	< 1	0.17	12	1.33	0.098	0.036	1.66	< 2	1	112	0.02	< 1	< 2	< 10	14	< 10	2	20	0.22	1.65
V860692																							
1225009119	237	2.03	< 10	< 1	0.27	12	0.91	0.248	0.036	0.89	< 2	1	279	0.04	< 1	< 2	< 10	15	< 10	2	13	0.36	0.89
1225009167	146	2.15	< 10	< 1	0.26	14	0.82	0.047	0.043	1.81	< 2	< 1	63	< 0.01	< 1	< 2	< 10	6	< 10	3	10	1.10	1.69
1225009212	100	2.30	< 10	< 1	0.23	13	0.81	0.046	0.043	2.16	< 2	< 1	58	< 0.01	2	< 2	< 10	5	< 10	3	14	0.92	2.00
1225009155	180	1.98	< 10	< 1	0.25	12	0.83	0.108	0.034	1.05	< 2	< 1	130	0.02	< 1	< 2	< 10	10	< 10	2	18	0.53	1.02
1233004135	299	2.03	< 10	< 1	0.33	15	0.74	0.065	0.039	0.44	< 2	2	29	0.07	2	< 2	< 10	23	< 10	2	15	0.47	0.43
1233006022	126	2.04	< 10	< 1	0.33	17	1.13	0.165	0.040	0.36	< 2	2	63	0.08	2	< 2	< 10	25	< 10	2	15	0.19	0.34
1225009075	415	2.95	< 10	< 1	0.25	25	2.40	0.041	0.097	0.49	< 2	7	142	0.08	< 1	< 2	< 10	52	< 10	4	12	1.22	0.54
1225009058	242	2.11	< 10	< 1	0.26	12	1.10	0.124	0.035	0.61	< 2	1	165	0.04	< 1	< 2	< 10	16	< 10	2	12	0.44	0.61
1225009185	138	1.94	< 10	< 1	0.23	13	0.65	0.043	0.039	1.74	< 2	< 1	52	< 0.01	1	< 2	< 10	4	< 10	2	8	1.23	1.71
1225009138	201	2.30	< 10	1	0.25	10	0.31	0.038	0.041	2.66	9	< 1	30	< 0.01	1	< 2	< 10	4	< 10	2	10	1.11	2.56
1233005019	297	2.23	< 10	< 1	0.39	20	0.96	0.104	0.049	0.16	< 2	2	80	0.11	3	< 2	< 10	32	< 10	3	19	0.28	0.15
2020051301	164	2.39	< 10	< 1	0.22	14	1.50	0.130	0.039	1.27	< 2	< 1	75	0.01	< 1	< 2	< 10	12	< 10	2	20	0.15	1.36
1233004112	285	2.08	< 10	< 1	0.26	15	0.82	0.100	0.041	0.41	< 2	2	54	0.08	2	< 2	< 10	23	< 10	3	16	0.38	0.43
1225009090	124	2.12	< 10	< 1	0.31	17	0.68	0.045	0.043	1.91	2	< 1	38	< 0.01	< 1	< 2	< 10	7	< 10	3	11	1.07	1.90
1225009053	93	2.02	< 10	< 1	0.37	14	1.00	0.037	0.036	1.12	< 2	1	49	0.05	< 1	< 2	< 10	12	< 10	2	17	0.30	1.14
1233005028	268	1.96	< 10	< 1	0.29	14	0.73	0.055	0.042	0.37	< 2	1	25	0.06	< 1	< 2	< 10	20	< 10	2	12	0.47	0.35
1225009046	189	2.21	< 10	< 1	0.24	16	0.63	0.040	0.041	1.84	< 2	< 1	38	< 0.01	2	< 2	< 10	5	< 10	2	11	1.33	1.84
1225009104	113	2.17	< 10	< 1	0.18	14	0.75	0.141	0.038	1.44	< 2	< 1	132	< 0.01	< 1	< 2	< 10	10	< 10	2	18	0.22	1.43
1225009100	186	1.63	< 10	< 1	0.28	13	0.87	0.081	0.035	0.48	< 2	< 1	95	0.05	2	< 2	< 10	11	< 10	2	13	0.48	0.49
1225009199	208	1.82	< 10	< 1	0.22	14	0.63	0.147	0.039	0.65	< 2	1	182	0.04	< 1	< 2	< 10	12	< 10	2	12	0.26	0.66
1225009092	134	1.98	< 10	< 1	0.25	12	0.54	0.039	0.042	1.88	2	< 1	34	< 0.01	1	< 2	< 10	6	< 10	2	9	1.17	1.85
1233004014	245	1.85	< 10	< 1	0.27	14	0.77	0.065	0.037	0.31	< 2	2	27	0.09	< 1	< 2	< 10	24	< 10	3	13	0.40	0.35
1233006005	146	1.89	< 10	< 1	0.35	18	1.02	0.189	0.041	0.46	< 2	2	66	0.05	< 1	< 2	< 10	23	< 10	2	15	0.11	0.46
1233004008	221	1.92	< 10	< 1	0.24	14	1.01	0.095	0.042	0.29	< 2	2	44	0.06	2	< 2	< 10	25	< 10	2	13	0.31	0.28
1233004070	154	2.06	< 10	< 1	0.35	16	0.80	0.226	0.042	0.45	< 2	2	138	0.08	< 1	< 2	< 10	25	< 10	3	14	0.27	0.48
1233004031	175	1.35	< 10	< 1	0.27	18	0.66	0.100	0.041	0.35	< 2	1	45	0.02	< 1	< 2	< 10	17	< 10	2	9	0.19	0.34
V860693																							
1226009147	188	3.06	< 10	< 1	0.29	22	1.03	0.095	0.061	1.03	< 2	3	78	0.07	3	< 2	< 10	27	< 10	3	17	0.29	1.11
1226009216	256	3.52	< 10	< 1	0.77	41	1.61	0.098	0.122	0.89	< 2	5	141	0.14	< 1	< 2	< 10	60	< 10	5	17	0.55	0.97
1225006092	163	2.40	< 10	< 1	0.23	17	0.80	0.038	0.053	2.53	8	< 1	32	< 0.01	2	< 2	< 10	7	< 10	2	12	0.32	2.53

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	74	1070	1	25	95	122	7.32	246	< 10	742	0.9	4	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1010	2	23	95	123	6.82	244	< 10	665	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1040	2	23	96	125	7.04	246	< 10	697	0.9	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
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GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz)		42.5				7.58																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2260	783	< 1	35	59	252	2.94	8		80	0.8	10	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2200	744	< 1	32	58	257	2.79	8		78	0.8	9	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	753	< 1	33	62	255	2.87	7		83	0.8	13	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4260	852	< 1	31	76	322	2.81	7		63	0.7	19	0.40	20
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4380	841	< 1	29	81	331	2.82	7		61	0.7	19	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4520	859	< 1	34	84	326	2.92	6		68	0.7	23	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.9	282	3500	527	13	25	> 5000	> 10000	1.76	82			0.6	7	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.6	280	3560	519	13	23	> 5000	> 10000	1.70	78			0.6	7	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								68.2	281	3570	525	13	24	> 5000	> 10000	1.70	77			0.6	6	1.66	29
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas										363	167	< 1	219	9	27	7.26			132	1.0	2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										374	172	1	232	10	27	7.37			138	1.0	5	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							527																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							521																
Oreas E1336 (Fire Assay) Cert							510																
1225003005 Orig								0.2	< 0.5	16	476	< 1	11	8	118	3.45	8	< 10	46	< 0.5	4	1.59	9
1225003005 Dup								0.2	< 0.5	17	489	< 1	12	7	123	3.46	7	< 10	47	< 0.5	4	1.60	11
1225003285 Orig							51																
1225003285 Dup							37																
1226009003 Orig																							
1226009003 Dup																							
1226009118 Orig							143	0.3	< 0.5	74	540	2	14	2	145	2.77	6	15	69	< 0.5	6	1.23	9
1226009118 Dup							101	0.3	< 0.5	77	553	2	14	4	150	2.88	5	16	69	< 0.5	5	1.28	9
1225003257 Orig																							
1225003257 Dup																							
1226027216 Orig							65																
1226027216 Dup							64																
1233004111 Orig								0.4	1.4	11	655	1	16	9	266	1.89	6	< 10	66	< 0.5	3	1.65	9
1233004111 Dup								0.4	1.2	11	655	2	16	10	274	1.88	5	< 10	65	< 0.5	< 2	1.66	8
1226027073 Orig																							
1226027073 Dup																							
1225003320 Orig							48																
1225003320 Dup							42																
1226008299 Orig								0.8	< 0.5	373	279	1	11	3	31	2.04	10	< 10	41	< 0.5	7	0.89	9
1226008299 Dup								1.0	< 0.5	363	283	1	11	4	31	2.04	9	< 10	39	< 0.5	9	0.90	9
1226026123 Orig	29.8	27.7	-2.10	45.3	0.610																		
1226026123 Dup	29.8	27.5	-2.22	45.3	0.608																		
1226026078 Orig							166																
1226026078 Dup							181																
1226026035 Orig							71																
1226026035 Dup							89																
1225003192 Orig								< 0.2	< 0.5	20	444	< 1	9	9	87	3.74	7	< 10	49	< 0.5	2	1.88	7
1225003192 Dup								0.2	< 0.5	21	456	< 1	9	8	89	3.86	8	< 10	52	< 0.5	4	1.92	7
1226018128 Orig																							
1226018128 Dup																							
1225004066 Orig								0.8	< 0.5	183	492	5	19	5	75	2.54	15	< 10	42	< 0.5	2	1.53	10
1225004066 Dup								0.9	< 0.5	186	499	5	20	4	80	2.59	14	< 10	41	< 0.5	2	1.56	9
1225005065 Orig							166																
1225005065 Dup							154																
1225007060 Orig																							
1225007060 Dup																							
1225007027 Orig							77	0.5	1.3	97	551	3	19	5	372	1.78	11	< 10	26	< 0.5	5	1.37	10
1225007027 Dup							87	0.5	1.4	95	556	3	18	6	371	1.80	9	< 10	26	< 0.5	5	1.38	10
1225007087 Orig							71																
1225007287 Orig	16.9	8.77	-8.10	21.1	0.415																		
1225007287 Dup	16.9	8.76	-8.11	21.1	0.414																		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225007243 Orig																							
1225007243 Dup																							
1434002023 Orig								0.4	< 0.5	169	903	< 1	75	< 2	83	5.29	4	< 10	44	< 0.5	3	5.29	30
1434002023 Dup								0.4	< 0.5	173	933	< 1	76	< 2	87	5.43	4	< 10	46	< 0.5	3	5.47	31
1225014210 Orig																							
1225014210 Dup																							
1225009155 Orig							659																
1225009155 Dup							690																
1225009138 Orig																							
1225009138 Dup																							
1225009090 Orig							164																
1225009090 Dup							163																
1233005028 Orig								0.2	< 0.5	21	431	3	19	2	83	1.09	6	< 10	51	< 0.5	< 2	1.38	9
1233005028 Dup								< 0.2	< 0.5	23	436	2	15	3	84	1.11	6	< 10	53	< 0.5	< 2	1.41	8
1225009104 Orig							81																
1225009104 Dup							79																
1225009199 Orig																							
1225009199 Dup																							
1226009216 Orig						9.08																	
1226009216 Dup						9.04																	
1225006092 Orig	67.2	18.5	-48.7	77.5	0.238			12.2	2.6	62	508	2	15	66	709	1.19	90	< 10	38	< 0.5	< 2	0.94	11
1225006092 Dup	67.2	18.5	-48.6	77.5	0.239			13.2	2.8	62	488	2	14	65	671	1.20	78	< 10	39	< 0.5	3	0.90	10
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	79	6.15	20	2	1.20	< 10	0.41	0.126	0.034	0.01	4	18	31		< 1	< 2	< 10	185	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.45	20	1	1.18	< 10	0.38	0.121	0.032	0.01	3	18	30		< 1	< 2	< 10	172	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	78	5.79	20	2	1.22	< 10	0.39	0.123	0.033	0.01	4	19	31		< 1	< 2	< 10	176	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
SGR-1b Meas																						27.9	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.50
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.12	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.32	< 10		0.50	39	1.36	0.035	0.061	0.37	2	4	18			< 2	< 10	39	< 10	22	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	4.88	< 10		0.51	38	1.28	0.033	0.060	0.35	2	4	17			< 2	< 10	37	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.26	< 10		0.52	39	1.32	0.035	0.062	0.36	3	4	18			< 2	< 10	38	< 10	19	33		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	35	1.39		0.056	0.64	3	4	15			< 2	< 10	36	< 10	19	27		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.72	< 10		0.43	35	1.37		0.057	0.65	< 2	4	15			< 2	< 10	36	< 10	17	33		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.12	< 10		0.45	36	1.41		0.059	0.67	2	4	16			< 2	< 10	37	< 10	18	35		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	29	3.36	10	4	0.39	20	0.43	0.173	0.033	4.55	124	2	20			< 2	< 10	14	< 10	8	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.27	10	4	0.38	20	0.43	0.167	0.032	4.62	119	2	19			< 2	< 10	13	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.30	10	4	0.39	20	0.43	0.169	0.032	4.59	119	2	19			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	338	14.2	20	< 1	0.12	10	0.18	0.051	0.021	0.02		26	15	0.13		< 2	< 10	212		4	20		
OREAS 45f (Aqua	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	342	14.8	20	< 1	0.12	11	0.18	0.053	0.021	0.02		27	16	0.13		< 2	< 10	216		4	20		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225003005 Orig	125	2.35	10	< 1	0.15	19	0.98	0.140	0.049	0.48	< 2	1	141	0.02	< 1	< 2	< 10	17	< 10	3	3		
1225003005 Dup	125	2.39	10	< 1	0.15	19	0.99	0.141	0.050	0.49	< 2	1	140	0.02	< 1	< 2	< 10	17	< 10	3	3		
1225003285 Orig																							
1225003285 Dup																							
1226009003 Orig																						0.19	0.83
1226009003 Dup																						0.20	0.81
1226009118 Orig	214	2.82	< 10	< 1	0.32	13	1.16	0.153	0.036	0.79	< 2	1	76	0.05	1	< 2	< 10	17	< 10	2	13		
1226009118 Dup	219	2.94	< 10	1	0.32	13	1.21	0.157	0.038	0.82	< 2	1	79	0.05	2	< 2	< 10	18	< 10	2	13		
1225003257 Orig																						0.61	0.40
1225003257 Dup																						0.59	0.42
1226027216 Orig																							
1226027216 Dup																							
1233004111 Orig	225	2.22	< 10	< 1	0.32	15	0.86	0.115	0.043	0.37	< 2	2	57	0.08	< 1	< 2	< 10	25	< 10	3	14	0.40	0.36
1233004111 Dup	221	2.21	< 10	< 1	0.32	16	0.85	0.112	0.043	0.36	< 2	2	57	0.08	< 1	< 2	< 10	25	< 10	3	14	0.39	0.36
1226027073 Orig																						0.20	1.88
1226027073 Dup																						0.21	1.86
1225003320 Orig																							
1225003320 Dup																							
1226008299 Orig	154	3.97	< 10	< 1	0.27	12	0.88	0.068	0.036	2.20	< 2	< 1	56	0.03	< 1	< 2	< 10	11	< 10	3	20		
1226008299 Dup	160	4.03	< 10	< 1	0.26	12	0.89	0.068	0.036	2.25	< 2	< 1	55	0.03	3	< 2	< 10	11	< 10	3	20		
1226026123 Orig																							
1226026123 Dup																							
1226026078 Orig																						0.26	2.78
1226026078 Dup																						0.26	2.75
1226026035 Orig																							
1226026035 Dup																							
1225003192 Orig	102	1.95	10	< 1	0.20	17	0.93	0.182	0.045	0.35	< 2	1	158	0.01	< 1	< 2	< 10	14	< 10	3	5		
1225003192 Dup	107	2.01	10	< 1	0.21	17	0.96	0.187	0.045	0.36	< 2	1	161	0.01	< 1	< 2	< 10	15	< 10	3	7		
1226018128 Orig																						0.52	1.44
1226018128 Dup																						0.53	1.46
1225004066 Orig	358	2.99	< 10	< 1	0.29	14	0.71	0.264	0.040	2.05	< 2	1	130	0.04	1	< 2	< 10	18	< 10	3	17	0.32	1.99
1225004066 Dup	362	3.02	< 10	< 1	0.30	14	0.73	0.270	0.041	2.03	2	1	131	0.04	1	< 2	< 10	19	< 10	3	17	0.30	1.98
1225005065 Orig																							
1225005065 Dup																							
1225007060 Orig																						0.22	2.81
1225007060 Dup																						0.21	2.62
1225007027 Orig	252	3.09	< 10	< 1	0.20	16	1.04	0.141	0.043	2.90	< 2	1	50	< 0.01	< 1	< 2	< 10	14	< 10	3	22		
1225007027 Dup	255	3.07	< 10	< 1	0.21	16	1.04	0.143	0.043	2.87	< 2	1	51	< 0.01	< 1	< 2	< 10	14	< 10	3	22		
1225007087 Orig																							
1225007287 Orig																							
1225007287 Dup																							
1225007243 Orig																						0.30	0.69
1225007243 Dup																						0.32	0.68
1434002023 Orig	208	8.32	10	2	0.22	< 10	2.46	0.373	0.036	0.27	2	14	127	0.13	< 1	2	< 10	282	< 10	8	3		
1434002023 Dup	217	8.51	20	2	0.23	< 10	2.51	0.382	0.037	0.27	< 2	14	130	0.13	< 1	< 2	< 10	289	< 10	8	3		
1225014210 Orig																						0.20	1.35
1225014210 Dup																						0.19	1.40
1225009155 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225009155 Dup																							
1225009138 Orig																						1.07	2.46
1225009138 Dup																						1.16	2.66
1225009090 Orig																							
1225009090 Dup																							
1233005028 Orig	265	1.95	< 10	< 1	0.29	14	0.72	0.055	0.041	0.37	< 2	1	25	0.06	< 1	< 2	< 10	19	< 10	2	12		
1233005028 Dup	271	1.97	< 10	< 1	0.30	14	0.74	0.056	0.042	0.37	< 2	1	26	0.06	1	< 2	< 10	20	< 10	2	12		
1225009104 Orig																							
1225009104 Dup																							
1225009199 Orig																						0.25	0.65
1225009199 Dup																						0.27	0.67
1226009216 Orig																							
1226009216 Dup																							
1225006092 Orig	162	2.45	< 10	< 1	0.23	17	0.81	0.038	0.053	2.59	8	< 1	32	< 0.01	3	< 2	< 10	7	< 10	2	13	0.33	2.40
1225006092 Dup	163	2.36	< 10	< 1	0.23	16	0.79	0.039	0.052	2.46	8	< 1	32	< 0.01	1	< 2	< 10	7	< 10	2	12	0.32	2.67
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10419**
Report Date:	**27-Oct-20**
Date Submitted:	**31-Aug-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

126 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-07 21:07:14
4F-C, S	Infrared	2020-09-29 21:34:30

REPORT **A20-10419**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample #75 F001008 was insufficient for any further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-10419**
Report Date: **27-Oct-20**
Date Submitted: **31-Aug-20**
Your Reference: **June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

126 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-24 13:12:48
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-28 22:52:07

REPORT **A20-10419**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample #75 F001008 was insufficient for any further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0144-001							1610	1.1	0.6	508	214	< 1	11	4	38	1.57	10	< 10	23	< 0.5	27	0.52	9
1231038001	1.76	20.7	18.9	6.74	3.07	9.56	9	0.3	< 0.5	59	406	1	20	4	93	1.09	6	< 10	95	< 0.5	< 2	1.12	7
1231038067	1.56	26.8	25.2	1.53	17.5	9.59	6	< 0.2	< 0.5	39	298	< 1	17	3	59	1.19	< 2	< 10	70	< 0.5	< 2	1.24	6
1231038021	2.15	23.0	20.9	24.2	0.952	9.04	26	0.9	< 0.5	87	542	< 1	14	5	83	1.18	9	< 10	63	< 0.5	< 2	1.19	6
1324007302	59.3	7.18	-52.1	64.0	0.112	8.04	46	0.2	< 0.5	21	388	< 1	12	< 2	63	2.87	6	< 10	30	< 0.5	6	1.53	6
GC20-0145-001							351	0.8	< 0.5	340	187	< 1	8	8	59	1.66	6	< 10	28	< 0.5	2	0.58	9
GC20-0146-001							313	0.3	< 0.5	207	182	< 1	8	4	43	1.28	11	< 10	32	< 0.5	3	0.66	5
GC20-0146-018							152	0.3	< 0.5	41	220	< 1	11	< 2	82	1.77	6	< 10	40	< 0.5	5	0.73	8
GC20-0143-011							688	0.8	< 0.5	445	186	< 1	9	< 2	25	1.59	8	< 10	33	< 0.5	7	0.51	4
GC20-0152-001							103	< 0.2	< 0.5	27	377	2	13	< 2	51	2.80	5	< 10	28	< 0.5	6	1.14	10
1324007281	101	5.68	-95.8	107	0.0532	7.81	358	0.5	< 0.5	30	429	< 1	14	3	71	1.64	11	< 10	21	< 0.5	9	0.59	7
1324007313	64.3	3.82	-60.4	66.8	0.0572	8.32	189	0.6	< 0.5	145	363	< 1	13	< 2	192	2.29	14	< 10	31	< 0.5	7	0.94	7
1324016208	56.8	14.4	-42.3	59.7	0.242	8.66	155	0.9	< 0.5	26	376	< 1	17	< 2	173	2.51	11	< 10	30	< 0.5	9	1.33	8
1324010195	88.3	6.76	-81.6	95.9	0.0706	8.32	777	1.8	2.4	700	370	< 1	17	3	633	2.34	13	< 10	22	< 0.5	7	0.94	9
1324007433	60.6	16.3	-44.3	64.3	0.253	8.26	112	0.5	< 0.5	35	504	< 1	8	3	137	2.13	10	< 10	29	< 0.5	7	0.95	5
1231040615	51.6	5.53	-46.0	56.0	0.0986	8.41	131	5.3	< 0.5	43	619	< 1	38	28	178	1.96	82	< 10	20	1.0	< 2	0.65	16
1324007440	14.0	13.7	-0.294	17.8	0.769	8.60	218	0.4	1.1	38	554	< 1	14	5	335	2.50	9	< 10	39	< 0.5	2	1.36	7
1231040515	33.0	15.7	-17.3	37.4	0.421	8.72	148	1.7	< 0.5	19	779	1	16	13	64	2.17	19	< 10	39	< 0.5	< 2	1.40	8
1324007384	54.4	11.6	-42.8	58.8	0.197	8.49	912	0.9	< 0.5	188	432	< 1	12	4	91	2.38	7	< 10	26	< 0.5	8	0.98	7
1231040576	46.3	8.18	-38.2	51.5	0.159	8.22	119	6.3	< 0.5	30	904	< 1	23	36	197	2.01	40	< 10	30	0.5	4	0.62	12
1324007381	86.4	7.64	-78.8	91.6	0.0835	8.13	1700	0.9	0.8	326	365	< 1	12	4	127	1.73	24	< 10	20	< 0.5	9	0.42	10
1324007474	27.5	14.7	-12.8	30.6	0.481	8.76	272	0.5	< 0.5	69	584	< 1	13	< 2	218	2.73	10	< 10	45	< 0.5	7	1.45	7
GC20-0170-001							173	1.0	< 0.5	244	465	10	21	< 2	78	2.54	13	< 10	32	< 0.5	3	0.42	16
132400489	53.0	11.2	-41.8	56.3	0.200	8.48	113	0.6	< 0.5	70	640	< 1	15	3	167	2.04	21	< 10	31	< 0.5	6	0.91	8
GC20-0171-008							219	0.3	< 0.5	17	267	2	11	< 2	62	3.76	4	< 10	33	< 0.5	3	1.79	7
1231040585	35.1	13.3	-21.8	38.3	0.349	8.43	147	1.8	< 0.5	28	987	< 1	29	27	99	1.18	39	< 10	47	< 0.5	< 2	0.80	10
1231040521	36.2	31.5	-4.77	40.1	0.785	8.74	91	2.0	< 0.5	27	816	< 1	14	14	75	1.56	41	< 10	39	< 0.5	< 2	1.83	7
1324016372	105	73.7	-31.3	117	0.630	8.43	338	2.7	3.5	151	1000	< 1	112	6	821	2.94	31	< 10	18	0.6	2	3.09	30
GC20-0163-003							134	0.4	0.7	83	343	2	13	< 2	39	3.12	6	< 10	46	< 0.5	18	1.03	10
1324007417	82.5	12.5	-70.0	87.6	0.143	8.27	3330	0.6	< 0.5	110	334	< 1	12	5	72	1.73	20	< 10	22	< 0.5	15	0.59	9
1324007400	61.0	8.37	-52.7	64.3	0.130	8.48	68	0.7	< 0.5	51	319	< 1	18	3	73	1.59	18	< 10	27	< 0.5	8	0.66	9
GC20-0163-011							293	0.3	< 0.5	143	297	2	14	< 2	29	2.92	6	< 10	38	< 0.5	6	0.80	6
1231040630	30.4	15.5	-14.9	35.8	0.434	8.78	209	3.4	1.1	34	1570	< 1	14	91	294	0.87	50	< 10	32	< 0.5	< 2	0.82	7
1231040664	28.8	2.34	-26.5	32.5	0.0719	8.18	119	1.2	< 0.5	29	1500	< 1	12	22	86	0.83	72	< 10	26	< 0.5	< 2	0.22	7
1231040504	56.8	12.0	-44.8	64.0	0.187	8.75	3630	13.0	5.4	162	533	< 1	21	692	1900	1.51	50	< 10	30	< 0.5	2	0.92	9
F001010							3300	2.4	< 0.5	37	241	14	12	13	41	1.39	3	< 10	49	< 0.5	< 2	0.90	7
GC20-0149-005							142	0.5	< 0.5	46	291	< 1	14	5	26	2.87	21	< 10	35	< 0.5	8	1.27	7
1231038090	71.4	39.2	-32.2	79.3	0.495	8.43	137	3.3	0.7	38	1360	< 1	26	34	238	2.02	97	< 10	24	< 0.5	2	2.17	11
GC20-0167-002							36	0.3	< 0.5	30	248	< 1	15	< 2	70	3.94	3	< 10	25	< 0.5	9	1.67	8
1231038047	3.21	32.2	29.0	14.4	2.24	9.35	22	0.4	< 0.5	27	430	< 1	12	3	68	1.28	11	< 10	71	< 0.5	< 2	1.54	6
1231038049	17.7	13.7	-4.01	22.4	0.612	9.10	23	0.4	< 0.5	26	313	< 1	17	5	78	1.14	8	< 10	78	< 0.5	< 2	0.86	7
1324016268	81.4	8.61	-72.8	87.3	0.0987	8.13	223	1.0	1.3	72	587	< 1	21	2	331	2.87	25	< 10	25	< 0.5	6	1.33	15
GC20-0164-013							433	0.4	< 0.5	110	400	2	21	< 2	49	3.30	10	< 10	21	< 0.5	15	0.55	20
1324016365	143	25.9	-117	171	0.152	7.86	357	4.5	2.1	154	1260	< 1	53	7	690	3.52	67	< 10	15	< 0.5	6	1.46	36
1324016293	43.6	9.25	-34.4	48.4	0.191	8.60	191	1.2	1.2	42	709	< 1	16	3	361	3.03	29	< 10	34	< 0.5	3	1.42	10
GC20-0154-012							434	0.4	< 0.5	139	308	2	11	< 2	33	3.02	9	< 10	27	< 0.5	4	1.08	8
GC20-0156-006							260	0.3	0.6	78	343	1	13	3	52	2.84	9	< 10	24	< 0.5	10	1.11	12
GC20-0151-008							30	< 0.2	< 0.5	15	322	2	12	< 2	36	2.33	3	< 10	40	< 0.5	5	0.53	11
GC20-0162-019							788	0.5	< 0.5	287	392	< 1	15	< 2	41	3.01	8	< 10	32	< 0.5	4	0.71	14

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324007343	69.5	5.02	-64.4	73.2	0.0686	8.16	328	1.0	< 0.5	339	365	< 1	13	2	45	2.08	11	< 10	29	< 0.5	12	0.79	6
GC20-0169-001							40	0.3	< 0.5	27	387	5	11	< 2	53	2.67	10	< 10	30	< 0.5	5	0.98	6
GC20-0161-017							140	0.3	< 0.5	77	330	1	14	< 2	31	2.73	2	< 10	37	< 0.5	7	0.77	6
1231038027	25.9	45.7	19.8	34.0	1.34	8.78	163	4.5	< 0.5	84	1740	< 1	24	54	162	1.52	91	< 10	27	< 0.5	4	2.40	9
1231038150	52.5	20.1	-32.4	58.2	0.346	8.50	52	1.6	< 0.5	20	1160	< 1	25	23	97	2.33	51	< 10	32	< 0.5	3	1.20	10
1324007327	69.9	16.5	-53.3	75.3	0.220	8.41	118	1.0	< 0.5	171	385	8	15	< 2	169	1.84	6	< 10	27	< 0.5	12	1.18	8
F001014							1050	3.1	< 0.5	31	251	< 1	9	16	43	1.37	< 2	< 10	44	< 0.5	2	0.86	8
GC20-0174-005							218	0.6	< 0.5	186	294	2	14	6	34	2.13	14	< 10	31	< 0.5	10	0.89	14
1324016224	43.7	7.52	-36.2	47.2	0.160	8.74	126	1.5	0.6	49	528	< 1	16	4	222	2.50	17	< 10	36	< 0.5	9	1.02	6
1324007514	32.8	8.15	-24.7	36.8	0.222	8.67	273	0.9	2.2	23	917	< 1	12	10	671	2.95	25	< 10	41	< 0.5	4	1.57	6
1324016343	33.1	27.7	-5.41	37.7	0.736	8.90	119	1.2	3.0	33	702	< 1	19	5	871	2.56	16	< 10	54	< 0.5	5	1.85	8
1324013234	46.6	31.2	-15.3	51.8	0.603	8.77	61	1.0	0.5	199	304	< 1	10	4	148	1.12	5	< 10	32	< 0.5	3	1.47	5
1324007493	29.0	21.3	-7.64	33.4	0.638	8.75	316	2.7	< 0.5	527	672	< 1	18	2	114	2.06	8	< 10	45	< 0.5	< 2	1.50	6
GC20-0173-013							748	0.9	< 0.5	238	275	< 1	13	< 2	44	2.76	5	< 10	45	< 0.5	2	1.41	5
GC20-0172-010							199	0.3	< 0.5	97	292	1	13	< 2	41	2.58	14	< 10	30	< 0.5	4	0.49	12
GC20-0187-003							46	0.6	< 0.5	19	335	< 1	18	4	34	2.33	12	< 10	30	< 0.5	9	1.27	5
GC20-0191-001							32	0.3	< 0.5	60	240	< 1	12	< 2	38	2.00	7	< 10	42	< 0.5	6	0.85	5
GC20-0180-006							73	< 0.2	< 0.5	11	418	< 1	11	< 2	53	2.63	3	< 10	51	< 0.5	4	0.63	8
GC20-0158-001							133	0.4	< 0.5	13	388	1	16	8	62	2.05	13	< 10	32	< 0.5	5	0.97	6
1231037150	10.6	35.2	24.5	10.4	3.38	9.39	19	< 0.2	< 0.5	15	417	< 1	18	< 2	105	1.28	3	< 10	73	< 0.5	4	1.60	7
GC20-0183-009							310	0.5	< 0.5	263	383	< 1	15	< 2	54	2.81	8	< 10	26	< 0.5	5	0.64	15
1231040812	76.1	37.0	-39.2	84.5	0.437	8.57	239	3.2	1.1	34	1100	3	25	29	396	2.05	84	< 10	22	< 0.5	4	2.04	12
GC20-0177-002							244	0.5	< 0.5	29	347	< 1	21	5	41	2.01	19	< 10	20	< 0.5	7	1.19	9
1324013264	29.5	18.7	-10.7	33.1	0.567	8.88	224	0.3	< 0.5	37	397	1	17	< 2	99	1.99	4	< 10	40	< 0.5	5	1.17	8
GC20-0192-005							27	0.2	< 0.5	16	199	< 1	13	< 2	32	2.79	2	13	37	0.6	8	0.83	9
F001008								4.0	< 0.5	22	187	15	7	19	37	1.19	< 2	< 10	40	< 0.5	< 2	0.75	4
1231040805	18.4	9.76	-8.67	21.4	0.455	8.53	14	0.3	< 0.5	13	688	< 1	21	9	89	1.88	11	< 10	52	< 0.5	< 2	0.75	8
1231040501	21.5	38.4	17.0	25.1	1.53	9.10	22	1.6	< 0.5	21	555	< 1	13	9	52	1.02	45	< 10	34	< 0.5	< 2	1.90	6
GC20-0181-003							28	0.3	< 0.5	35	346	1	11	< 2	36	2.74	4	< 10	49	< 0.5	11	1.03	10
1231040527	32.5	42.4	9.90	36.8	1.15	8.94	59	3.3	< 0.5	29	802	2	16	17	69	0.75	79	< 10	29	< 0.5	< 2	1.87	8
1231040666	19.4	8.01	-11.4	23.0	0.349	8.55	83	1.1	< 0.5	30	1010	< 1	18	22	119	1.08	22	< 10	50	< 0.5	< 2	0.66	9
1231040645	16.5	10.1	-6.34	19.9	0.508	8.76	64	1.1	< 0.5	34	995	< 1	16	11	66	0.94	21	< 10	40	< 0.5	< 2	0.63	7
1231037326	8.13	18.7	10.6	7.96	2.35	9.50	10	0.3	< 0.5	41	453	1	17	< 2	99	1.54	5	< 10	93	< 0.5	< 2	1.14	7
GC20-0190-001							67	0.4	< 0.5	52	419	< 1	16	4	80	2.79	7	14	38	< 0.5	10	1.16	10
GC20-0159-005							538	0.2	< 0.5	30	534	< 1	39	2	81	2.26	5	< 10	49	< 0.5	9	1.35	11
1231037133	8.74	35.8	27.1	11.9	3.00	9.42	14	0.3	< 0.5	12	457	< 1	17	3	130	1.10	5	< 10	68	< 0.5	< 2	1.41	6
GC20-0189-013							429	0.4	< 0.5	68	376	1	13	< 2	41	2.89	< 2	< 10	43	< 0.5	12	0.94	6
1231037161	17.5	18.2	0.690	21.7	0.836	8.68	60	2.3	< 0.5	70	510	< 1	66	8	92	2.41	26	< 10	55	< 0.5	< 2	1.30	16
1231037205	10.9	3.12	-7.82	10.7	0.291	8.26	17	0.4	< 0.5	8	181	< 1	12	3	31	2.23	6	< 10	42	< 0.5	< 2	0.49	6
GC20-0186-002							38	0.2	< 0.5	20	600	< 1	13	3	91	1.97	42	< 10	49	< 0.5	< 2	1.94	7
1231037104	24.9	15.6	-9.33	29.1	0.535	8.58	76	8.1	1.2	32	1250	< 1	26	79	358	1.30	36	< 10	49	< 0.5	< 2	0.90	9
GC20-0196-003							79	0.3	< 0.5	48	342	2	14	< 2	42	3.33	6	< 10	37	< 0.5	8	1.20	9
GC20-0197-002							115	0.2	< 0.5	55	293	< 1	13	< 2	26	2.96	7	< 10	34	< 0.5	5	0.97	6
GC20-0194-001							79	0.2	< 0.5	61	284	< 1	16	< 2	25	2.86	7	< 10	28	< 0.5	7	1.11	4
F001003							1070	3.0	< 0.5	30	249	< 1	8	15	43	1.35	< 2	< 10	45	< 0.5	< 2	0.85	7
GC20-0201-002							544	7.1	3.2	92	410	2	22	12	948	3.01	45	< 10	21	< 0.5	7	0.62	17
GC20-0202-001							535	1.6	0.6	298	370	10	23	4	150	3.09	34	< 10	30	< 0.5	6	0.82	19
1231037062	66.0	5.45	-60.6	72.0	0.0757	7.94	73	2.7	1.1	24	446	< 1	45	42	325	1.21	54	< 10	23	< 0.5	3	0.58	16
1231037283	7.50	1.62	-5.88	7.35	0.220	8.17	16	0.3	< 0.5	8	147	< 1	10	< 2	25	2.26	4	< 10	30	< 0.5	< 2	0.50	6

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324013137	49.6	10.6	-39.0	54.8	0.194	8.59	345	0.5	< 0.5	185	260	< 1	13	< 2	49	1.85	13	< 10	33	< 0.5	6	0.85	7
1231037046	30.1	43.2	13.1	35.8	1.21	8.53	63	1.9	1.2	35	1230	< 1	106	42	375	1.93	62	< 10	50	< 0.5	4	2.00	18
1231037001	17.7	52.9	35.2	22.4	2.37	8.89	32	1.2	< 0.5	46	786	3	16	9	66	0.94	40	< 10	32	< 0.5	< 2	2.20	6
1231037049	27.5	12.9	-14.6	33.4	0.386	8.79	88	20.6	0.9	43	1110	< 1	15	100	280	0.88	142	< 10	30	< 0.5	< 2	1.67	7
1324013117	32.2	6.48	-25.7	35.8	0.181	8.76	131	0.4	< 0.5	80	374	< 1	13	< 2	123	2.50	15	< 10	40	< 0.5	4	0.53	7
1231037224	16.3	7.69	-8.56	15.9	0.483	8.69	62	1.0	< 0.5	18	275	< 1	13	18	117	0.68	123	< 10	35	< 0.5	< 2	0.46	4
1231037007	52.8	27.2	-25.6	58.2	0.468	8.52	61	11.3	1.4	59	1020	< 1	19	192	369	1.03	92	< 10	28	< 0.5	< 2	1.44	8
1231037110	33.8	19.4	-14.4	38.9	0.499	8.64	71	1.7	< 0.5	19	544	< 1	20	21	150	1.97	31	< 10	34	< 0.5	< 2	1.56	9
1231037075	11.7	26.2	14.5	16.2	1.61	9.08	18	0.4	< 0.5	10	640	< 1	21	7	150	2.21	7	< 10	62	< 0.5	< 2	1.72	7
1231037247	43.9	18.1	-25.9	52.1	0.347	8.43	348	4.9	10.2	68	1030	< 1	16	1560	2270	0.99	67	< 10	27	< 0.5	< 2	0.82	7
1324013211	25.0	27.5	2.46	28.8	0.954	8.90	64	0.2	< 0.5	34	414	2	13	5	65	1.57	4	< 10	107	< 0.5	2	1.46	6
1231037312	9.27	4.72	-4.55	12.3	0.385	8.47	90	2.6	< 0.5	23	439	< 1	10	15	100	1.22	11	< 10	38	< 0.5	< 2	0.31	7
1324013165	40.6	8.10	-32.5	45.3	0.179	8.56	525	0.5	< 0.5	279	268	< 1	14	< 2	45	1.97	13	< 10	31	< 0.5	3	0.69	6
GC20-0200-009							452	1.4	< 0.5	267	200	5	20	8	116	2.04	66	< 10	20	< 0.5	4	0.36	18
1324013202	59.1	8.86	-50.2	63.1	0.140	8.32	40	0.3	< 0.5	31	200	< 1	19	5	56	2.03	13	< 10	27	< 0.5	7	0.96	6
GC20-0208-002							48	< 0.2	< 0.5	33	467	< 1	11	4	86	1.19	7	< 10	82	< 0.5	< 2	1.56	5
GC20-0198-013							1090	17.0	24.3	118	520	7	26	7	5660	2.78	48	< 10	19	< 0.5	14	0.74	18
F001002							3380	2.4	< 0.5	35	234	15	12	13	40	1.34	< 2	< 10	48	< 0.5	< 2	0.87	6
1231036017	84.2	10.7	-73.4	91.6	0.117	8.23	327	11.8	1.4	33	703	3	25	79	709	0.64	77	< 10	19	< 0.5	3	0.46	17
GC20-0001-018							44	0.9	< 0.5	28	2010	< 1	13	< 2	111	3.25	3	< 10	90	1.2	< 2	5.47	27
1324001134	32.1	5.44	-26.6	35.5	0.153	8.67	37	0.5	< 0.5	28	386	< 1	8	7	70	2.62	13	< 10	32	< 0.5	< 2	1.20	6
F000712							3400	2.4	< 0.5	35	232	14	12	12	39	1.32	3	< 10	50	< 0.5	< 2	0.87	7
1231034426	48.0	33.7	-14.4	54.5	0.617	8.81	712	4.3	2.9	64	954	< 1	10	659	873	0.55	72	< 10	32	< 0.5	< 2	1.50	6
1231034259	34.8	35.5	0.752	38.9	0.914	8.74	152	0.6	1.9	36	761	< 1	8	77	626	1.29	29	< 10	31	< 0.5	< 2	1.54	6
1231034349	32.1	34.7	2.64	36.1	0.961	8.73	439	0.7	0.7	25	835	< 1	9	55	271	1.67	29	< 10	36	< 0.5	< 2	1.78	6
1324001351	60.8	23.7	-37.2	66.5	0.356	8.70	465	4.9	1.0	23	731	< 1	14	53	260	1.99	35	< 10	24	< 0.5	3	1.69	7
GC-20-0056-020							244	1.0	1.2	29	490	< 1	13	< 2	363	2.42	12	< 10	35	< 0.5	5	0.67	8
F000740							130	1.6	< 0.5	57	343	4	13	8	65	1.66	< 2	< 10	87	< 0.5	< 2	1.20	12

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0144-001	231	4.07	< 10	< 1	0.20	< 10	0.58	0.050	0.030	2.63	3	< 1	30	0.02	3	4	< 10	6	< 10	2	15		
1231038001	398	2.05	< 10	< 1	0.36	18	0.59	0.080	0.040	0.23	< 2	2	32	0.11	1	< 2	< 10	23	< 10	2	19	0.32	0.22
1231038067	352	1.89	< 10	< 1	0.24	17	0.75	0.075	0.040	0.06	< 2	2	30	0.10	4	3	< 10	20	< 10	3	12	0.38	0.05
1231038021	250	1.82	< 10	< 1	0.30	13	0.60	0.082	0.036	0.79	< 2	1	26	0.06	< 1	< 2	< 10	18	< 10	2	12	0.31	0.79
1324007302	195	2.15	< 10	< 1	0.16	15	0.87	0.263	0.039	2.10	2	< 1	147	0.01	5	< 2	< 10	7	< 10	2	16	0.17	2.09
GC20-0145-001	167	2.84	< 10	< 1	0.20	11	0.51	0.067	0.031	1.93	< 2	< 1	33	0.03	4	< 2	< 10	5	< 10	1	15		
GC20-0146-001	134	2.36	< 10	< 1	0.22	11	0.70	0.039	0.031	1.47	< 2	< 1	17	< 0.01	2	< 2	< 10	6	< 10	2	10		
GC20-0146-018	115	2.40	< 10	< 1	0.26	11	1.21	0.042	0.037	1.56	< 2	< 1	21	< 0.01	< 1	< 2	< 10	8	< 10	2	17		
GC20-0143-011	192	2.68	< 10	< 1	0.25	12	0.45	0.078	0.031	1.75	< 2	< 1	39	0.02	< 1	< 2	< 10	5	< 10	2	16		
GC20-0152-001	153	3.58	< 10	< 1	0.15	14	1.43	0.121	0.036	0.77	< 2	1	65	0.03	1	< 2	< 10	15	< 10	2	12		
1324007281	269	3.26	< 10	< 1	0.17	14	0.86	0.130	0.036	3.42	< 2	< 1	41	< 0.01	< 1	< 2	< 10	7	< 10	2	23	0.22	3.49
1324007313	197	2.23	< 10	< 1	0.14	15	0.78	0.204	0.038	2.19	< 2	< 1	79	< 0.01	4	2	< 10	8	< 10	2	19	0.09	2.18
1324016208	254	2.47	< 10	< 1	0.18	11	1.04	0.212	0.034	1.88	< 2	1	77	< 0.01	7	< 2	< 10	12	< 10	2	19	0.25	1.95
1324010195	223	3.53	< 10	< 1	0.14	11	1.18	0.184	0.034	3.06	< 2	< 1	47	0.01	4	3	< 10	15	< 10	2	21	0.14	3.13
1324007433	202	2.84	< 10	< 1	0.21	17	1.07	0.146	0.041	2.00	< 2	< 1	51	< 0.01	< 1	< 2	< 10	7	< 10	2	15	0.27	2.10
1231040615	200	3.39	< 10	< 1	1.13	35	1.72	0.039	0.185	1.70	3	7	68	0.15	2	< 2	< 10	50	< 10	10	8	0.10	1.83
1324007440	243	2.01	< 10	< 1	0.18	15	1.05	0.221	0.042	1.05	< 2	1	79	0.04	< 1	< 2	< 10	13	< 10	2	9	0.16	0.58
1231040515	182	1.98	< 10	< 1	0.37	21	0.91	0.189	0.052	1.10	< 2	2	61	0.06	4	< 2	< 10	20	< 10	3	4	0.30	1.22
1324007384	170	3.08	< 10	< 1	0.17	15	1.29	0.116	0.035	1.82	3	1	45	0.02	3	< 2	< 10	11	< 10	2	15	0.23	1.92
1231040576	148	2.57	< 10	< 1	0.38	20	1.27	0.033	0.063	1.66	3	2	15	0.03	< 1	< 2	< 10	18	< 10	4	7	0.18	1.68
1324007381	167	3.88	< 10	< 1	0.19	15	1.18	0.043	0.036	2.86	3	< 1	16	< 0.01	4	< 2	< 10	7	< 10	2	19	0.17	2.99
1324007474	218	2.25	< 10	< 1	0.20	17	1.34	0.191	0.043	1.01	< 2	1	72	0.03	< 1	< 2	< 10	13	< 10	3	6	0.35	1.00
GC20-0170-001	214	4.56	< 10	< 1	0.24	< 10	1.95	0.065	0.036	2.16	< 2	2	35	0.03	1	< 2	< 10	23	< 10	3	22		
132400489	193	2.81	< 10	< 1	0.21	15	1.18	0.109	0.039	1.88	< 2	1	42	0.04	< 1	< 2	< 10	13	< 10	3	18	0.16	1.84
GC20-0171-008	168	2.03	< 10	< 1	0.16	10	1.26	0.270	0.031	1.08	< 2	1	194	< 0.01	< 1	3	< 10	11	< 10	2	15		
1231040585	190	1.70	< 10	< 1	0.32	18	0.54	0.032	0.050	1.26	< 2	1	19	0.05	< 1	< 2	< 10	12	< 10	2	13	0.27	1.25
1231040521	208	1.60	< 10	< 1	0.28	17	0.36	0.168	0.043	1.32	< 2	< 1	74	0.03	< 1	< 2	< 10	8	< 10	2	10	0.47	1.31
1324016372	314	7.72	< 10	< 1	0.57	21	2.73	0.053	0.145	3.58	4	9	75	0.17	2	< 2	< 10	111	< 10	9	20	1.05	3.82
GC20-0163-003	137	4.21	< 10	< 1	0.22	13	1.31	0.172	0.035	1.26	< 2	2	103	0.03	< 1	< 2	< 10	18	< 10	3	16		
1324007417	185	3.75	< 10	< 1	0.20	14	1.25	0.037	0.036	2.79	2	< 1	15	< 0.01	< 1	< 2	< 10	7	< 10	2	19	0.22	2.86
1324007400	245	2.36	< 10	< 1	0.25	14	0.65	0.124	0.042	2.10	3	< 1	47	< 0.01	1	3	< 10	9	< 10	2	15	0.20	2.10
GC20-0163-011	145	3.14	< 10	< 1	0.18	14	1.05	0.119	0.039	0.66	< 2	1	104	0.02	< 1	< 2	< 10	15	< 10	2	14		
1231040630	181	1.90	< 10	< 1	0.25	17	0.41	0.037	0.067	1.17	< 2	1	21	0.03	3	< 2	< 10	11	< 10	2	8	0.31	1.17
1231040664	162	1.48	< 10	< 1	0.25	16	0.32	0.026	0.046	1.06	< 2	< 1	10	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.14	1.06
1231040504	236	2.44	< 10	< 1	0.28	26	0.58	0.122	0.052	2.11	7	1	39	0.03	< 1	3	< 10	15	< 10	3	11	0.27	2.09
F001010	13	1.99	< 10	< 1	0.26	13	0.52	0.221	0.047	0.05	< 2	3	30	0.28	7	< 2	< 10	59	< 10	16	15		
GC20-0149-005	211	2.42	< 10	< 1	0.21	11	0.78	0.203	0.034	1.60	< 2	1	75	< 0.01	2	2	< 10	9	< 10	2	17		
1231038090	190	2.77	< 10	< 1	0.40	23	1.21	0.176	0.054	2.67	< 2	2	62	0.02	< 1	< 2	< 10	15	< 10	3	10	0.78	2.59
GC20-0167-002	196	2.37	< 10	< 1	0.10	15	1.20	0.432	0.037	1.31	< 2	1	194	< 0.01	2	< 2	< 10	14	< 10	2	8		
1231038047	243	1.76	< 10	< 1	0.32	13	0.62	0.088	0.038	0.47	< 2	2	30	0.07	< 1	< 2	< 10	18	< 10	2	12	0.44	0.47
1231038049	339	1.99	< 10	< 1	0.37	16	0.60	0.082	0.043	0.75	< 2	2	22	0.09	< 1	< 2	< 10	22	< 10	3	17	0.32	0.73
1324016268	222	3.86	< 10	< 1	0.20	12	1.15	0.259	0.043	2.90	2	2	95	0.04	< 1	2	< 10	24	< 10	4	24	0.16	2.85
GC20-0164-013	203	4.77	< 10	< 1	0.09	20	1.19	0.095	0.044	1.55	< 2	3	77	< 0.01	< 1	< 2	< 10	30	< 10	3	17		
1324016365	188	10.5	< 10	1	0.17	< 10	1.95	0.097	0.060	5.46	3	7	36	0.16	4	< 2	< 10	146	< 10	9	12	0.44	5.57
1324016293	187	2.77	< 10	< 1	0.28	12	1.25	0.260	0.039	1.53	< 2	1	81	0.04	2	< 2	< 10	20	< 10	3	14	0.15	1.58
GC20-0154-012	143	3.27	< 10	< 1	0.15	< 10	0.94	0.140	0.034	1.30	3	1	86	0.01	< 1	< 2	< 10	12	< 10	2	14		
GC20-0156-006	180	3.62	< 10	< 1	0.19	< 10	0.93	0.078	0.034	1.30	< 2	1	55	< 0.01	3	< 2	< 10	13	< 10	2	15		
GC20-0151-008	136	3.86	< 10	< 1	0.19	12	1.21	0.080	0.034	1.03	3	1	53	0.03	3	< 2	< 10	14	< 10	2	15		
GC20-0162-019	182	3.90	< 10	< 1	0.13	30	1.08	0.101	0.038	1.36	< 2	2	89	< 0.01	< 1	2	< 10	18	< 10	3	20		
1324007343	210	3.07	< 10	< 1	0.21	14	0.96	0.097	0.037	2.31	< 2	< 1	44	< 0.01	< 1	2	< 10	8	< 10	2	16	0.13	2.39
GC20-0169-001	112	2.64	< 10	< 1	0.12	13	1.18	0.187	0.036	1.39	< 2	1	95	< 0.01	5	< 2	< 10	12	< 10	2	19		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0161-017	162	3.07	< 10	< 1	0.17	10	1.01	0.126	0.036	0.76	< 2	1	99	0.02	1	< 2	< 10	15	< 10	2	17		
1231038027	231	2.46	< 10	< 1	0.30	20	1.15	0.098	0.049	2.33	3	1	47	< 0.01	< 1	< 2	< 10	11	< 10	3	14	0.59	1.11
1231038150	230	2.54	< 10	< 1	0.42	16	1.68	0.128	0.039	1.83	2	2	30	0.03	< 1	3	< 10	22	< 10	2	10	0.39	1.90
1324007327	214	2.54	< 10	< 1	0.17	16	1.04	0.180	0.042	2.43	< 2	1	60	< 0.01	1	< 2	< 10	11	< 10	3	18	0.29	2.46
F001014	14	2.17	< 10	< 1	0.19	14	0.42	0.256	0.036	0.03	< 2	2	36	0.37	10	< 2	< 10	52	< 10	14	25		
GC20-0174-005	229	3.01	< 10	< 1	0.23	12	0.69	0.162	0.035	1.71	< 2	< 1	70	0.03	< 1	2	< 10	10	< 10	2	12		
1324016224	240	2.36	< 10	< 1	0.18	12	0.96	0.215	0.033	1.50	< 2	< 1	75	< 0.01	1	3	< 10	9	< 10	2	14	0.19	1.54
1324007514	210	2.47	< 10	< 1	0.27	19	1.55	0.112	0.045	1.12	< 2	< 1	57	0.06	2	< 2	< 10	12	< 10	3	11	0.28	1.20
1324016343	230	2.36	< 10	< 1	0.34	14	1.10	0.228	0.042	1.23	< 2	1	70	0.04	< 1	< 2	< 10	16	< 10	3	14	0.41	1.23
1324013234	197	2.05	< 10	< 1	0.26	32	0.44	0.101	0.048	1.71	< 2	< 1	90	< 0.01	3	< 2	< 10	5	< 10	3	9	0.49	1.69
1324007493	289	2.26	< 10	< 1	0.18	11	0.90	0.207	0.032	1.07	< 2	1	70	0.02	3	4	< 10	12	< 10	2	15	0.46	1.09
GC20-0173-013	192	2.20	< 10	< 1	0.24	12	0.72	0.369	0.040	1.04	< 2	1	139	0.03	1	< 2	< 10	14	< 10	3	12		
GC20-0172-010	195	3.42	< 10	< 1	0.22	11	1.10	0.067	0.033	0.75	< 2	< 1	44	0.02	2	< 2	< 10	13	< 10	1	18		
GC20-0187-003	221	2.73	< 10	< 1	0.36	15	0.65	0.245	0.040	2.00	< 2	1	87	0.04	< 1	< 2	< 10	13	< 10	2	18		
GC20-0191-001	248	2.83	< 10	< 1	0.27	12	0.67	0.086	0.033	1.31	3	< 1	55	< 0.01	< 1	2	< 10	8	< 10	2	10		
GC20-0180-006	156	3.85	< 10	< 1	0.22	14	1.37	0.073	0.034	0.58	< 2	1	39	0.04	2	< 2	< 10	13	< 10	2	16		
GC20-0158-001	257	2.63	< 10	< 1	0.25	13	0.79	0.182	0.033	1.79	< 2	1	56	0.02	3	< 2	< 10	12	< 10	2	18		
1231037150	290	2.18	< 10	< 1	0.27	16	0.69	0.080	0.044	0.36	< 2	2	41	0.07	< 1	4	< 10	23	< 10	3	8	0.47	0.34
GC20-0183-009	172	3.54	< 10	< 1	0.16	17	1.14	0.077	0.036	1.13	< 2	1	67	< 0.01	3	< 2	< 10	17	< 10	2	11		
1231040812	201	3.22	< 10	< 1	0.36	32	1.10	0.146	0.071	2.84	< 2	2	53	0.05	4	< 2	< 10	20	< 10	4	11	0.54	2.76
GC20-0177-002	177	3.15	< 10	< 1	0.48	23	0.92	0.148	0.071	1.88	< 2	3	81	0.05	< 1	< 2	< 10	26	< 10	3	14		
1324013264	228	2.14	< 10	< 1	0.16	19	1.21	0.142	0.050	1.08	< 2	1	69	0.01	< 1	< 2	< 10	16	< 10	3	6	0.32	1.08
GC20-0192-005	148	2.76	< 10	< 1	0.22	16	0.98	0.116	0.039	1.17	< 2	1	91	< 0.01	< 1	< 2	< 10	13	< 10	1	10		
F001008	12	1.39	< 10	< 1	0.19	17	0.34	0.212	0.036	0.04	< 2	2	33	0.22	4	< 2	< 10	34	< 10	13	22		
1231040805	263	2.12	< 10	< 1	0.24	22	0.86	0.067	0.065	0.70	< 2	2	37	0.03	2	< 2	< 10	18	< 10	3	8	0.20	0.70
1231040501	221	1.06	< 10	< 1	0.31	18	0.20	0.084	0.038	0.84	< 2	< 1	36	0.06	< 1	< 2	< 10	6	< 10	2	10	0.56	0.82
GC20-0181-003	140	3.70	< 10	< 1	0.22	12	1.33	0.119	0.034	0.89	< 2	1	68	0.03	2	3	< 10	14	< 10	2	16		
1231040527	261	1.44	< 10	< 1	0.26	16	0.23	0.052	0.039	1.19	< 2	< 1	24	0.04	1	< 2	< 10	6	< 10	2	10	0.59	1.20
1231040666	194	1.67	< 10	< 1	0.28	18	0.54	0.040	0.055	0.76	< 2	2	25	0.05	< 1	< 2	< 10	16	< 10	3	9	0.21	0.75
1231040645	249	1.53	< 10	< 1	0.28	16	0.39	0.043	0.044	0.62	< 2	1	25	0.05	3	3	< 10	15	< 10	2	10	0.22	0.65
1231037326	340	2.19	< 10	< 1	0.42	16	0.76	0.106	0.044	0.27	< 2	2	62	0.12	2	< 2	< 10	28	< 10	2	16	0.32	0.26
GC20-0190-001	279	3.53	< 10	< 1	0.23	12	0.96	0.288	0.035	1.49	< 2	1	81	0.02	4	< 2	< 10	12	< 10	2	13		
GC20-0159-005	246	3.09	< 10	< 1	0.26	44	1.32	0.115	0.096	1.21	< 2	3	141	0.09	< 1	< 2	< 10	28	< 10	4	6		
1231037133	267	1.85	< 10	< 1	0.27	13	0.67	0.068	0.038	0.37	< 2	2	23	0.06	1	< 2	< 10	19	< 10	3	11	0.45	0.39
GC20-0189-013	150	3.18	< 10	< 1	0.20	12	0.96	0.154	0.033	0.66	< 2	1	91	0.03	< 1	< 2	< 10	14	< 10	2	14		
1231037161	261	2.30	< 10	< 1	0.22	15	1.22	0.100	0.049	0.69	3	3	70	0.04	< 1	3	< 10	25	< 10	2	6	0.39	0.71
1231037205	150	1.43	< 10	< 1	0.08	< 10	0.45	0.080	0.030	0.35	< 2	< 1	41	< 0.01	< 1	< 2	< 10	10	< 10	< 1	5	0.10	0.35
GC20-0186-002	194	1.85	< 10	< 1	0.30	13	0.89	0.088	0.034	0.92	< 2	< 1	49	< 0.01	< 1	< 2	< 10	9	< 10	1	10		
1231037104	291	1.99	< 10	< 1	0.36	17	0.63	0.045	0.048	0.97	2	2	44	0.04	< 1	< 2	< 10	15	< 10	2	8	0.39	0.95
GC20-0196-003	198	3.49	< 10	< 1	0.17	12	1.24	0.237	0.034	1.42	< 2	1	147	0.01	1	< 2	< 10	13	< 10	2	15		
GC20-0197-002	218	3.25	< 10	< 1	0.17	< 10	0.98	0.155	0.032	1.10	3	< 1	105	0.03	< 1	< 2	< 10	13	< 10	1	10		
GC20-0194-001	246	2.64	< 10	< 1	0.12	15	0.93	0.164	0.033	0.61	2	1	114	0.01	< 1	< 2	< 10	13	< 10	2	7		
F001003	13	2.13	< 10	< 1	0.19	13	0.41	0.249	0.035	0.03	< 2	2	36	0.36	6	< 2	< 10	51	< 10	14	21		
GC20-0201-002	197	4.47	< 10	< 1	0.24	13	2.46	0.086	0.044	3.06	3	2	58	0.03	6	< 2	< 10	26	< 10	4	24		
GC20-0202-001	189	4.67	< 10	< 1	0.18	12	2.30	0.102	0.039	2.29	4	2	70	0.01	3	6	< 10	23	< 10	3	20		
1231037062	219	2.60	< 10	< 1	0.36	18	0.45	0.062	0.055	2.31	3	1	30	0.06	< 1	< 2	< 10	16	< 10	2	14	0.15	2.35
1231037283	121	1.26	< 10	< 1	0.05	< 10	0.44	0.073	0.028	0.25	< 2	< 1	40	< 0.01	2	< 2	< 10	11	< 10	< 1	3	0.08	0.24
1324013137	235	2.48	< 10	< 1	0.15	15	1.07	0.105	0.039	1.72	< 2	1	68	0.03	3	< 2	< 10	13	< 10	2	23	0.18	1.79
1231037046	428	2.86	< 10	1	0.70	19	1.40	0.060	0.062	1.08	3	3	46	0.09	< 1	3	< 10	39	< 10	2	7	0.62	1.17
1231037001	302	1.21	< 10	< 1	0.32	15	0.26	0.051	0.036	0.73	< 2	< 1	37	0.02	1	< 2	< 10	5	< 10	2	6	0.74	0.73
1231037049	274	1.77	< 10	< 1	0.38	15	0.32	0.039	0.036	1.53	6	< 1	47	0.04	< 1	< 2	< 10	8	< 10	2	11	0.42	1.09

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324013117	216	2.32	< 10	< 1	0.24	14	2.01	0.107	0.032	1.15	3	< 1	42	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.10	1.17
1231037224	209	0.70	< 10	< 1	0.27	19	0.07	0.038	0.044	0.53	< 2	< 1	14	0.04	< 1	< 2	< 10	4	< 10	2	6	0.19	0.52
1231037007	306	2.05	< 10	< 1	0.43	15	0.25	0.024	0.041	2.02	3	< 1	33	0.06	< 1	3	< 10	7	< 10	2	20	0.43	1.90
1231037110	320	2.08	< 10	< 1	0.29	16	0.53	0.205	0.042	1.31	< 2	1	83	0.03	< 1	< 2	< 10	13	< 10	3	5	0.49	1.27
1231037075	303	1.98	< 10	< 1	0.32	17	0.76	0.190	0.042	0.53	< 2	1	88	0.06	< 1	2	< 10	17	< 10	3	4	0.46	0.53
1231037247	293	1.94	< 10	< 1	0.24	14	0.51	0.034	0.035	1.65	4	< 1	16	0.01	1	< 2	< 10	9	< 10	2	12	0.29	1.70
1324013211	270	2.06	< 10	< 1	0.23	37	0.64	0.095	0.062	0.96	< 2	< 1	93	< 0.01	1	< 2	< 10	10	< 10	3	6	0.47	0.94
1231037312	108	1.13	< 10	< 1	0.21	< 10	0.38	0.035	0.031	0.38	< 2	< 1	25	0.01	< 1	< 2	< 10	5	< 10	< 1	5	0.14	0.40
1324013165	283	2.30	< 10	< 1	0.15	15	1.01	0.127	0.039	1.54	< 2	1	68	0.01	2	< 2	< 10	12	< 10	2	12	0.24	1.48
GC20-0200-009	179	4.17	< 10	< 1	0.27	12	1.35	0.059	0.040	3.12	3	2	40	0.01	5	< 2	< 10	17	< 10	4	25		
1324013202	412	2.35	< 10	< 1	0.20	16	0.84	0.249	0.037	2.05	< 2	< 1	95	< 0.01	3	< 2	< 10	8	< 10	2	16	0.28	2.06
GC20-0208-002	211	1.98	< 10	< 1	0.33	56	0.54	0.074	0.068	0.76	< 2	< 1	83	< 0.01	< 1	< 2	< 10	9	< 10	5	4		
GC20-0198-013	179	4.89	< 10	< 1	0.21	11	2.39	0.028	0.045	3.42	< 2	3	18	0.11	15	< 2	< 10	35	< 10	4	28		
F001002	13	1.91	< 10	< 1	0.25	13	0.50	0.216	0.044	0.05	< 2	3	29	0.27	6	< 2	< 10	57	< 10	16	18		
1231036017	151	2.89	< 10	< 1	0.22	14	0.30	0.027	0.038	2.90	4	< 1	21	0.01	< 1	< 2	< 10	7	< 10	2	11	0.22	2.99
GC20-0001-018	22	6.79	10	< 1	0.90	166	2.77	0.068	0.423	0.43	< 2	14	541	0.09	< 1	< 2	< 10	144	< 10	23	4		
1324001134	122	1.92	< 10	< 1	0.17	15	0.61	0.158	0.040	1.14	< 2	< 1	115	< 0.01	1	3	< 10	8	< 10	2	7	0.22	1.16
F000712	13	1.90	< 10	< 1	0.25	12	0.50	0.218	0.045	0.05	< 2	3	30	0.27	1	< 2	< 10	57	< 10	15	15		
1231034426	106	1.89	< 10	< 1	0.25	13	0.43	0.025	0.040	1.73	4	< 1	91	0.02	< 1	< 2	< 10	9	< 10	2	10	0.70	1.78
1231034259	85	1.70	< 10	< 1	0.25	16	0.68	0.053	0.039	1.26	< 2	< 1	22	< 0.01	< 1	< 2	< 10	6	< 10	1	8	0.50	1.27
1231034349	102	1.85	< 10	< 1	0.28	15	0.78	0.073	0.040	1.19	< 2	< 1	32	0.03	< 1	< 2	< 10	8	< 10	2	10	0.49	1.18
1324001351	153	2.18	< 10	< 1	0.23	15	0.81	0.133	0.040	2.15	< 2	< 1	50	0.01	5	< 2	< 10	6	< 10	2	11	0.45	2.17
GC-20-0056-020	93	2.17	< 10	< 1	0.20	12	0.93	0.192	0.033	1.21	< 2	< 1	68	< 0.01	< 1	< 2	< 10	9	< 10	2	13		
F000740	12	3.24	< 10	< 1	0.21	10	0.55	0.289	0.055	0.06	< 2	4	38	0.48	4	< 2	< 10	94	< 10	15	10		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1100	3	25	90	123	7.85	212	< 10	823	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	64	974	2	24	84	112	6.62	215	< 10	737	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	25	87	114	7.10	229	< 10	783	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	64	989	1	24	83	120	6.73	229	< 10	754	0.8	2	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		41.8				5.68																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		41.8				8.25																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA)								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401						42		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				77	382						34		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419						< 2		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							518																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0143-011 Orig							736																
GC20-0143-011 Dup							639																
1324016208 Orig								0.9	< 0.5	27	376	< 1	17	< 2	175	2.50	11	< 10	31	< 0.5	8	1.32	8
1324016208 Dup								0.9	< 0.5	26	377	< 1	17	< 2	172	2.52	10	< 10	29	< 0.5	10	1.33	8
1231040615 Orig																							
1231040615 Dup																							
1324007384 Orig							891																
1324007384 Dup							933																
GC20-0170-001 Orig							158																
GC20-0170-001 Dup							188																
1231040521 Orig								1.9	< 0.5	27	797	< 1	14	14	73	1.51	40	< 10	38	< 0.5	< 2	1.79	7
1231040521 Dup								2.1	< 0.5	28	834	< 1	14	14	77	1.61	41	< 10	39	< 0.5	< 2	1.88	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324016372 Orig																							
1324016372 Dup																							
1231038047 Orig								0.4	< 0.5	28	438	< 1	13	3	70	1.31	10	< 10	73	< 0.5	< 2	1.57	6
1231038047 Dup								0.4	< 0.5	27	422	< 1	12	4	67	1.26	11	< 10	68	< 0.5	< 2	1.51	6
1324016365 Orig							359																
1324016365 Dup							354																
1324016293 Orig																							
1324016293 Dup																							
1231038027 Orig						8.77																	
1231038027 Dup						8.79																	
1231038150 Orig							51	1.5	< 0.5	20	1160	< 1	25	23	98	2.34	52	< 10	31	< 0.5	3	1.20	10
1231038150 Dup							53	1.6	< 0.5	20	1160	< 1	25	23	96	2.32	49	< 10	32	< 0.5	3	1.20	10
1324016224 Orig							129																
1324016224 Dup							123																
1231037150 Orig																							
1231037150 Dup																							
1231040501 Orig								1.6	< 0.5	21	544	2	12	9	50	1.00	41	< 10	33	< 0.5	< 2	1.87	5
1231040501 Dup								1.7	< 0.5	22	566	< 1	14	9	54	1.04	48	< 10	34	< 0.5	< 2	1.94	6
1231040527 Orig	32.5	41.9	9.43	36.8	1.14		70																
1231040527 Dup	32.5	42.9	10.4	36.8	1.17		47																
1231037205 Orig																							
1231037205 Dup																							
GC20-0186-002 Orig							39																
GC20-0186-002 Dup							37																
GC20-0196-003 Orig								0.3	< 0.5	48	340	2	14	< 2	42	3.30	8	< 10	38	< 0.5	9	1.19	8
GC20-0196-003 Dup								0.3	< 0.5	48	344	2	15	< 2	42	3.35	5	< 10	36	< 0.5	8	1.22	10
GC20-0194-001 Orig							72																
GC20-0194-001 Dup							86																
1231037224 Orig								0.9	< 0.5	19	282	1	13	19	117	0.72	130	< 10	37	< 0.5	< 2	0.47	4
1231037224 Dup								1.0	< 0.5	18	267	< 1	12	18	117	0.64	116	< 10	33	< 0.5	< 2	0.44	4
1231037007 Orig																							
1231037007 Dup																							
1324013202 Orig						8.34																	
1324013202 Dup						8.31																	
GC20-0208-002 Orig							48																
GC20-0208-002 Dup							47																
GC20-0001-018 Orig								1.5	0.6	27	1990	< 1	13	< 2	111	3.22	4	< 10	95	1.2	< 2	5.41	28
GC20-0001-018 Dup								0.2	< 0.5	28	2030	< 1	14	2	112	3.28	2	< 10	86	1.2	< 2	5.53	26
1231034259 Orig																							
1231034259 Dup																							
1324001351 Orig							467																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324001351 Dup							463																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	6.14	10	1	1.07	< 10	0.37	0.146	0.035	0.01	4	18	31		< 1	3	< 10	159	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	70	5.15	10	2	0.98	< 10	0.35	0.142	0.031	0.01	3	17	29		< 1	< 2	< 10	151	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	73	5.59	10	< 1	1.08	< 10	0.37	0.150	0.033	0.01	4	18	31		< 1	< 2	< 10	160	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	72	5.24	10	< 1	1.05	< 10	0.38	0.133	0.032	0.01	3	20	28		< 1	2	< 10	155	< 10	5	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
SGR-1b Meas																						27.4	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.68
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.1	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.63
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.11	0.49
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua										3.55	7												

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.75	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.66	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19			< 2	< 10	11	< 10	7	59		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19			< 2	< 10	12	< 10	7	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GC20-0143-011 Orig																							
GC20-0143-011 Dup																							
1324016208 Orig	252	2.47	< 10	< 1	0.18	11	1.04	0.209	0.033	1.90	< 2	1	77	< 0.01	6	< 2	< 10	12	< 10	2	20		
1324016208 Dup	256	2.47	< 10	< 1	0.18	11	1.04	0.214	0.034	1.87	< 2	1	78	< 0.01	8	< 2	< 10	12	< 10	2	18		
1231040615 Orig																						0.11	1.84
1231040615 Dup																						0.09	1.82
1324007384 Orig																							
1324007384 Dup																							
GC20-0170-001 Orig																							
GC20-0170-001 Dup																							
1231040521 Orig	206	1.56	< 10	< 1	0.27	16	0.35	0.164	0.042	1.29	< 2	< 1	72	0.03	< 1	< 2	< 10	8	< 10	2	10		
1231040521 Dup	209	1.63	< 10	2	0.29	18	0.37	0.173	0.044	1.34	< 2	< 1	76	0.03	< 1	< 2	< 10	8	< 10	2	10		
1324016372 Orig																						1.04	3.81
1324016372 Dup																						1.05	3.82
1231038047 Orig	245	1.79	< 10	< 1	0.33	14	0.63	0.091	0.038	0.48	< 2	2	31	0.08	1	< 2	< 10	18	< 10	2	12		
1231038047 Dup	241	1.72	< 10	< 1	0.31	13	0.61	0.084	0.037	0.46	< 2	1	29	0.07	< 1	< 2	< 10	17	< 10	2	12		
1324016365 Orig																							
1324016365 Dup																							
1324016293 Orig																						0.14	1.56
1324016293 Dup																						0.15	1.59
1231038027 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231038027 Dup																							
1231038150 Orig	229	2.54	< 10	< 1	0.42	16	1.68	0.127	0.039	1.83	2	2	30	0.03	< 1	2	< 10	22	< 10	2	10		
1231038150 Dup	230	2.54	< 10	< 1	0.41	16	1.68	0.129	0.039	1.83	2	2	31	0.03	< 1	4	< 10	22	< 10	2	10		
1324016224 Orig																							
1324016224 Dup																							
1231037150 Orig																						0.47	0.33
1231037150 Dup																						0.47	0.36
1231040501 Orig	218	1.04	< 10	< 1	0.30	18	0.20	0.083	0.037	0.84	< 2	< 1	36	0.05	2	< 2	< 10	6	< 10	2	10		
1231040501 Dup	225	1.08	< 10	< 1	0.31	19	0.21	0.086	0.038	0.85	< 2	< 1	37	0.06	< 1	< 2	< 10	6	< 10	2	9		
1231040527 Orig																							
1231040527 Dup																							
1231037205 Orig																						0.10	0.35
1231037205 Dup																						0.10	0.35
GC20-0186-002 Orig																							
GC20-0186-002 Dup																							
GC20-0196-003 Orig	195	3.46	< 10	< 1	0.16	12	1.23	0.236	0.033	1.40	2	1	146	0.01	1	< 2	< 10	13	< 10	2	15		
GC20-0196-003 Dup	201	3.52	< 10	< 1	0.17	12	1.25	0.239	0.034	1.43	< 2	1	147	0.01	1	< 2	< 10	14	< 10	2	15		
GC20-0194-001 Orig																							
GC20-0194-001 Dup																							
1231037224 Orig	214	0.73	< 10	< 1	0.28	19	0.07	0.041	0.045	0.55	2	< 1	14	0.04	< 1	< 2	< 10	4	< 10	2	6		
1231037224 Dup	204	0.68	< 10	< 1	0.26	19	0.07	0.036	0.043	0.51	< 2	< 1	13	0.04	< 1	< 2	< 10	4	< 10	1	7		
1231037007 Orig																						0.43	1.92
1231037007 Dup																						0.43	1.88
1324013202 Orig																							
1324013202 Dup																							
GC20-0208-002 Orig																							
GC20-0208-002 Dup																							
GC20-0001-018 Orig	21	6.68	10	< 1	0.90	164	2.75	0.068	0.423	0.44	2	14	539	0.09	2	< 2	< 10	144	< 10	23	4		
GC20-0001-018 Dup	22	6.90	10	< 1	0.91	168	2.78	0.068	0.422	0.43	< 2	14	543	0.08	< 1	< 2	< 10	145	< 10	24	4		
1231034259 Orig																						0.50	1.28
1231034259 Dup																						0.51	1.27
1324001351 Orig																							
1324001351 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10421**
Report Date:	**27-Oct-20**
Date Submitted:	**31-Aug-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-13 21:17:54
4F-C, S	Infrared	2020-09-30 21:24:05

REPORT **A20-10421**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Report No.:	**A20-10421**
Report Date:	**27-Oct-20**
Date Submitted:	**31-Aug-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-23 07:40:52
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-23 14:55:49

REPORT **A20-10421**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0078-009FD							35	< 0.2	< 0.5	77	632	1	35	4	63	2.04	9	< 10	59	< 0.5	< 2	2.32	16
F001018							1010	3.0	< 0.5	30	256	< 1	8	14	41	1.21	< 2	< 10	41	< 0.5	< 2	0.75	9
1231039013	72.9	3.10	-69.8	82.1	0.0377	7.17	904	40.7	5.3	43	645	< 1	24	660	1630	1.02	201	< 10	17	< 0.5	< 2	0.20	13
1324009061	56.4	45.4	-11.0	60.9	0.745	8.54	284	1.2	0.8	74	751	5	13	15	222	1.61	32	< 10	28	< 0.5	< 2	2.00	8
1324009049	49.8	33.9	-15.9	53.6	0.633	8.71	110	0.6	< 0.5	27	635	2	14	8	129	1.79	23	< 10	35	< 0.5	< 2	1.64	9
1231039101	94.5	2.62	-91.8	106	0.0248	7.99	427	6.1	20.3	67	994	< 1	22	107	4320	1.48	199	< 10	15	< 0.5	3	0.26	12
1324007083	2.49	12.7	10.2	5.82	2.19	9.04	86	< 0.2	< 0.5	127	501	< 1	47	< 2	46	5.18	2	< 10	12	< 0.5	< 2	3.52	24
1231039110	45.4	19.8	-25.6	52.4	0.377	8.81	101	2.9	0.8	14	1140	< 1	22	123	309	2.22	55	< 10	41	< 0.5	< 2	1.10	11
1324099013	3.43	44.3	40.8	7.04	6.28	9.50	14	< 0.2	< 0.5	15	502	< 1	7	4	72	0.76	< 2	< 10	172	< 0.5	< 2	1.84	5
GC20-0116-018							1240	3.4	< 0.5	1260	389	6	12	< 2	48	2.70	6	< 10	45	< 0.5	14	1.03	8
GC20-0114-021							672	0.3	< 0.5	38	443	3	28	< 2	71	3.53	16	< 10	33	< 0.5	< 2	1.67	14
GC20-0122-019							102	< 0.2	< 0.5	26	219	< 1	12	< 2	71	2.96	8	< 10	46	< 0.5	< 2	1.22	7
GC20-0116-009							101	0.3	< 0.5	37	221	< 1	15	< 2	24	3.79	8	< 10	20	< 0.5	5	1.50	8
1231039144	58.4	2.47	-56.0	64.3	0.0384	7.75	956	54.6	5.3	53	1210	< 1	23	634	1300	1.60	97	< 10	18	< 0.5	< 2	0.20	11
1324009056	58.3	35.3	-23.0	62.8	0.563	8.74	279	3.1	1.6	40	879	< 1	11	97	378	1.68	68	< 10	25	< 0.5	< 2	1.86	8
1231039050	57.5	2.86	-54.6	68.3	0.0419	7.97	496	22.4	1.9	41	701	< 1	26	106	539	1.39	111	< 10	20	< 0.5	< 2	0.27	13
1231039319	22.8	16.6	-6.18	22.4	0.744	9.07	85	0.3	< 0.5	42	352	< 1	13	2	106	1.15	< 2	< 10	52	< 0.5	< 2	0.95	9
1231039298	79.3	2.82	-76.4	84.2	0.0335	7.91	950	26.9	4.2	23	902	< 1	21	495	1190	1.03	127	< 10	16	< 0.5	< 2	0.20	11
1231039078	39.9	8.49	-31.4	43.2	0.197	8.90	19	< 0.2	< 0.5	24	796	1	15	4	48	2.14	4	< 10	39	< 0.5	< 2	0.85	11
1324007182	74.5	8.40	-66.1	81.8	0.103	8.35	78	0.6	< 0.5	96	324	2	14	3	53	1.68	16	< 10	22	< 0.5	3	0.86	9
1231039001	6.56	11.6	5.09	10.7	1.09	9.31	8	0.3	< 0.5	14	367	< 1	15	5	105	2.33	9	< 10	63	< 0.5	< 2	1.48	8
1231039357	64.8	2.24	-62.5	72.0	0.0311	7.40	206	7.3	0.9	25	703	< 1	27	84	627	1.61	191	< 10	21	< 0.5	< 2	0.21	14
1231039047	55.0	3.23	-51.8	65.8	0.0491	7.69	383	15.1	1.0	36	748	< 1	21	74	348	1.54	98	< 10	22	< 0.5	< 2	0.18	13
1324007002	32.9	34.2	1.34	38.3	0.895	8.79	516	0.2	< 0.5	38	632	< 1	14	6	137	1.69	8	< 10	36	< 0.5	< 2	1.73	8
F001011							1830	4.4	< 0.5	23	201	21	7	19	36	1.19	< 2	< 10	38	< 0.5	< 2	0.71	5
1324016097	58.6	16.1	-42.5	65.5	0.246	8.73	291	0.4	< 0.5	12	290	< 1	14	< 2	67	2.55	15	< 10	32	< 0.5	< 2	1.30	9
GC20-0130-001							57	0.4	< 0.5	103	325	< 1	10	< 2	68	2.03	13	< 10	30	< 0.5	< 2	0.59	8
1324007008	29.0	10.0	-19.0	37.4	0.268	8.65	84	0.3	< 0.5	81	578	1	19	4	119	3.14	15	< 10	45	< 0.5	< 2	1.70	9
1324007054	4.69	3.13	-1.56	4.59	0.681	9.08	< 5	< 0.2	< 0.5	119	411	< 1	42	< 2	42	5.51	< 2	< 10	11	< 0.5	< 2	3.48	22
1324007249	46.4	8.92	-37.5	55.1	0.162	8.54	116	0.4	< 0.5	99	376	< 1	14	3	60	2.42	9	< 10	30	< 0.5	< 2	1.18	9
1324007166	64.7	8.82	-55.9	68.9	0.128	8.47	147	0.4	< 0.5	90	301	2	16	3	51	2.40	12	< 10	30	< 0.5	2	1.00	9
GC20-0128-012							70	1.6	< 0.5	513	278	< 1	10	< 2	128	1.89	15	< 10	30	< 0.5	4	0.46	9
1324016075	37.0	5.26	-31.7	40.4	0.130	8.87	55	0.6	< 0.5	85	276	< 1	13	< 2	95	2.03	14	< 10	33	< 0.5	3	0.48	8
GC20-0124-020							186	1.4	< 0.5	376	379	26	17	< 2	40	2.87	8	< 10	35	< 0.5	9	0.95	7
GC20-0125-016							247	0.9	< 0.5	313	381	9	15	< 2	52	2.79	11	< 10	34	< 0.5	7	0.80	5
1324010007	40.7	6.57	-34.2	44.1	0.149	8.69	101	0.3	0.6	32	445	< 1	13	< 2	195	2.01	6	< 10	38	< 0.5	6	0.56	9
GC20-0126-013							419	1.9	< 0.5	754	329	10	13	< 2	38	2.08	13	< 10	33	< 0.5	8	0.65	8
GC20-0127-001							34	1.3	< 0.5	275	255	20	13	< 2	44	1.98	5	< 10	32	< 0.5	< 2	0.93	5
GC20-0127-018							88	< 0.2	< 0.5	20	351	1	10	< 2	74	3.01	14	< 10	46	< 0.5	< 2	0.91	9
1324010087	46.1	3.64	-42.5	50.8	0.0716	8.72	168	0.6	3.9	58	490	< 1	14	< 2	991	1.86	11	< 10	39	< 0.5	< 2	0.49	9
1324016013	54.6	12.6	-42.0	58.2	0.216	8.79	183	1.6	< 0.5	46	353	3	12	2	130	1.71	25	< 10	37	< 0.5	12	0.83	9
1324016061	57.9	14.2	-43.7	61.6	0.231	8.79	112	1.1	< 0.5	10	468	1	15	4	85	2.10	12	< 10	35	< 0.5	< 2	1.06	8
1324016096	64.4	9.98	-54.4	69.2	0.144	8.71	93	0.5	< 0.5	36	227	< 1	14	< 2	53	2.36	10	< 10	30	< 0.5	3	1.02	10
F001012							946	1.6	< 0.5	50	231	12	9	20	41	1.31	3	< 10	47	< 0.5	< 2	0.82	7
1231036071	37.4	13.7	-23.7	41.0	0.333	8.80	52	9.9	< 0.5	17	1770	< 1	14	42	165	0.52	73	< 10	27	< 0.5	< 2	0.93	10
1231036055	34.6	25.4	-9.15	38.3	0.664	8.79	34	0.7	< 0.5	15	642	< 1	9	24	133	1.89	22	< 10	38	< 0.5	< 2	1.61	7
1231036172	14.7	18.3	3.64	17.8	1.03	8.69	76	0.5	< 0.5	19	590	< 1	14	14	151	2.59	19	< 10	42	< 0.5	< 2	1.64	7
GC20-0087-001							3400	1.5	< 0.5	554	396	< 1	9	< 2	33	3.16	6	< 10	44	< 0.5	10	1.40	6

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1231036011	36.6	30.1	-6.41	40.7	0.740	8.63	335	0.8	0.6	21	888	< 1	9	66	216	1.72	26	< 10	32	< 0.5	< 2	1.47	7
1324010220	5.00	10.1	5.08	4.90	2.06	9.00	5	< 0.2	< 0.5	123	476	< 1	51	< 2	47	5.25	3	< 10	13	< 0.5	< 2	3.48	25
GC20-0090-013							355	0.6	< 0.5	289	263	< 1	7	< 2	28	2.81	8	< 10	34	< 0.5	3	1.03	6
1324010069	22.5	9.33	-13.2	22.0	0.423	8.97	67	0.5	< 0.5	126	486	< 1	36	< 2	82	3.51	5	< 10	46	< 0.5	< 2	2.06	18
1324010200	7.81	6.67	-1.15	7.66	0.871	9.02	12	< 0.2	< 0.5	111	458	< 1	57	< 2	51	4.86	< 2	< 10	16	< 0.5	< 2	3.10	24
1324010157	55.2	4.77	-50.4	59.4	0.0802	8.56	155	1.1	< 0.5	271	297	< 1	15	< 2	85	1.96	8	< 10	34	< 0.5	11	0.52	8
1231036215	14.1	21.4	7.38	13.8	1.56	8.92	18	0.3	< 0.5	32	545	< 1	27	4	96	2.60	7	< 10	57	< 0.5	< 2	1.79	10
1231036238	9.69	1.80	-7.89	9.49	0.190	8.58	20	0.8	< 0.5	12	231	< 1	11	21	98	0.85	10	< 10	49	< 0.5	< 2	0.12	6
1231036097	13.0	37.4	24.4	16.2	2.31	9.06	23	0.6	< 0.5	18	603	< 1	24	7	115	2.20	9	< 10	46	< 0.5	< 2	2.04	10
1231036001	6.25	10.1	3.89	6.13	1.66	9.03	7	< 0.2	< 0.5	85	490	< 1	39	< 2	46	4.25	< 2	< 10	32	< 0.5	< 2	2.70	19
1324010228	24.8	25.9	1.11	28.8	0.900	8.60	40	0.9	< 0.5	33	558	< 1	10	17	74	2.01	24	13	37	< 0.5	< 2	1.69	7
1231036049	4.38	14.6	10.2	4.29	3.39	8.91	5	< 0.2	< 0.5	116	532	< 1	51	< 2	46	5.49	< 2	< 10	28	< 0.5	< 2	3.55	26
GC20-0086-006							513	1.8	< 0.5	1030	413	< 1	8	< 2	34	2.87	3	< 10	43	< 0.5	12	1.09	6
GC20-0082-001							41	0.4	0.7	15	745	< 1	12	5	201	2.39	22	< 10	66	< 0.5	< 2	1.71	7
GC20-0081-014							5	< 0.2	< 0.5	26	811	< 1	72	< 2	83	3.03	5	< 10	654	< 0.5	< 2	3.25	29
1231036079	48.3	19.2	-29.1	53.0	0.363	8.64	340	17.9	< 0.5	16	1530	< 1	9	49	171	0.62	50	< 10	30	< 0.5	< 2	0.84	7
GC20-0083-001							47	0.7	< 0.5	102	443	2	14	6	68	1.32	16	< 10	38	< 0.5	5	1.36	10
1231036131	14.4	32.6	18.2	14.1	2.32	8.98	16	0.4	0.7	15	616	< 1	14	12	123	2.78	4	< 10	55	< 0.5	< 2	2.40	9
F001016							937	1.7	< 0.5	70	232	13	9	21	53	1.27	< 2	< 10	44	< 0.5	< 2	0.84	7
1324007013	17.5	7.28	-10.2	17.1	0.424	8.93	8	< 0.2	< 0.5	76	328	< 1	11	2	118	3.11	2	< 10	97	< 0.5	< 2	1.63	9
GC20-0139-001							213	0.5	< 0.5	94	423	4	20	4	57	2.07	14	< 10	28	< 0.5	< 2	1.30	12
1324007030	4.06	6.29	2.22	3.98	1.58	9.06	5	< 0.2	< 0.5	119	418	< 1	51	< 2	43	5.43	2	< 10	12	< 0.5	< 2	3.58	22
GC20-0137-001							262	0.5	< 0.5	152	385	< 1	11	3	102	2.75	6	< 10	39	< 0.5	4	0.89	9
GC20-0136-001							51	0.4	< 0.5	16	254	< 1	15	4	46	1.70	20	< 10	37	< 0.5	3	0.88	10
1324007028	8.75	8.48	-0.267	8.57	0.989	9.15	6	< 0.2	< 0.5	89	434	< 1	36	< 2	58	4.79	< 2	< 10	39	< 0.5	< 2	2.96	19
1324016331	50.8	5.45	-45.4	54.8	0.0994	8.57	2010	1.4	< 0.5	216	536	1	17	< 2	137	2.61	22	< 10	37	< 0.5	6	0.62	10
GC20-0141-001							271	0.6	< 0.5	118	395	2	8	2	38	2.48	4	< 10	45	< 0.5	6	0.56	8
1231038065	3.13	31.6	28.5	3.06	10.3	9.61	5	< 0.2	< 0.5	19	297	< 1	17	< 2	46	1.10	< 2	< 10	85	< 0.5	< 2	1.45	7
1231038126	3.44	23.9	20.5	3.37	7.10	9.48	< 5	< 0.2	< 0.5	11	299	< 1	17	< 2	53	1.06	< 2	< 10	84	< 0.5	< 2	1.19	8
1324016263	61.0	7.83	-53.2	72.3	0.108	8.32	283	0.8	< 0.5	154	284	< 1	18	< 2	52	2.90	17	< 10	34	< 0.5	6	1.32	11
1324010232	54.5	2.80	-51.7	65.8	0.0426	8.33	255	0.9	1.8	67	403	< 1	12	< 2	486	2.13	12	< 10	31	< 0.5	5	0.72	8
1324010136	46.8	9.47	-37.3	53.6	0.177	8.59	223	0.4	2.2	44	501	< 1	14	< 2	594	3.47	16	< 10	39	< 0.5	4	1.78	9
1324010001	34.6	14.2	-20.4	42.6	0.334	8.80	103	0.9	1.2	72	591	< 1	16	< 2	291	2.33	13	< 10	45	< 0.5	< 2	1.11	9
GC20-0135-001							178	1.2	< 0.5	214	252	< 1	17	4	88	1.70	30	< 10	31	< 0.5	8	0.33	11
1324010047	40.1	5.91	-34.2	45.6	0.130	8.61	154	0.7	1.7	35	427	< 1	11	< 2	355	1.70	16	< 10	39	< 0.5	< 2	0.60	9
1231038231	34.9	41.7	6.81	43.5	0.959	8.75	107	4.2	< 0.5	37	1530	< 1	19	21	116	1.73	50	< 10	35	< 0.5	< 2	1.71	10
1231038176	0.724	32.9	32.2	3.98	8.27	9.47	7	< 0.2	< 0.5	17	350	< 1	15	3	58	1.63	6	< 10	82	< 0.5	< 2	1.83	8
GC20-0129-012							79	0.6	0.5	38	611	< 1	14	< 2	177	1.97	27	< 10	31	< 0.5	3	0.33	12
F001019							1770	4.5	< 0.5	24	214	17	8	20	38	1.29	< 2	< 10	43	< 0.5	< 2	0.78	5
1231039148	132	1.43	-131	143	0.0100	7.29	676	5.6	6.1	458	652	< 1	22	59	1320	1.21	313	< 10	15	< 0.5	< 2	0.18	12
GC20-0109-012							420	0.4	< 0.5	246	293	1	6	< 2	26	2.36	5	< 10	34	< 0.5	4	0.82	8
GC20-0109-001							268	1.5	< 0.5	43	970	< 1	26	5	138	2.84	30	< 10	30	< 0.5	10	0.32	17
1231039189	90.0	1.97	-88.0	104	0.0190	6.92	2030	6.3	21.4	99	1120	< 1	21	461	4510	1.60	207	< 10	16	< 0.5	< 2	0.14	11
1231039061	101	1.19	-99.9	116	0.0102	5.73	1560	8.8	22.9	86	861	< 1	18	53	4810	1.55	234	< 10	14	< 0.5	2	0.16	11
1231039152	139	2.10	-137	155	0.0136	4.70	786	10.9	11.0	308	317	< 1	23	149	2540	0.68	364	< 10	12	< 0.5	< 2	0.16	11
1231039194	121	2.78	-118	133	0.0209	6.03	1430	76.4	18.8	2490	588	< 1	17	1030	3900	0.73	925	< 10	11	< 0.5	2	0.21	10
GC20-0111-021							241	0.2	< 0.5	139	272	< 1	10	< 2	24	2.61	6	< 10	45	< 0.5	< 2	1.00	11
GC20-0110-001							278	0.7	< 0.5	336	295	< 1	13	< 2	32	2.99	12	< 10	29	< 0.5	< 2	0.74	8
1231039058	62.1	60.7	-1.40	69.2	0.877	8.22	527	11.5	4.4	44	1110	< 1	21	271	995	1.65	112	< 10	21	< 0.5	< 2	0.21	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0110-021							599	0.5	< 0.5	244	280	1	7	< 2	25	2.72	8	< 10	37	< 0.5	7	1.01	4
1324011220	65.3	13.6	-51.7	70.4	0.194	8.59	198	1.1	1.4	69	593	< 1	11	7	421	1.96	27	< 10	33	< 0.5	2	0.99	8
1324010263	80.6	11.2	-69.4	85.1	0.132	8.44	78	0.6	0.7	81	358	1	13	< 2	206	1.71	7	< 10	27	< 0.5	4	0.71	9
GC20-0101-019							112	0.4	< 0.5	11	178	< 1	22	< 2	38	2.34	21	< 10	17	< 0.5	5	0.74	18
GC20-0104-021							404	0.4	< 0.5	202	255	< 1	7	< 2	22	2.80	5	< 10	43	< 0.5	< 2	1.20	4
GC20-0106-018							121	0.3	< 0.5	75	500	1	16	< 2	102	3.73	10	< 10	34	< 0.5	< 2	2.08	8
1231039248	101	7.79	-93.2	111	0.0705	8.22	252	4.4	8.6	150	809	< 1	19	235	1890	1.31	200	< 10	21	< 0.5	< 2	0.48	10
GC20-108-002							945	2.1	< 0.5	1080	299	< 1	8	< 2	38	3.12	7	< 10	57	< 0.5	12	1.64	5
1324010295	48.9	9.84	-39.1	53.9	0.182	8.62	33	0.3	0.5	103	398	< 1	21	< 2	189	2.80	7	< 10	38	< 0.5	< 2	1.38	15
1324006050	6.56	8.39	1.83	6.43	1.30	8.94	14	0.2	0.6	110	597	< 1	54	< 2	165	5.19	5	< 10	19	< 0.5	< 2	3.38	28
1324010290	4.69	7.49	2.80	4.59	1.63	8.84	15	< 0.2	< 0.5	137	461	< 1	50	< 2	55	5.65	2	< 10	15	< 0.5	< 2	3.58	23
GC20-0106-008							318	0.3	< 0.5	128	274	< 1	9	< 2	31	3.49	7	< 10	54	< 0.5	< 2	1.58	7
GC20-105-012							175	< 0.2	< 0.5	102	294	< 1	5	< 2	24	3.46	9	< 10	52	< 0.5	< 2	1.62	7
GC20-0103-004							500	0.5	< 0.5	139	354	< 1	13	4	50	3.04	12	< 10	44	< 0.5	4	1.36	9
GC20-0112-004							1380	0.8	< 0.5	431	197	< 1	9	< 2	20	2.62	10	< 10	27	< 0.5	11	1.21	7
F001015							1910	4.4	< 0.5	23	206	17	7	20	37	1.19	< 2	< 10	40	< 0.5	< 2	0.73	5
GC20-0098-020							752	1.8	< 0.5	772	184	30	9	3	26	2.03	28	< 10	34	< 0.5	< 2	0.64	10
GC20-0096-009FD							349	< 0.2	< 0.5	62	217	2	11	< 2	25	3.20	5	< 10	31	< 0.5	< 2	1.39	5
1324006013	59.8	9.95	-49.8	65.2	0.152	8.59	39	0.2	< 0.5	61	450	< 1	16	2	172	1.97	7	< 10	28	< 0.5	< 2	0.86	12
GC20-0096-008							177	< 0.2	< 0.5	43	258	4	12	4	56	2.88	16	< 10	34	< 0.5	< 2	1.22	7
GC20-0099-013							622	1.6	< 0.5	757	232	< 1	7	< 2	33	1.96	8	< 10	29	< 0.5	14	0.63	6
1324010184	72.0	16.7	-55.3	80.8	0.206	8.51	265	1.8	0.7	200	472	1	26	3	229	2.36	23	< 10	26	< 0.5	6	1.17	18
GC20-0105-001							281	0.3	< 0.5	171	236	< 1	10	< 2	22	2.54	16	< 10	31	< 0.5	4	1.17	7
GC20-0101-001							115	0.3	< 0.5	104	277	< 1	10	< 2	32	3.24	9	< 10	34	< 0.5	< 2	1.45	7
GC20-0101-012							23	< 0.2	< 0.5	27	368	2	14	< 2	88	4.38	8	< 10	37	< 0.5	< 2	2.21	7
GC20-0095-004							287	0.4	< 0.5	230	246	< 1	12	< 2	28	2.77	12	< 10	38	< 0.5	< 2	0.92	7
1324010240	58.0	36.2	-21.8	64.0	0.566	8.77	80	0.8	1.1	148	399	< 1	17	2	294	2.10	11	< 10	27	< 0.5	< 2	1.28	12
GC20-0089-010							445	0.6	< 0.5	298	212	1	8	< 2	22	2.73	4	< 10	25	< 0.5	2	1.51	8
GC20-0093-001							521	1.5	< 0.5	533	375	1	12	2	56	3.27	13	< 10	37	< 0.5	19	1.22	5
1324006047	53.8	35.4	-18.4	59.7	0.593	8.58	98	0.5	< 0.5	123	375	2	14	< 2	123	1.85	12	< 10	30	< 0.5	2	1.13	9
GC20-0094-005							62	0.4	< 0.5	59	308	< 1	15	4	62	2.51	8	< 10	40	< 0.5	< 2	1.16	10
1324006002	54.7	9.10	-45.6	60.9	0.149	8.49	372	1.6	0.6	235	389	3	11	2	178	1.65	18	< 10	29	< 0.5	4	0.84	10
1324006001	87.1	12.7	-74.4	93.1	0.136	8.30	252	1.1	< 0.5	240	360	3	17	2	79	1.79	11	< 10	25	< 0.5	6	1.06	11
GC20-0090-021							150	1.5	< 0.5	535	298	21	9	< 2	73	2.60	11	< 10	45	< 0.5	< 2	0.95	11
GC20-0095-016							918	0.3	< 0.5	88	167	< 1	7	< 2	17	2.46	7	< 10	32	< 0.5	3	0.92	7
GC20-0098-001							80	< 0.2	< 0.5	42	150	3	10	< 2	18	2.50	3	< 10	30	< 0.5	< 2	1.16	7
F001005							922	1.6	< 0.5	55	229	15	9	19	42	1.27	< 2	< 10	45	< 0.5	< 2	0.83	7
GC20-0153-006							755	1.0	< 0.5	1050	305	2	13	< 2	28	2.92	8	< 10	21	< 0.5	9	0.54	7
1324007232	67.3	12.1	-55.2	72.6	0.167	8.62	150	0.6	< 0.5	34	471	< 1	13	< 2	168	1.83	11	< 10	29	< 0.5	4	1.02	9
1324016211	56.3	9.00	-47.3	60.3	0.149	8.52	82	0.3	< 0.5	34	276	1	16	< 2	66	3.01	9	< 10	31	< 0.5	2	1.51	10
1324007271	60.0	5.75	-54.2	64.9	0.0886	8.42	63	< 0.2	< 0.5	32	417	< 1	14	< 2	63	3.13	7	< 10	33	< 0.5	< 2	1.46	8
1324007094	19.9	5.17	-14.7	24.5	0.211	8.87	33	< 0.2	0.6	26	511	< 1	11	< 2	334	3.65	5	< 10	44	< 0.5	< 2	1.36	9
GC20-0142-001							2660	1.5	< 0.5	797	384	2	8	< 2	27	1.99	8	< 10	31	< 0.5	51	0.55	8
1324016240	55.9	10.8	-45.1	66.2	0.163	8.48	271	1.1	0.8	149	374	1	16	< 2	237	2.65	18	< 10	26	< 0.5	9	1.32	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0078-009FD	155	3.04	< 10	2	0.70	51	1.52	0.112	0.119	0.60	3	7	110	0.08	7	< 2	< 10	56	< 10	5	5		
F001018	14	2.08	< 10	< 1	0.20	14	0.39	0.222	0.035	0.03	< 2	2	34	0.34	5	< 2	< 10	50	< 10	12	16		
1231039013	131	3.03	< 10	< 1	0.26	24	0.73	0.024	0.076	3.24	4	< 1	6	< 0.01	2	< 2	< 10	9	< 10	2	12	0.08	2.68
1324009061	147	2.25	< 10	< 1	0.15	< 10	0.65	0.055	0.043	2.09	5	< 1	45	< 0.01	1	< 2	< 10	6	< 10	2	9	0.69	1.99
1324009049	126	2.27	< 10	< 1	0.19	< 10	0.70	0.060	0.051	1.83	< 2	< 1	47	< 0.01	< 1	< 2	< 10	8	< 10	1	9	0.48	1.75
1231039101	122	4.02	< 10	< 1	0.19	17	1.36	0.022	0.050	3.63	3	< 1	6	< 0.01	< 1	< 2	< 10	10	< 10	2	8	0.17	3.45
1324007083	160	4.63	< 10	< 1	0.02	< 10	1.77	0.558	0.019	0.14	< 2	5	60	0.23	< 1	< 2	< 10	127	< 10	3	3	0.28	0.19
1231039110	177	2.88	< 10	< 1	0.62	17	1.75	0.087	0.051	1.66	< 2	2	26	0.05	< 1	< 2	< 10	22	< 10	2	13	0.35	1.71
1324099013	151	1.15	< 10	< 1	0.28	59	0.32	0.049	0.071	0.19	< 2	< 1	148	0.01	2	< 2	< 10	5	< 10	4	4	0.64	0.23
GC20-0116-018	151	3.60	< 10	< 1	0.20	11	0.92	0.175	0.032	1.51	5	< 1	113	0.01	5	4	< 10	11	11	2	14		
GC20-0114-021	165	3.96	< 10	< 1	0.19	10	1.46	0.202	0.046	2.41	3	3	144	0.04	< 1	< 2	< 10	44	< 10	3	17		
GC20-0122-019	120	1.83	< 10	< 1	0.22	12	1.33	0.198	0.033	0.85	2	< 1	123	< 0.01	2	3	< 10	10	< 10	2	12		
GC20-0116-009	170	3.58	< 10	< 1	0.10	< 10	1.04	0.335	0.034	2.67	3	1	150	< 0.01	< 1	< 2	< 10	15	11	2	16		
1231039144	152	2.60	< 10	< 1	0.29	21	1.39	0.021	0.056	2.23	6	1	6	< 0.01	< 1	< 2	< 10	14	< 10	2	9	0.18	2.10
1324009056	151	2.25	< 10	1	0.19	13	1.01	0.065	0.039	2.09	4	< 1	38	0.01	< 1	< 2	< 10	7	< 10	2	13	0.52	2.05
1231039050	139	2.96	< 10	< 1	0.35	24	1.04	0.024	0.063	2.94	5	1	10	0.02	< 1	< 2	< 10	14	< 10	2	13	0.09	2.23
1231039319	265	1.75	< 10	< 1	0.24	19	0.49	0.080	0.044	0.78	< 2	1	42	0.04	2	< 2	< 10	13	< 10	2	12	0.28	0.73
1231039298	127	2.72	< 10	< 1	0.21	19	0.85	0.020	0.053	2.89	3	< 1	5	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.08	2.75
1231039078	204	2.01	< 10	< 1	0.23	20	1.17	0.160	0.049	1.40	< 2	1	51	< 0.01	6	< 2	< 10	15	< 10	3	12	0.33	1.41
1324007182	222	3.24	< 10	< 1	0.19	16	0.85	0.153	0.040	2.97	3	1	89	0.03	4	< 2	< 10	11	< 10	2	19	0.19	2.67
1231039001	269	1.91	< 10	< 1	0.28	17	1.07	0.182	0.040	0.36	2	1	55	0.05	< 1	< 2	< 10	20	< 10	2	8	0.22	0.35
1231039357	141	2.76	< 10	< 1	0.24	20	1.13	0.022	0.069	2.53	3	1	6	< 0.01	< 1	< 2	< 10	15	< 10	2	11	0.04	2.35
1231039047	114	2.70	< 10	< 1	0.35	22	1.17	0.021	0.060	2.22	3	1	6	0.02	< 1	< 2	< 10	15	< 10	2	11	0.05	2.15
1324007002	245	2.12	< 10	< 1	0.21	14	0.70	0.133	0.038	1.33	< 2	< 1	66	< 0.01	< 1	< 2	< 10	9	< 10	2	9	0.76	1.25
F001011	12	1.44	< 10	< 1	0.21	18	0.35	0.200	0.038	0.04	< 2	2	34	0.21	2	< 2	< 10	35	< 10	12	18		
1324016097	164	2.60	< 10	< 1	0.19	13	1.12	0.187	0.038	2.21	< 2	< 1	94	< 0.01	4	< 2	< 10	10	< 10	2	15	0.27	2.14
GC20-0130-001	151	3.07	< 10	< 1	0.41	13	1.33	0.057	0.034	2.17	< 2	< 1	26	< 0.01	4	< 2	< 10	10	17	2	21		
1324007008	277	2.97	< 10	< 1	0.18	11	0.91	0.189	0.037	1.20	2	1	106	0.03	< 1	< 2	< 10	21	< 10	2	10	0.33	1.22
1324007054	165	4.33	< 10	< 1	0.02	< 10	1.45	0.706	0.020	0.09	< 2	4	65	0.18	< 1	< 2	< 10	121	< 10	2	2	0.16	0.15
1324007249	217	2.73	< 10	< 1	0.19	17	1.13	0.205	0.042	2.45	2	< 1	111	0.02	4	< 2	< 10	9	< 10	2	17	0.20	1.80
1324007166	220	3.44	< 10	< 1	0.18	15	1.02	0.207	0.041	2.26	< 2	1	139	< 0.01	4	< 2	< 10	13	< 10	2	15	0.20	2.25
GC20-0128-012	103	3.01	< 10	< 1	0.23	14	1.28	0.081	0.035	2.22	< 2	< 1	35	0.01	6	< 2	< 10	8	< 10	2	21		
1324016075	144	2.37	< 10	< 1	0.22	11	1.07	0.071	0.039	1.35	< 2	< 1	42	< 0.01	< 1	< 2	< 10	9	< 10	1	13	0.13	1.32
GC20-0124-020	139	3.26	< 10	< 1	0.21	11	1.12	0.162	0.040	1.06	2	1	131	0.02	3	< 2	< 10	16	< 10	2	13		
GC20-0125-016	140	3.14	< 10	< 1	0.21	12	0.99	0.145	0.037	1.13	< 2	1	123	0.02	< 1	< 2	< 10	14	< 10	2	13		
1324010007	233	2.49	< 10	< 1	0.16	19	1.27	0.116	0.049	1.44	3	1	50	< 0.01	2	< 2	< 10	15	< 10	2	12	0.27	1.44
GC20-0126-013	93	3.14	< 10	< 1	0.26	14	0.91	0.091	0.045	1.79	2	1	53	0.02	5	< 2	< 10	13	< 10	3	18		
GC20-0127-001	226	1.85	< 10	< 1	0.10	12	1.10	0.212	0.035	1.16	5	1	123	< 0.01	3	< 2	< 10	14	12	2	9		
GC20-0127-018	65	2.29	< 10	< 1	0.25	11	1.49	0.143	0.040	0.87	< 2	1	82	< 0.01	< 1	< 2	< 10	13	< 10	2	8		
1324010087	210	2.68	< 10	< 1	0.21	15	1.06	0.079	0.038	1.83	< 2	1	37	0.02	< 1	< 2	< 10	10	< 10	3	16	0.18	1.66
1324016013	180	2.15	< 10	< 1	0.23	13	0.87	0.125	0.034	1.87	< 2	< 1	45	< 0.01	7	< 2	< 10	7	< 10	2	16	0.27	1.90
1324016061	261	2.36	< 10	< 1	0.20	13	0.91	0.210	0.040	2.07	2	< 1	69	< 0.01	< 1	< 2	< 10	9	< 10	2	15	0.25	2.01
1324016096	201	2.67	< 10	< 1	0.21	15	0.94	0.163	0.046	2.46	3	< 1	91	< 0.01	2	2	< 10	9	< 10	2	18	0.22	2.26
F001012	14	1.78	< 10	< 1	0.24	15	0.44	0.205	0.045	0.05	< 2	3	32	0.25	4	< 2	< 10	53	< 10	15	11		
1231036071	126	1.44	< 10	< 1	0.24	16	0.47	0.019	0.040	1.34	< 2	< 1	52	< 0.01	1	< 2	< 10	3	< 10	1	8	0.60	1.34
1231036055	142	1.88	< 10	< 1	0.24	15	0.86	0.146	0.038	1.23	< 2	< 1	69	0.03	< 1	< 2	< 10	13	< 10	1	9	0.41	1.25
1231036172	178	2.09	< 10	< 1	0.30	17	0.95	0.223	0.041	0.58	2	1	86	0.05	1	< 2	< 10	15	< 10	2	6	0.34	0.58
GC20-0087-001	189	3.26	< 10	< 1	0.24	< 10	1.02	0.226	0.037	1.43	< 2	< 1	144	0.02	2	< 2	< 10	8	< 10	1	12		
1231036011	128	1.83	< 10	< 1	0.24	16	0.70	0.100	0.042	1.32	< 2	< 1	45	< 0.01	< 1	< 2	< 10	7	< 10	1	7	0.48	1.33
1324010220	197	4.77	< 10	< 1	0.02	< 10	1.78	0.586	0.019	0.10	3	5	60	0.21	5	< 2	< 10	129	< 10	3	2	0.19	0.16

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0090-013	148	3.11	< 10	< 1	0.14	10	0.64	0.202	0.036	1.80	3	< 1	137	0.02	3	< 2	< 10	9	< 10	1	14		
1324010069	175	4.02	< 10	< 1	0.22	< 10	1.51	0.283	0.030	0.74	3	4	63	0.15	1	< 2	< 10	80	< 10	2	7	0.17	0.72
1324010200	208	4.53	< 10	< 1	0.04	< 10	1.77	0.509	0.020	0.20	2	4	64	0.21	2	< 2	< 10	121	< 10	2	3	0.19	0.25
1324010157	143	3.28	< 10	< 1	0.27	11	1.19	0.084	0.035	2.10	< 2	1	24	0.02	6	< 2	< 10	19	< 10	2	19	0.06	1.94
1231036215	210	2.04	< 10	< 1	0.37	16	1.01	0.202	0.047	0.46	2	2	100	0.08	< 1	< 2	< 10	22	< 10	2	7	0.33	0.45
1231036238	120	0.88	< 10	< 1	0.16	< 10	0.17	0.025	0.031	0.31	< 2	< 1	11	< 0.01	< 1	2	< 10	3	< 10	< 1	3	0.09	0.31
1231036097	191	2.53	< 10	< 1	0.24	18	1.21	0.111	0.048	0.60	< 2	2	62	0.09	< 1	< 2	< 10	28	< 10	2	9	0.48	0.53
1231036001	212	3.67	< 10	< 1	0.12	< 10	1.51	0.464	0.027	0.14	2	5	56	0.17	8	< 2	< 10	94	< 10	2	4	0.20	0.20
1324010228	134	1.71	< 10	< 1	0.23	16	0.56	0.136	0.037	1.16	< 2	< 1	60	0.02	6	< 2	< 10	9	< 10	1	7	0.33	0.94
1231036049	147	4.83	< 10	< 1	0.06	< 10	1.98	0.626	0.019	0.08	2	8	80	0.19	3	< 2	< 10	135	< 10	3	2	0.25	0.14
GC20-0086-006	104	3.75	< 10	< 1	0.21	< 10	1.11	0.124	0.032	1.32	5	< 1	78	0.03	3	< 2	< 10	9	< 10	1	14		
GC20-0082-001	198	1.95	< 10	< 1	0.45	14	0.91	0.249	0.036	1.18	3	< 1	142	0.02	< 1	< 2	< 10	11	< 10	1	10		
GC20-0081-014	180	4.63	< 10	1	1.19	82	3.00	0.107	0.243	0.02	4	12	255	0.23	< 1	< 2	< 10	114	< 10	8	4		
1231036079	158	1.80	< 10	< 1	0.30	16	0.26	0.023	0.046	1.81	3	< 1	40	< 0.01	< 1	< 2	< 10	4	< 10	2	9	0.45	1.73
GC20-0083-001	256	2.85	< 10	< 1	0.21	15	0.93	0.058	0.044	1.72	< 2	2	33	0.01	5	< 2	< 10	18	< 10	2	13		
1231036131	206	2.24	< 10	< 1	0.31	17	0.96	0.239	0.047	0.46	< 2	1	131	0.09	< 1	< 2	< 10	22	< 10	1	7	0.43	0.46
F001016	14	1.82	< 10	< 1	0.25	14	0.45	0.211	0.046	0.05	< 2	3	32	0.24	2	< 2	10	53	< 10	15	8		
1324007013	182	2.27	< 10	< 1	0.29	17	0.96	0.172	0.048	0.68	3	2	137	0.04	< 1	< 2	< 10	18	< 10	2	7	0.13	0.56
GC20-0139-001	205	2.88	< 10	< 1	0.53	27	1.09	0.102	0.068	1.41	3	3	78	0.06	2	< 2	< 10	26	< 10	3	13		
1324007030	222	4.32	< 10	< 1	0.02	< 10	1.51	0.656	0.019	0.08	< 2	4	64	0.19	< 1	< 2	< 10	122	< 10	2	2	0.13	0.13
GC20-0137-001	128	3.49	< 10	< 1	0.25	15	1.41	0.168	0.039	1.60	3	1	71	0.04	< 1	< 2	< 10	14	< 10	2	16		
GC20-0136-001	227	2.22	< 10	< 1	0.28	15	0.60	0.185	0.043	2.01	2	< 1	68	0.01	5	< 2	< 10	9	19	2	17		
1324007028	214	3.66	< 10	< 1	0.13	< 10	1.39	0.497	0.030	0.26	< 2	4	107	0.15	4	< 2	< 10	87	< 10	2	5	0.29	0.28
1324016331	186	3.40	< 10	< 1	0.20	16	1.67	0.131	0.047	1.84	3	1	51	< 0.01	2	< 2	< 10	15	< 10	2	17	0.14	1.79
GC20-0141-001	181	4.30	< 10	< 1	0.26	< 10	0.95	0.074	0.034	1.16	3	< 1	50	0.02	1	< 2	< 10	10	< 10	2	15		
1231038065	385	1.91	< 10	< 1	0.27	20	0.63	0.069	0.044	0.03	< 2	2	53	0.10	4	< 2	< 10	20	< 10	2	12	0.46	0.10
1231038126	338	1.88	< 10	< 1	0.41	20	0.58	0.071	0.046	0.05	< 2	2	43	0.10	4	< 2	< 10	21	< 10	2	10	0.42	0.11
1324016263	307	3.01	< 10	< 1	0.19	16	1.14	0.345	0.051	2.61	3	1	157	0.01	4	< 2	< 10	15	< 10	2	17	0.20	2.36
1324010232	268	2.56	< 10	< 1	0.19	20	1.00	0.189	0.047	2.23	2	< 1	57	< 0.01	2	< 2	< 10	7	< 10	2	13	0.27	2.15
1324010136	260	2.64	< 10	< 1	0.18	17	1.17	0.288	0.051	1.81	2	< 1	118	0.02	< 1	< 2	< 10	12	< 10	2	11	0.26	1.75
1324010001	267	2.52	< 10	< 1	0.28	16	1.18	0.193	0.045	1.45	< 2	1	75	0.03	< 1	< 2	< 10	14	< 10	2	15	0.27	1.39
GC20-0135-001	161	3.09	< 10	< 1	0.29	13	1.12	0.050	0.039	2.44	< 2	< 1	23	< 0.01	< 1	< 2	< 10	8	< 10	2	22		
1324010047	167	2.30	< 10	< 1	0.20	19	0.89	0.097	0.050	1.59	2	< 1	45	0.02	1	< 2	< 10	10	< 10	2	16	0.11	1.49
1231038231	137	2.46	< 10	< 1	0.39	19	1.33	0.056	0.050	1.47	< 2	1	23	0.03	< 1	< 2	< 10	15	< 10	2	9	0.64	1.42
1231038176	303	1.80	< 10	< 1	0.33	19	0.67	0.113	0.044	0.16	< 2	1	82	0.08	3	< 2	< 10	17	< 10	2	8	0.54	0.13
GC20-0129-012	133	3.80	< 10	< 1	0.23	14	1.55	0.051	0.043	2.60	2	1	21	< 0.01	< 1	< 2	< 10	14	< 10	3	17		
F001019	13	1.52	< 10	< 1	0.22	19	0.37	0.218	0.040	0.04	< 2	2	37	0.22	6	< 2	< 10	37	< 10	13	11		
1231039148	153	4.84	< 10	< 1	0.20	20	0.96	0.030	0.059	5.06	3	< 1	7	< 0.01	< 1	< 2	< 10	8	< 10	2	9	0.07	4.68
GC20-0109-012	127	3.96	< 10	< 1	0.20	10	0.93	0.129	0.034	1.74	4	< 1	65	0.02	6	< 2	< 10	8	< 10	2	17		
GC20-0109-001	259	5.35	< 10	< 1	0.20	< 10	2.48	0.036	0.041	2.93	3	2	20	< 0.01	3	< 2	< 10	26	< 10	3	14		
1231039189	138	3.98	< 10	< 1	0.20	20	1.42	0.025	0.053	3.60	4	< 1	5	< 0.01	< 1	< 2	< 10	10	< 10	1	8	0.11	3.39
1231039061	117	4.36	< 10	< 1	0.19	16	1.35	0.025	0.068	3.91	3	< 1	5	< 0.01	6	< 2	< 10	9	< 10	1	7	0.11	3.80
1231039152	195	4.64	< 10	< 1	0.16	16	0.49	0.026	0.063	5.49	5	< 1	5	< 0.01	1	< 2	< 10	6	< 10	1	8	0.13	5.05
1231039194	162	5.70	< 10	2	0.16	14	0.52	0.030	0.051	6.77	15	< 1	7	< 0.01	< 1	< 2	< 10	7	< 10	1	8	0.09	4.34
GC20-0111-021	128	2.73	< 10	< 1	0.18	10	0.74	0.139	0.035	1.49	2	< 1	89	0.02	< 1	< 2	< 10	8	< 10	1	13		
GC20-0110-001	210	3.22	< 10	< 1	0.12	13	0.95	0.118	0.047	1.70	2	< 1	106	< 0.01	4	< 2	< 10	12	< 10	1	10		
1231039058	116	3.02	< 10	< 1	0.36	20	1.52	0.022	0.055	2.38	2	1	5	0.01	< 1	< 2	< 10	13	< 10	2	8	0.16	2.26
GC20-0110-021	135	2.83	< 10	< 1	0.15	11	0.74	0.160	0.033	1.28	3	< 1	105	0.02	< 1	< 2	< 10	8	< 10	1	11		
1324011220	226	3.18	< 10	< 1	0.22	18	1.08	0.111	0.046	2.34	< 2	< 1	41	0.02	< 1	< 2	< 10	8	< 10	2	16	0.26	2.30
1324010263	243	3.10	< 10	< 1	0.20	15	1.18	0.123	0.040	2.85	3	< 1	35	< 0.01	< 1	< 2	< 10	9	< 10	2	20	0.31	2.78
GC20-0101-019	142	4.16	< 10	< 1	0.20	14	0.99	0.178	0.057	4.12	2	2	101	< 0.01	2	< 2	< 10	15	< 10	3	23		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0104-021	149	2.51	< 10	< 1	0.17	< 10	0.51	0.218	0.034	1.17	< 2	< 1	146	0.02	< 1	< 2	< 10	7	< 10	1	10		
GC20-0106-018	159	1.57	< 10	< 1	0.18	< 10	1.33	0.218	0.040	0.25	2	2	169	0.02	< 1	< 2	< 10	21	< 10	2	7		
1231039248	204	3.93	< 10	< 1	0.22	16	0.97	0.045	0.045	3.74	4	1	15	0.01	< 1	< 2	< 10	13	< 10	2	11	0.19	3.61
GC20-108-002	210	2.60	< 10	< 1	0.21	11	0.65	0.280	0.033	1.22	3	< 1	179	0.01	< 1	< 2	< 10	8	< 10	1	9		
1324010295	211	3.19	< 10	< 1	0.23	15	1.48	0.230	0.040	1.76	4	2	39	0.06	< 1	< 2	< 10	36	< 10	3	13	0.26	1.76
1324006050	270	4.73	< 10	< 1	0.04	< 10	1.93	0.543	0.022	0.23	< 2	4	80	0.19	< 1	< 2	< 10	113	< 10	2	3	0.24	0.21
1324010290	322	4.67	< 10	< 1	0.03	< 10	1.51	0.726	0.021	0.15	2	4	66	0.18	4	< 2	< 10	122	< 10	2	2	0.41	0.15
GC20-0106-008	151	2.96	< 10	< 1	0.22	12	0.56	0.341	0.032	1.44	< 2	< 1	228	0.04	2	< 2	< 10	8	< 10	1	13		
GC20-105-012	133	2.94	< 10	< 1	0.19	< 10	0.59	0.328	0.033	1.26	2	< 1	210	0.03	8	< 2	< 10	9	< 10	1	11		
GC20-0103-004	150	3.48	< 10	< 1	0.21	14	1.13	0.129	0.038	1.82	2	1	101	0.01	4	< 2	< 10	14	< 10	2	13		
GC20-0112-004	199	3.75	< 10	< 1	0.22	< 10	0.62	0.205	0.031	2.68	3	< 1	113	0.01	3	< 2	< 10	7	< 10	1	15		
F001015	13	1.47	< 10	< 1	0.21	19	0.36	0.204	0.039	0.04	< 2	2	34	0.21	3	< 2	< 10	35	< 10	13	18		
GC20-0098-020	138	2.79	< 10	< 1	0.15	18	0.54	0.085	0.035	2.42	< 2	< 1	67	< 0.01	2	< 2	< 10	8	< 10	2	11		
GC20-0096-009FD	223	2.57	< 10	< 1	0.16	14	0.93	0.213	0.037	0.95	2	< 1	137	< 0.01	< 1	< 2	< 10	11	< 10	2	7		
1324006013	213	2.83	< 10	< 1	0.18	19	1.40	0.132	0.045	2.16	< 2	1	43	0.03	< 1	< 2	< 10	17	< 10	3	16	0.29	2.13
GC20-0096-008	192	2.83	< 10	< 1	0.19	19	1.02	0.133	0.038	0.99	< 2	1	82	< 0.01	4	3	< 10	13	< 10	2	7		
GC20-0099-013	119	3.32	< 10	< 1	0.25	12	0.51	0.105	0.033	2.19	< 2	< 1	77	0.02	5	< 2	< 10	6	< 10	2	17		
1324010184	356	4.00	< 10	< 1	0.19	16	1.44	0.187	0.046	3.46	6	2	53	0.01	< 1	< 2	< 10	23	< 10	5	15	0.58	2.64
GC20-0105-001	158	3.29	< 10	2	0.17	10	0.74	0.181	0.031	1.82	2	< 1	103	0.02	< 1	3	< 10	7	< 10	2	13		
GC20-0101-001	228	3.25	< 10	< 1	0.14	12	0.75	0.327	0.035	1.71	3	< 1	197	0.01	< 1	< 2	< 10	8	12	1	12		
GC20-0101-012	166	1.53	< 10	< 1	0.18	< 10	1.24	0.419	0.039	0.43	< 2	1	298	< 0.01	< 1	< 2	< 10	14	< 10	2	5		
GC20-0095-004	168	2.47	< 10	< 1	0.16	12	0.90	0.152	0.037	1.21	3	< 1	99	< 0.01	2	< 2	< 10	10	< 10	2	9		
1324010240	235	2.48	< 10	< 1	0.20	16	1.08	0.206	0.040	2.19	3	< 1	55	< 0.01	2	2	< 10	9	< 10	2	13	0.32	2.09
GC20-0089-010	124	3.26	< 10	< 1	0.16	12	0.75	0.244	0.035	2.33	3	< 1	106	< 0.01	2	< 2	< 10	8	< 10	2	12		
GC20-0093-001	218	4.19	< 10	1	0.25	15	0.86	0.192	0.035	1.74	2	< 1	102	0.01	7	< 2	< 10	9	< 10	2	13		
1324006047	152	2.66	< 10	< 1	0.19	11	1.00	0.159	0.037	2.04	< 2	2	45	0.03	< 1	< 2	< 10	16	< 10	2	20	0.17	1.95
GC20-0094-005	158	2.28	< 10	< 1	0.19	10	1.13	0.160	0.036	1.55	< 2	1	81	< 0.01	1	< 2	< 10	10	< 10	2	14		
1324006002	114	2.74	< 10	< 1	0.19	17	0.80	0.140	0.045	2.51	< 2	< 1	39	0.02	3	< 2	< 10	11	< 10	2	19	0.07	1.99
1324006001	190	3.36	< 10	2	0.18	14	0.96	0.178	0.039	3.03	< 2	1	48	0.02	1	< 2	< 10	14	< 10	2	22	0.26	3.04
GC20-0090-021	125	2.09	< 10	1	0.16	14	0.71	0.119	0.037	1.17	2	< 1	101	< 0.01	3	< 2	< 10	10	< 10	2	9		
GC20-0095-016	139	2.56	< 10	< 1	0.16	11	0.61	0.221	0.033	1.79	< 2	< 1	116	< 0.01	< 1	< 2	< 10	7	< 10	1	12		
GC20-0098-001	202	2.23	< 10	< 1	0.17	< 10	0.71	0.204	0.040	1.27	< 2	< 1	117	< 0.01	< 1	3	< 10	7	< 10	1	7		
F001005	14	1.77	< 10	< 1	0.24	15	0.44	0.205	0.045	0.05	< 2	3	31	0.24	< 1	< 2	< 10	52	< 10	14	8		
GC20-0153-006	179	3.86	< 10	< 1	0.13	13	1.08	0.105	0.039	1.22	3	1	87	0.02	1	< 2	< 10	18	< 10	2	12		
1324007232	188	2.59	< 10	< 1	0.19	15	0.98	0.184	0.040	2.45	< 2	1	46	0.02	< 1	< 2	< 10	13	< 10	2	19	0.13	2.37
1324016211	187	2.45	< 10	< 1	0.15	13	1.08	0.261	0.041	2.02	< 2	< 1	129	< 0.01	4	< 2	< 10	11	< 10	2	14	0.18	1.97
1324007271	279	2.52	< 10	< 1	0.20	15	1.12	0.265	0.044	2.20	3	< 1	139	< 0.01	< 1	< 2	< 10	9	< 10	2	11	0.26	2.12
1324007094	212	2.66	< 10	< 1	0.14	16	1.08	0.177	0.046	0.78	< 2	1	171	0.01	3	2	< 10	16	< 10	2	8	0.15	0.80
GC20-0142-001	139	4.83	< 10	< 1	0.21	10	0.86	0.039	0.029	1.66	3	< 1	24	0.04	2	< 2	< 10	10	< 10	2	17		
1324016240	263	2.88	< 10	< 1	0.14	15	1.09	0.284	0.049	2.18	3	1	126	0.01	< 1	< 2	< 10	16	< 10	2	14	0.25	2.16

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Meas																							
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SGR-1b Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		41.8				5.68																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		41.8				8.25																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402						< 2		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416						< 2		49
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2960																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2970																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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Oreas E1336 (Fire Assay) Meas							509																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							498																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0078-009FD Orig							34																
GC20-0078-009FD Dup							36																
1324099013 Orig							12																
1324099013 Dup							15																
GC20-0116-009 Orig								0.3	< 0.5	36	219	< 1	14	< 2	24	3.74	8	< 10	20	< 0.5	5	1.49	8
GC20-0116-009 Dup								0.3	< 0.5	39	223	< 1	15	2	24	3.85	7	< 10	20	< 0.5	4	1.50	8
1231039144 Orig																							
1231039144 Dup																							
1231039078 Orig							20																
1231039078 Dup							18																
1231039047 Orig	55.0	3.23	-51.8	65.8	0.0491		408																
1231039047 Dup	55.0	3.23	-51.7	65.8	0.0491		357																
1324016097 Orig																							
1324016097 Dup																							
GC20-0130-001 Orig								0.4	< 0.5	103	321	< 1	10	< 2	68	2.01	14	< 10	31	< 0.5	< 2	0.58	8
GC20-0130-001 Dup								0.4	< 0.5	103	329	< 1	10	< 2	68	2.06	13	< 10	29	< 0.5	< 2	0.60	9
1324010087 Orig								0.6	4.0	56	492	< 1	14	2	1010	1.88	11	< 10	38	< 0.5	< 2	0.49	9
1324010087 Dup								0.7	3.8	59	488	< 1	14	< 2	973	1.84	11	< 10	39	< 0.5	2	0.49	8
1324016061 Orig						8.78																	
1324016061 Dup						8.79																	
1324016096 Orig																							
1324016096 Dup																							
1231036071 Orig							52																
1231036071 Dup							52																
1324010157 Orig							148	1.1	< 0.5	269	297	< 1	15	< 2	83	1.96	9	< 10	33	< 0.5	11	0.52	8
1324010157 Dup							161	1.1	< 0.5	274	297	< 1	15	< 2	87	1.97	7	< 10	36	< 0.5	11	0.52	9
1231036097 Orig																							
1231036097 Dup																							
1231036001 Orig							8																
1231036001 Dup							6																
1231038065 Orig																							
1231038065 Dup																							
1231038126 Orig								< 0.2	< 0.5	12	299	< 1	17	< 2	52	1.06	3	< 10	83	< 0.5	< 2	1.18	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1231038126 Dup								< 0.2	< 0.5	11	299	< 1	17	2	53	1.06	< 2	< 10	85	< 0.5	< 2	1.19	8
1324010232 Orig							260																
1324010232 Dup							249																
1231039189 Orig								7.2	21.2	101	1120	< 1	22	458	4480	1.60	204	< 10	16	< 0.5	5	0.14	11
1231039189 Dup								5.5	21.6	98	1130	< 1	20	463	4530	1.61	210	< 10	16	< 0.5	< 2	0.15	11
1231039061 Orig																							
1231039061 Dup																							
1231039152 Orig						4.70	742																
1231039152 Dup						4.70	830																
1231039194 Orig	121	2.81	-118	133	0.0211																		
1231039194 Dup	121	2.75	-118	133	0.0207																		
1231039248 Orig								4.3	8.6	151	819	< 1	19	235	1910	1.32	203	< 10	20	< 0.5	4	0.49	10
1231039248 Dup								4.4	8.6	149	800	< 1	19	236	1870	1.30	197	< 10	21	< 0.5	< 2	0.48	10
1324006013 Orig																							
1324006013 Dup																							
GC20-0099-013 Orig								1.6	< 0.5	756	236	< 1	8	< 2	33	1.99	8	< 10	20	< 0.5	14	0.64	6
GC20-0099-013 Dup								1.6	< 0.5	758	228	< 1	6	< 2	32	1.92	9	< 10	37	< 0.5	15	0.61	6
1324010240 Orig							66																
1324010240 Dup							94																
F001005 Orig								1.6	< 0.5	63	228	12	8	19	44	1.26	< 2	< 10	45	< 0.5	< 2	0.83	7
F001005 Dup								1.6	< 0.5	47	230	17	11	18	40	1.27	< 2	< 10	45	< 0.5	< 2	0.83	7
1324007094 Orig						8.87																	
1324007094 Dup						8.87																	
1324016240 Orig	55.9	10.7	-45.2	66.2	0.162																		
1324016240 Dup	55.9	10.9	-45.0	66.2	0.164																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
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Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	73	5.19	20	< 1	1.09	< 10	0.37	0.085	0.031	0.01	4	23	33		< 1	< 2	< 10	161	< 10	6	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.54	20	< 1	1.15	10	0.39	0.077	0.034	0.01	6	24	31		< 1	2	< 10	170	< 10	6	13		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.73	20	1	1.09	< 10	0.39	0.077	0.034	0.01	5	16	24		< 1	< 2	< 10	161	< 10	3	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	80	5.90	20	1	1.12	< 10	0.40	0.081	0.035	0.01	4	17	26		< 1	2	< 10	164	< 10	3	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
SGR-1b Meas																						27.3	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.68
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.1	1.56
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.63
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.60
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02		29	15	0.13		< 2	< 10	194		6	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.31
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Cert																							
GC20-0078-009FD Orig																							
GC20-0078-009FD Dup																							
1324099013 Orig																							
1324099013 Dup																							
GC20-0116-009 Orig	172	3.51	< 10	< 1	0.10	< 10	1.02	0.330	0.034	2.60	3	1	148	< 0.01	< 1	< 2	< 10	14	11	2	16		
GC20-0116-009 Dup	169	3.66	< 10	< 1	0.10	< 10	1.05	0.339	0.034	2.74	3	1	152	< 0.01	< 1	< 2	< 10	15	11	2	16		
1231039144 Orig																						0.18	2.13
1231039144 Dup																						0.18	2.07
1231039078 Orig																							
1231039078 Dup																							
1231039047 Orig																							
1231039047 Dup																							
1324016097 Orig																						0.27	2.14
1324016097 Dup																						0.28	2.14
GC20-0130-001 Orig	150	3.03	< 10	< 1	0.40	13	1.32	0.056	0.034	2.15	3	< 1	25	< 0.01	3	< 2	< 10	10	16	2	21		
GC20-0130-001 Dup	152	3.10	< 10	< 1	0.42	13	1.35	0.058	0.035	2.19	< 2	1	26	< 0.01	5	< 2	< 10	10	17	2	21		
1324010087 Orig	210	2.69	< 10	< 1	0.21	15	1.06	0.080	0.038	1.85	< 2	1	38	0.02	< 1	< 2	< 10	10	< 10	3	16		
1324010087 Dup	210	2.66	< 10	< 1	0.21	15	1.05	0.078	0.037	1.80	< 2	1	37	0.02	1	< 2	< 10	10	< 10	3	16		
1324016061 Orig																							
1324016061 Dup																							
1324016096 Orig																						0.21	2.22
1324016096 Dup																						0.22	2.30
1231036071 Orig																							
1231036071 Dup																							
1324010157 Orig	143	3.26	< 10	< 1	0.27	11	1.19	0.084	0.035	2.08	< 2	1	24	0.02	4	< 2	< 10	19	< 10	2	19		
1324010157 Dup	143	3.30	< 10	< 1	0.27	12	1.20	0.084	0.035	2.12	< 2	1	23	0.02	8	< 2	< 10	19	< 10	2	19		
1231036097 Orig																						0.47	0.51
1231036097 Dup																						0.48	0.56
1231036001 Orig																							
1231036001 Dup																							
1231038065 Orig																						0.46	0.10
1231038065 Dup																						0.46	0.10
1231038126 Orig	337	1.88	< 10	< 1	0.41	20	0.58	0.070	0.046	0.05	3	2	43	0.09	5	< 2	< 10	21	< 10	2	10		
1231038126 Dup	339	1.87	< 10	< 1	0.41	20	0.58	0.072	0.046	0.05	< 2	2	43	0.10	2	< 2	< 10	21	< 10	2	10		
1324010232 Orig																							
1324010232 Dup																							
1231039189 Orig	137	3.97	< 10	1	0.20	20	1.42	0.025	0.052	3.61	4	< 1	5	< 0.01	< 1	< 2	< 10	10	< 10	1	8		
1231039189 Dup	140	3.98	< 10	< 1	0.21	20	1.43	0.025	0.053	3.60	5	< 1	5	< 0.01	< 1	< 2	< 10	10	< 10	1	8		
1231039061 Orig																						0.11	3.77
1231039061 Dup																						0.12	3.83
1231039152 Orig																							
1231039152 Dup																							
1231039194 Orig																							
1231039194 Dup																							
1231039248 Orig	204	3.96	< 10	< 1	0.22	16	0.98	0.046	0.045	3.78	4	1	15	0.01	2	< 2	< 10	13	< 10	2	11		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231039248 Dup	204	3.90	< 10	< 1	0.22	16	0.97	0.045	0.045	3.70	4	1	15	0.01	< 1	< 2	< 10	13	< 10	2	10		
1324006013 Orig																						0.29	2.14
1324006013 Dup																						0.29	2.11
GC20-0099-013 Orig	121	3.41	< 10	< 1	0.25	12	0.52	0.106	0.033	2.25	< 2	< 1	78	0.02	7	< 2	< 10	6	< 10	2	17		
GC20-0099-013 Dup	117	3.24	< 10	< 1	0.25	12	0.50	0.104	0.032	2.14	2	< 1	76	0.02	3	< 2	< 10	6	< 10	2	17		
1324010240 Orig																							
1324010240 Dup																							
F001005 Orig	13	1.77	< 10	< 1	0.24	15	0.44	0.204	0.045	0.05	< 2	3	31	0.24	4	< 2	< 10	52	< 10	14	8		
F001005 Dup	14	1.78	< 10	< 1	0.24	15	0.44	0.205	0.045	0.05	< 2	3	32	0.24	< 1	< 2	11	52	< 10	14	7		
1324007094 Orig																							
1324007094 Dup																							
1324016240 Orig																						0.24	2.18
1324016240 Dup																						0.25	2.14
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10431**
Report Date:	**20-Nov-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-10 13:15:42
4F-C, S	Infrared	2020-10-14 20:59:17

REPORT **A20-10431**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: insufficient material for sample F000730 and F001017

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.:	**A20-10431**
Report Date:	**20-Nov-20**
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New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-22 09:03:54
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-23 14:55:49

REPORT **A20-10431**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: insufficient material for sample F000730 and F001017

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324005062	41.9	20.3	-21.6	50.8	0.399	8.32	384	0.7	< 0.5	157	563	3	16	< 2	128	1.23	5	< 10	37	< 0.5	< 2	1.04	9
GC20-0034-001							116	0.5	< 0.5	80	220	< 1	16	< 2	34	2.32	8	< 10	32	< 0.5	4	1.10	10
GC20-0030-019							211	1.3	1.1	15	522	< 1	73	< 2	267	1.28	16	< 10	27	< 0.5	< 2	1.68	56
GC20-0030-001							82	0.5	0.8	42	809	< 1	19	3	245	2.07	8	< 10	47	< 0.5	< 2	0.97	10
1324005053	53.7	13.9	-39.8	60.6	0.230	8.36	263	0.8	< 0.5	169	490	3	14	2	64	1.86	10	< 10	37	< 0.5	< 2	1.43	10
1231034626	79.4	33.6	-45.8	92.5	0.363	8.27	206	9.4	2.4	46	910	< 1	17	374	721	0.60	80	< 10	24	< 0.5	< 2	1.30	12
1231034236	9.06	10.6	1.54	8.88	1.19	8.67	28	0.4	< 0.5	117	536	2	42	8	103	4.59	8	< 10	24	< 0.5	< 2	3.10	22
1231034358	20.1	24.4	4.34	23.0	1.06	8.94	13	0.4	< 0.5	17	814	< 1	18	5	125	2.37	9	< 10	65	< 0.5	< 2	1.83	11
GC20-0026-011							106	0.4	0.5	17	702	< 1	11	4	141	1.72	14	< 10	51	< 0.5	< 2	1.84	10
1324005001	35.1	15.4	-19.7	38.9	0.395	8.70	219	0.6	0.7	72	611	3	15	11	235	2.14	14	< 10	33	< 0.5	< 2	1.49	8
1324005317	88.3	5.17	-83.1	93.4	0.0554	8.04	153	1.2	1.8	166	409	< 1	15	3	502	1.78	16	< 10	26	< 0.5	4	0.45	9
1324005002	52.4	16.3	-36.1	57.9	0.282	8.43	321	0.7	< 0.5	111	599	2	14	11	136	2.08	20	< 10	38	< 0.5	< 2	1.45	10
GC20-0027-008							118	0.7	< 0.5	123	447	< 1	12	< 2	81	2.12	19	< 10	36	< 0.5	6	0.15	10
GC20-0028-001							151	1.5	< 0.5	293	260	< 1	15	2	94	1.74	25	< 10	24	< 0.5	6	0.18	11
GC20-0035-013							140	1.5	2.2	19	500	< 1	12	5	518	2.47	23	< 10	38	< 0.5	6	1.13	10
GC20-0028-018							97	0.4	< 0.5	13	562	< 1	12	< 2	44	1.56	16	< 10	30	< 0.5	< 2	1.02	10
1231034128	47.6	43.8	-3.81	53.0	0.826	8.50	69	7.1	0.5	22	1510	1	12	75	185	0.52	72	< 10	24	< 0.5	< 2	1.65	8
GC20-0031-014							149	0.9	< 0.5	22	194	< 1	81	2	50	1.14	36	< 10	11	< 0.5	4	0.38	72
GC20-0002-014							169	0.6	1.5	108	532	2	13	3	302	2.09	28	< 10	27	< 0.5	4	1.17	11
F000730							1950																
1324005025	46.1	23.1	-23.0	50.8	0.455	8.43	3250	0.7	< 0.5	121	558	3	15	< 2	90	1.13	7	< 10	41	< 0.5	< 2	1.10	9
1324005076	38.2	12.6	-25.6	41.7	0.303	8.58	1120	0.7	< 0.5	129	468	2	14	4	94	2.38	8	< 10	40	< 0.5	< 2	1.39	9
1231034038	63.4	39.8	-23.6	72.0	0.554	8.26	385	7.4	6.1	52	772	< 1	11	1030	1790	0.95	56	< 10	24	< 0.5	< 2	1.57	8
1231034185	37.4	45.9	8.48	41.3	1.11	8.48	322	1.0	0.6	26	592	< 1	10	79	204	0.86	28	< 10	25	< 0.5	< 2	1.71	10
1324004130	56.1	23.5	-32.7	60.9	0.385	8.50	241	2.4	3.4	76	653	2	14	22	862	0.87	55	< 10	26	< 0.5	< 2	1.06	9
1231034040	34.2	19.8	-14.4	37.7	0.526	8.45	266	0.2	< 0.5	45	593	2	13	27	107	1.78	20	< 10	42	< 0.5	< 2	1.33	11
1324004129	37.1	16.0	-21.1	40.7	0.393	8.42	207	1.2	2.0	25	273	2	14	15	512	0.84	40	< 10	25	< 0.5	< 2	0.76	6
1231034252	13.8	35.4	21.6	16.8	2.10	9.12	18	0.4	1.2	37	875	2	19	4	413	1.85	9	< 10	65	< 0.5	< 2	1.80	11
1324004158	16.3	4.54	-11.7	15.9	0.285	8.37	36	< 0.2	0.8	15	217	2	14	4	241	0.99	11	< 10	30	< 0.5	< 2	0.27	8
1324004183	40.5	30.7	-9.81	48.4	0.634	8.54	> 5000	1.5	12.2	75	610	3	11	9	2830	0.60	96	< 10	23	< 0.5	< 2	1.32	9
1324004104	83.0	29.3	-53.7	92.5	0.317	8.18	133	1.9	14.4	55	483	2	14	16	3440	1.14	53	< 10	21	< 0.5	< 2	1.44	11
1324004029	68.8	30.2	-38.6	74.1	0.408	8.58	631	1.0	1.0	17	635	2	14	27	303	1.18	104	< 10	21	< 0.5	< 2	1.28	10
1324004006	63.2	52.0	-11.2	70.7	0.735	8.57	312	2.8	6.7	84	669	2	15	64	1540	0.63	102	< 10	20	< 0.5	< 2	1.89	8
1324004048	44.2	17.4	-26.7	50.8	0.343	8.62	> 5000	2.0	4.8	31	851	2	10	190	1180	0.72	128	< 10	28	< 0.5	< 2	1.19	9
GC20-0036-017							182	1.5	2.5	56	608	3	13	4	655	2.69	18	< 10	45	< 0.5	< 2	1.47	8
1324004237	45.9	41.2	-4.68	53.6	0.770	8.60	322	0.4	11.3	43	1030	3	11	9	2710	0.82	95	< 10	23	< 0.5	< 2	1.71	8
GC20-0037-013							161	4.4	34.0	351	890	2	34	3	8730	2.98	31	< 10	24	< 0.5	< 2	1.24	24
1324004001	74.1	37.9	-36.3	89.1	0.425	8.44	255	2.0	3.8	40	1100	2	12	45	771	0.61	92	< 10	22	< 0.5	< 2	1.73	11
GC20-0045-009							123	0.3	0.6	17	818	3	16	< 2	181	2.67	15	< 10	52	< 0.5	< 2	1.51	9
1324004240	54.2	24.8	-29.5	67.1	0.369	8.49	599	1.2	25.3	95	603	2	10	14	6390	0.95	192	< 10	24	< 0.5	< 2	1.00	7
F000728							977	2.9	< 0.5	31	261	3	7	17	44	1.23	< 2	< 10	44	< 0.5	< 2	0.75	9
GC20-0039-009							431	1.4	4.5	180	740	2	48	3	1140	2.53	59	< 10	< 10	< 0.5	3	0.72	35
1324004173	73.5	10.7	-62.8	89.4	0.119	8.03	98	0.8	38.7	99	440	2	13	13	9220	0.47	90	< 10	20	< 0.5	< 2	0.50	10
1324004057	7.81	3.62	-4.20	7.66	0.472	8.24	17	< 0.2	< 0.5	16	196	3	12	3	92	2.20	14	< 10	16	< 0.5	< 2	0.53	7
GC20-0042-005							1180	0.4	< 0.5	93	441	3	12	< 2	68	2.17	7	< 10	40	< 0.5	< 2	0.83	8
GC20-0044-001							1100	3.9	2.3	703	788	3	42	3	529	2.25	51	< 10	32	< 0.5	4	0.85	24
GC20-0038-004							83	0.2	< 0.5	71	782	3	16	4	81	2.23	15	< 10	57	< 0.5	< 2	2.38	16
GC20-0043-013							116	0.8	< 0.5	59	853	2	12	7	142	2.17	22	< 10	62	< 0.5	< 2	1.84	8
1231034090	4.06	10.8	6.74	3.98	2.71	8.86	9	< 0.2	< 0.5	128	516	2	49	< 2	51	5.12	< 2	< 10	19	< 0.5	< 2	3.45	24

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225026202	53.4	20.1	-33.3	58.2	0.346	8.51	342	2.3	< 0.5	397	521	3	11	5	51	1.70	10	< 10	54	< 0.5	4	1.37	8
1324004218	37.0	18.8	-18.2	41.0	0.458	8.60	186	0.3	2.5	24	550	3	13	6	674	1.15	47	< 10	32	< 0.5	< 2	0.86	8
1225026071	25.6	9.42	-16.2	28.8	0.327	8.66	435	3.8	1.0	174	686	2	14	5	317	1.86	12	< 10	42	< 0.5	< 2	0.52	9
1225026180	65.9	13.8	-52.1	70.1	0.197	8.44	291	3.1	< 0.5	284	523	5	10	17	60	1.89	11	< 10	52	< 0.5	4	1.13	8
GC20-0048-006							448	4.6	24.9	372	1210	5	66	3	5100	4.41	64	< 10	17	< 0.5	3	1.19	49
GC20-0047-003							115	0.2	0.7	27	642	3	14	< 2	264	2.20	13	< 10	38	< 0.5	< 2	0.59	8
GC20-0040-011							181	0.9	0.6	14	703	2	10	6	196	2.89	29	< 10	67	< 0.5	< 2	1.44	11
1231034001	11.6	22.9	11.3	11.3	2.02	9.04	31	0.3	< 0.5	89	505	2	18	< 2	113	2.44	6	< 10	44	< 0.5	< 2	1.79	11
1324004077	59.6	16.3	-43.2	68.6	0.238	8.34	1160	0.7	17.7	66	400	2	12	6	4320	0.98	70	< 10	39	< 0.5	< 2	0.79	10
F000744							772	2.9	< 0.5	32	269	17	11	14	44	1.33	2	< 10	58	< 0.5	< 2	1.86	11
1225026033	138	30.9	-107	157	0.197	8.01	110	1.8	< 0.5	99	681	3	70	18	141	2.60	31	< 10	23	< 0.5	6	1.46	29
GC20-0055-001							551	3.2	1.0	563	564	4	22	3	303	2.50	33	< 10	33	< 0.5	4	0.72	16
1225026051	87.8	6.99	-80.8	94.3	0.0741	8.10	242	1.6	< 0.5	147	703	5	18	3	149	2.35	26	< 10	53	< 0.5	< 2	1.44	11
GC20-0042-014							101	0.6	2.2	8	695	2	13	4	373	2.59	12	< 10	55	< 0.5	< 2	1.53	9
1231034326	49.8	43.3	-6.47	53.9	0.804	8.82	365	0.9	1.4	70	664	2	11	325	431	0.80	43	< 10	45	< 0.5	< 2	1.75	14
1324006070	41.1	23.3	-17.9	44.4	0.524	8.79	152	0.2	0.7	76	426	4	13	< 2	201	1.03	7	< 10	48	< 0.5	< 2	1.01	8
GC20-0053-018							1780	2.0	11.9	379	868	2	31	2	2740	2.90	47	< 10	15	< 0.5	< 2	0.77	28
GC20-0053-001							111	0.2	< 0.5	49	304	3	9	< 2	92	3.51	7	< 10	41	< 0.5	< 2	1.86	9
1225026057	65.8	28.8	-37.0	72.0	0.400	8.40	394	1.3	< 0.5	206	566	4	26	7	81	2.08	19	< 10	43	< 0.5	2	1.62	12
GC20-0048-014							128	0.9	0.7	15	775	2	12	13	206	2.21	27	< 10	56	< 0.5	< 2	1.67	10
1225026175	39.8	57.4	17.6	46.5	1.23	8.79	149	1.2	8.4	154	832	3	82	< 2	1780	2.60	12	< 10	52	< 0.5	< 2	2.58	24
1225026075	55.3	48.7	-6.65	61.6	0.790	8.66	930	1.3	< 0.5	232	524	4	62	4	79	2.01	15	< 10	49	< 0.5	3	1.87	11
GC20-0051-001							143	0.7	< 0.5	236	409	3	21	< 2	150	4.44	9	< 10	73	0.6	< 2	1.14	20
GC20-0051-018							145	0.7	< 0.5	7	847	2	10	< 2	163	2.17	8	< 10	53	< 0.5	< 2	0.87	8
GC20-0052-001							373	1.6	< 0.5	468	502	7	14	8	84	2.35	4	< 10	42	< 0.5	10	0.57	5
GC20-0052-018							63	0.6	< 0.5	114	351	2	13	< 2	74	2.50	16	< 10	43	< 0.5	2	0.57	9
GC20-0038-020							209	0.9	1.8	33	516	2	9	3	447	2.00	16	< 10	54	< 0.5	< 2	1.04	9
F000727							792	3.0	< 0.5	33	274	15	10	15	43	1.34	< 2	< 10	59	< 0.5	< 2	1.85	9
1324006173	38.7	17.1	-21.6	42.6	0.402	8.44	1010	0.3	0.9	73	654	4	13	11	306	2.21	9	< 10	60	< 0.5	< 2	1.48	9
1324006035	69.5	12.4	-57.1	75.0	0.165	8.40	136	1.0	2.0	91	423	3	13	3	478	1.78	16	< 10	36	< 0.5	3	0.94	9
GC20-0058-021							235	0.4	< 0.5	7	247	2	12	< 2	42	3.36	17	< 10	37	< 0.5	< 2	1.60	12
1225026112	79.5	31.5	-48.0	86.4	0.364	8.27	131	1.0	< 0.5	109	770	2	45	< 2	160	2.33	28	< 10	45	< 0.5	< 2	1.61	22
GC20-0056-010							40	0.4	< 0.5	27	242	3	12	< 2	38	2.92	10	< 10	26	< 0.5	5	1.15	10
1324006077	52.8	7.31	-45.5	56.7	0.129	8.31	51	0.3	0.9	85	403	3	14	3	282	1.22	5	< 10	40	< 0.5	< 2	0.52	9
GC20-0059-003							56	< 0.2	< 0.5	17	400	5	12	< 2	106	3.24	6	< 10	60	< 0.5	< 2	1.57	6
GC20-0059-020							88	0.4	< 0.5	53	324	2	12	< 2	70	3.39	8	< 10	44	< 0.5	4	1.38	8
1225026185	41.5	24.3	-17.2	45.3	0.536	8.56	256	1.8	< 0.5	364	584	3	37	3	69	2.33	13	< 10	60	< 0.5	< 2	1.72	17
1324006107	58.7	12.8	-45.9	63.4	0.202	8.37	128	0.4	2.2	87	503	5	13	< 2	589	1.87	13	< 10	47	< 0.5	< 2	1.13	9
1225026093	39.3	20.8	-18.5	43.2	0.482	8.63	70	1.2	0.5	73	692	4	16	14	164	2.33	11	< 10	56	< 0.5	< 2	1.58	10
GC20-0063-001							124	1.9	3.2	476	387	40	13	2	740	2.93	12	< 10	68	< 0.5	< 2	1.40	9
1225026031	105	43.9	-60.8	112	0.393	8.29	104	0.7	< 0.5	77	615	3	68	6	87	2.22	30	< 10	32	< 0.5	< 2	1.74	25
1225026113	87.9	40.7	-47.2	95.6	0.426	8.39	182	1.3	0.5	94	698	3	50	9	215	2.42	27	< 10	39	< 0.5	2	1.84	23
1324006082	52.8	17.7	-35.1	57.0	0.310	8.58	64	0.5	1.1	82	425	5	13	2	298	1.18	14	< 10	42	< 0.5	< 2	1.01	9
GC20-0063-018							916	0.8	< 0.5	136	475	3	13	2	91	2.66	13	< 10	47	< 0.5	4	1.03	9
GC20-0060-018							200	0.3	< 0.5	22	522	3	13	3	128	3.47	23	< 10	47	< 0.5	< 2	2.23	8
GC20-0062-001							78	0.2	< 0.5	11	162	3	11	< 2	26	2.67	8	< 10	37	< 0.5	2	1.08	9
GC20-0061-001							363	0.7	< 0.5	20	230	3	14	< 2	75	2.45	10	< 10	45	< 0.5	< 2	0.83	14
GC20-0060-001							50	< 0.2	< 0.5	5	291	4	11	< 2	105	3.93	3	< 10	46	< 0.5	< 2	1.97	6
F001020							976	1.6	< 0.5	74	239	14	8	23	50	1.39	< 2	< 10	44	< 0.5	< 2	0.85	7

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1231039016	40.0	3.10	-36.9	44.7	0.0694	7.99	383	9.7	0.8	25	842	2	24	46	601	1.73	69	< 10	28	< 0.5	< 2	0.23	11
1324009001	48.9	97.2	48.2	55.7	1.74	8.92	126	0.7	2.8	36	1760	2	9	77	612	0.71	61	< 10	35	< 0.5	< 2	3.35	7
1324009067	47.5	64.7	17.2	52.7	1.23	8.73	48	0.6	< 0.5	17	1010	2	9	33	120	1.41	31	< 10	37	< 0.5	< 2	2.41	8
1324010173	70.9	8.32	-62.6	75.0	0.111	8.48	138	0.7	< 0.5	175	334	< 1	12	< 2	80	1.91	10	< 10	30	< 0.5	< 2	0.72	10
1324010281	60.8	9.21	-51.6	66.8	0.138	8.50	112	1.3	0.5	189	344	1	12	6	196	1.62	14	< 10	26	< 0.5	5	0.73	10
1324010103	66.2	9.71	-56.5	71.1	0.137	8.49	219	0.9	< 0.5	218	423	2	15	3	97	2.54	9	< 10	29	< 0.5	4	1.01	10
1324007239	86.6	7.59	-79.0	90.7	0.0837	8.01	58	0.2	< 0.5	13	407	2	15	4	64	2.27	7	< 10	22	< 0.5	< 2	1.02	9
GC20-0123-001							29	0.5	< 0.5	82	287	4	13	< 2	37	2.01	4	< 10	30	< 0.5	< 2	0.80	7
1324010108	8.44	8.11	-0.329	8.27	0.981	8.93	12	0.3	< 0.5	109	454	< 1	45	< 2	57	4.80	< 2	< 10	18	< 0.5	< 2	3.29	22
1324007106	10.3	8.94	-1.37	10.1	0.885	8.92	35	0.3	< 0.5	115	523	< 1	45	< 2	48	5.00	< 2	< 10	36	< 0.5	< 2	3.23	21
GC20-0124-001							140	0.4	< 0.5	37	242	< 1	13	< 2	39	2.04	6	< 10	28	< 0.5	< 2	0.91	9
GC20-0121-011							75	0.3	< 0.5	32	215	4	11	< 2	24	3.08	4	< 10	26	< 0.5	3	1.19	7
GC20-0119-001							21	< 0.2	< 0.5	46	350	7	15	< 2	41	2.52	3	< 10	39	< 0.5	< 2	1.23	7
GC20-0119-018							132	0.5	< 0.5	65	241	2	14	< 2	71	3.43	8	< 10	40	< 0.5	< 2	1.34	20
GC20-0117-001							45	0.3	< 0.5	46	219	6	11	< 2	35	2.23	4	< 10	59	< 0.5	< 2	0.86	8
GC20-0122-002							366	0.4	< 0.5	96	258	3	9	< 2	35	2.77	22	< 10	22	< 0.5	3	1.35	5
1231038215	42.2	14.9	-27.3	47.5	0.314	8.56	116	3.4	1.0	23	1050	< 1	20	101	331	1.84	33	< 10	44	< 0.5	< 2	1.04	10
1324007120	7.50	10.6	3.06	7.35	1.44	8.94	11	< 0.2	< 0.5	120	453	< 1	44	< 2	48	5.13	3	< 10	16	< 0.5	< 2	3.67	21
GC20-0120-015							72	0.2	< 0.5	24	200	4	13	< 2	23	2.80	7	< 10	31	< 0.5	2	1.00	8
1324009003	43.1	82.2	39.1	47.5	1.73	8.79	32	0.6	< 0.5	20	1140	< 1	12	7	61	1.21	28	< 10	37	< 0.5	< 2	3.17	8
1324010018	46.7	33.6	-13.0	51.1	0.658	8.72	90	1.1	< 0.5	211	338	2	14	3	112	1.57	6	< 10	44	< 0.5	4	1.72	9
1324009041	52.2	65.6	13.4	57.0	1.15	8.68	53	1.1	0.6	23	1190	< 1	11	25	156	1.43	41	< 10	36	< 0.5	< 2	2.73	8
GC20-0114-001							> 5000	3.2	< 0.5	1140	254	1	13	36	65	2.53	11	< 10	27	< 0.5	8	1.26	9
F001017							3250																
1225029136	34.6	25.9	-8.63	40.4	0.642	8.83	124	1.4	0.5	57	407	1	13	6	179	1.50	23	< 10	44	< 0.5	< 2	1.22	8
1225029203	44.7	19.5	-25.2	53.3	0.365	8.74	41	0.3	< 0.5	25	415	< 1	17	4	81	1.19	10	< 10	34	< 0.5	< 2	0.91	8
GC20-0077-012							161	0.6	< 0.5	143	456	< 1	12	5	71	2.38	32	< 10	46	< 0.5	< 2	1.22	8
1231036151	30.6	9.44	-21.2	34.9	0.270	8.65	108	9.0	< 0.5	12	908	< 1	8	54	95	0.63	33	< 10	39	< 0.5	< 2	0.43	8
GC20-0084-001							67	0.5	< 0.5	19	294	< 1	14	4	47	1.74	23	< 10	44	< 0.5	2	0.86	8
GC20-0085-009							344	0.8	< 0.5	289	375	< 1	5	< 2	35	3.50	< 2	< 10	44	< 0.5	5	1.57	4
1324006148	46.9	23.5	-23.3	57.9	0.407	8.40	940	1.0	2.0	138	571	3	14	4	500	1.91	12	< 10	43	< 0.5	< 2	1.80	10
GC20-0075-012							119	0.5	< 0.5	36	415	< 1	10	4	103	1.87	17	< 10	30	< 0.5	< 2	1.11	8
GC20-0076-016							274	0.5	< 0.5	83	422	< 1	10	4	91	2.22	8	< 10	44	< 0.5	< 2	0.36	9
1324006165	53.1	14.4	-38.8	59.7	0.240	8.76	260	0.7	2.2	191	565	2	13	2	571	1.57	8	< 10	35	< 0.5	< 2	1.04	10
GC20-0079-018							317	0.6	< 0.5	39	387	< 1	22	7	39	1.97	22	< 10	45	< 0.5	3	0.94	11
1324006053	3.44	7.37	3.93	3.37	2.19	8.80	8	< 0.2	< 0.5	115	469	< 1	44	< 2	53	5.26	< 2	< 10	14	< 0.5	< 2	3.64	23
1225029004	40.7	6.64	-34.1	43.8	0.152	8.43	88	0.3	< 0.5	108	337	< 1	11	< 2	46	2.93	8	12	32	< 0.5	< 2	1.11	9
1225029082	32.2	21.8	-10.4	35.8	0.607	8.90	122	0.6	0.8	96	485	< 1	16	6	235	1.21	13	< 10	41	< 0.5	< 2	1.06	8
GC20-0080-001							204	0.7	< 0.5	34	485	< 1	12	7	82	1.46	30	< 10	50	< 0.5	< 2	1.91	7
1324006131	72.8	19.7	-53.1	80.2	0.245	8.26	73	0.6	5.6	144	592	2	24	2	1380	2.06	8	< 10	37	< 0.5	< 2	1.44	13
GC20-0080-018							642	4.3	< 0.5	33	406	1	10	25	69	2.24	9	< 10	50	< 0.5	2	0.92	7
1231036106	42.7	8.86	-33.8	45.6	0.194	8.42	187	7.9	< 0.5	22	1310	< 1	9	26	96	0.59	43	< 10	31	< 0.5	< 2	0.42	8
1225029105	18.8	16.5	-2.35	22.0	0.748	8.70	65	0.4	< 0.5	57	541	1	12	7	139	2.72	6	21	49	< 0.5	< 2	1.07	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324005062	275	2.49	< 10	< 1	0.24	14	0.71	0.092	0.039	1.66	< 2	1	34	0.03	< 1	< 2	< 10	17	< 10	2	15	0.54	1.66
GC20-0034-001	225	2.35	< 10	< 1	0.17	13	1.13	0.285	0.040	1.99	3	1	170	< 0.01	2	3	< 10	12	< 10	2	15		
GC20-0030-019	163	3.95	< 10	< 1	0.28	< 10	0.84	0.050	0.079	3.48	2	6	31	0.03	2	< 2	< 10	68	< 10	9	8		
GC20-0030-001	298	2.61	< 10	< 1	0.25	12	1.70	0.066	0.045	1.06	< 2	2	34	0.06	1	< 2	< 10	22	< 10	2	13		
1324005053	240	2.68	< 10	< 1	0.22	14	0.66	0.158	0.039	2.01	3	1	75	0.04	3	< 2	< 10	14	< 10	2	14	0.25	1.98
1231034626	181	2.89	< 10	< 1	0.26	15	0.25	0.024	0.038	3.15	5	< 1	40	0.01	< 1	< 2	< 10	7	< 10	2	10	0.56	3.02
1231034236	247	4.33	< 10	< 1	0.11	< 10	1.55	0.546	0.027	0.27	< 2	5	58	0.20	< 1	< 2	< 10	112	< 10	3	4	0.28	0.29
1231034358	202	2.61	< 10	< 1	0.41	27	0.93	0.181	0.061	0.74	2	2	95	0.12	< 1	< 2	< 10	30	< 10	2	10	0.34	0.75
GC20-0026-011	146	2.37	< 10	< 1	0.24	14	1.17	0.064	0.042	1.04	< 2	1	39	0.05	1	< 2	< 10	17	< 10	2	12		
1324005001	201	2.07	< 10	< 1	0.20	14	0.66	0.208	0.039	1.30	< 2	< 1	85	0.02	< 1	< 2	< 10	8	< 10	2	11	0.23	1.27
1324005317	187	3.33	< 10	< 1	0.19	15	1.11	0.066	0.042	3.08	3	< 1	43	< 0.01	< 1	< 2	< 10	7	< 10	2	17	0.20	3.05
1324005002	174	2.50	< 10	< 1	0.20	16	0.66	0.228	0.042	1.89	2	< 1	91	0.02	< 1	< 2	< 10	10	< 10	2	15	0.25	1.89
GC20-0027-008	96	3.28	< 10	< 1	0.19	14	1.70	0.056	0.041	1.73	< 2	< 1	23	< 0.01	1	< 2	< 10	13	< 10	2	15		
GC20-0028-001	169	3.60	< 10	< 1	0.17	12	1.37	0.037	0.035	2.50	2	< 1	17	< 0.01	1	< 2	< 10	9	< 10	2	18		
GC20-0035-013	165	2.59	< 10	< 1	0.25	13	0.92	0.241	0.041	2.01	3	< 1	84	0.03	3	< 2	< 10	9	< 10	2	19		
GC20-0028-018	170	2.96	< 10	< 1	0.19	15	1.07	0.082	0.044	2.26	< 2	1	39	0.02	8	< 2	< 10	14	< 10	3	16		
1231034128	176	1.84	< 10	< 1	0.26	15	0.39	0.020	0.042	1.78	3	< 1	36	< 0.01	< 1	< 2	< 10	4	< 10	2	8	0.78	1.73
GC20-0031-014	109	3.41	< 10	< 1	0.30	< 10	0.33	0.066	0.072	3.61	3	6	26	< 0.01	2	< 2	< 10	47	< 10	7	5		
GC20-0002-014	94	4.05	< 10	< 1	0.19	14	1.51	0.124	0.040	3.12	< 2	2	61	< 0.01	< 1	< 2	< 10	16	< 10	3	23		
F000730																							
1324005025	287	2.45	< 10	< 1	0.17	14	0.74	0.060	0.039	1.61	< 2	1	23	0.02	< 1	< 2	< 10	15	< 10	2	15	0.47	1.66
1324005076	233	2.47	< 10	< 1	0.15	15	0.76	0.193	0.042	1.34	3	< 1	104	0.02	< 1	< 2	< 10	12	< 10	2	11	0.23	1.36
1231034038	141	2.47	< 10	< 1	0.23	17	0.49	0.029	0.056	2.29	5	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	1	7	0.66	2.35
1231034185	155	1.73	< 10	< 1	0.29	17	0.40	0.027	0.039	1.37	< 2	< 1	20	< 0.01	< 1	< 2	< 10	7	< 10	1	8	0.60	1.35
1324004130	192	2.03	< 10	< 1	0.15	< 10	0.32	0.045	0.048	2.04	8	< 1	40	< 0.01	2	< 2	< 10	4	< 10	1	10	0.48	1.99
1231034040	159	2.32	< 10	< 1	0.32	17	0.68	0.090	0.046	1.33	< 2	1	32	0.04	< 1	< 2	< 10	19	< 10	1	8	0.24	1.23
1324004129	227	1.56	< 10	< 1	0.13	< 10	0.18	0.032	0.046	1.40	5	< 1	25	< 0.01	2	< 2	< 10	5	< 10	1	10	0.33	1.33
1231034252	247	2.63	< 10	< 1	0.37	24	0.95	0.096	0.058	0.55	< 2	2	55	0.12	< 1	< 2	< 10	31	< 10	2	9	0.46	0.55
1324004158	242	1.17	< 10	< 1	0.08	< 10	0.18	0.034	0.034	0.52	2	1	21	< 0.01	< 1	< 2	< 10	8	< 10	< 1	6	0.13	0.52
1324004183	159	1.61	< 10	< 1	0.16	11	0.37	0.025	0.041	1.67	5	< 1	22	< 0.01	< 1	< 2	< 10	4	< 10	1	11	0.52	1.58
1324004104	149	2.74	< 10	1	0.16	15	0.16	0.045	0.040	3.32	5	< 1	46	< 0.01	< 1	< 2	< 10	4	< 10	1	13	0.49	3.02
1324004029	98	2.76	< 10	< 1	0.20	< 10	0.64	0.030	0.044	2.55	3	< 1	22	< 0.01	< 1	< 2	< 10	5	< 10	2	14	0.43	2.42
1324004006	173	2.15	< 10	< 1	0.22	< 10	0.32	0.030	0.040	2.51	10	< 1	25	< 0.01	< 1	< 2	< 10	3	< 10	2	15	0.82	2.31
1324004048	139	1.91	< 10	< 1	0.27	13	0.53	0.021	0.048	1.89	4	< 1	29	< 0.01	< 1	< 2	< 10	6	< 10	2	11	0.53	1.66
GC20-0036-017	150	2.13	< 10	< 1	0.30	15	0.83	0.308	0.039	1.48	< 2	< 1	89	0.03	< 1	< 2	< 10	11	< 10	2	11		
1324004237	159	1.99	< 10	< 1	0.20	15	0.69	0.024	0.041	1.93	3	< 1	22	< 0.01	< 1	< 2	< 10	4	< 10	1	10	0.73	1.75
GC20-0037-013	146	5.64	< 10	1	0.21	11	1.43	0.186	0.062	4.07	3	4	58	0.11	6	< 2	< 10	72	13	5	13		
1324004001	143	2.73	< 10	< 1	0.21	< 10	0.67	0.030	0.044	3.19	10	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	2	16	0.92	2.91
GC20-0045-009	158	2.50	< 10	< 1	0.20	11	1.15	0.246	0.043	1.26	< 2	2	85	0.04	< 1	< 2	< 10	21	< 10	3	8		
1324004240	149	2.26	< 10	1	0.24	16	0.55	0.020	0.040	2.27	3	< 1	11	< 0.01	< 1	< 2	< 10	5	< 10	1	11	0.31	2.19
F000728	13	2.08	< 10	< 1	0.20	13	0.40	0.222	0.036	0.03	< 2	2	34	0.34	6	< 2	< 10	50	< 10	12	18		
GC20-0039-009	118	7.38	< 10	< 1	0.19	< 10	1.39	0.122	0.075	6.32	3	5	44	0.12	4	< 2	< 10	69	< 10	8	8		
1324004173	129	2.24	< 10	< 1	0.21	17	0.12	0.023	0.041	3.04	3	< 1	13	< 0.01	3	< 2	< 10	3	12	1	17	0.36	2.92
1324004057	199	1.10	< 10	< 1	0.03	< 10	0.34	0.038	0.034	0.23	3	1	21	< 0.01	< 1	< 2	< 10	11	33	< 1	4	0.31	0.25
GC20-0042-005	160	1.97	< 10	< 1	0.15	12	1.27	0.202	0.035	0.94	3	< 1	108	< 0.01	< 1	< 2	< 10	11	< 10	2	15		
GC20-0044-001	203	5.42	< 10	< 1	0.19	< 10	1.49	0.073	0.069	3.58	< 2	6	31	0.11	4	< 2	< 10	72	< 10	9	11		
GC20-0038-004	181	4.27	< 10	< 1	0.59	72	1.74	0.106	0.292	1.26	3	6	330	0.12	< 1	< 2	< 10	65	< 10	9	4		
GC20-0043-013	129	2.24	< 10	< 1	0.28	13	0.97	0.209	0.039	1.52	< 2	< 1	54	0.03	< 1	< 2	< 10	11	< 10	2	20		
1231034090	177	4.73	< 10	< 1	0.08	< 10	1.86	0.598	0.021	0.12	4	5	65	0.21	5	< 2	< 10	126	< 10	3	3	0.22	0.13
1225026202	164	2.31	< 10	< 1	0.21	15	0.62	0.178	0.043	1.91	< 2	< 1	73	0.02	4	< 2	< 10	11	< 10	2	19	0.31	1.90
1324004218	186	1.82	< 10	< 1	0.15	10	0.48	0.033	0.040	1.30	3	< 1	28	< 0.01	< 1	< 2	< 10	6	< 10	1	12	0.32	1.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225026071	165	2.53	< 10	< 1	0.17	16	1.17	0.077	0.040	0.95	< 2	1	33	< 0.01	< 1	< 2	< 10	13	< 10	2	16	0.17	0.94
1225026180	205	2.81	< 10	< 1	0.26	16	0.68	0.191	0.044	2.42	7	< 1	75	0.02	3	< 2	< 10	12	< 10	2	22	0.25	2.29
GC20-0048-006	96	10.7	20	5	0.26	< 10	2.71	0.164	0.075	5.72	5	12	52	0.21	10	< 2	< 10	227	13	8	5		
GC20-0047-003	141	2.23	< 10	< 1	0.17	12	1.31	0.152	0.039	0.62	2	1	57	< 0.01	< 1	< 2	< 10	12	< 10	2	13		
GC20-0040-011	134	2.26	< 10	< 1	0.39	11	0.97	0.311	0.042	1.51	< 2	1	75	0.05	< 1	< 2	< 10	14	< 10	2	20		
1231034001	129	2.51	< 10	< 1	0.21	12	1.06	0.207	0.037	0.36	< 2	3	40	0.10	< 1	< 2	< 10	40	< 10	2	7	0.26	0.37
1324004077	132	1.88	< 10	< 1	0.18	12	0.20	0.037	0.040	2.24	2	< 1	32	< 0.01	< 1	< 2	< 10	4	< 10	1	12	0.43	2.24
F000744	11	3.05	< 10	< 1	0.24	17	0.42	0.197	0.046	0.04	< 2	3	48	0.31	4	< 2	< 10	58	< 10	14	19		
1225026033	261	5.93	< 10	< 1	0.20	12	1.92	0.162	0.061	5.55	4	5	79	0.01	< 1	< 2	< 10	69	< 10	5	16	0.58	5.12
GC20-0055-001	113	5.20	< 10	< 1	0.17	< 10	1.20	0.109	0.045	3.13	2	3	86	0.07	2	< 2	< 10	39	< 10	4	14		
1225026051	257	2.89	< 10	< 1	0.30	16	0.87	0.259	0.047	2.15	3	1	93	0.03	< 1	< 2	< 10	17	< 10	3	15	0.10	3.08
GC20-0042-014	138	2.23	< 10	< 1	0.22	12	1.11	0.284	0.036	1.18	< 2	1	106	0.03	< 1	< 2	< 10	15	< 10	2	15		
1231034326	121	2.14	< 10	< 1	0.31	16	0.32	0.023	0.035	1.84	< 2	< 1	60	0.01	< 1	< 2	< 10	8	< 10	2	11	0.54	1.76
1324006070	234	2.21	< 10	< 1	0.25	14	0.70	0.065	0.037	1.46	< 2	2	22	0.03	< 1	< 2	< 10	18	< 10	2	16	0.38	1.45
GC20-0053-018	120	6.96	< 10	< 1	0.18	12	1.65	0.144	0.056	5.32	2	4	56	0.07	2	< 2	< 10	53	< 10	6	16		
GC20-0053-001	166	1.84	< 10	< 1	0.18	10	1.18	0.214	0.034	0.80	2	< 1	188	0.02	3	< 2	< 10	10	< 10	1	14		
1225026057	217	3.04	< 10	< 1	0.26	17	0.91	0.197	0.046	2.33	2	1	92	0.02	2	< 2	< 10	13	< 10	2	14	0.65	2.35
GC20-0048-014	125	2.74	< 10	< 1	0.27	12	0.97	0.188	0.040	2.12	2	1	45	0.03	< 1	< 2	< 10	13	< 10	2	24		
1225026175	288	3.25	< 10	< 1	0.28	14	1.80	0.173	0.063	1.56	3	3	98	0.06	< 1	< 2	< 10	40	< 10	3	14	0.84	1.52
1225026075	361	3.28	< 10	< 1	0.24	18	1.51	0.101	0.049	2.13	3	2	82	< 0.01	5	< 2	< 10	18	< 10	2	14	1.92	2.01
GC20-0051-001	299	3.06	10	< 1	0.52	< 10	1.37	0.321	0.040	1.60	3	2	173	0.02	5	< 2	< 10	23	104	2	18		
GC20-0051-018	98	2.28	< 10	< 1	0.19	13	1.38	0.115	0.037	0.92	< 2	1	47	0.02	< 1	< 2	< 10	14	< 10	2	16		
GC20-0052-001	153	3.34	< 10	< 1	0.19	11	0.97	0.091	0.045	0.89	2	1	80	0.03	6	< 2	< 10	13	< 10	2	16		
GC20-0052-018	94	2.41	< 10	< 1	0.17	14	1.55	0.171	0.037	1.46	< 2	< 1	78	< 0.01	2	< 2	< 10	11	< 10	2	18		
GC20-0038-020	88	2.27	< 10	< 1	0.24	15	0.90	0.144	0.046	1.86	< 2	1	50	0.02	< 1	< 2	< 10	12	< 10	2	19		
F000727	11	3.12	< 10	< 1	0.24	17	0.42	0.195	0.048	0.05	< 2	3	49	0.32	3	< 2	< 10	58	< 10	14	24		
1324006173	261	2.33	< 10	< 1	0.24	13	0.73	0.245	0.037	1.47	2	1	120	0.06	< 1	< 2	< 10	16	< 10	2	12	0.36	1.39
1324006035	209	2.65	< 10	< 1	0.19	16	0.94	0.174	0.039	2.57	3	< 1	48	0.02	< 1	< 2	< 10	10	< 10	2	17	0.28	2.45
GC20-0058-021	115	3.39	< 10	< 1	0.20	12	1.12	0.372	0.042	3.22	3	< 1	157	< 0.01	3	< 2	< 10	10	< 10	2	18		
1225026112	220	4.37	< 10	< 1	0.43	12	1.40	0.170	0.054	2.94	2	4	90	0.11	< 1	< 2	< 10	55	< 10	4	15	0.45	2.82
GC20-0056-010	177	2.38	< 10	< 1	0.12	15	1.00	0.342	0.051	2.10	3	1	153	0.01	4	< 2	< 10	14	11	2	19		
1324006077	240	2.28	< 10	< 1	0.17	14	0.67	0.099	0.039	1.95	< 2	1	36	0.02	< 1	< 2	< 10	12	< 10	2	15	0.19	1.85
GC20-0059-003	156	1.37	< 10	< 1	0.22	< 10	0.95	0.271	0.037	0.47	3	< 1	215	< 0.01	< 1	< 2	< 10	11	< 10	1	14		
GC20-0059-020	119	2.10	< 10	< 1	0.14	11	0.98	0.344	0.036	1.51	2	< 1	135	< 0.01	6	< 2	< 10	10	< 10	1	19		
1225026185	200	2.77	< 10	< 1	0.25	12	1.08	0.187	0.049	1.59	3	2	118	0.06	1	< 2	< 10	29	< 10	3	13	0.39	1.48
1324006107	193	2.42	< 10	< 1	0.22	14	0.76	0.201	0.040	2.15	< 2	1	68	0.03	< 1	< 2	< 10	12	< 10	2	14	0.26	2.07
1225026093	208	2.35	< 10	< 1	0.30	15	0.94	0.261	0.044	1.44	< 2	1	98	0.03	< 1	< 2	< 10	15	< 10	2	13	0.41	1.41
GC20-0063-001	203	2.06	< 10	< 1	0.41	< 10	0.87	0.181	0.031	1.36	< 2	< 1	133	0.02	3	< 2	< 10	11	11	2	22		
1225026031	237	4.64	< 10	< 1	0.20	12	1.87	0.105	0.058	3.74	3	4	67	0.01	< 1	< 2	< 10	50	< 10	5	16	0.68	3.65
1225026113	197	4.67	< 10	< 1	0.37	12	1.57	0.135	0.059	3.15	< 2	4	89	0.09	1	< 2	< 10	59	< 10	5	14	0.55	3.12
1324006082	240	2.19	< 10	2	0.26	13	0.65	0.100	0.037	1.83	< 2	1	40	0.05	< 1	< 2	< 10	14	< 10	2	16	0.28	1.86
GC20-0063-018	143	2.65	< 10	< 1	0.17	13	1.26	0.274	0.038	1.65	2	1	115	< 0.01	< 1	< 2	< 10	12	< 10	2	17		
GC20-0060-018	140	2.28	< 10	< 1	0.16	14	1.06	0.379	0.039	1.27	< 2	< 1	158	0.01	4	< 2	< 10	12	< 10	1	15		
GC20-0062-001	185	2.38	< 10	< 1	0.18	12	0.77	0.190	0.047	2.40	< 2	< 1	112	< 0.01	4	< 2	< 10	10	< 10	1	21		
GC20-0061-001	190	2.54	< 10	< 1	0.20	13	1.24	0.183	0.033	1.89	2	< 1	101	< 0.01	< 1	< 2	< 10	9	< 10	2	15		
GC20-0060-001	175	1.22	< 10	< 1	0.17	12	1.36	0.292	0.036	0.12	3	< 1	216	< 0.01	5	< 2	< 10	12	< 10	1	8		
F001020	14	1.81	< 10	< 1	0.24	14	0.44	0.218	0.047	0.05	< 2	3	34	0.27	4	< 2	11	55	< 10	14	17		
1231039016	102	2.66	< 10	< 1	0.34	20	1.24	0.024	0.059	1.54	< 2	1	11	0.01	< 1	< 2	< 10	20	< 10	2	11	0.08	1.46
1324009001	101	1.88	< 10	< 1	0.25	11	0.62	0.038	0.038	1.71	3	< 1	38	< 0.01	< 1	< 2	< 10	4	< 10	2	10	1.51	1.82
1324009067	112	1.92	< 10	< 1	0.22	13	0.86	0.045	0.038	1.73	3	< 1	57	< 0.01	< 1	< 2	< 10	6	< 10	1	10	0.82	1.72
1324010173	216	3.11	< 10	< 1	0.21	12	1.29	0.114	0.040	2.56	3	< 1	34	0.01	2	< 2	< 10	9	< 10	3	24	0.19	2.45

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324010281	236	3.41	< 10	< 1	0.21	13	0.95	0.172	0.040	3.09	2	< 1	40	< 0.01	2	< 2	< 10	9	< 10	3	23	0.09	2.18
1324010103	231	3.72	< 10	< 1	0.17	14	1.77	0.175	0.043	2.40	3	1	58	0.01	3	< 2	< 10	17	< 10	4	20	0.20	2.32
1324007239	243	3.20	< 10	< 1	0.22	18	1.00	0.237	0.047	3.13	3	< 1	75	< 0.01	4	< 2	< 10	8	< 10	3	17	0.24	2.96
GC20-0123-001	266	2.47	< 10	< 1	0.12	12	1.09	0.189	0.037	1.61	2	1	88	< 0.01	< 1	< 2	< 10	14	12	2	12		
1324010108	186	4.05	< 10	< 1	0.05	< 10	1.73	0.482	0.020	0.24	2	6	74	0.21	6	< 2	< 10	120	< 10	5	6	0.19	0.27
1324007106	201	3.96	< 10	< 1	0.09	< 10	1.64	0.510	0.021	0.30	3	5	69	0.18	< 1	< 2	< 10	97	< 10	4	7	0.19	0.33
GC20-0124-001	245	2.47	< 10	< 1	0.15	16	1.35	0.159	0.052	1.42	2	1	95	< 0.01	1	< 2	< 10	15	< 10	3	16		
GC20-0121-011	150	3.25	< 10	< 1	0.11	10	0.92	0.307	0.035	2.47	3	1	152	< 0.01	4	< 2	< 10	14	12	3	15		
GC20-0119-001	318	2.28	< 10	< 1	0.09	14	1.19	0.288	0.037	1.07	< 2	1	132	< 0.01	< 1	< 2	< 10	15	14	3	12		
GC20-0119-018	120	3.20	< 10	< 1	0.21	12	1.78	0.272	0.037	2.02	2	1	153	< 0.01	< 1	< 2	< 10	14	< 10	3	24		
GC20-0117-001	208	1.52	< 10	< 1	0.30	< 10	1.05	0.172	0.039	0.41	< 2	< 1	83	0.03	2	< 2	< 10	10	17	2	17		
GC20-0122-002	73	2.58	< 10	< 1	0.08	11	1.01	0.251	0.035	1.78	3	1	120	< 0.01	3	< 2	< 10	14	< 10	3	12		
1231038215	189	2.46	< 10	< 1	0.42	17	1.06	0.095	0.054	1.61	2	2	36	0.05	< 1	< 2	< 10	21	< 10	3	14	0.26	1.55
1324007120	208	3.92	< 10	< 1	0.04	< 10	1.54	0.545	0.018	0.22	< 2	5	64	0.20	< 1	< 2	< 10	116	< 10	4	5	0.23	0.24
GC20-0120-015	162	3.14	< 10	< 1	0.12	14	0.93	0.254	0.034	2.24	2	1	142	< 0.01	4	< 2	< 10	16	12	3	15		
1324009003	131	1.93	< 10	< 1	0.22	12	0.82	0.051	0.042	1.54	3	< 1	58	< 0.01	< 1	< 2	< 10	6	< 10	2	9	1.13	1.55
1324010018	225	2.59	< 10	< 1	0.27	25	0.84	0.086	0.043	1.69	2	< 1	70	0.02	3	< 2	< 10	15	< 10	3	7	0.62	1.67
1324009041	117	2.22	< 10	< 1	0.24	14	0.93	0.049	0.044	1.89	3	< 1	57	< 0.01	< 1	< 2	< 10	6	< 10	2	9	0.92	1.86
GC20-0114-001	193	3.90	< 10	< 1	0.18	11	0.69	0.172	0.035	2.86	< 2	1	119	< 0.01	< 1	< 2	< 10	11	< 10	3	24		
F001017																							
1225029136	218	2.17	< 10	< 1	0.24	10	0.87	0.094	0.037	1.31	< 2	1	33	< 0.01	< 1	< 2	< 10	12	< 10	2	11	0.40	1.32
1225029203	303	2.53	< 10	< 1	0.18	11	0.83	0.054	0.039	1.75	2	1	20	< 0.01	3	< 2	< 10	13	< 10	2	18	0.34	1.74
GC20-0077-012	90	2.50	< 10	< 1	0.28	13	0.86	0.188	0.036	1.64	< 2	1	85	0.03	1	< 2	< 10	12	< 10	2	26		
1231036151	105	1.43	< 10	< 1	0.28	16	0.29	0.018	0.044	1.30	2	< 1	34	< 0.01	5	< 2	< 10	3	< 10	1	9	0.19	1.14
GC20-0084-001	239	2.80	< 10	< 1	0.25	10	0.70	0.200	0.036	1.95	2	1	79	0.01	< 1	< 2	< 10	12	< 10	2	23		
GC20-0085-009	124	3.05	< 10	< 1	0.19	12	0.93	0.311	0.035	0.95	3	< 1	164	0.02	< 1	< 2	< 10	9	< 10	2	16		
1324006148	215	2.57	< 10	< 1	0.23	12	0.76	0.188	0.039	1.88	2	1	73	0.07	3	< 2	< 10	15	< 10	3	17	0.44	1.89
GC20-0075-012	102	2.88	< 10	< 1	0.27	< 10	1.10	0.041	0.041	1.97	< 2	1	35	0.04	2	< 2	< 10	10	< 10	2	24		
GC20-0076-016	96	3.63	< 10	< 1	0.27	13	1.36	0.043	0.043	1.28	2	1	29	0.01	< 1	< 2	< 10	11	< 10	3	22		
1324006165	227	2.98	< 10	< 1	0.19	12	0.90	0.154	0.040	1.94	3	1	55	0.04	1	< 2	< 10	19	< 10	3	16	0.20	1.95
GC20-0079-018	158	3.75	< 10	< 1	0.30	18	1.28	0.055	0.055	1.82	< 2	2	83	0.04	2	< 2	< 10	19	< 10	3	25		
1324006053	211	4.18	< 10	< 1	0.03	< 10	1.63	0.619	0.017	0.09	< 2	6	68	0.20	< 1	< 2	< 10	124	< 10	5	5	0.25	0.11
1225029004	172	2.76	< 10	< 1	0.14	15	0.91	0.189	0.039	1.40	2	1	129	0.01	< 1	< 2	< 10	14	< 10	2	16	0.14	1.43
1225029082	299	2.37	< 10	< 1	0.17	< 10	0.81	0.062	0.037	1.13	2	2	20	0.04	3	< 2	< 10	17	< 10	2	15	0.43	1.17
GC20-0080-001	176	2.25	< 10	< 1	0.31	13	0.88	0.062	0.040	1.54	< 2	< 1	57	0.01	2	< 2	< 10	8	< 10	2	18		
1324006131	262	3.20	< 10	< 1	0.21	21	1.12	0.193	0.054	2.63	3	2	76	0.03	4	< 2	< 10	23	< 10	4	19	0.43	2.62
GC20-0080-018	114	3.06	< 10	< 1	0.23	13	1.15	0.075	0.035	1.36	< 2	1	48	0.04	7	< 2	< 10	11	< 10	2	25		
1231036106	187	1.87	< 10	< 1	0.27	16	0.31	0.020	0.049	1.52	2	< 1	26	< 0.01	< 1	< 2	< 10	4	< 10	2	8	0.25	1.49
1225029105	111	3.08	< 10	< 1	0.26	15	1.55	0.144	0.042	0.68	2	1	41	0.03	< 1	< 2	< 10	17	< 10	2	12	0.27	0.72

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1324005062	
GC20-0034-001	
GC20-0030-019	
GC20-0030-001	
1324005053	
1231034626	
1231034236	
1231034358	
GC20-0026-011	
1324005001	
1324005317	
1324005002	
GC20-0027-008	
GC20-0028-001	
GC20-0035-013	
GC20-0028-018	
1231034128	
GC20-0031-014	
GC20-0002-014	
F000730	
1324005025	
1324005076	
1231034038	
1231034185	
1324004130	
1231034040	
1324004129	
1231034252	
1324004158	
1324004183	12.6
1324004104	
1324004029	
1324004006	
1324004048	5.95
GC20-0036-017	
1324004237	
GC20-0037-013	
1324004001	
GC20-0045-009	
1324004240	
F000728	
GC20-0039-009	
1324004173	
1324004057	
GC20-0042-005	
GC20-0044-001	
GC20-0038-004	
GC20-0043-013	
1231034090	
1225026202	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1324004218	
1225026071	
1225026180	
GC20-0048-006	
GC20-0047-003	
GC20-0040-011	
1231034001	
1324004077	
F000744	
1225026033	
GC20-0055-001	
1225026051	
GC20-0042-014	
1231034326	
1324006070	
GC20-0053-018	
GC20-0053-001	
1225026057	
GC20-0048-014	
1225026175	
1225026075	
GC20-0051-001	
GC20-0051-018	
GC20-0052-001	
GC20-0052-018	
GC20-0038-020	
F000727	
1324006173	
1324006035	
GC20-0058-021	
1225026112	
GC20-0056-010	
1324006077	
GC20-0059-003	
GC20-0059-020	
1225026185	
1324006107	
1225026093	
GC20-0063-001	
1225026031	
1225026113	
1324006082	
GC20-0063-018	
GC20-0060-018	
GC20-0062-001	
GC20-0061-001	
GC20-0060-001	
F001020	
1231039016	
1324009001	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1324009067	
1324010173	
1324010281	
1324010103	
1324007239	
GC20-0123-001	
1324010108	
1324007106	
GC20-0124-001	
GC20-0121-011	
GC20-0119-001	
GC20-0119-018	
GC20-0117-001	
GC20-0122-002	
1231038215	
1324007120	
GC20-0120-015	
1324009003	
1324010018	
1324009041	
GC20-0114-001	5.62
F001017	
1225029136	
1225029203	
GC20-0077-012	
1231036151	
GC20-0084-001	
GC20-0085-009	
1324006148	
GC20-0075-012	
GC20-0076-016	
1324006165	
GC20-0079-018	
1324006053	
1225029004	
1225029082	
GC20-0080-001	
1324006131	
GC20-0080-018	
1231036106	
1225029105	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.4				8.29																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.9																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402						< 2		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416						< 2		49
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							495																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire							508																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							519																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
1231034236 Orig								0.4	< 0.5	117	531	2	41	7	101	4.55	7	< 10	24	< 0.5	< 2	3.06	22
1231034236 Dup								0.4	< 0.5	118	541	2	42	9	105	4.62	8	< 10	23	< 0.5	< 2	3.14	22
GC20-0026-011 Orig							106																
GC20-0026-011 Dup							105																
1324005025 Orig								0.6	< 0.5	121	564	3	15	3	89	1.14	7	< 10	39	< 0.5	< 2	1.11	9
1324005025 Dup								0.8	< 0.5	120	553	3	15	< 2	91	1.12	7	< 10	43	< 0.5	< 2	1.10	9
1324004183 Orig							> 5000																
1324004183 Dup							> 5000																
1324004104 Orig																							
1324004104 Dup																							
1324004048 Orig								2.2	4.9	31	867	2	8	189	1200	0.73	128	< 10	28	< 0.5	< 2	1.20	9
1324004048 Dup								1.8	4.7	31	835	2	12	190	1150	0.71	129	< 10	28	< 0.5	< 2	1.17	8
1324004001 Orig							245																
1324004001 Dup							264																
GC20-0039-009 Orig								1.4	4.7	178	734	2	48	3	1150	2.52	58	< 10	< 10	< 0.5	3	0.71	35
GC20-0039-009 Dup								1.4	4.4	183	746	2	48	3	1130	2.54	59	< 10	< 10	< 0.5	3	0.74	35
1324004218 Orig							206																
1324004218 Dup							165																
1225026180 Orig	65.9	14.0	-51.9	70.1	0.199																		
1225026180 Dup	65.9	13.7	-52.2	70.1	0.195																		
1231034001 Orig								0.2	< 0.5	90	504	2	18	3	110	2.44	5	< 10	44	< 0.5	< 2	1.80	11
1231034001 Dup								0.3	< 0.5	89	505	2	18	< 2	116	2.45	6	< 10	45	< 0.5	< 2	1.79	11
1324006070 Orig							130																
1324006070 Dup							173																
1225026175 Orig																							
1225026175 Dup																							
1225026075 Orig								1.2	< 0.5	233	527	4	63	4	80	2.02	15	< 10	46	< 0.5	3	1.89	11
1225026075 Dup								1.5	< 0.5	231	521	4	60	4	77	1.99	16	< 10	52	< 0.5	3	1.85	10
GC20-0051-018 Orig							148																
GC20-0051-018 Dup							142																
GC20-0059-003 Orig								< 0.2	< 0.5	17	396	5	12	< 2	103	3.22	7	< 10	61	< 0.5	< 2	1.56	6
GC20-0059-003 Dup								< 0.2	< 0.5	17	403	5	12	< 2	108	3.27	5	< 10	59	< 0.5	< 2	1.59	6
1225026185 Orig							273																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225026185 Dup							239																
1324006082 Orig																							
1324006082 Dup																							
1231039016 Orig								9.5	0.8	25	841	2	25	46	597	1.73	69	< 10	28	< 0.5	< 2	0.22	11
1231039016 Dup								9.8	0.9	25	844	2	24	47	606	1.73	69	< 10	28	< 0.5	< 2	0.23	11
1324009001 Orig							118																
1324009001 Dup							134																
1324007106 Orig							31																
1324007106 Dup							38																
GC20-0122-002 Orig								0.4	< 0.5	96	259	3	10	< 2	36	2.77	21	< 10	22	< 0.5	3	1.35	5
GC20-0122-002 Dup								0.4	< 0.5	96	258	3	9	< 2	35	2.78	24	< 10	22	< 0.5	3	1.35	5
1231038215 Orig																							
1231038215 Dup																							
1324009041 Orig	52.2	65.4	13.3	57.0	1.15																		
1324009041 Dup	52.2	65.7	13.6	57.0	1.15																		
GC20-0114-001 Orig							> 5000																
GC20-0114-001 Dup							> 5000																
1225029136 Orig								1.5	0.6	58	406	1	12	6	181	1.49	22	< 10	45	< 0.5	< 2	1.21	8
1225029136 Dup								1.4	0.5	57	409	1	14	6	176	1.51	25	< 10	43	< 0.5	< 2	1.23	8
GC20-0085-009 Orig								0.6	< 0.5	293	373	< 1	5	< 2	36	3.49	4	< 10	44	< 0.5	6	1.56	4
GC20-0085-009 Dup								1.0	< 0.5	286	378	< 1	5	< 2	35	3.51	< 2	< 10	44	< 0.5	5	1.57	4
1225029004 Orig																							
1225029004 Dup																							
1225029105 Orig	18.8	16.4	-2.44	22.0	0.744			0.3	< 0.5	57	542	1	12	8	137	2.73	6	21	49	< 0.5	< 2	1.08	9
1225029105 Dup	18.8	16.6	-2.26	22.0	0.752			0.5	< 0.5	57	541	1	11	7	140	2.72	7	20	48	< 0.5	< 2	1.06	10
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	73	5.19	20	< 1	1.09	< 10	0.37	0.085	0.031	0.01	4	23	33		< 1	< 2	< 10	161	< 10	6	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.54	20	< 1	1.15	10	0.39	0.077	0.034	0.01	6	24	31		< 1	2	< 10	170	< 10	6	13		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.73	20	1	1.09	< 10	0.39	0.077	0.034	0.01	5	16	24		< 1	< 2	< 10	161	< 10	3	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	80	5.90	20	1	1.12	< 10	0.40	0.081	0.035	0.01	4	17	26		< 1	2	< 10	164	< 10	3	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
SGR-1b Meas																						27.5	1.49
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.54
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02		29	15	0.13		< 2	< 10	194		6	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.36
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1231034236 Orig	245	4.30	< 10	< 1	0.11	< 10	1.54	0.541	0.026	0.26	2	5	58	0.20	2	< 2	< 10	112	< 10	3	4		
1231034236 Dup	248	4.37	< 10	< 1	0.11	< 10	1.57	0.550	0.027	0.27	< 2	5	59	0.20	< 1	< 2	< 10	112	< 10	3	4		
GC20-0026-011 Orig																							
GC20-0026-011 Dup																							
1324005025 Orig	294	2.47	< 10	< 1	0.17	14	0.74	0.060	0.039	1.61	2	1	23	0.02	< 1	< 2	< 10	16	< 10	2	15	0.46	1.64
1324005025 Dup	279	2.43	< 10	< 1	0.16	14	0.73	0.059	0.038	1.62	< 2	1	22	0.02	< 1	< 2	< 10	15	< 10	2	15	0.47	1.67
1324004183 Orig																							
1324004183 Dup																							
1324004104 Orig																						0.49	3.04
1324004104 Dup																						0.48	2.99
1324004048 Orig	140	1.95	< 10	< 1	0.27	13	0.54	0.022	0.049	1.93	4	< 1	29	< 0.01	< 1	< 2	< 10	6	< 10	2	11		
1324004048 Dup	137	1.87	< 10	< 1	0.26	13	0.52	0.021	0.047	1.85	3	< 1	29	< 0.01	< 1	< 2	< 10	5	< 10	2	11		
1324004001 Orig																							
1324004001 Dup																							
GC20-0039-009 Orig	119	7.36	< 10	< 1	0.19	< 10	1.37	0.119	0.075	6.35	3	4	43	0.11	7	< 2	< 10	69	< 10	8	8		
GC20-0039-009 Dup	117	7.40	< 10	< 1	0.20	< 10	1.40	0.126	0.076	6.28	3	5	44	0.12	2	< 2	< 10	69	< 10	9	8		
1324004218 Orig																						0.32	1.32
1324004218 Dup																						0.32	1.36
1225026180 Orig																							
1225026180 Dup																							
1231034001 Orig	129	2.52	< 10	< 1	0.22	12	1.07	0.208	0.038	0.36	< 2	3	40	0.10	< 1	< 2	< 10	40	< 10	2	7		
1231034001 Dup	130	2.50	< 10	< 1	0.21	12	1.05	0.206	0.037	0.36	< 2	3	40	0.10	< 1	< 2	< 10	40	< 10	2	7		
1324006070 Orig																							
1324006070 Dup																							
1225026175 Orig																						0.85	1.52
1225026175 Dup																						0.84	1.52
1225026075 Orig	363	3.31	< 10	< 1	0.24	18	1.52	0.101	0.049	2.14	2	2	83	< 0.01	4	< 2	< 10	18	< 10	2	14		
1225026075 Dup	359	3.25	< 10	< 1	0.24	18	1.49	0.102	0.049	2.11	3	2	82	< 0.01	7	< 2	< 10	18	< 10	2	15		
GC20-0051-018 Orig																							
GC20-0051-018 Dup																							
GC20-0059-003 Orig	155	1.36	< 10	< 1	0.22	< 10	0.94	0.270	0.037	0.48	3	< 1	213	< 0.01	2	< 2	< 10	11	< 10	1	14		
GC20-0059-003 Dup	157	1.37	< 10	< 1	0.22	< 10	0.96	0.271	0.037	0.46	2	< 1	217	< 0.01	< 1	< 2	< 10	11	< 10	1	14		
1225026185 Orig																							
1225026185 Dup																							
1324006082 Orig																						0.29	1.85
1324006082 Dup																						0.27	1.88
1231039016 Orig	102	2.66	< 10	< 1	0.34	20	1.24	0.024	0.059	1.54	3	1	11	0.01	< 1	< 2	< 10	20	< 10	2	11		
1231039016 Dup	103	2.66	< 10	< 1	0.34	21	1.24	0.024	0.060	1.53	< 2	1	11	0.01	< 1	< 2	< 10	20	< 10	2	11		
1324009001 Orig																							
1324009001 Dup																							
1324007106 Orig																							
1324007106 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0122-002 Orig	72	2.61	< 10	< 1	0.08	11	1.01	0.255	0.034	1.79	4	1	121	< 0.01	2	< 2	< 10	14	< 10	3	12		
GC20-0122-002 Dup	74	2.55	< 10	< 1	0.08	12	1.01	0.247	0.035	1.76	3	1	119	< 0.01	4	< 2	< 10	14	< 10	3	12		
1231038215 Orig																						0.26	1.51
1231038215 Dup																						0.26	1.59
1324009041 Orig																							
1324009041 Dup																							
GC20-0114-001 Orig																							
GC20-0114-001 Dup																							
1225029136 Orig	216	2.18	< 10	< 1	0.24	10	0.87	0.094	0.037	1.31	2	1	33	< 0.01	< 1	< 2	< 10	12	< 10	2	11		
1225029136 Dup	220	2.16	< 10	< 1	0.24	11	0.87	0.094	0.038	1.31	< 2	1	33	< 0.01	3	< 2	< 10	12	< 10	2	11		
GC20-0085-009 Orig	124	3.06	< 10	< 1	0.19	12	0.93	0.312	0.035	0.95	3	< 1	164	0.02	< 1	< 2	< 10	9	< 10	2	16		
GC20-0085-009 Dup	123	3.04	< 10	< 1	0.19	12	0.93	0.311	0.034	0.95	2	< 1	165	0.02	< 1	< 2	< 10	9	< 10	2	16		
1225029004 Orig																						0.13	1.40
1225029004 Dup																						0.15	1.46
1225029105 Orig	114	3.15	< 10	< 1	0.27	15	1.59	0.149	0.043	0.67	2	1	42	0.04	< 1	< 2	< 10	17	< 10	2	12		
1225029105 Dup	108	3.00	< 10	< 1	0.25	15	1.51	0.139	0.041	0.70	2	1	40	0.03	3	< 2	< 10	16	< 10	2	12		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	15.0
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1231034236 Orig	
1231034236 Dup	
GC20-0026-011 Orig	
GC20-0026-011 Dup	
1324005025 Orig	
1324005025 Dup	
1324004183 Orig	11.9
1324004183 Dup	13.4
1324004104 Orig	
1324004104 Dup	
1324004048 Orig	
1324004048 Dup	
1324004001 Orig	
1324004001 Dup	
GC20-0039-009 Orig	
GC20-0039-009 Dup	
1324004218 Orig	
1324004218 Dup	
1225026180 Orig	
1225026180 Dup	
1231034001 Orig	
1231034001 Dup	
1324006070 Orig	
1324006070 Dup	
1225026175 Orig	
1225026175 Dup	
1225026075 Orig	
1225026075 Dup	
GC20-0051-018 Orig	
GC20-0051-018 Dup	
GC20-0059-003 Orig	
GC20-0059-003 Dup	
1225026185 Orig	
1225026185 Dup	
1324006082 Orig	
1324006082 Dup	
1231039016 Orig	
1231039016 Dup	
1324009001 Orig	
1324009001 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1324007106 Orig	
1324007106 Dup	
GC20-0122-002 Orig	
GC20-0122-002 Dup	
1231038215 Orig	
1231038215 Dup	
1324009041 Orig	
1324009041 Dup	
GC20-0114-001 Orig	
GC20-0114-001 Dup	
1225029136 Orig	
1225029136 Dup	
GC20-0085-009 Orig	
GC20-0085-009 Dup	
1225029004 Orig	
1225029004 Dup	
1225029105 Orig	
1225029105 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10434**
Report Date:	**19-Oct-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-09-23 21:20:29
4F-C, S	Infrared	2020-09-21 21:20:58

REPORT **A20-10434**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.:	**A20-10434**
Report Date:	**19-Oct-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-22 09:03:54
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-25 19:21:56

REPORT **A20-10434**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225024156	47.9	24.5	-23.4	54.5	0.449	8.91	110	1.1	2.1	41	440	3	85	3	570	1.19	13	< 10	52	< 0.5	< 2	1.09	58
1225024158	42.9	37.5	-5.39	49.6	0.756	8.93	70	0.7	0.9	46	519	5	52	3	247	1.24	9	< 10	55	< 0.5	< 2	1.51	35
1232016141	9.69	16.0	6.32	9.49	1.69	9.22	14	0.3	< 0.5	26	488	2	20	6	98	2.45	6	< 10	81	0.5	< 2	1.33	12
1232016039	7.70	23.6	15.9	10.7	2.20	9.06	21	0.9	< 0.5	15	507	3	22	15	52	2.79	17	< 10	63	< 0.5	< 2	1.95	8
1232016134	9.99	27.4	17.5	13.2	2.08	9.37	42	0.4	0.7	25	598	3	29	6	191	1.93	7	< 10	74	< 0.5	< 2	1.54	10
1232016058	8.13	13.1	4.95	7.96	1.64	9.29	9	0.3	< 0.5	10	531	3	28	7	84	2.74	3	< 10	94	< 0.5	< 2	1.50	9
1232016176	1.14	27.4	26.3	6.43	4.27	9.44	35	0.4	< 0.5	24	513	2	20	7	77	2.96	9	< 10	71	< 0.5	< 2	2.08	9
1225013045	1.13	41.8	40.7	14.1	2.97	9.30	103	0.2	< 0.5	63	475	2	15	7	69	1.16	4	< 10	208	< 0.5	< 2	1.83	6
1225013008	12.3	39.5	27.2	16.8	2.35	9.24	53	< 0.2	< 0.5	17	422	2	14	5	52	1.23	4	< 10	182	< 0.5	< 2	1.79	7
1225013014	56.2	12.6	-43.7	65.2	0.192	8.40	294	0.8	1.3	183	625	2	19	6	379	2.79	21	< 10	39	< 0.5	3	0.87	11
1232016042	14.7	24.8	10.2	19.0	1.31	9.12	186	0.7	0.9	14	694	2	23	12	236	2.71	14	< 10	71	< 0.5	< 2	1.87	8
1225011088	43.0	32.3	-10.8	49.3	0.654	8.80	221	0.6	1.9	150	500	6	28	2	500	1.26	10	< 10	44	< 0.5	2	1.31	10
1225013031	57.2	9.35	-47.8	63.1	0.148	8.45	68	1.0	< 0.5	203	333	3	27	2	75	2.45	10	< 10	38	< 0.5	3	1.19	10
1225013085	36.2	12.4	-23.8	40.4	0.307	8.53	156	1.1	0.8	129	261	2	19	< 2	268	1.87	3	< 10	44	< 0.5	11	0.87	7
1232016006	6.87	32.7	25.8	10.1	3.24	9.28	17	0.3	0.6	17	532	3	25	6	187	1.79	5	< 10	69	< 0.5	< 2	1.71	9
1225011040	52.8	26.2	-26.6	58.8	0.445	8.46	120	0.7	0.8	152	477	5	28	2	260	1.19	9	< 10	43	< 0.5	< 2	1.07	11
1225011085	43.8	27.2	-16.6	49.3	0.552	8.81	40	0.4	0.9	99	484	5	25	2	268	1.25	5	< 10	50	< 0.5	< 2	1.13	9
1225011037	43.7	35.1	-8.64	50.5	0.695	8.99	193	0.8	2.7	145	436	4	20	3	657	1.25	11	< 10	46	< 0.5	< 2	1.42	9
1225013179	72.9	3.19	-69.7	79.6	0.0401	7.90	338	0.6	0.8	82	427	2	21	< 2	283	2.27	12	< 10	23	< 0.5	4	0.49	11
1225013135	43.1	11.2	-31.9	47.5	0.237	8.46	104	0.9	< 0.5	209	236	3	22	< 2	125	1.83	4	< 10	40	< 0.5	7	0.74	7
1225013106	38.6	11.4	-27.2	43.2	0.265	8.73	152	0.5	1.8	67	429	3	21	3	485	2.13	13	< 10	52	< 0.5	< 2	0.94	9
1433002055	16.7	49.1	32.5	22.0	2.23	8.54	10	0.3	< 0.5	23	865	2	15	4	102	2.31	17	< 10	65	< 0.5	< 2	2.35	9
1225013252	53.3	31.9	-21.4	59.7	0.534	8.53	121	0.8	0.8	111	302	3	20	3	235	1.34	3	< 10	38	< 0.5	5	1.29	5
1225011028	39.6	36.9	-2.70	45.6	0.808	8.86	69	0.6	< 0.5	127	462	5	26	< 2	87	1.28	12	< 10	44	< 0.5	< 2	1.51	9
F001332							1060	3.4	< 0.5	34	265	< 1	9	14	44	1.40	< 2	< 10	43	< 0.5	< 2	0.90	10
GC20-0013-004							75	0.3	1.7	21	592	1	11	< 2	407	2.27	10	< 10	28	< 0.5	< 2	1.01	8
1232018172	38.5	14.5	-24.1	45.3	0.319	8.29	109	2.3	3.5	86	432	< 1	20	27	759	1.49	71	< 10	39	< 0.5	< 2	1.16	13
1324003022	45.2	19.7	-25.5	53.0	0.371	8.40	1610	2.6	5.5	287	711	< 1	15	15	1320	1.55	113	< 10	29	< 0.5	< 2	0.86	9
1231034487	13.3	30.0	16.6	17.1	1.75	9.20	56	1.3	< 0.5	21	650	< 1	20	19	151	1.74	10	< 10	96	< 0.5	< 2	1.84	10
GC20-0012-008							143	1.4	< 0.5	162	1130	1	32	4	233	2.74	36	< 10	32	< 0.5	< 2	1.07	24
1324005217	68.3	5.87	-62.5	73.2	0.0802	7.90	640	1.4	< 0.5	266	376	3	13	5	104	2.33	16	< 10	36	< 0.5	4	0.95	9
GC20-0016-001							294	0.4	< 0.5	38	350	< 1	14	< 2	56	3.40	9	< 10	36	< 0.5	< 2	1.88	7
GC20-0014-002							121	0.3	0.8	16	848	< 1	15	4	216	2.76	9	< 10	58	< 0.5	< 2	1.79	10
GC20-0014-019							83	0.9	0.5	95	560	< 1	16	4	173	1.97	11	< 10	39	< 0.5	< 2	0.84	10
1324005361	65.3	33.5	-31.8	72.6	0.462	8.31	200	1.7	4.2	68	463	< 1	20	5	959	1.96	11	< 10	36	< 0.5	< 2	1.66	10
1324003179	46.4	10.8	-35.7	55.1	0.195	8.33	3050	1.6	10.8	122	869	< 1	20	21	2610	2.08	107	< 10	25	< 0.5	< 2	0.44	10
1231034486	11.9	32.5	20.6	15.3	2.12	9.21	68	1.0	0.5	25	672	1	19	7	171	1.75	16	< 10	81	< 0.5	< 2	1.68	10
1231034226	62.0	8.09	-53.9	70.1	0.115	8.21	823	3.4	10.5	66	209	< 1	13	186	2550	0.53	44	< 10	34	< 0.5	< 2	0.47	9
1324003217	52.0	12.7	-39.3	57.6	0.221	8.30	2640	2.4	1.4	68	921	< 1	15	29	393	2.62	115	< 10	30	< 0.5	< 2	1.07	9
GC20-0013-021							85	0.5	1.4	32	797	< 1	91	5	322	2.67	7	< 10	56	< 0.5	< 2	3.21	14
1232018158	66.9	5.18	-61.7	72.0	0.0720	8.16	486	16.4	5.5	29	630	< 1	19	689	1570	0.88	159	< 10	17	< 0.5	< 2	0.28	10
1324005236	69.4	4.95	-64.4	73.2	0.0676	7.97	604	0.9	< 0.5	51	351	2	14	3	55	2.64	9	< 10	30	< 0.5	2	1.05	8
GC20-0010-018							492	2.2	2.6	46	988	2	13	5	480	2.67	19	< 10	35	< 0.5	< 2	2.13	11
1231034227	47.1	9.82	-37.3	54.2	0.181	8.47	259	6.7	5.5	36	392	< 1	10	320	1390	0.51	65	< 10	33	< 0.5	< 2	0.40	9
1231034074	45.8	3.32	-42.5	52.7	0.0630	7.87	1450	4.7	11.4	66	76	< 1	11	418	2600	0.44	59	< 10	34	< 0.5	< 2	0.15	9
1324001100	55.9	162	106	63.4	2.55	8.51	67	0.8	1.6	40	452	< 1	11	6	364	1.54	14	< 10	30	< 0.5	< 2	5.75	8
1231034334	20.9	12.5	-8.46	23.6	0.529	8.72	669	1.0	1.0	115	605	< 1	18	102	259	2.24	19	< 10	67	< 0.5	< 2	1.48	12
F000741							1030	2.4	< 0.5	60	398	10	16	7	55	1.72	< 2	< 10	83	< 0.5	< 2	1.40	17
1324005267	77.0	11.2	-65.7	82.4	0.137	8.54	159	1.2	2.8	105	386	< 1	9	8	693	2.15	18	< 10	22	< 0.5	< 2	1.17	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324005274	62.8	25.6	-37.2	68.6	0.374	8.51	147	1.1	< 0.5	199	542	< 1	13	13	79	2.19	13	< 10	33	< 0.5	3	1.60	9
1324003162	64.5	62.3	-2.19	71.7	0.869	8.77	248	10.0	1.3	49	1830	< 1	14	60	341	1.03	37	< 10	25	< 0.5	< 2	2.49	10
1324003086	62.4	61.9	-0.529	69.8	0.886	8.71	420	8.5	1.9	44	1820	2	12	84	454	0.74	42	< 10	24	< 0.5	< 2	2.18	9
1324003001	51.1	76.8	25.7	57.0	1.35	8.68	106	1.0	0.7	28	1090	< 1	19	49	212	1.44	61	< 10	43	< 0.5	< 2	2.94	11
1324003194	27.1	144	117	32.2	4.47	8.90	21	0.5	< 0.5	12	407	< 1	7	5	38	2.24	12	< 10	27	< 0.5	< 2	5.63	5
1324003009	26.6	11.2	-15.3	31.2	0.359	8.36	107	0.6	3.9	51	309	< 1	10	7	907	1.86	43	< 10	26	< 0.5	< 2	0.68	7
1324003111	70.2	22.4	-47.8	76.3	0.293	8.57	306	1.7	2.2	115	655	< 1	13	15	492	2.09	35	< 10	27	< 0.5	< 2	1.67	9
1324001004	24.8	8.36	-16.4	27.9	0.300	8.70	31	0.6	< 0.5	17	407	< 1	8	5	117	2.54	15	< 10	36	< 0.5	< 2	1.14	8
GC20-0003-020							319	2.3	1.4	170	907	1	58	5	403	2.74	74	< 10	14	< 0.5	< 2	1.19	48
1324001426	50.4	19.8	-30.6	57.0	0.348	8.46	1020	1.3	7.0	76	804	1	14	51	1430	2.68	64	< 10	28	< 0.5	< 2	1.94	9
1324001448	49.7	33.2	-16.5	56.7	0.586	8.56	521	2.0	3.6	166	970	< 1	12	78	761	2.16	61	< 10	32	< 0.5	< 2	1.98	8
1324003172	64.8	7.84	-56.9	74.4	0.105	8.23	3800	2.2	12.5	69	528	< 1	15	37	2960	1.28	140	< 10	26	< 0.5	< 2	0.40	10
GC20-0004-015							337	1.9	3.0	105	1260	1	50	8	454	3.58	60	< 10	12	< 0.5	< 2	1.71	36
1324003092	59.2	5.82	-53.3	64.9	0.0896	8.20	1460	1.0	0.7	32	686	1	12	24	208	1.72	132	< 10	28	< 0.5	< 2	0.48	10
1324001433	56.7	32.6	-24.0	64.0	0.509	8.52	456	3.1	7.7	149	849	< 1	13	52	1600	2.04	37	< 10	28	< 0.5	< 2	2.12	9
1231034994	28.2	24.6	-3.58	32.2	0.766	8.40	67	0.4	< 0.5	93	366	< 1	20	20	98	2.09	16	< 10	45	< 0.5	< 2	1.98	15
GC20-0003-001							81	0.3	< 0.5	48	355	< 1	12	< 2	104	3.19	7	< 10	30	< 0.5	< 2	1.08	10
1324001043	59.6	35.4	-24.2	66.5	0.533	8.65	116	0.7	1.9	60	839	< 1	11	10	442	2.82	12	< 10	35	< 0.5	< 2	2.28	9
GC20-0001-001							100	0.7	< 0.5	208	535	6	19	7	89	2.39	12	< 10	44	< 0.5	2	0.85	10
1324001395	46.3	65.6	19.3	54.5	1.20	8.58	226	1.0	1.2	37	1250	< 1	17	50	328	1.92	66	< 10	46	< 0.5	< 2	2.77	12
F000725							781	4.5	< 0.5	30	230	< 1	7	10	39	1.30	< 2	< 10	41	< 0.5	< 2	0.76	8
1324005180	52.6	10.1	-42.5	56.3	0.179	8.52	769	0.9	< 0.5	182	494	3	12	4	62	2.53	14	< 10	36	< 0.5	< 2	1.26	9
GC20-0007-018							129	1.2	< 0.5	17	261	< 1	86	4	40	0.99	9	< 10	28	< 0.5	< 2	0.57	61
GC20-0010-001							46	0.2	< 0.5	47	471	< 1	11	< 2	66	3.44	5	< 10	73	< 0.5	< 2	1.37	10
1232018020	61.3	24.2	-37.1	70.4	0.344	8.25	223	12.7	5.4	128	822	< 1	25	215	1410	1.61	56	< 10	35	< 0.5	< 2	1.25	13
1324005145	46.0	14.7	-31.3	50.5	0.291	8.45	693	1.4	< 0.5	225	528	3	15	3	144	2.39	12	< 10	40	< 0.5	< 2	1.45	17
1324005282	67.5	12.1	-55.4	73.2	0.165	8.30	204	0.8	2.1	99	411	< 1	12	4	522	2.43	12	< 10	27	< 0.5	< 2	1.27	9
1232018130	115	14.2	-101	134	0.106	7.82	469	15.1	28.1	91	832	< 1	27	182	6230	1.38	127	< 10	20	< 0.5	< 2	0.71	12
1232018041	8.44	11.4	2.97	8.27	1.38	9.31	6	0.3	< 0.5	20	344	1	13	5	49	2.34	5	< 10	60	< 0.5	< 2	1.46	8
GC20-0009-011							113	0.3	< 0.5	27	435	< 1	12	< 2	87	2.61	16	< 10	35	< 0.5	< 2	0.73	9
1232018093	36.4	25.7	-10.7	44.4	0.580	8.45	122	2.8	0.8	27	1680	< 1	20	31	212	2.63	48	< 10	44	< 0.5	< 2	1.69	11
GC20-0008-014							243	0.5	< 0.5	53	383	< 1	15	< 2	66	2.38	19	< 10	31	< 0.5	< 2	0.48	11
GC20-0007-001							143	0.8	< 0.5	23	584	< 1	17	2	131	1.81	7	< 10	44	< 0.5	< 2	1.91	13
1232018112	52.4	7.88	-44.5	71.1	0.111	8.28	231	7.4	2.6	21	1630	2	23	184	693	2.12	92	< 10	35	< 0.5	< 2	0.46	12
1232018004	7.28	23.2	15.9	15.9	1.46	9.02	31	0.6	< 0.5	23	472	1	17	8	88	1.94	13	< 10	65	< 0.5	< 2	1.69	8
1324005266	49.4	14.3	-35.1	60.6	0.235	8.46	176	3.3	0.9	97	405	< 1	9	5	275	2.40	12	< 10	26	< 0.5	2	1.24	7
GC20-0005-018							149	2.2	< 0.5	10	637	1	22	4	147	2.45	8	< 10	47	< 0.5	< 2	1.73	17
1324001445	29.3	18.3	-11.0	40.4	0.453	8.59	916	1.6	18.0	224	624	< 1	14	42	3500	1.91	89	< 10	24	< 0.5	< 2	1.03	9
GC20-0005-001							40	0.3	1.9	27	770	< 1	16	< 2	524	2.64	6	< 10	44	< 0.5	< 2	1.09	8
1324003033	73.6	10.8	-62.8	89.4	0.121	8.33	238	1.1	1.6	63	629	1	13	28	420	2.21	27	< 10	30	< 0.5	< 2	1.43	8
F000735							973	2.4	< 0.5	58	384	10	14	5	53	1.62	< 2	< 10	79	< 0.5	< 2	1.30	16
1324005347	38.6	14.6	-24.0	48.7	0.299	8.45	94	0.7	3.2	104	295	1	16	5	814	1.76	14	< 10	34	< 0.5	3	0.76	10
1324005194	71.7	10.1	-61.5	80.5	0.125	8.36	142	0.5	0.6	99	162	< 1	8	2	152	1.24	9	< 10	30	< 0.5	< 2	7.97	6
GC20-0024-002							86	0.5	< 0.5	54	403	< 1	10	< 2	105	1.88	18	< 10	39	< 0.5	2	0.20	9
1324005193	78.2	6.09	-72.1	90.7	0.0672	7.81	209	0.6	< 0.5	116	220	2	12	4	56	1.63	15	< 10	28	< 0.5	3	0.63	10
1231034114	32.9	41.8	8.87	40.7	1.03	8.44	98	3.1	0.7	27	815	< 1	15	70	198	0.74	59	< 10	29	< 0.5	< 2	1.89	9
1231034509	53.2	44.8	-8.36	65.2	0.688	8.56	155	6.0	3.0	34	976	< 1	16	354	852	0.62	81	< 10	28	< 0.5	< 2	1.83	12
1324005116	37.3	13.7	-23.6	44.7	0.307	8.36	635	1.0	< 0.5	137	570	3	12	5	60	2.75	10	< 10	47	< 0.5	< 2	1.58	8
1324005328	72.5	18.0	-54.5	82.1	0.219	8.20	211	1.3	4.5	108	440	< 1	12	5	1080	2.01	21	< 10	26	< 0.5	< 2	1.22	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0024-019							43	0.3	0.9	23	517	< 1	39	2	225	1.25	21	< 10	54	< 0.5	< 2	1.43	31
GC20-0025-015							222	0.2	0.6	11	592	< 1	9	3	149	1.33	12	< 10	64	< 0.5	< 2	1.89	10
1231034030	38.3	21.6	-16.8	42.9	0.503	8.48	140	11.8	< 0.5	21	728	2	15	30	96	0.53	33	< 10	29	< 0.5	< 2	0.99	11
1324003251	46.6	23.8	-22.7	53.3	0.448	8.65	588	0.9	8.4	78	779	1	16	32	1660	2.31	39	< 10	39	< 0.5	< 2	1.77	9
1231034257	30.0	20.7	-9.32	33.7	0.614	8.67	107	0.6	< 0.5	16	643	< 1	9	39	163	2.14	25	< 10	44	< 0.5	< 2	1.66	7
GC20-0017-013							1620	2.7	< 0.5	96	606	< 1	12	2	157	2.02	27	< 10	39	< 0.5	< 2	0.75	11
GC20-0016-018							490	1.1	2.4	121	618	< 1	24	2	372	1.99	39	< 10	21	< 0.5	5	1.39	20
1231034389	5.63	19.5	13.9	5.51	3.54	8.38	17	0.3	< 0.5	95	703	< 1	47	< 2	44	4.75	4	< 10	24	< 0.5	< 2	3.54	25
1324005373	71.2	21.0	-50.2	77.2	0.272	8.42	212	0.9	4.2	108	497	< 1	15	7	1000	2.04	11	< 10	33	< 0.5	< 2	1.27	10
GC20-0018-016							90	0.3	1.5	21	606	< 1	12	2	336	2.52	13	< 10	55	< 0.5	< 2	1.95	9
GC20-0019-011							113	0.3	0.8	28	587	< 1	11	4	208	2.31	5	< 10	55	< 0.5	< 2	1.58	9
GC20-0020-009							85	0.3	< 0.5	21	570	< 1	14	2	95	1.27	8	< 10	64	< 0.5	< 2	1.76	9
GC20-0021-001							754	1.1	< 0.5	281	403	< 1	18	< 2	115	3.11	15	< 10	32	< 0.5	< 2	1.23	15
GC20-0021-018							1440	2.6	5.5	350	555	< 1	12	3	1100	2.02	18	< 10	41	< 0.5	2	0.66	11
GC20-0023-018							236	0.8	< 0.5	126	736	< 1	12	3	181	2.04	12	< 10	62	< 0.5	< 2	0.96	8
F000724							1080	3.1	< 0.5	32	253	< 1	7	16	42	1.32	< 2	< 10	44	< 0.5	< 2	0.85	9
GC20-0073-014							77	0.3	< 0.5	23	235	< 1	12	< 2	67	3.54	5	< 10	38	< 0.5	< 2	1.45	11
1225029020	47.7	16.6	-31.1	51.5	0.322	8.59	153	0.7	< 0.5	65	512	< 1	29	5	146	1.79	19	< 10	38	< 0.5	< 2	1.27	11
1324006218	52.7	9.15	-43.6	57.0	0.161	8.35	63	0.4	< 0.5	69	458	3	17	< 2	150	1.78	10	< 10	39	< 0.5	< 2	0.96	10
GC20-0066-001							93	0.5	< 0.5	88	472	5	12	2	133	3.37	10	< 10	52	< 0.5	< 2	1.54	7
1324006089	24.3	15.0	-9.30	27.3	0.549	8.74	29	< 0.2	< 0.5	113	740	2	34	< 2	156	3.62	3	< 10	72	< 0.5	< 2	2.49	19
1324005084	16.8	8.20	-8.57	19.6	0.418	8.81	35	0.3	< 0.5	34	538	1	11	5	77	3.04	8	< 10	58	< 0.5	< 2	1.73	8
GC20-0071-018							217	0.3	< 0.5	46	411	< 1	10	< 2	62	2.46	8	< 10	32	< 0.5	< 2	0.60	9
GC20-0066-016							904	0.5	< 0.5	44	355	< 1	13	2	55	3.41	14	< 10	41	< 0.5	4	1.65	10
GC20-0071-001							223	0.5	< 0.5	71	262	< 1	10	2	83	3.41	13	< 10	47	< 0.5	9	1.43	7
GC20-0074-009FD							55	0.2	< 0.5	27	183	< 1	9	< 2	19	2.80	3	< 10	28	< 0.5	< 2	1.19	2
GC20-0070-001							106	0.4	< 0.5	123	278	1	9	< 2	70	3.84	< 2	< 10	44	< 0.5	< 2	1.93	5
GC20-0067-005							122	0.3	< 0.5	14	167	1	12	< 2	29	2.61	8	< 10	33	< 0.5	2	1.05	11
GC20-0069-018							106	0.4	< 0.5	16	262	1	12	< 2	31	3.23	11	< 10	30	< 0.5	5	1.60	11
1225029001	25.5	9.32	-16.2	28.2	0.331	8.72	226	0.3	< 0.5	79	375	< 1	11	3	36	3.42	7	12	29	< 0.5	< 2	1.46	10
1225029118	34.0	9.74	-24.2	36.8	0.265	8.75	122	0.3	< 0.5	84	235	1	13	< 2	23	2.86	6	< 10	33	< 0.5	2	1.16	9
1324006268	55.1	14.0	-41.1	59.1	0.237	8.80	297	0.8	< 0.5	187	534	3	10	2	101	1.15	9	< 10	43	< 0.5	< 2	0.85	9
1225029162	24.5	11.5	-13.0	27.3	0.421	8.70	73	0.3	< 0.5	98	514	2	11	6	101	2.68	7	12	40	< 0.5	< 2	0.74	8
GC20-0068-009FD							41	< 0.2	< 0.5	14	365	2	9	< 2	104	4.61	3	< 10	32	< 0.5	< 2	2.71	7
1324006238	45.6	18.1	-27.5	51.1	0.355	8.52	99	0.6	0.6	68	701	3	19	9	208	2.45	10	< 10	41	< 0.5	< 2	1.86	10
1324006197	55.2	9.09	-46.1	60.0	0.151	8.37	388	1.3	0.6	106	449	3	16	3	190	1.84	8	< 10	38	< 0.5	< 2	1.35	10
GC20-0072-014							58	0.4	< 0.5	76	262	1	8	< 2	64	2.34	23	< 10	35	< 0.5	< 2	0.86	9
GC20-0069-001							679	0.7	2.6	103	354	3	11	< 2	559	3.14	21	< 10	48	< 0.5	2	1.42	10
F000737							1030	3.2	< 0.5	32	249	< 1	7	15	42	1.31	< 2	< 10	42	< 0.5	< 2	0.85	9
GC20-0033-008							102	0.3	< 0.5	22	493	< 1	13	2	74	1.84	9	< 10	48	< 0.5	< 2	0.85	9
GC20-0032-010							251	0.7	< 0.5	161	614	< 1	14	< 2	168	1.68	14	< 10	37	< 0.5	< 2	0.52	8
GC20-0029-015							96	1.0	< 0.5	163	452	< 1	10	< 2	41	1.31	19	< 10	37	< 0.5	4	0.76	9
GC20-0034-018							198	2.7	1.2	44	688	< 1	16	5	348	2.92	25	< 10	41	< 0.5	< 2	1.69	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225024156	595	2.72	< 10	< 1	0.38	< 10	0.69	0.083	0.071	1.88	5	9	24	0.02	5	< 2	< 10	99	< 10	6	7	0.36	1.78
1225024158	551	2.85	< 10	< 1	0.39	< 10	0.88	0.075	0.054	1.69	4	4	32	0.02	< 1	< 2	< 10	53	< 10	4	15	0.54	1.62
1232016141	372	2.31	< 10	< 1	0.34	23	0.78	0.198	0.053	0.30	3	2	98	0.09	< 1	< 2	< 10	26	< 10	4	14	0.25	0.31
1232016039	545	1.38	< 10	< 1	0.35	16	0.60	0.330	0.041	0.36	3	1	120	< 0.01	2	< 2	< 10	15	< 10	3	10	0.38	0.35
1232016134	596	2.56	< 10	< 1	0.33	14	0.81	0.135	0.041	0.42	5	2	48	0.10	3	< 2	< 10	29	< 10	3	21	0.37	0.43
1232016058	501	2.32	< 10	< 1	0.41	17	0.83	0.302	0.045	0.31	3	2	137	0.10	1	< 2	< 10	29	< 10	4	13	0.25	0.26
1232016176	373	2.26	< 10	< 1	0.36	22	0.91	0.307	0.051	0.21	3	2	154	0.08	1	< 2	< 10	26	< 10	4	10	0.38	0.21
1225013045	383	1.76	< 10	< 1	0.39	50	0.40	0.097	0.070	0.48	< 2	< 1	179	0.01	2	< 2	< 10	10	< 10	5	4	0.60	0.46
1225013008	354	1.71	< 10	< 1	0.35	46	0.46	0.106	0.067	0.55	2	< 1	121	0.01	< 1	< 2	< 10	11	< 10	5	7	0.54	0.55
1225013014	276	3.42	< 10	< 1	0.28	14	1.57	0.158	0.043	2.12	3	2	70	< 0.01	3	< 2	< 10	21	< 10	4	24	0.18	2.13
1232016042	434	2.18	< 10	< 1	0.38	14	0.73	0.265	0.041	0.60	3	2	91	0.07	2	< 2	< 10	20	< 10	3	19	0.33	0.62
1225011088	646	2.92	< 10	< 1	0.20	11	0.79	0.087	0.039	1.63	3	1	33	< 0.01	< 1	< 2	< 10	17	< 10	3	17	0.52	1.61
1225013031	514	3.06	< 10	< 1	0.25	13	0.95	0.252	0.036	2.13	3	2	97	0.02	5	< 2	< 10	23	< 10	3	21	0.21	2.06
1225013085	480	2.36	< 10	< 1	0.32	13	0.85	0.148	0.038	1.39	4	< 1	61	0.01	3	< 2	< 10	11	< 10	3	16	0.14	1.32
1232016006	528	2.30	< 10	< 1	0.31	13	0.86	0.098	0.040	0.32	4	2	35	0.09	2	< 2	< 10	24	< 10	3	19	0.46	0.33
1225011040	683	3.19	< 10	< 1	0.17	13	0.81	0.100	0.039	1.98	4	1	31	< 0.01	< 1	< 2	< 10	18	< 10	3	18	0.41	1.92
1225011085	607	2.86	< 10	< 1	0.20	12	0.80	0.103	0.038	1.60	4	1	34	< 0.01	2	< 2	< 10	18	< 10	3	17	0.40	1.61
1225011037	459	2.76	< 10	< 1	0.18	14	0.77	0.101	0.039	1.66	4	1	35	< 0.01	2	< 2	< 10	16	< 10	3	17	0.44	1.65
1225013179	369	4.17	< 10	< 1	0.31	14	1.48	0.090	0.040	2.80	4	1	30	0.01	8	< 2	< 10	14	< 10	3	24	0.14	2.60
1225013135	475	3.05	< 10	< 1	0.37	12	0.96	0.097	0.038	1.57	3	1	33	0.01	2	< 2	< 10	16	< 10	3	21	0.23	1.55
1225013106	488	2.77	< 10	< 1	0.32	14	1.16	0.143	0.045	1.39	3	1	56	0.02	< 1	< 2	< 10	18	< 10	3	20	0.22	1.41
1433002055	235	2.63	< 10	< 1	0.37	11	1.17	0.139	0.038	0.70	< 2	2	50	0.04	< 1	< 2	< 10	18	< 10	3	14	0.58	0.72
1225013252	505	3.23	< 10	< 1	0.37	27	0.75	0.052	0.052	1.95	3	< 1	41	< 0.01	3	< 2	< 10	10	< 10	3	15	0.55	1.95
1225011028	595	2.80	< 10	< 1	0.18	12	0.89	0.105	0.040	1.50	4	1	41	< 0.01	2	< 2	< 10	16	< 10	3	19	0.53	1.49
F001332	15	2.48	< 10	< 1	0.22	13	0.46	0.282	0.040	0.03	< 2	3	40	0.42	5	< 2	< 10	59	< 10	17	28		
GC20-0013-004	139	2.56	< 10	< 1	0.14	15	1.27	0.234	0.051	1.50	< 2	1	74	< 0.01	2	< 2	< 10	19	11	3	17		
1232018172	191	3.09	< 10	< 1	0.22	15	1.00	0.074	0.056	1.52	3	2	40	0.07	< 1	< 2	< 10	33	< 10	4	12	0.33	1.48
1324003022	147	2.96	< 10	< 1	0.25	11	1.09	0.021	0.036	1.76	4	< 1	15	0.01	3	< 2	< 10	8	< 10	2	16	0.33	1.73
1231034487	244	2.61	< 10	2	0.59	28	0.94	0.104	0.066	0.55	2	3	54	0.13	< 1	< 2	< 10	33	< 10	3	15	0.53	0.56
GC20-0012-008	112	6.18	< 10	< 1	0.15	10	1.84	0.062	0.063	2.94	2	7	27	0.12	< 1	< 2	< 10	91	< 10	8	17		
1324005217	208	3.36	< 10	< 1	0.16	13	0.75	0.201	0.040	2.46	2	< 1	109	< 0.01	4	< 2	< 10	9	< 10	3	17	0.23	2.39
GC20-0016-001	183	2.18	< 10	< 1	0.14	12	1.34	0.254	0.039	1.16	5	1	142	< 0.01	3	5	< 10	12	< 10	3	19		
GC20-0014-002	193	2.46	< 10	< 1	0.22	14	1.33	0.253	0.045	0.88	3	2	75	0.03	1	< 2	< 10	19	< 10	4	16		
GC20-0014-019	155	2.43	< 10	< 1	0.19	12	1.18	0.172	0.041	1.74	3	1	62	< 0.01	< 1	< 2	< 10	16	< 10	3	22		
1324005361	242	2.64	< 10	< 1	0.16	20	1.19	0.133	0.050	2.41	3	2	65	< 0.01	5	< 2	< 10	13	< 10	3	16	0.62	2.37
1324003179	150	3.45	< 10	< 1	0.20	11	1.63	0.024	0.037	1.82	4	< 1	16	< 0.01	3	< 2	< 10	10	< 10	2	18	0.23	1.80
1231034486	237	2.36	< 10	< 1	0.54	21	0.88	0.119	0.053	0.49	4	2	58	0.12	< 1	< 2	< 10	27	< 10	3	18	0.47	0.50
1231034226	187	2.43	< 10	1	0.23	12	0.18	0.022	0.042	2.46	< 2	< 1	30	0.01	2	< 2	< 10	8	< 10	2	14	0.18	2.29
1324003217	165	3.27	< 10	< 1	0.22	13	1.44	0.086	0.039	1.86	5	< 1	39	< 0.01	< 1	< 2	< 10	10	< 10	2	15	0.32	1.88
GC20-0013-021	300	2.54	< 10	< 1	0.22	16	2.13	0.190	0.050	0.70	< 2	4	159	0.01	< 1	< 2	< 10	26	< 10	3	10		
1232018158	147	2.92	< 10	< 1	0.15	16	0.73	0.026	0.058	2.66	5	< 1	8	< 0.01	1	< 2	< 10	7	< 10	2	10	0.06	2.35
1324005236	246	3.13	< 10	< 1	0.12	13	0.94	0.210	0.040	2.51	3	< 1	127	< 0.01	< 1	< 2	< 10	9	< 10	3	19	0.18	2.39
GC20-0010-018	117	3.82	< 10	< 1	0.22	< 10	1.39	0.266	0.038	2.28	3	3	77	0.05	< 1	< 2	< 10	38	< 10	4	20		
1231034227	170	1.96	< 10	< 1	0.25	14	0.14	0.020	0.043	1.89	3	< 1	20	< 0.01	< 1	< 2	< 10	6	< 10	2	12	0.14	1.77
1231034074	196	1.97	< 10	1	0.26	16	0.08	0.017	0.036	1.87	4	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	1	11	0.11	1.72
1324001100	176	2.20	< 10	< 1	0.12	16	0.87	0.182	0.044	1.91	< 2	< 1	71	< 0.01	< 1	< 2	< 10	9	< 10	3	11	2.01	2.07
1231034334	204	2.38	< 10	< 1	0.43	< 10	0.94	0.158	0.034	0.78	< 2	4	52	0.10	< 1	< 2	< 10	38	< 10	3	15	0.27	0.77
F000741	12	4.13	< 10	< 1	0.31	11	0.70	0.228	0.071	0.07	< 2	6	35	0.50	< 1	< 2	< 10	124	< 10	17	20		
1324005267	91	2.72	< 10	< 1	0.09	12	0.94	0.200	0.039	2.68	4	< 1	98	< 0.01	4	< 2	< 10	8	< 10	3	20	0.19	2.69
1324005274	188	2.88	< 10	< 1	0.19	15	1.19	0.199	0.048	2.26	3	1	94	< 0.01	1	< 2	< 10	13	< 10	3	12	0.44	2.24
1324003162	125	2.50	< 10	< 1	0.23	14	0.78	0.059	0.045	2.38	3	< 1	57	< 0.01	6	< 2	< 10	5	< 10	2	15	1.02	2.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324003086	161	2.42	< 10	< 1	0.23	11	0.78	0.046	0.043	2.26	5	< 1	44	< 0.01	7	< 2	< 10	4	< 10	2	14	0.97	2.28
1324003001	133	2.51	< 10	< 1	0.36	15	1.11	0.066	0.055	1.89	2	2	90	0.02	< 1	< 2	< 10	16	< 10	4	11	1.15	1.86
1324003194	100	1.64	< 10	< 1	0.13	12	0.80	0.086	0.037	1.04	< 2	< 1	106	< 0.01	< 1	< 2	< 10	7	< 10	2	11	1.82	1.05
1324003009	110	1.92	< 10	< 1	0.12	< 10	0.67	0.041	0.040	1.06	3	< 1	33	< 0.01	< 1	< 2	< 10	10	< 10	1	9	0.17	1.02
1324003111	116	2.68	< 10	< 1	0.20	12	0.78	0.193	0.036	2.54	< 2	< 1	60	0.02	< 1	< 2	< 10	7	< 10	2	22	0.34	2.49
1324001004	130	2.02	< 10	< 1	0.17	14	0.59	0.097	0.043	0.92	< 2	< 1	107	0.01	< 1	< 2	< 10	9	< 10	3	13	0.21	0.91
GC20-0003-020	100	11.0	< 10	< 1	0.15	< 10	1.54	0.063	0.065	8.92	6	10	23	0.16	< 1	< 2	< 10	147	< 10	12	6		
1324001426	124	2.37	< 10	< 1	0.22	12	0.98	0.203	0.037	1.92	< 2	< 1	63	0.02	< 1	< 2	< 10	10	< 10	2	20	0.38	1.86
1324001448	136	2.56	< 10	< 1	0.27	11	1.10	0.072	0.035	1.92	2	< 1	43	< 0.01	< 1	< 2	< 10	9	< 10	2	24	0.48	1.85
1324003172	130	3.30	< 10	< 1	0.23	12	0.73	0.037	0.042	2.51	3	< 1	17	< 0.01	2	< 2	< 10	7	< 10	1	16	0.18	2.43
GC20-0004-015	91	10.1	10	1	0.26	< 10	1.91	0.223	0.057	6.06	4	14	73	0.17	4	< 2	< 10	216	< 10	8	6		
1324003092	132	3.20	< 10	< 1	0.21	13	1.15	0.046	0.042	2.19	6	< 1	24	0.04	3	< 2	< 10	8	< 10	2	15	0.22	2.12
1324001433	137	2.43	< 10	< 1	0.21	12	1.02	0.097	0.042	2.12	3	< 1	45	0.03	< 1	< 2	< 10	8	< 10	3	16	0.51	2.09
1231034994	138	2.60	< 10	< 1	0.35	11	0.80	0.175	0.037	1.02	< 2	3	49	0.10	< 1	< 2	< 10	39	< 10	3	15	0.42	1.05
GC20-0003-001	120	3.05	< 10	< 1	0.15	15	1.58	0.256	0.046	1.39	3	1	131	< 0.01	1	< 2	< 10	17	< 10	4	15		
1324001043	137	2.44	< 10	< 1	0.17	22	1.29	0.308	0.055	2.17	3	1	124	< 0.01	2	< 2	< 10	10	< 10	4	10	0.67	2.17
GC20-0001-001	114	3.75	< 10	< 1	0.22	12	1.33	0.088	0.039	0.93	2	2	74	0.01	< 1	< 2	< 10	17	< 10	3	19		
1324001395	112	2.83	< 10	< 1	0.21	17	1.24	0.127	0.054	1.78	3	1	66	< 0.01	< 1	< 2	< 10	14	< 10	4	12	0.94	1.78
F000725	12	2.10	< 10	< 1	0.26	11	0.45	0.258	0.036	0.03	< 2	2	34	0.36	4	< 2	< 10	50	< 10	16	24		
1324005180	199	3.07	< 10	< 1	0.14	12	0.81	0.285	0.039	1.83	3	< 1	106	< 0.01	2	< 2	< 10	12	< 10	3	16	0.14	1.84
GC20-0007-018	155	3.14	< 10	< 1	0.23	< 10	0.60	0.065	0.075	3.00	2	6	21	0.11	3	< 2	< 10	71	< 10	9	6		
GC20-0010-001	167	3.03	< 10	< 1	0.22	20	1.70	0.238	0.069	0.96	3	2	153	0.02	< 1	< 2	< 10	23	< 10	5	10		
1232018020	252	3.44	< 10	< 1	0.29	15	1.15	0.072	0.054	2.30	4	2	37	0.06	< 1	< 2	< 10	33	< 10	4	14	0.43	2.30
1324005145	204	2.91	< 10	< 1	0.17	13	0.86	0.268	0.040	1.69	3	1	105	0.02	< 1	< 2	< 10	17	47	3	14	0.31	1.65
1324005282	166	2.50	< 10	< 1	0.12	14	0.99	0.216	0.036	2.44	2	< 1	113	< 0.01	2	< 2	< 10	8	< 10	3	16	0.31	2.39
1232018130	252	4.80	< 10	1	0.27	16	1.03	0.038	0.059	4.56	5	1	22	0.02	< 1	< 2	< 10	17	< 10	2	12	0.26	4.37
1232018041	193	1.96	< 10	< 1	0.24	17	1.08	0.176	0.042	0.26	< 2	2	51	0.06	2	< 2	< 10	21	< 10	2	13	0.19	0.27
GC20-0009-011	133	2.83	< 10	< 1	0.16	14	1.74	0.100	0.053	1.34	3	2	55	< 0.01	< 1	< 2	< 10	20	< 10	3	19		
1232018093	169	2.95	< 10	< 1	0.60	16	1.51	0.180	0.051	1.89	3	2	50	0.05	< 1	< 2	< 10	20	< 10	3	17	0.43	1.45
GC20-0008-014	132	2.95	< 10	< 1	0.14	12	1.57	0.085	0.047	1.57	2	2	48	0.01	5	< 2	< 10	20	< 10	3	21		
GC20-0007-001	174	2.27	< 10	< 1	0.18	13	0.98	0.147	0.043	1.34	3	1	71	0.02	3	< 2	< 10	17	< 10	4	15		
1232018112	124	3.27	< 10	< 1	0.69	18	1.74	0.026	0.064	2.29	4	2	7	0.04	1	< 2	< 10	20	< 10	2	12	0.20	2.32
1232018004	259	2.05	< 10	< 1	0.26	15	0.98	0.150	0.042	0.50	3	2	59	0.06	4	< 2	< 10	23	< 10	3	14	0.37	0.52
1324005266	133	2.17	< 10	< 1	0.12	12	1.04	0.181	0.037	1.97	2	< 1	108	< 0.01	5	< 2	< 10	8	< 10	3	8	0.29	1.98
GC20-0005-018	114	2.18	< 10	< 1	0.20	10	1.10	0.233	0.044	1.30	< 2	2	63	0.06	3	< 2	< 10	27	< 10	5	18		
1324001445	139	3.33	< 10	< 1	0.22	11	0.93	0.088	0.035	2.92	4	< 1	36	0.01	< 1	< 2	< 10	8	< 10	2	24	0.21	1.32
GC20-0005-001	297	2.75	< 10	< 1	0.17	13	1.51	0.213	0.043	0.71	3	2	73	0.04	3	< 2	< 10	24	< 10	4	13		
1324003033	140	2.14	< 10	< 1	0.19	12	0.97	0.123	0.038	1.59	3	< 1	64	0.05	1	< 2	< 10	9	< 10	2	17	0.20	2.92
F000735	11	3.91	< 10	< 1	0.29	10	0.66	0.211	0.068	0.07	2	5	32	0.47	7	< 2	< 10	117	< 10	16	19		
1324005347	226	2.76	< 10	< 1	0.20	14	0.70	0.086	0.045	2.53	3	1	66	< 0.01	< 1	< 2	< 10	9	< 10	2	16	0.29	1.59
1324005194	107	2.08	< 10	< 1	0.12	< 10	0.60	0.069	0.031	1.48	< 2	< 1	66	< 0.01	< 1	< 2	< 10	5	< 10	2	14	0.44	2.63
GC20-0024-002	137	3.22	< 10	< 1	0.20	11	1.46	0.054	0.040	1.57	2	< 1	22	< 0.01	< 1	< 2	< 10	12	< 10	2	16		
1324005193	178	3.24	< 10	< 1	0.17	14	0.61	0.081	0.043	2.94	< 2	< 1	64	< 0.01	< 1	< 2	< 10	7	< 10	3	23	0.11	2.96
1231034114	251	1.94	< 10	< 1	0.25	14	0.32	0.036	0.046	1.34	4	1	47	0.04	< 1	< 2	< 10	15	< 10	3	9	0.59	1.33
1231034509	182	2.23	< 10	< 1	0.28	12	0.22	0.035	0.041	2.15	5	< 1	59	< 0.01	< 1	< 2	< 10	6	< 10	2	10	0.62	2.13
1324005116	234	2.45	< 10	< 1	0.18	12	0.77	0.163	0.040	1.36	3	< 1	99	< 0.01	6	< 2	< 10	10	< 10	3	14	0.26	1.46
1324005328	158	2.68	< 10	< 1	0.12	20	1.02	0.171	0.054	2.63	3	1	78	< 0.01	1	< 2	< 10	9	< 10	3	9	0.43	2.68
GC20-0024-019	138	1.83	< 10	< 1	0.26	< 10	0.83	0.062	0.054	0.83	2	3	25	< 0.01	< 1	< 2	< 10	37	< 10	5	8		
GC20-0025-015	148	2.36	< 10	< 1	0.35	12	0.90	0.059	0.043	1.00	< 2	1	37	0.02	< 1	< 2	< 10	15	< 10	3	14		
1231034030	236	1.98	< 10	< 1	0.24	13	0.19	0.030	0.043	1.43	2	< 1	52	0.03	1	< 2	< 10	11	< 10	2	10	0.34	1.40
1324003251	162	2.44	< 10	< 1	0.28	14	1.07	0.117	0.049	1.69	2	1	72	0.04	< 1	< 2	< 10	15	< 10	2	14	0.35	1.74

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231034257	158	1.95	< 10	< 1	0.34	14	0.73	0.208	0.041	1.09	2	1	63	0.04	2	< 2	< 10	12	< 10	2	14	0.36	1.10
GC20-0017-013	131	3.23	< 10	< 1	0.24	14	1.31	0.156	0.044	2.19	3	1	55	0.01	2	< 2	< 10	16	< 10	4	20		
GC20-0016-018	162	4.88	< 10	< 1	0.19	15	1.54	0.086	0.053	3.95	3	3	31	< 0.01	3	< 2	< 10	37	< 10	7	25		
1231034389	132	4.48	< 10	< 1	0.08	< 10	2.38	0.494	0.018	0.16	3	12	73	0.20	3	< 2	< 10	130	< 10	5	5	0.28	0.18
1324005373	219	2.70	< 10	< 1	0.18	16	1.00	0.116	0.043	2.47	3	1	74	< 0.01	< 1	< 2	< 10	9	< 10	3	16	0.59	2.52
GC20-0018-016	130	2.43	< 10	< 1	0.22	14	1.19	0.244	0.043	1.22	< 2	2	68	0.05	3	< 2	< 10	19	< 10	4	16		
GC20-0019-011	183	2.30	< 10	< 1	0.18	14	1.12	0.205	0.049	1.39	2	1	76	0.05	3	< 2	< 10	20	< 10	3	23		
GC20-0020-009	205	2.32	< 10	< 1	0.25	13	0.83	0.069	0.043	0.70	< 2	1	32	0.04	< 1	< 2	< 10	17	< 10	4	16		
GC20-0021-001	171	3.49	< 10	< 1	0.14	11	1.46	0.200	0.040	2.06	3	2	102	0.03	< 1	< 2	< 10	31	< 10	4	22		
GC20-0021-018	138	3.42	< 10	< 1	0.24	14	1.47	0.114	0.045	2.22	2	1	45	0.02	< 1	< 2	< 10	15	< 10	4	24		
GC20-0023-018	146	2.83	< 10	< 1	0.25	11	1.42	0.103	0.038	1.28	3	1	32	0.02	< 1	< 2	< 10	14	< 10	3	19		
F000724	14	2.26	< 10	< 1	0.20	12	0.42	0.257	0.038	0.03	< 2	2	37	0.38	3	< 2	< 10	54	< 10	16	27		
GC20-0073-014	130	2.39	< 10	< 1	0.17	11	1.75	0.330	0.037	1.08	3	1	201	< 0.01	3	< 2	< 10	13	< 10	3	19		
1225029020	276	2.82	< 10	< 1	0.22	26	1.00	0.119	0.070	1.71	3	2	77	0.05	2	< 2	< 10	22	< 10	3	7	0.33	1.68
1324006218	287	2.75	< 10	< 1	0.16	13	0.92	0.196	0.040	1.91	2	1	81	0.03	< 1	< 2	< 10	18	< 10	3	17	0.20	1.86
GC20-0066-001	156	2.38	< 10	< 1	0.20	14	1.17	0.230	0.041	1.12	2	1	164	< 0.01	4	< 2	< 10	15	< 10	3	18		
1324006089	216	3.53	< 10	< 1	0.17	< 10	1.50	0.319	0.029	0.81	3	4	57	0.16	2	< 2	< 10	74	< 10	4	10	0.33	0.89
1324005084	201	2.14	< 10	< 1	0.18	16	0.81	0.154	0.047	0.63	2	1	88	0.01	2	< 2	< 10	11	< 10	3	6	0.30	0.64
GC20-0071-018	125	2.43	< 10	< 1	0.14	12	1.50	0.165	0.038	1.00	2	1	67	< 0.01	4	< 2	< 10	14	< 10	3	20		
GC20-0066-016	142	2.66	< 10	< 1	0.15	13	1.36	0.451	0.041	1.92	3	1	201	< 0.01	5	< 2	< 10	16	< 10	3	22		
GC20-0071-001	212	2.58	< 10	< 1	0.23	10	0.88	0.333	0.032	1.64	3	< 1	184	< 0.01	< 1	< 2	< 10	9	< 10	2	16		
GC20-0074-009FD	137	1.67	< 10	< 1	0.13	< 10	0.99	0.198	0.034	0.77	< 2	1	110	0.01	3	< 2	< 10	12	< 10	3	13		
GC20-0070-001	174	1.60	< 10	< 1	0.17	15	1.06	0.438	0.047	0.70	< 2	1	306	< 0.01	2	< 2	< 10	14	< 10	3	7		
GC20-0067-005	129	2.61	< 10	< 1	0.16	14	1.07	0.309	0.046	2.41	2	1	183	< 0.01	1	< 2	< 10	15	< 10	3	16		
GC20-0069-018	152	2.46	< 10	< 1	0.14	15	1.13	0.431	0.048	2.03	3	1	193	< 0.01	< 1	< 2	< 10	16	18	3	14		
1225029001	170	2.64	< 10	< 1	0.17	12	1.17	0.201	0.036	0.88	3	1	133	0.03	5	< 2	< 10	18	< 10	2	11	0.12	0.92
1225029118	188	2.79	< 10	< 1	0.14	< 10	0.89	0.225	0.032	1.19	2	1	143	< 0.01	< 1	< 2	< 10	12	< 10	2	20	0.17	1.20
1324006268	191	2.61	< 10	< 1	0.39	12	0.72	0.082	0.040	1.92	< 2	1	26	0.06	< 1	< 2	< 10	19	< 10	3	19	0.18	1.93
1225029162	144	3.78	< 10	< 1	0.21	12	1.63	0.114	0.038	0.81	2	1	39	0.02	2	< 2	< 10	14	< 10	2	11	0.22	0.89
GC20-0068-009FD	120	1.27	10	< 1	0.15	14	1.33	0.476	0.048	0.29	3	2	342	< 0.01	< 1	< 2	< 10	17	< 10	3	12		
1324006238	217	2.58	< 10	< 1	0.24	18	0.91	0.244	0.049	1.68	3	2	95	0.06	< 1	< 2	< 10	20	< 10	4	16	0.28	1.67
1324006197	281	2.64	< 10	< 1	0.21	13	0.77	0.196	0.039	1.94	2	1	92	0.05	1	< 2	< 10	16	< 10	3	16	0.34	1.96
GC20-0072-014	132	2.14	< 10	< 1	0.17	10	1.29	0.151	0.037	0.91	3	< 1	93	< 0.01	< 1	< 2	< 10	11	< 10	2	17		
GC20-0069-001	205	2.48	< 10	< 1	0.22	12	0.76	0.247	0.037	1.57	2	1	200	< 0.01	< 1	< 2	< 10	12	14	3	16		
F000737	14	2.26	< 10	< 1	0.21	12	0.42	0.261	0.038	0.03	< 2	2	38	0.38	4	< 2	< 10	55	< 10	16	28		
GC20-0033-008	180	2.60	< 10	< 1	0.25	13	1.15	0.117	0.041	1.81	< 2	1	72	0.05	2	< 2	< 10	14	< 10	3	19		
GC20-0032-010	174	3.01	< 10	< 1	0.20	15	1.39	0.035	0.042	1.69	2	1	18	0.04	5	< 2	< 10	15	< 10	3	16		
GC20-0029-015	173	2.58	< 10	< 1	0.15	12	0.92	0.104	0.050	1.92	2	1	34	< 0.01	2	< 2	< 10	14	< 10	3	22		
GC20-0034-018	180	2.64	< 10	< 1	0.34	14	1.13	0.274	0.043	1.86	3	1	93	0.05	6	< 2	< 10	14	< 10	4	14		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	63	947	1	20	85	113	6.50	217	< 10	790	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	21	91	121	6.89	241	< 10	747	0.9	< 2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								< 0.2	< 0.5	70	1050	4	21	94	123	6.86	247	< 10	661	0.8	2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1080	3	23	98	123	7.06	229	< 10	688	0.8	< 2	0.11	15
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Cert																							
OREAS 98 (S by LECO) Meas																							
OREAS 98 (S by LECO) Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.9				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
NBM-1 (slight fzz) Meas		42.4				8.30																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2180	726	< 1	30	52	236	2.78	4		85	0.8	6	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2240	762	< 1	33	56	251	2.89	8		87	0.8	7	0.43	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2170	775	2	34	58	248	2.84	6		79	0.7	4	0.38	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2310	782	< 1	34	57	254	2.89	6		78	0.8	7	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4240	811	< 1	27	74	306	2.74	6		67	0.7	21	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4450	860	< 1	29	78	314	2.84	6		69	0.7	18	0.42	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4250	854	3	31	78	321	2.84	6		63	0.7	12	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4420	901	< 1	32	77	331	2.95	9		64	0.7	8	0.39	24
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.5		> 10000				87	402						< 2		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.0		> 10000				88	416						< 2		49

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								64.0	263	3450	487	12	23	> 5000	> 10000	1.65	73			0.6	4	1.57	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.8	267	3540	509	12	23	> 5000	> 10000	1.74	74			0.6	4	1.62	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.5	289	3460	539	11	25	> 5000	> 10000	1.75	73			0.6	< 2	1.60	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										296	161	1	198	9	28	7.09			139	1.0	< 2	0.07	37
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										315	175	< 1	211	9	28	7.56			147	1.0	< 2	0.08	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
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GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							495																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							506																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1225013008 Orig							52																
1225013008 Dup							54																
1225013014 Orig																							
1225013014 Dup																							
1225013085 Orig								1.1	0.7	131	262	2	20	< 2	271	1.87	3	< 10	42	< 0.5	10	0.87	7
1225013085 Dup								1.1	0.8	127	260	2	19	< 2	264	1.87	3	< 10	46	< 0.5	11	0.87	7
1225013179 Orig							351																
1225013179 Dup							324																
1225013135 Orig																							
1225013135 Dup																							
1225013252 Orig							142																
1225013252 Dup							99																
1231034486 Orig								0.9	0.5	25	674	1	19	7	171	1.75	15	< 10	82	< 0.5	< 2	1.68	9
1231034486 Dup								1.0	0.5	26	671	1	19	7	172	1.75	17	< 10	81	< 0.5	< 2	1.68	10
1231034227 Orig							270																
1231034227 Dup							247																
1324005274 Orig																							
1324005274 Dup																							
1324003162 Orig								10.2	1.3	50	1840	1	14	58	347	1.04	37	< 10	26	< 0.5	< 2	2.50	10
1324003162 Dup								9.8	1.3	48	1820	< 1	14	62	335	1.02	37	< 10	25	< 0.5	< 2	2.47	10
1324003194 Orig							20																
1324003194 Dup							22																
1324003009 Orig	26.6	11.2	-15.4	31.2	0.358																		
1324003009 Dup	26.6	11.3	-15.3	31.2	0.361																		
GC20-0004-015 Orig							327																
GC20-0004-015 Dup							346																
1324003092 Orig																							
1324003092 Dup																							
1324001433 Orig								3.1	7.7	150	856	< 1	12	52	1610	2.06	38	< 10	28	< 0.5	< 2	2.12	9
1324001433 Dup								3.1	7.6	147	841	< 1	14	51	1600	2.02	36	< 10	27	< 0.5	< 2	2.11	9
1232018041 Orig								0.3	< 0.5	22	347	2	13	5	49	2.36	6	< 10	60	< 0.5	< 2	1.47	8
1232018041 Dup								0.3	< 0.5	17	341	1	13	4	48	2.33	4	< 10	60	< 0.5	< 2	1.45	8
GC20-0009-011 Orig							97																
GC20-0009-011 Dup							129																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324003033 Orig							241																
1324003033 Dup							235																
1324005194 Orig							142																
1324005193 Orig								0.6	< 0.5	116	220	2	12	5	57	1.63	15	< 10	28	< 0.5	3	0.63	9
1324005193 Dup								0.6	< 0.5	117	219	2	12	4	55	1.63	15	< 10	28	< 0.5	3	0.63	10
GC20-0018-016 Orig								0.2	1.5	20	606	< 1	11	2	333	2.52	14	< 10	54	< 0.5	< 2	1.93	9
GC20-0018-016 Dup								0.3	1.5	22	605	< 1	13	2	338	2.52	12	< 10	55	< 0.5	< 2	1.96	9
GC20-0073-014 Orig							79																
GC20-0073-014 Dup							74																
1324006089 Orig																							
1324006089 Dup																							
1324005084 Orig	16.8	8.24	-8.53	19.6	0.420																		
1324005084 Dup	16.8	8.16	-8.61	19.6	0.416																		
GC20-0071-018 Orig								0.3	< 0.5	47	415	< 1	11	< 2	63	2.50	7	< 10	32	< 0.5	< 2	0.61	9
GC20-0071-018 Dup								0.3	< 0.5	46	406	< 1	10	< 2	62	2.42	9	< 10	31	< 0.5	< 2	0.59	8
1324006238 Orig																							
1324006238 Dup																							
GC20-0072-014 Orig								0.4	< 0.5	76	261	1	9	2	63	2.34	20	< 10	35	< 0.5	< 2	0.85	9
GC20-0072-014 Dup								0.5	< 0.5	77	263	1	8	< 2	65	2.34	25	< 10	36	< 0.5	< 2	0.86	9
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
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Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	73	5.19	20	< 1	1.09	< 10	0.37	0.085	0.031	0.01	4	23	33		< 1	< 2	< 10	161	< 10	6	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.54	20	< 1	1.15	10	0.39	0.077	0.034	0.01	6	24	31		< 1	2	< 10	170	< 10	6	13		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.73	20	1	1.09	< 10	0.39	0.077	0.034	0.01	5	16	24		< 1	< 2	< 10	161	< 10	3	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	80	5.90	20	1	1.12	< 10	0.40	0.081	0.035	0.01	4	17	26		< 1	2	< 10	164	< 10	3	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
SGR-1b Meas																						27.6	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.58
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.57
SGR-1b Cert																						28	1.53
OREAS 98 (S by LECO) Meas																							16.0
OREAS 98 (S by LECO) Cert																							16.0
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.01	< 10		0.51	34	1.28	0.032	0.059	0.33	< 2	4	16			< 2	< 10	36	< 10	21	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.14	< 10		0.52	36	1.31	0.030	0.060	0.36	3	4	16			< 2	< 10	36	< 10	21	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.05	< 10		0.48	36	1.28	0.028	0.060	0.37	2	4	16			< 2	< 10	34	< 10	15	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.28	< 10		0.48	38	1.34	0.032	0.062	0.39	< 2	4	16			< 2	< 10	34	< 10	16	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.42	30	1.37		0.056	0.61	2	4	14			< 2	< 10	34	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.94	< 10		0.44	32	1.41		0.057	0.66	3	4	14			< 2	< 10	35	< 10	19	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.75	< 10		0.41	33	1.38		0.058	0.68	4	4	14			< 2	< 10	33	< 10	14	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	5.96	< 10		0.42	35	1.44		0.060	0.71	< 2	4	15			< 2	< 10	34	< 10	15	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										4.12	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.16	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.24	< 10	4	0.35	18	0.41	0.186	0.031	4.22	106	2	19			< 2	< 10	12	< 10	7	63		
Oreas 621 (Aqua	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	32	3.35	< 10	4	0.38	18	0.42	0.194	0.032	4.24	105	2	19			< 2	< 10	13	< 10	7	65		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	20	0.43	0.190	0.033	4.51	106	3	18			< 2	< 10	12	< 10	6	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	308	11.7	20	1	0.10	11	0.16	0.042	0.019	0.02		27	14	0.13		4	< 10	187		5	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	324	12.3	20	1	0.11	12	0.16	0.041	0.020	0.02		29	15	0.13		< 2	< 10	194		6	29		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225013008 Orig																							
1225013008 Dup																							
1225013014 Orig																						0.18	2.13
1225013014 Dup																						0.18	2.13
1225013085 Orig	488	2.38	< 10	< 1	0.32	13	0.86	0.149	0.039	1.39	3	< 1	61	0.01	4	< 2	< 10	11	< 10	3	16		
1225013085 Dup	471	2.34	< 10	< 1	0.31	13	0.84	0.147	0.038	1.40	4	< 1	60	0.01	3	< 2	< 10	11	< 10	3	17		
1225013179 Orig																							
1225013179 Dup																							
1225013135 Orig																						0.23	1.57
1225013135 Dup																						0.23	1.54
1225013252 Orig																							
1225013252 Dup																							
1231034486 Orig	237	2.37	< 10	2	0.54	20	0.88	0.121	0.053	0.49	5	2	59	0.12	< 1	< 2	< 10	27	< 10	3	18	0.47	0.51
1231034486 Dup	237	2.36	< 10	< 1	0.53	21	0.87	0.118	0.053	0.49	3	2	57	0.12	1	< 2	< 10	27	< 10	3	17	0.47	0.50
1231034227 Orig																							
1231034227 Dup																							
1324005274 Orig																						0.44	2.27
1324005274 Dup																						0.45	2.22
1324003162 Orig	125	2.50	< 10	< 1	0.23	14	0.78	0.059	0.046	2.40	3	< 1	58	< 0.01	7	< 2	< 10	5	< 10	2	18		
1324003162 Dup	126	2.49	< 10	< 1	0.23	14	0.79	0.058	0.044	2.36	3	< 1	57	< 0.01	5	< 2	< 10	5	< 10	2	12		
1324003194 Orig																							
1324003194 Dup																							
1324003009 Orig																							
1324003009 Dup																							
GC20-0004-015 Orig																							
GC20-0004-015 Dup																							
1324003092 Orig																						0.22	2.14
1324003092 Dup																						0.21	2.10
1324001433 Orig	140	2.46	< 10	< 1	0.22	12	1.04	0.099	0.042	2.10	3	< 1	45	0.03	< 1	< 2	< 10	8	< 10	3	16		
1324001433 Dup	135	2.41	< 10	< 1	0.21	12	1.01	0.095	0.041	2.14	3	< 1	45	0.03	2	< 2	< 10	8	< 10	2	17		
1232018041 Orig	193	1.98	< 10	< 1	0.24	17	1.09	0.176	0.042	0.26	< 2	2	51	0.06	2	< 2	< 10	21	< 10	3	12	0.18	0.27
1232018041 Dup	193	1.95	< 10	< 1	0.24	17	1.07	0.176	0.042	0.26	2	2	51	0.06	2	< 2	< 10	21	< 10	2	14	0.19	0.27
GC20-0009-011 Orig																							
GC20-0009-011 Dup																							
1324003033 Orig																							
1324003033 Dup																							
1324005194 Orig																							
1324005193 Orig	180	3.25	< 10	< 1	0.17	14	0.62	0.081	0.044	2.94	< 2	< 1	64	< 0.01	< 1	< 2	< 10	8	< 10	3	23		
1324005193 Dup	176	3.23	< 10	< 1	0.17	14	0.61	0.081	0.043	2.94	< 2	< 1	64	< 0.01	< 1	< 2	< 10	7	< 10	3	23		
GC20-0018-016 Orig	129	2.40	< 10	< 1	0.22	13	1.18	0.241	0.042	1.21	< 2	2	67	0.05	3	< 2	< 10	19	< 10	4	17		
GC20-0018-016 Dup	131	2.45	< 10	< 1	0.23	14	1.20	0.246	0.044	1.24	< 2	2	69	0.05	2	< 2	< 10	19	< 10	4	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0073-014 Orig																							
GC20-0073-014 Dup																							
1324006089 Orig																						0.33	0.89
1324006089 Dup																						0.33	0.89
1324005084 Orig																							
1324005084 Dup																							
GC20-0071-018 Orig	131	2.51	< 10	< 1	0.15	13	1.54	0.172	0.038	1.02	2	1	70	< 0.01	4	< 2	< 10	15	< 10	3	19		
GC20-0071-018 Dup	119	2.35	< 10	< 1	0.13	12	1.47	0.159	0.037	0.98	2	1	64	< 0.01	4	< 2	< 10	14	< 10	3	20		
1324006238 Orig																						0.28	1.65
1324006238 Dup																						0.28	1.68
GC20-0072-014 Orig	134	2.16	< 10	< 1	0.17	10	1.30	0.152	0.037	0.91	2	< 1	93	< 0.01	3	< 2	< 10	11	< 10	2	16		
GC20-0072-014 Dup	131	2.12	< 10	< 1	0.17	10	1.28	0.149	0.037	0.91	3	< 1	93	< 0.01	< 1	< 2	< 10	11	< 10	2	18		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10436-Revised**
Report Date:	**05-Nov-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-09-29 21:33:17
4F-C	Infrared	

REPORT **A20-10436-Revised**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F0011363, F001371, F001345, F001343, F001356, and F001347 are insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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Report No.:	**A20-10436-Revised**
Report Date:	**05-Nov-20**
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New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-15 13:34:32
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-28 22:52:07

REPORT **A20-10436-Revised**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F0011363, F001371, F001345, F001343, F001356, and F001347 are insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225013159	61.8	12.2	-49.5	69.8	0.175	8.23	134	0.5	< 0.5	72	399	3	34	< 2	190	2.22	10	< 10	23	< 0.5	10	1.03	8
1225011047	50.3	20.7	-29.6	56.7	0.365	8.23	134	0.3	0.9	69	689	2	34	< 2	354	2.15	8	< 10	27	< 0.5	5	1.11	10
F001345							974																
1225012190	1.51	12.7	11.2	35.2	0.361	8.73	236	0.5	0.7	40	562	2	18	< 2	273	2.47	14	< 10	41	< 0.5	4	1.24	7
1225012077	27.2	11.6	-15.6	33.4	0.347	8.76	128	0.6	1.3	18	859	< 1	12	13	423	2.92	18	< 10	45	< 0.5	6	1.32	6
1225012142	74.4	7.48	-66.9	83.3	0.0897	8.28	337	2.7	6.2	66	796	< 1	16	5	1590	2.24	26	< 10	30	< 0.5	6	0.92	10
1225012133	34.8	9.24	-25.5	40.1	0.230	8.58	414	1.4	2.9	39	828	2	11	7	774	2.54	20	< 10	45	< 0.5	5	1.14	7
1232014081	0.724	30.5	29.7	4.29	7.11	9.53	11	< 0.2	< 0.5	24	368	2	26	< 2	90	2.06	< 2	< 10	106	< 0.5	< 2	1.54	10
1225012209	61.8	13.9	-47.8	70.1	0.199	8.22	1610	4.7	< 0.5	469	435	< 1	15	7	105	2.23	28	< 10	26	< 0.5	33	0.85	9
1225020216	54.8	15.0	-39.8	60.6	0.247	8.46	146	1.2	< 0.5	38	352	1	19	< 2	130	2.18	17	< 10	27	< 0.5	7	1.00	10
1225020310	48.0	12.2	-35.8	53.3	0.229	8.49	248	1.8	< 0.5	42	330	2	18	< 2	138	2.04	22	< 10	27	< 0.5	10	0.75	8
1232014066	13.8	16.7	2.97	13.5	1.24	9.08	17	< 0.2	< 0.5	37	475	1	52	< 2	88	2.43	4	< 10	88	< 0.5	4	1.24	12
1225020255	38.1	12.8	-25.3	42.3	0.304	8.72	88	0.5	< 0.5	50	309	< 1	15	< 2	129	2.25	13	< 10	33	< 0.5	7	0.78	8
1225020316	20.8	23.3	2.43	24.8	0.938	8.96	129	0.4	< 0.5	64	315	2	15	< 2	84	2.14	9	< 10	60	< 0.5	7	1.27	9
1232014142	7.91	28.1	20.2	11.6	2.41	9.33	11	< 0.2	0.8	26	638	2	39	< 2	291	2.29	6	< 10	94	< 0.5	3	1.69	9
1225020271	61.8	14.3	-47.5	68.3	0.209	8.48	152	1.9	< 0.5	10	557	1	20	2	183	2.22	17	< 10	24	< 0.5	7	0.78	9
1232014101	3.75	8.10	4.35	3.67	2.20	8.99	9	< 0.2	< 0.5	106	425	1	51	< 2	50	5.34	< 2	< 10	20	< 0.5	< 2	3.73	23
1225012103	45.1	18.6	-26.5	52.1	0.357	8.40	135	1.1	< 0.5	364	390	2	21	2	109	1.90	9	< 10	31	< 0.5	< 2	1.11	7
1225012015	40.2	11.1	-29.1	45.0	0.246	8.81	52	0.5	< 0.5	14	349	< 1	17	4	77	2.18	47	< 10	39	< 0.5	9	1.09	7
1225012066	26.8	16.4	-10.4	32.2	0.509	8.58	402	1.7	0.5	543	506	2	20	6	150	1.94	9	< 10	50	< 0.5	2	1.12	7
1225012199	57.5	4.74	-52.7	63.7	0.0744	8.20	522	1.7	2.5	116	569	1	17	2	737	1.98	16	< 10	29	< 0.5	6	0.40	9
1225012091	76.2	32.8	-43.4	89.1	0.368	8.27	320	1.0	3.7	154	1670	1	52	8	1520	3.78	24	< 10	26	< 0.5	4	2.08	29
1225012024	62.2	8.49	-53.7	77.2	0.110	8.36	257	2.2	28.1	143	1030	1	19	21	6560	2.48	41	< 10	22	< 0.5	8	0.56	14
1225012007	26.7	24.4	-2.21	32.2	0.760	8.77	89	0.7	< 0.5	201	502	2	19	9	104	1.68	7	< 10	45	< 0.5	< 2	1.16	6
F001343							1900																
1225021121	28.5	12.6	-15.9	32.8	0.385	8.54	164	0.8	< 0.5	204	359	5	17	< 2	71	2.97	7	< 10	45	< 0.5	6	1.14	6
1225020001	35.3	5.23	-30.1	39.2	0.133	8.58	94	0.5	< 0.5	56	490	< 1	16	< 2	217	2.22	13	< 10	39	< 0.5	7	0.37	7
1225020090	30.1	31.3	1.25	34.9	0.898	8.71	79	0.6	2.1	26	683	1	22	3	632	1.97	15	< 10	44	< 0.5	4	1.53	8
1225020142	88.1	13.2	-74.9	98.0	0.135	8.16	172	1.3	2.8	63	809	2	31	6	717	2.48	42	< 10	18	< 0.5	3	0.84	20
1225020086	74.8	11.6	-63.2	82.7	0.140	8.32	241	0.8	1.0	78	862	1	33	2	243	2.78	34	< 10	18	< 0.5	3	1.02	20
1225020042	46.1	33.7	-12.5	53.0	0.635	8.67	128	1.5	1.2	35	611	< 1	32	6	347	2.25	18	< 10	29	< 0.5	3	1.77	15
1225020063	35.8	41.4	5.61	42.6	0.973	8.70	140	0.8	1.6	31	748	1	42	3	458	2.41	17	< 10	40	< 0.5	< 2	2.17	12
1232014149	7.19	13.7	6.55	7.04	1.95	9.00	11	0.2	< 0.5	70	452	1	35	5	95	3.97	< 2	< 10	61	< 0.5	< 2	2.58	16
1225020053	45.4	9.62	-35.8	50.5	0.190	8.59	124	0.3	< 0.5	44	546	1	19	3	140	2.51	12	< 10	34	< 0.5	3	0.64	13
1225020151	29.3	16.1	-13.1	35.8	0.450	8.36	557	2.0	2.1	90	517	2	21	7	574	2.84	22	< 10	23	< 0.5	4	1.43	12
1225021184	32.2	7.49	-24.7	35.5	0.211	8.60	60	0.5	< 0.5	68	277	2	14	3	72	3.25	8	< 10	40	< 0.5	6	1.30	8
1225020123	54.8	16.1	-38.7	60.0	0.268	8.41	1580	0.8	2.2	91	606	2	24	6	472	3.00	16	< 10	32	< 0.5	4	1.57	11
1225020070	63.8	19.6	-44.2	71.7	0.274	8.25	440	1.4	1.0	88	764	2	31	10	333	2.66	26	< 10	26	< 0.5	3	1.30	14
1232014055	12.6	15.5	2.87	15.9	0.971	9.17	22	0.3	< 0.5	17	570	2	25	5	133	2.52	6	< 10	78	< 0.5	< 2	1.56	10
1225020168	71.2	9.72	-61.5	78.7	0.124	8.23	155	1.5	1.4	44	502	1	22	5	349	2.90	23	< 10	24	< 0.5	6	1.03	14
1225020223	55.0	14.3	-40.7	60.9	0.235	8.50	120	2.1	< 0.5	23	474	3	20	7	113	2.00	13	< 10	24	< 0.5	3	0.86	10
1232014098	8.44	10.7	2.29	8.27	1.30	9.14	6	< 0.2	2.6	50	535	2	27	5	568	2.87	< 2	< 10	71	< 0.5	< 2	1.69	11
1225020172	40.8	12.5	-28.3	45.9	0.272	8.66	64	0.8	2.1	26	594	2	21	5	459	3.02	15	< 10	34	< 0.5	4	1.32	10
1232014065	25.1	19.8	-5.29	29.1	0.681	8.92	34	0.3	< 0.5	45	624	2	56	5	89	2.76	6	< 10	53	< 0.5	< 2	2.05	16
1225020198	55.6	7.09	-48.5	60.6	0.117	8.40	182	2.7	0.6	12	532	1	18	5	178	3.04	19	< 10	31	< 0.5	3	0.84	11
1225020197	58.3	14.2	-44.1	64.0	0.222	8.52	210	4.0	< 0.5	13	495	1	20	5	150	2.24	20	< 10	28	< 0.5	4	0.89	13
F001350							702	4.5	< 0.5	27	237	< 1	8	11	38	1.31	< 2	< 10	45	< 0.5	< 2	0.72	9
1225021239	28.7	16.7	-12.0	36.1	0.463	8.84	64	0.3	< 0.5	36	258	1	15	3	55	3.35	6	< 10	53	< 0.5	4	1.42	11
1232015129	6.97	29.2	22.2	10.7	2.72	9.47	8	0.2	< 0.5	26	522	3	26	7	102	1.48	4	< 10	74	< 0.5	< 2	1.29	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232015266	12.6	22.7	10.1	15.9	1.43	9.44	6	< 0.2	0.8	22	699	2	109	5	243	2.48	4	< 10	116	< 0.5	< 2	1.57	17
1232015043	22.5	11.6	-10.9	29.4	0.394	8.67	47	1.0	< 0.5	29	552	2	33	15	74	1.76	25	< 10	55	< 0.5	< 2	1.13	11
1225021141	37.7	4.49	-33.2	45.3	0.0990	8.65	490	2.9	< 0.5	970	450	11	18	4	67	3.13	8	< 10	43	< 0.5	10	0.88	7
1232015161	6.04	30.3	24.3	10.1	3.00	8.28	8	< 0.2	< 0.5	67	367	4	29	5	81	1.61	5	< 10	79	< 0.5	< 2	1.41	10
1225021039	33.3	11.8	-21.5	38.0	0.311	9.34	72	0.8	< 0.5	155	294	6	27	7	41	2.25	4	< 10	39	< 0.5	4	1.07	8
1225021281	38.2	10.7	-27.5	42.6	0.253	8.54	106	0.5	< 0.5	84	506	2	20	3	102	2.75	10	< 10	40	< 0.5	3	0.82	10
1225021212	33.8	6.23	-27.6	38.3	0.163	8.71	145	0.7	< 0.5	138	438	9	21	3	173	3.62	9	< 10	46	< 0.5	4	1.53	9
1232015142	6.77	25.7	19.0	9.80	2.63	8.47	11	0.3	1.2	22	435	2	25	6	278	1.70	6	< 10	82	< 0.5	< 2	1.24	11
1225021119	15.0	12.0	-2.99	22.0	0.544	8.65	293	1.0	< 0.5	304	370	3	13	3	44	3.44	4	< 10	57	< 0.5	7	1.24	6
1232015196	6.34	47.7	41.4	12.3	3.90	9.38	13	0.3	0.9	30	608	2	34	6	202	1.73	7	< 10	91	< 0.5	< 2	1.83	10
1225020009	48.6	17.3	-31.3	57.0	0.304	8.74	61	0.3	0.7	16	498	1	59	7	155	1.99	12	< 10	30	< 0.5	< 2	1.08	42
1225021079	48.5	8.59	-39.9	54.8	0.157	9.36	84	0.7	< 0.5	79	332	4	16	< 2	84	3.91	8	< 10	33	< 0.5	5	1.63	7
1232015200	5.31	34.9	29.5	8.27	4.21	9.40	7	0.2	< 0.5	15	464	3	27	5	148	1.44	5	< 10	77	< 0.5	< 2	1.51	8
1232015109	8.74	34.3	25.5	12.9	2.66	8.52	6	0.2	< 0.5	17	574	2	29	3	105	1.38	4	< 10	90	< 0.5	< 2	1.50	10
1232015145	0.000	28.6	28.6	0.919	31.1	9.49	27	0.3	0.7	12	478	2	23	< 2	173	1.58	5	< 10	94	< 0.5	< 2	1.42	10
1232015071	1.03	23.2	22.2	5.82	3.99	9.46	5	0.3	< 0.5	33	474	3	31	3	105	1.59	4	< 10	125	< 0.5	< 2	1.16	12
1232015236	8.43	36.1	27.7	12.3	2.95	9.35	15	0.3	< 0.5	26	633	3	45	< 2	111	1.72	5	< 10	89	< 0.5	< 2	1.59	13
1225021091	30.6	7.11	-23.5	38.0	0.187	8.32	558	0.6	< 0.5	240	339	7	26	4	50	2.75	6	< 10	49	< 0.5	5	0.98	8
1225021054	46.6	6.99	-39.6	52.7	0.133	8.11	1720	2.1	< 0.5	468	263	3	21	5	29	2.96	5	< 10	39	< 0.5	13	1.10	7
D000068	9.68	18.5	8.79	13.8	1.34	8.90	114	0.3	< 0.5	26	366	3	23	4	101	4.25	3	< 10	50	< 0.5	3	2.32	9
1225021209	46.8	8.24	-38.5	57.3	0.144	8.20	443	1.4	< 0.5	294	337	7	20	7	78	2.85	13	< 10	39	< 0.5	11	1.08	9
F001356							1860																
1225016001	38.4	6.87	-31.5	49.9	0.138	8.17	301	0.7	< 0.5	347	292	3	24	3	30	2.97	6	< 10	47	< 0.5	4	1.17	9
1225028046	48.4	14.1	-34.3	60.3	0.234	8.30	75	1.1	0.5	14	620	2	25	36	144	2.60	31	< 10	30	< 0.5	3	1.21	10
1225016040	50.4	12.7	-37.7	59.1	0.216	8.17	27	1.0	0.7	115	364	6	27	3	186	3.65	8	< 10	40	< 0.5	5	1.88	10
1225016037	38.5	8.24	-30.3	46.5	0.177	8.52	314	1.4	< 0.5	241	538	6	20	< 2	120	2.77	11	< 10	51	< 0.5	11	0.95	8
1225028107	56.4	11.7	-44.7	63.1	0.186	8.27	99	0.5	1.2	10	573	2	21	16	350	2.05	24	< 10	31	< 0.5	3	0.96	10
1225016300	43.8	12.1	-31.8	48.1	0.251	8.66	44	0.3	< 0.5	34	235	3	25	4	76	2.71	8	< 10	46	< 0.5	3	1.14	9
1225018160	73.7	9.83	-63.9	79.3	0.124	8.36	299	0.7	< 0.5	165	355	4	22	6	47	1.71	21	< 10	30	< 0.5	8	0.65	10
1225025001	59.2	39.7	-19.4	65.5	0.606	8.65	63	0.9	0.5	23	639	2	73	20	139	1.87	8	< 10	35	< 0.5	3	1.78	13
1225018013	41.6	18.6	-22.9	46.5	0.400	8.93	35	0.7	0.6	59	478	4	29	6	187	1.17	12	< 10	44	< 0.5	< 2	0.93	10
1225025020	50.5	5.12	-45.4	54.8	0.0934	8.61	66	1.2	0.7	19	383	2	22	4	266	1.48	8	< 10	32	< 0.5	4	0.46	9
1225018008	16.2	19.7	3.43	19.0	1.04	9.41	18	< 0.2	< 0.5	23	554	3	30	8	102	1.71	7	< 10	65	< 0.5	< 2	0.88	10
1225016343	32.2	12.6	-19.6	35.5	0.354	9.03	224	0.3	0.7	38	417	2	21	8	192	2.26	12	< 10	61	< 0.5	< 2	0.98	9
1225015044	23.2	15.9	-7.28	28.2	0.566	8.78	12	0.7	< 0.5	95	504	3	23	14	96	2.17	35	20	42	< 0.5	< 2	1.21	13
1225018108	30.0	15.2	-14.8	33.7	0.452	8.72	266	0.4	< 0.5	82	670	3	20	9	101	2.85	7	< 10	57	< 0.5	2	1.68	10
1225015095	9.58	30.6	21.1	12.6	2.44	9.13	93	0.6	< 0.5	26	630	< 1	33	12	79	2.72	19	12	48	< 0.5	3	1.87	10
1225018065	40.5	9.48	-31.0	45.0	0.211	8.80	634	0.8	< 0.5	202	487	3	26	6	63	2.78	7	< 10	57	< 0.5	3	1.42	11
1225024032	57.4	10.5	-46.9	63.4	0.165	8.54	26	0.5	1.2	77	387	6	22	< 2	274	3.06	8	< 10	37	< 0.5	4	1.51	9
1225016351	44.1	7.62	-36.4	49.3	0.155	8.54	307	0.5	1.4	144	472	3	23	3	420	2.28	29	< 10	34	< 0.5	2	0.69	9
1225018075	29.3	11.8	-17.4	34.6	0.342	8.71	746	2.0	0.8	608	646	3	22	12	126	2.97	8	< 10	51	< 0.5	6	1.73	10
1232016076	13.5	29.0	15.5	17.8	1.63	8.78	34	1.1	< 0.5	30	410	2	28	11	91	1.58	24	< 10	57	< 0.5	< 2	1.53	10
1225018012	32.9	23.7	-9.22	42.3	0.560	8.96	34	0.5	1.0	57	567	4	31	5	292	1.33	14	< 10	36	< 0.5	< 2	1.09	10
1225018091	44.9	9.87	-35.0	52.1	0.190	8.36	827	2.7	0.8	460	604	3	23	6	142	3.18	8	< 10	35	< 0.5	11	1.59	9
F001347							963																
1225010053	45.2	20.8	-24.4	50.2	0.415	8.53	99	0.4	1.8	14	736	2	24	8	416	1.85	48	< 10	38	< 0.5	3	1.22	11
1225010061	12.0	68.9	56.9	15.9	4.33	9.36	144	0.5	2.2	33	803	< 1	35	49	389	1.92	25	< 10	55	< 0.5	4	2.64	10
1225010081	105	2.99	-102	114	0.0263	7.93	106	0.6	7.7	20	119	2	25	8	1940	0.87	114	< 10	14	< 0.5	< 2	0.19	13
1225013286	55.6	9.97	-45.6	62.8	0.159	8.52	520	0.8	2.9	103	489	2	21	3	774	2.95	16	< 10	30	< 0.5	6	1.42	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225013258	11.9	18.5	6.61	11.6	1.59	9.00	11	0.3	< 0.5	198	518	1	50	< 2	51	5.14	< 2	< 10	36	< 0.5	2	3.24	22
1225021049	74.2	7.62	-66.5	79.0	0.0965	8.41	1200	0.8	< 0.5	456	224	3	26	3	27	2.93	8	< 10	31	< 0.5	9	1.27	7
1232015202	0.509	39.4	38.9	7.96	4.94	8.40	24	0.4	0.5	21	653	2	26	4	143	1.64	7	< 10	86	< 0.5	< 2	1.69	9
1232015048	0.000	22.6	22.6	4.90	4.61	8.54	10	0.3	< 0.5	25	465	3	39	5	77	1.68	4	< 10	87	< 0.5	< 2	1.42	11
1232015258	2.50	21.7	19.2	2.45	8.87	8.11	< 5	< 0.2	< 0.5	29	414	2	27	< 2	61	2.72	2	< 10	96	< 0.5	< 2	1.76	11
1232015016	29.4	7.97	-21.4	34.6	0.230	9.00	50	0.6	< 0.5	19	543	2	25	22	121	2.11	27	< 10	60	< 0.5	3	0.57	10
1225021008	64.9	11.5	-53.4	72.0	0.159	8.66	682	0.8	< 0.5	259	217	2	22	3	28	2.93	6	< 10	36	< 0.5	14	1.35	9
1225021250	42.6	10.2	-32.4	46.9	0.218	8.34	244	0.5	< 0.5	128	362	4	23	4	42	3.59	19	< 10	43	< 0.5	4	1.27	12
1433002168	19.1	22.5	3.49	26.3	0.856	8.12	211	0.6	< 0.5	79	823	2	42	10	190	3.24	11	< 10	57	< 0.5	5	1.83	26
1225021017	55.4	7.97	-47.4	60.0	0.133	8.94	516	0.6	< 0.5	168	241	3	22	2	24	3.29	4	< 10	32	< 0.5	6	1.44	7
1225013469	0.721	9.62	8.90	5.82	1.65	8.32	80	< 0.2	< 0.5	115	459	1	56	3	47	5.58	< 2	< 10	16	< 0.5	< 2	3.51	23
1225013339	61.4	5.37	-56.1	67.7	0.0794	8.40	152	1.0	2.2	89	406	2	19	6	610	2.39	15	< 10	23	< 0.5	6	0.79	9
1232015051	7.19	14.0	6.77	7.04	1.98	8.55	11	< 0.2	< 0.5	38	411	3	49	3	53	1.58	3	< 10	57	< 0.5	< 2	1.20	14
1225013484	68.8	13.0	-55.9	75.6	0.172	8.41	143	0.6	< 0.5	109	286	5	25	5	59	1.73	11	< 10	34	< 0.5	5	0.83	11
1225013468	3.13	9.60	6.47	3.06	3.13	8.85	7	< 0.2	< 0.5	114	512	2	64	< 2	64	5.08	< 2	< 10	14	< 0.5	2	3.25	26
1225010110	49.4	19.2	-30.1	55.4	0.347	8.67	114	2.4	4.2	63	408	2	24	13	1040	1.90	51	< 10	42	< 0.5	3	1.34	11
1225013270	76.1	10.5	-65.7	81.8	0.128	8.06	191	0.5	0.8	59	419	2	27	6	253	2.85	12	< 10	27	< 0.5	6	1.12	12
1225010016	56.1	8.97	-47.2	64.0	0.140	8.64	270	0.8	6.5	43	345	3	29	21	1610	1.14	72	< 10	28	< 0.5	< 2	0.36	13
1232015195	2.29	22.1	19.8	5.82	3.80	9.60	10	0.7	1.1	29	451	2	28	11	211	1.32	4	< 10	64	< 0.5	< 2	1.24	9
F001363							1050																
1225018004	1.32	28.7	27.3	21.4	1.34	9.17	58	0.4	< 0.5	75	522	3	29	4	128	1.61	9	< 10	54	< 0.5	2	1.22	9
1225025051	110	33.3	-76.8	124	0.269	8.40	247	2.4	1.0	87	603	2	54	8	281	1.98	31	< 10	22	< 0.5	11	1.29	23
1225018138	40.2	10.5	-29.7	47.8	0.220	8.56	581	0.7	< 0.5	68	808	2	21	7	125	3.33	10	10	44	< 0.5	5	1.49	8
1225025095	61.6	11.7	-49.8	68.0	0.173	8.48	165	1.6	4.7	56	639	2	26	5	1120	2.71	21	< 10	23	< 0.5	2	1.21	13
1225025061	65.3	5.85	-59.5	69.8	0.0838	8.34	271	3.9	0.5	15	562	3	35	7	208	2.10	18	< 10	29	< 0.5	3	0.51	15
1232016250	31.5	29.5	-2.09	40.1	0.734	8.73	58	2.8	< 0.5	43	2590	2	169	21	136	2.71	44	< 10	67	< 0.5	2	1.26	31
1225024044	70.6	11.2	-59.4	77.8	0.144	8.35	657	2.9	< 0.5	440	559	2	34	9	70	2.55	17	< 10	29	< 0.5	5	0.92	16
1225024145	19.6	27.7	8.15	23.3	1.19	9.19	201	0.3	0.6	48	669	2	23	5	144	2.52	9	< 10	86	< 0.5	2	1.72	9
1225024090	62.4	12.0	-50.4	68.3	0.175	8.46	79	1.0	0.8	195	340	2	22	3	190	2.93	16	< 10	39	< 0.5	7	0.93	10
1232016290	15.3	8.48	-6.83	15.0	0.565	9.73	43	1.3	< 0.5	48	497	2	39	14	79	1.81	17	< 10	61	< 0.5	< 2	1.06	15
1232016105	1.97	18.1	16.1	11.0	1.64	9.28	35	1.7	< 0.5	15	544	2	22	25	81	2.98	18	< 10	64	< 0.5	3	1.83	6
1225024031	55.7	11.1	-44.6	61.3	0.181	8.56	34	0.4	< 0.5	62	367	6	26	2	126	3.23	7	< 10	39	< 0.5	3	1.53	10
1225015006	30.4	24.2	-6.26	34.3	0.704	9.09	10	0.7	< 0.5	26	533	2	23	11	59	2.94	41	< 10	50	< 0.5	3	1.84	9
1225025071	80.5	11.7	-68.8	87.9	0.133	8.30	158	1.3	4.1	86	695	3	35	6	1090	2.42	25	< 10	27	< 0.5	3	1.12	14
1232016119	13.1	10.4	-2.76	12.9	0.805	8.79	20	1.1	< 0.5	34	373	2	32	7	87	1.43	29	< 10	73	< 0.5	< 2	1.05	13
1225024019	53.9	17.8	-36.1	59.7	0.298	8.67	176	0.9	< 0.5	176	484	2	23	5	109	2.37	11	< 10	27	< 0.5	4	1.03	9
1225024040	52.5	15.3	-37.2	57.0	0.269	8.65	348	1.8	1.1	246	594	4	23	10	202	2.31	17	< 10	27	< 0.5	7	1.35	11
1225024168	48.5	30.9	-17.6	53.3	0.580	8.77	326	0.9	0.6	160	627	2	53	< 2	127	2.26	11	< 10	46	< 0.5	< 2	1.51	14
1232016127	17.2	12.0	-5.22	16.8	0.710	9.21	10	1.0	< 0.5	17	454	3	28	9	41	2.56	20	< 10	61	< 0.5	5	1.29	11
1232016162	28.7	33.8	5.08	33.7	1.00	9.08	154	19.3	1.2	33	862	2	46	110	313	1.87	55	< 10	69	< 0.5	< 2	1.86	13
1232016037	23.3	24.9	1.60	27.6	0.904	9.22	78	3.2	< 0.5	16	687	1	23	22	73	2.40	26	< 10	57	< 0.5	< 2	2.19	11
1225024038	35.4	22.4	-13.0	41.0	0.547	8.89	332	3.6	2.6	120	476	2	42	3	576	2.15	13	< 10	37	< 0.5	14	1.38	12
F001371							703	4.5	< 0.5	29	253	< 1	8	12	39	1.45	< 2	< 10	47	< 0.5	< 2	0.79	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225013159	672	3.31	< 10	< 1	0.27	16	1.11	0.162	0.041	2.24	3	1	62	0.01	3	< 2	< 10	15	< 10	2	18	0.33	2.28
1225011047	486	3.57	< 10	< 1	0.19	20	0.98	0.167	0.046	1.81	3	2	51	< 0.01	2	< 2	< 10	22	< 10	4	16	0.35	1.85
F001345																							
1225012190	316	2.31	< 10	< 1	0.22	15	1.17	0.164	0.039	1.13	< 2	1	60	0.04	< 1	< 2	< 10	14	< 10	2	14	0.29	1.15
1225012077	224	2.32	< 10	< 1	0.32	17	1.44	0.116	0.042	1.10	< 2	< 1	55	0.05	< 1	< 2	< 10	12	< 10	2	13	0.15	1.09
1225012142	146	3.54	< 10	< 1	0.32	15	1.37	0.062	0.042	2.65	3	2	27	0.06	5	< 2	< 10	19	< 10	3	19	0.24	2.72
1225012133	207	2.40	< 10	< 1	0.38	16	1.37	0.066	0.042	1.26	< 2	1	32	0.05	2	2	< 10	12	< 10	2	14	0.19	1.31
1232014081	297	2.52	< 10	< 1	0.40	21	0.99	0.142	0.050	0.14	< 2	3	84	0.11	< 1	< 2	< 10	34	< 10	3	11	0.43	0.14
1225012209	216	3.56	< 10	< 1	0.28	15	1.43	0.054	0.037	2.31	2	< 1	27	< 0.01	2	< 2	< 10	10	< 10	2	20	0.25	2.29
1225020216	228	2.83	< 10	< 1	0.29	16	1.11	0.135	0.056	2.00	< 2	2	61	0.02	3	< 2	< 10	21	< 10	3	10	0.26	1.98
1225020310	251	2.59	< 10	< 1	0.41	13	1.28	0.051	0.035	1.74	< 2	1	23	0.03	1	3	< 10	12	< 10	2	16	0.28	1.74
1232014066	246	2.90	< 10	< 1	0.39	19	1.40	0.114	0.051	0.42	< 2	4	40	0.11	1	< 2	< 10	40	< 10	4	8	0.27	0.44
1225020255	183	2.38	< 10	< 1	0.27	11	1.10	0.073	0.037	1.36	< 2	< 1	47	< 0.01	< 1	2	< 10	12	< 10	2	9	0.31	1.38
1225020316	202	2.36	< 10	< 1	0.37	13	1.31	0.043	0.038	0.79	< 2	2	39	0.05	1	< 2	< 10	17	< 10	3	13	0.39	0.81
1232014142	335	2.28	< 10	< 1	0.42	21	1.15	0.170	0.050	0.37	< 2	3	77	0.09	< 1	< 2	< 10	31	< 10	4	5	0.41	0.38
1225020271	281	3.19	< 10	< 1	0.24	11	1.54	0.132	0.035	2.23	2	1	38	< 0.01	2	< 2	< 10	14	< 10	2	18	0.22	2.23
1232014101	329	4.21	< 10	< 1	0.09	< 10	1.61	0.616	0.019	0.11	< 2	5	65	0.21	4	< 2	< 10	119	< 10	4	4	0.20	0.12
1225012103	323	2.61	< 10	< 1	0.26	12	0.91	0.112	0.034	1.66	< 2	1	54	< 0.01	1	< 2	< 10	14	< 10	1	15	0.31	1.70
1225012015	247	2.17	< 10	< 1	0.29	14	1.07	0.170	0.037	1.47	< 2	1	65	0.02	< 1	< 2	< 10	13	< 10	2	14	0.20	1.47
1225012066	334	2.22	< 10	< 1	0.24	13	0.79	0.150	0.034	1.07	< 2	1	54	0.01	< 1	3	< 10	14	< 10	2	13	0.28	1.05
1225012199	231	2.76	< 10	< 1	0.28	14	1.14	0.070	0.037	2.04	2	1	30	0.02	1	< 2	< 10	13	< 10	3	19	0.18	2.08
1225012091	187	6.65	< 10	< 1	0.26	< 10	2.17	0.085	0.067	2.77	< 2	8	51	0.28	9	< 2	< 10	142	< 10	11	10	0.46	2.91
1225012024	231	3.82	< 10	< 1	0.28	15	1.95	0.051	0.040	2.51	< 2	2	21	0.02	1	3	< 10	19	< 10	3	17	0.18	2.52
1225012007	314	2.38	< 10	< 1	0.28	12	0.97	0.078	0.035	1.03	< 2	2	31	0.03	3	< 2	< 10	18	< 10	1	10	0.36	1.05
F001343																							
1225021121	235	2.75	< 10	< 1	0.29	11	1.18	0.158	0.032	1.10	< 2	1	118	< 0.01	6	< 2	< 10	14	< 10	2	13	0.23	1.07
1225020001	188	2.83	< 10	< 1	0.28	14	1.47	0.083	0.040	1.23	< 2	1	27	0.01	< 1	< 2	< 10	15	< 10	3	12	0.08	1.28
1225020090	342	2.32	< 10	< 1	0.36	12	0.99	0.103	0.038	1.12	< 2	1	38	0.04	1	< 2	< 10	16	< 10	3	13	0.46	1.14
1225020142	282	4.81	< 10	< 1	0.26	19	1.41	0.106	0.057	3.13	2	3	39	0.04	3	< 2	< 10	39	< 10	5	19	0.22	3.20
1225020086	257	4.63	< 10	< 1	0.35	12	1.47	0.144	0.052	2.66	2	4	47	0.14	1	< 2	< 10	54	< 10	6	19	0.23	2.70
1225020042	210	2.67	< 10	< 1	0.43	13	1.07	0.174	0.049	1.69	< 2	2	58	0.05	< 1	3	< 10	26	< 10	4	14	0.46	1.73
1225020063	280	2.78	< 10	< 1	0.45	17	1.38	0.137	0.063	1.38	< 2	3	58	0.08	1	< 2	< 10	30	< 10	4	7	0.56	1.39
1232014149	276	3.11	< 10	2	0.22	< 10	1.11	0.372	0.035	0.23	< 2	3	57	0.15	< 1	< 2	< 10	69	< 10	3	8	0.25	0.23
1225020053	211	3.20	< 10	< 1	0.21	12	1.45	0.125	0.043	1.64	2	1	52	< 0.01	2	< 2	< 10	19	< 10	3	15	0.12	1.65
1225020151	267	3.08	< 10	< 1	0.29	20	1.04	0.254	0.050	2.16	< 2	1	118	0.02	3	< 2	< 10	16	< 10	3	13	0.25	1.17
1225021184	199	2.22	< 10	< 1	0.27	12	1.05	0.209	0.035	1.14	< 2	< 1	159	< 0.01	< 1	< 2	< 10	11	< 10	2	12	0.18	1.16
1225020123	386	3.02	< 10	< 1	0.21	12	1.07	0.307	0.039	1.98	< 2	1	128	0.02	< 1	< 2	< 10	16	< 10	3	17	0.31	1.96
1225020070	302	4.04	< 10	2	0.28	14	1.26	0.145	0.046	2.31	3	3	56	0.07	< 1	< 2	< 10	36	< 10	4	19	0.33	2.34
1232014055	319	2.18	< 10	< 1	0.44	15	0.88	0.216	0.041	0.48	< 2	2	95	0.09	< 1	< 2	< 10	26	< 10	3	11	0.25	0.52
1225020168	251	3.24	< 10	< 1	0.29	12	0.90	0.208	0.039	2.52	2	1	82	< 0.01	4	< 2	< 10	13	< 10	2	20	0.19	2.57
1225020223	321	2.62	< 10	< 1	0.30	13	1.01	0.126	0.041	2.05	< 2	1	43	< 0.01	3	< 2	< 10	13	< 10	2	13	0.44	1.99
1232014098	315	2.62	< 10	< 1	0.30	22	1.12	0.212	0.053	0.26	< 2	3	86	0.13	2	< 2	< 10	37	< 10	4	7	0.21	0.27
1225020172	306	2.70	< 10	< 1	0.22	13	1.08	0.292	0.037	1.50	3	1	117	< 0.01	2	< 2	< 10	16	< 10	2	13	0.25	1.50
1232014065	298	3.10	< 10	1	0.29	30	1.34	0.162	0.068	0.94	< 2	3	81	0.13	< 1	< 2	< 10	41	< 10	4	7	0.29	0.95
1225020198	206	2.98	< 10	< 1	0.26	13	1.17	0.206	0.040	1.98	2	1	76	< 0.01	2	< 2	< 10	17	< 10	2	13	0.22	1.98
1225020197	255	2.94	< 10	< 1	0.25	11	1.02	0.120	0.043	2.16	2	1	48	< 0.01	5	< 2	< 10	14	< 10	2	15	0.25	2.09
F001350	11	2.01	< 10	< 1	0.24	12	0.41	0.240	0.037	0.03	< 2	2	32	0.33	3	< 2	< 10	48	< 10	15	25		
1225021239	153	2.32	< 10	< 1	0.28	18	1.29	0.220	0.067	1.20	< 2	2	183	< 0.01	< 1	< 2	< 10	17	< 10	3	7	0.22	1.18
1232015129	512	2.22	< 10	< 1	0.38	15	0.69	0.102	0.043	0.35	2	2	32	0.10	2	< 2	< 10	23	< 10	3	16	0.38	0.35
1232015266	396	2.96	< 10	< 1	0.66	33	1.87	0.170	0.082	0.50	< 2	4	70	0.13	< 1	< 2	< 10	53	< 10	5	12	0.31	0.52
1232015043	410	2.42	< 10	< 1	0.34	17	0.58	0.142	0.053	0.97	< 2	3	71	0.09	2	< 2	< 10	30	< 10	4	11	0.21	0.96

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225021141	254	3.99	< 10	2	0.27	12	0.98	0.139	0.037	1.40	3	1	127	0.02	< 1	< 2	< 10	16	< 10	3	18	0.16	1.48
1232015161	451	2.25	< 10	< 1	0.34	15	0.86	0.102	0.044	0.33	2	2	45	0.08	2	< 2	< 10	24	< 10	3	13	0.45	0.33
1225021039	570	2.27	< 10	< 1	0.12	15	0.89	0.233	0.036	1.26	3	1	142	< 0.01	< 1	< 2	< 10	15	< 10	2	12	0.36	1.24
1225021281	291	2.97	< 10	1	0.21	14	1.51	0.163	0.041	1.26	< 2	1	59	< 0.01	< 1	< 2	< 10	15	< 10	3	10	0.30	1.39
1225021212	359	2.66	< 10	< 1	0.19	13	0.91	0.214	0.038	1.25	2	1	174	0.02	< 1	2	< 10	15	< 10	2	14	0.24	1.25
1232015142	404	2.17	< 10	< 1	0.36	15	0.69	0.120	0.041	0.32	< 2	2	62	0.10	2	< 2	< 10	25	< 10	3	14	0.32	0.32
1225021119	160	3.02	< 10	2	0.27	11	1.18	0.182	0.032	0.82	2	1	158	< 0.01	< 1	< 2	< 10	13	< 10	2	13	0.21	0.72
1232015196	327	2.31	< 10	< 1	0.43	18	0.95	0.097	0.046	0.39	< 2	2	39	0.09	1	< 2	< 10	27	< 10	3	15	0.60	0.40
1225020009	211	2.66	< 10	< 1	0.41	< 10	0.83	0.117	0.062	1.85	4	5	37	0.03	< 1	< 2	< 10	61	< 10	5	11	0.26	1.86
1225021079	205	2.86	< 10	2	0.19	11	1.24	0.260	0.037	1.73	< 2	1	162	< 0.01	< 1	< 2	< 10	14	< 10	2	15	0.18	1.79
1232015200	500	2.13	< 10	< 1	0.29	13	0.66	0.090	0.040	0.27	2	2	28	0.07	< 1	< 2	< 10	21	< 10	2	14	0.47	0.27
1232015109	487	2.28	< 10	< 1	0.43	18	0.71	0.104	0.049	0.43	2	2	30	0.09	2	< 2	< 10	28	< 10	3	19	0.47	0.42
1232015145	375	2.21	< 10	< 1	0.38	14	0.78	0.118	0.042	0.26	4	2	40	0.11	< 1	< 2	< 10	28	< 10	3	19	0.25	0.03
1232015071	544	2.43	< 10	< 1	0.50	19	0.69	0.128	0.051	0.19	2	2	69	0.14	1	< 2	< 10	34	< 10	3	19	0.35	0.19
1232015236	393	2.48	< 10	< 1	0.39	17	1.16	0.108	0.049	0.40	< 2	3	32	0.10	2	< 2	< 10	35	< 10	3	17	0.48	0.40
1225021091	525	2.86	< 10	< 1	0.20	12	0.82	0.212	0.037	1.21	3	1	117	< 0.01	< 1	< 2	< 10	14	< 10	2	16	0.25	1.24
1225021054	455	3.53	< 10	2	0.26	< 10	0.75	0.181	0.031	1.67	3	< 1	105	0.02	< 1	< 2	< 10	10	< 10	2	19	0.39	1.72
D000068	435	1.68	< 10	< 1	0.20	14	1.22	0.371	0.046	0.42	< 2	1	282	< 0.01	< 1	< 2	< 10	17	< 10	2	12	0.30	0.45
1225021209	355	3.08	< 10	< 1	0.29	12	0.77	0.161	0.036	1.88	< 2	< 1	115	0.01	< 1	< 2	< 10	12	< 10	2	20	0.20	1.87
F001356																							
1225016001	487	3.52	< 10	1	0.20	14	0.97	0.150	0.033	1.56	3	< 1	99	0.02	< 1	< 2	< 10	12	< 10	3	16	0.23	1.63
1225028046	416	2.31	< 10	< 1	0.30	14	1.09	0.290	0.040	2.03	3	< 1	46	< 0.01	2	< 2	< 10	10	< 10	2	19	0.21	1.97
1225016040	484	3.04	< 10	< 1	0.22	12	1.09	0.290	0.038	1.99	< 2	< 1	131	0.01	< 1	< 2	< 10	12	< 10	2	21	0.25	1.93
1225016037	330	4.16	< 10	1	0.34	13	1.11	0.101	0.035	1.52	3	1	47	0.05	< 1	< 2	< 10	15	< 10	2	27	0.17	1.52
1225028107	322	2.26	< 10	< 1	0.34	15	1.05	0.082	0.038	2.05	< 2	< 1	33	0.01	2	< 2	< 10	10	< 10	2	20	0.20	2.06
1225016300	482	2.34	< 10	< 1	0.25	13	1.09	0.253	0.038	1.58	3	< 1	103	< 0.01	1	< 2	< 10	11	< 10	2	20	0.20	1.57
1225018160	385	3.36	< 10	1	0.23	12	0.89	0.046	0.040	2.60	3	< 1	35	< 0.01	2	< 2	< 10	10	< 10	2	19	0.22	2.59
1225025001	512	2.90	< 10	< 1	0.28	14	1.16	0.117	0.049	2.17	2	2	61	< 0.01	< 1	< 2	< 10	18	< 10	2	18	0.66	2.14
1225018013	573	2.28	< 10	< 1	0.17	12	0.62	0.091	0.040	1.50	3	1	37	< 0.01	< 1	< 2	< 10	16	< 10	2	18	0.35	1.52
1225025020	424	2.20	< 10	< 1	0.27	13	0.60	0.102	0.038	1.81	2	< 1	32	< 0.01	2	< 2	< 10	9	< 10	2	19	0.14	1.79
1225018008	567	2.34	< 10	< 1	0.40	14	1.10	0.076	0.037	0.63	3	2	28	0.03	< 1	< 2	< 10	20	< 10	2	15	0.37	0.62
1225016343	379	2.44	< 10	< 1	0.18	18	1.01	0.177	0.052	1.18	2	1	98	0.01	< 1	< 2	< 10	17	< 10	3	14	0.22	1.16
1225015044	305	2.27	< 10	< 1	0.30	< 10	0.68	0.121	0.035	0.97	3	1	62	0.03	< 1	< 2	< 10	13	< 10	2	18	0.23	0.92
1225018108	325	2.61	< 10	< 1	0.24	13	0.65	0.136	0.039	1.09	< 2	< 1	94	0.05	2	< 2	< 10	12	< 10	2	16	0.30	1.10
1225015095	266	2.20	< 10	< 1	0.26	11	0.94	0.089	0.040	0.41	< 2	1	57	0.01	< 1	< 2	< 10	13	< 10	2	11	0.47	0.41
1225018065	507	2.70	< 10	< 1	0.26	13	0.62	0.315	0.041	1.42	3	1	129	0.06	1	< 2	< 10	20	< 10	2	18	0.20	1.47
1225024032	339	3.28	< 10	1	0.27	12	0.88	0.218	0.036	2.02	< 2	< 1	97	0.03	< 1	< 2	< 10	12	< 10	2	26	0.19	2.07
1225016351	399	2.40	< 10	< 1	0.22	12	1.32	0.131	0.035	1.58	< 2	< 1	59	0.01	1	< 2	< 10	11	< 10	2	15	0.28	1.61
1225018075	366	2.84	< 10	< 1	0.26	15	0.86	0.260	0.043	1.25	2	1	111	0.08	2	< 2	< 10	21	< 10	3	20	0.21	1.13
1232016076	388	1.90	< 10	< 1	0.33	17	0.67	0.091	0.047	0.58	2	2	50	0.07	2	< 2	< 10	27	< 10	4	12	0.50	0.58
1225018012	599	2.52	< 10	< 1	0.23	12	0.82	0.084	0.041	1.45	3	1	34	< 0.01	< 1	< 2	< 10	19	< 10	2	17	0.43	1.38
1225018091	385	3.11	< 10	2	0.24	14	0.83	0.304	0.045	1.69	2	1	122	0.04	< 1	< 2	< 10	16	< 10	2	17	0.23	1.70
F001347																							
1225010053	397	2.14	< 10	< 1	0.19	17	0.45	0.053	0.047	1.62	3	< 1	51	< 0.01	< 1	< 2	< 10	9	< 10	2	11	0.35	1.64
1225010061	225	2.10	< 10	< 1	0.36	15	1.08	0.054	0.046	0.50	< 2	2	63	< 0.01	3	< 2	< 10	14	< 10	2	8	0.95	0.52
1225010081	346	3.45	< 10	< 1	0.29	13	0.17	0.029	0.042	3.84	3	< 1	16	< 0.01	1	< 2	< 10	6	< 10	1	19	0.12	3.71
1225013286	353	2.83	< 10	1	0.25	16	1.05	0.235	0.044	2.03	< 2	< 1	85	0.02	2	< 2	< 10	12	< 10	3	18	0.20	2.05
1225013258	277	4.70	< 10	2	0.16	< 10	1.61	0.492	0.023	0.35	< 2	6	57	0.20	3	< 2	< 10	111	< 10	4	6	0.29	0.38
1225021049	598	3.91	< 10	1	0.22	< 10	0.61	0.232	0.032	2.61	3	< 1	116	< 0.01	< 1	< 2	< 10	10	< 10	2	20	0.29	2.58
1232015202	452	2.26	< 10	< 1	0.29	15	0.70	0.110	0.043	0.27	< 2	2	43	0.09	1	< 2	< 10	23	< 10	3	17	0.45	0.26
1232015048	582	2.32	< 10	< 1	0.30	15	0.67	0.138	0.044	0.33	< 2	3	80	0.11	2	< 2	< 10	31	< 10	3	16	0.30	0.16

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1232015258	342	2.57	< 10	< 1	0.36	21	1.08	0.171	0.055	0.08	< 2	2	158	0.13	1	< 2	< 10	34	< 10	4	18	0.33	0.08
1232015016	295	2.20	< 10	< 1	0.35	16	0.84	0.040	0.046	1.10	< 2	1	17	0.02	2	< 2	< 10	17	< 10	2	12	0.17	1.13
1225021008	499	3.60	< 10	1	0.27	< 10	0.64	0.205	0.033	2.27	2	< 1	118	0.01	< 1	< 2	< 10	10	< 10	2	19	0.41	2.35
1225021250	353	3.10	< 10	< 1	0.24	11	1.12	0.133	0.039	1.53	2	2	125	0.01	< 1	< 2	< 10	19	< 10	2	21	0.20	1.53
1433002168	309	6.94	< 10	2	0.20	< 10	1.56	0.177	0.071	0.80	3	13	53	0.24	4	< 2	< 10	142	11	12	10	0.26	0.86
1225021017	536	3.67	< 10	< 1	0.26	< 10	0.75	0.235	0.032	2.12	3	< 1	124	< 0.01	< 1	< 2	< 10	10	< 10	2	19	0.22	1.96
1225013469	321	4.75	< 10	1	0.04	< 10	1.61	0.527	0.020	0.18	3	5	59	0.20	< 1	< 2	< 10	120	< 10	4	5	0.17	0.19
1225013339	442	2.73	< 10	< 1	0.21	19	0.99	0.185	0.048	2.26	< 2	< 1	58	< 0.01	2	< 2	< 10	9	< 10	3	14	0.17	2.21
1232015051	619	2.75	< 10	< 1	0.18	14	0.79	0.119	0.048	0.23	3	5	53	0.15	< 1	< 2	< 10	51	< 10	5	10	0.26	0.23
1225013484	452	3.06	< 10	< 1	0.22	13	0.80	0.156	0.039	2.54	3	1	70	< 0.01	2	< 2	< 10	14	< 10	3	21	0.26	2.47
1225013468	438	4.99	< 10	3	0.03	< 10	1.80	0.421	0.019	0.09	< 2	5	65	0.24	2	< 2	< 10	126	< 10	4	5	1.15	0.10
1225010110	334	1.89	< 10	< 1	0.24	15	0.15	0.092	0.041	1.78	5	< 1	70	< 0.01	1	< 2	< 10	8	< 10	1	15	0.31	1.81
1225013270	441	3.34	< 10	2	0.22	15	1.21	0.202	0.041	2.59	3	1	73	0.01	1	< 2	< 10	14	< 10	3	21	0.22	2.67
1225010016	484	2.38	< 10	< 1	0.23	16	0.28	0.034	0.030	2.11	6	< 1	33	< 0.01	< 1	< 2	< 10	9	< 10	2	12	0.12	2.09
1232015195	482	2.01	< 10	< 1	0.29	13	0.63	0.092	0.041	0.24	2	2	33	0.08	1	< 2	< 10	22	< 10	2	15	0.29	0.19
F001363																							
1225018004	534	2.40	< 10	< 1	0.32	12	0.93	0.095	0.037	0.68	< 2	2	34	0.04	< 1	< 2	< 10	19	< 10	2	16	0.43	0.70
1225025051	415	4.81	< 10	2	0.32	14	1.19	0.069	0.062	4.06	3	3	29	0.05	7	< 2	< 10	38	< 10	5	20	0.42	4.05
1225018138	370	3.36	< 10	2	0.28	12	1.11	0.106	0.037	1.52	3	1	94	0.03	< 1	< 2	< 10	13	< 10	2	19	0.24	1.56
1225025095	394	3.49	< 10	1	0.35	13	0.87	0.215	0.046	2.33	< 2	2	63	0.05	3	< 2	< 10	28	< 10	3	24	0.25	2.22
1225025061	435	3.31	< 10	< 1	0.26	14	1.02	0.105	0.052	2.36	3	2	36	< 0.01	2	< 2	< 10	22	< 10	4	21	0.13	2.28
1232016250	852	4.67	< 10	1	0.59	34	3.16	0.032	0.129	1.27	5	8	74	0.06	< 1	< 2	< 10	74	< 10	5	11	0.47	1.31
1225024044	408	3.77	< 10	2	0.34	14	0.99	0.188	0.050	2.60	3	2	62	0.02	1	< 2	< 10	27	< 10	4	19	0.31	2.54
1225024145	359	2.49	< 10	< 1	0.32	13	1.06	0.169	0.045	0.77	< 2	1	64	0.05	< 1	< 2	< 10	19	< 10	3	15	0.40	0.76
1225024090	341	3.70	< 10	< 1	0.29	12	1.24	0.150	0.038	2.26	3	< 1	66	< 0.01	< 1	< 2	< 10	12	< 10	2	22	0.24	2.23
1232016290	457	2.42	< 10	< 1	0.29	14	0.65	0.133	0.050	0.48	< 2	3	55	0.11	< 1	< 2	< 10	37	< 10	4	13	0.14	0.49
1232016105	484	1.31	< 10	< 1	0.32	17	0.61	0.296	0.041	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	10	0.35	0.36
1225024031	407	3.08	< 10	< 1	0.28	12	1.04	0.200	0.039	1.94	3	1	95	0.03	< 1	< 2	< 10	14	< 10	2	24	0.21	2.00
1225015006	374	2.33	< 10	< 1	0.25	10	0.73	0.276	0.035	1.12	3	1	138	< 0.01	2	< 2	< 10	14	< 10	2	18	0.34	1.12
1225025071	461	4.17	< 10	< 1	0.26	12	0.81	0.188	0.046	2.87	2	2	61	0.07	1	< 2	< 10	39	< 10	4	21	0.29	2.87
1232016119	444	2.14	< 10	< 1	0.30	19	0.47	0.098	0.053	0.45	< 2	3	60	0.12	< 1	< 2	< 10	35	< 10	4	14	0.16	0.42
1225024019	341	3.28	< 10	< 1	0.35	16	1.08	0.130	0.042	2.04	< 2	1	51	< 0.01	< 1	< 2	< 10	13	< 10	2	21	0.33	1.95
1225024040	437	2.79	< 10	< 1	0.30	15	0.83	0.194	0.049	2.05	2	1	71	0.04	4	< 2	< 10	15	< 10	3	21	0.30	1.86
1225024168	333	3.32	< 10	< 1	0.40	21	1.51	0.082	0.082	1.81	2	2	88	0.06	2	< 2	< 10	22	< 10	4	17	0.40	1.74
1232016127	579	1.60	< 10	< 1	0.32	17	0.53	0.272	0.044	0.55	2	1	104	0.01	< 1	< 2	< 10	14	< 10	2	6	0.26	0.55
1232016162	330	1.93	< 10	< 1	0.62	22	0.70	0.045	0.067	1.17	4	3	85	0.07	3	< 2	< 10	20	< 10	3	13	0.51	1.10
1232016037	217	1.56	< 10	< 1	0.49	18	0.70	0.093	0.051	0.91	< 2	1	65	0.07	2	< 2	< 10	17	< 10	2	17	0.29	0.90
1225024038	467	2.61	< 10	< 1	0.33	16	1.14	0.120	0.059	1.48	2	2	61	0.05	4	< 2	< 10	19	< 10	3	8	0.45	1.34
F001371	12	2.12	< 10	< 1	0.25	13	0.43	0.267	0.038	0.03	< 2	2	35	0.36	5	2	< 10	50	< 10	16	34		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1100	3	25	90	123	7.85	212	< 10	823	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	64	974	2	24	84	112	6.62	215	< 10	737	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	25	87	114	7.10	229	< 10	783	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	64	989	1	24	83	120	6.73	229	< 10	754	0.8	2	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
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SGR-1b Meas																							
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GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.5				8.33																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.5																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.4																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401						42		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				77	382						34		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419						< 2		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3000																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3030																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							529																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							505																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							504																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							490																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							494																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
1232014081 Orig								< 0.2	< 0.5	24	370	2	27	< 2	92	2.07	< 2	< 10	106	< 0.5	3	1.55	9
1232014081 Dup								< 0.2	< 0.5	23	366	2	26	< 2	88	2.04	< 2	< 10	106	< 0.5	< 2	1.53	10
1225012209 Orig							1700																
1225012209 Dup							1520																
1225020310 Orig																							
1225020310 Dup																							
1232014142 Orig								0.2	0.9	26	626	2	38	< 2	286	2.24	5	< 10	93	< 0.5	3	1.66	9
1232014142 Dup								< 0.2	0.8	27	650	2	40	< 2	297	2.34	7	< 10	95	< 0.5	3	1.73	9
1225012015 Orig							51																
1225012015 Dup							52																
1225012199 Orig																							
1225012199 Dup																							
1225012024 Orig							258																
1225012024 Dup							255																
1232014149 Orig																							
1232014149 Dup																							
1225020151 Orig								1.9	2.3	88	517	2	21	8	578	2.85	22	< 10	23	< 0.5	4	1.43	11
1225020151 Dup								2.0	1.9	92	517	2	21	7	571	2.84	23	< 10	22	< 0.5	5	1.43	12
1225020172 Orig																							
1225020172 Dup																							
1232014065 Orig							32																
1232014065 Dup							36																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232015129 Orig	6.97	29.2	22.2	10.7	2.72																		
1232015129 Dup	6.97	29.2	22.2	10.7	2.73																		
1232015043 Orig								1.0	< 0.5	29	551	2	33	15	74	1.75	24	< 10	53	< 0.5	< 2	1.12	12
1232015043 Dup								1.0	< 0.5	29	553	2	33	15	75	1.77	25	< 10	57	< 0.5	< 2	1.13	11
1225021039 Orig							72																
1225021039 Dup							72																
1225021281 Orig																							
1225021281 Dup																							
1225021119 Orig							282																
1225021119 Dup							304																
1232015071 Orig																							
1232015071 Dup																							
1225016037 Orig								1.5	< 0.5	239	531	6	19	< 2	119	2.70	11	< 10	52	< 0.5	11	0.94	7
1225016037 Dup								1.4	< 0.5	243	545	6	21	3	121	2.83	11	< 10	50	< 0.5	11	0.97	8
1225016300 Orig																							
1225016300 Dup																							
1225025001 Orig							62																
1225025001 Dup							64																
1225018065 Orig																							
1225018065 Dup																							
1225016351 Orig							298	0.5	1.3	143	465	3	23	3	416	2.23	28	< 10	35	< 0.5	3	0.68	9
1225016351 Dup							316	0.5	1.5	145	479	3	23	3	424	2.34	30	< 10	32	< 0.5	2	0.70	9
1225018091 Orig							788																
1225018091 Dup							866																
1225010081 Orig	105	2.99	-102	114	0.0263																		
1225010081 Dup	105	2.99	-102	114	0.0263																		
1225013258 Orig																							
1225013258 Dup																							
1232015048 Orig								0.3	< 0.5	25	467	3	39	4	77	1.68	4	< 10	86	< 0.5	< 2	1.42	12
1232015048 Dup								0.2	< 0.5	26	463	3	38	6	76	1.68	5	< 10	87	< 0.5	< 2	1.42	11
1225013469 Orig																							
1225013469 Dup																							
1225010110 Orig							123																
1225010110 Dup							105																
1225010016 Orig								0.8	6.3	42	341	3	31	21	1590	1.10	70	< 10	28	< 0.5	< 2	0.35	13
1225010016 Dup								0.8	6.8	43	349	2	28	21	1640	1.17	74	< 10	28	< 0.5	< 2	0.36	13
1225018004 Orig								0.4	0.6	74	517	3	28	6	128	1.59	8	< 10	53	< 0.5	2	1.22	9
1225018004 Dup								0.4	< 0.5	77	526	3	29	2	128	1.63	10	< 10	54	< 0.5	3	1.22	10
1225018138 Orig																							
1225018138 Dup																							
1232016250 Orig							57																
1232016250 Dup							58																
1232016290 Orig							35																
1232016290 Dup							50																
1232016105 Orig								1.6	< 0.5	14	542	2	22	25	81	2.98	17	< 10	64	< 0.5	2	1.83	6
1232016105 Dup								1.7	< 0.5	15	546	2	23	25	81	2.99	19	< 10	63	< 0.5	3	1.84	6
1225015006 Orig																							
1225015006 Dup																							
1232016119 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1232016119 Dup																							
1225024038 Orig	35.4	22.4	-13.0	41.0	0.546																		
1225024038 Dup	35.4	22.5	-12.9	41.0	0.548																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	6.14	10	1	1.07	< 10	0.37	0.146	0.035	0.01	4	18	31		< 1	3	< 10	159	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	70	5.15	10	2	0.98	< 10	0.35	0.142	0.031	0.01	3	17	29		< 1	< 2	< 10	151	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	73	5.59	10	< 1	1.08	< 10	0.37	0.150	0.033	0.01	4	18	31		< 1	< 2	< 10	160	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	72	5.24	10	< 1	1.05	< 10	0.38	0.133	0.032	0.01	3	20	28		< 1	2	< 10	155	< 10	5	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
SGR-1b Meas																						28.0	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.2	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.2	1.56
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.13	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.55	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.75	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.66	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19			< 2	< 10	11	< 10	7	59		
Oreas 621 (Aqua	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19			< 2	< 10	12	< 10	7	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1232014081 Orig	297	2.53	< 10	< 1	0.40	22	1.00	0.142	0.050	0.14	< 2	3	84	0.11	< 1	< 2	< 10	34	< 10	3	10		
1232014081 Dup	296	2.51	< 10	< 1	0.40	21	0.99	0.142	0.050	0.13	< 2	3	84	0.11	< 1	< 2	< 10	34	< 10	3	12		
1225012209 Orig																							
1225012209 Dup																							
1225020310 Orig																						0.28	1.74
1225020310 Dup																						0.28	1.74
1232014142 Orig	328	2.22	< 10	< 1	0.41	20	1.12	0.166	0.049	0.36	< 2	3	75	0.08	< 1	< 2	< 10	30	< 10	4	5		
1232014142 Dup	341	2.33	< 10	< 1	0.43	22	1.17	0.174	0.051	0.38	< 2	3	79	0.09	< 1	< 2	< 10	31	< 10	4	5		
1225012015 Orig																							
1225012015 Dup																							
1225012199 Orig																						0.18	2.07
1225012199 Dup																						0.18	2.09
1225012024 Orig																							
1225012024 Dup																							
1232014149 Orig																						0.26	0.23
1232014149 Dup																						0.25	0.23
1225020151 Orig	269	3.06	< 10	< 1	0.29	20	1.03	0.256	0.050	2.16	3	1	118	0.02	3	< 2	< 10	16	< 10	3	13		
1225020151 Dup	266	3.10	< 10	2	0.29	19	1.04	0.253	0.050	2.16	< 2	1	117	0.02	3	< 2	< 10	16	< 10	3	13		
1225020172 Orig																						0.25	1.51
1225020172 Dup																						0.25	1.49
1232014065 Orig																							
1232014065 Dup																							
1232015129 Orig																							
1232015129 Dup																							
1232015043 Orig	410	2.41	< 10	< 1	0.34	17	0.57	0.140	0.053	0.97	< 2	3	71	0.09	3	< 2	< 10	30	< 10	4	11		
1232015043 Dup	411	2.43	< 10	< 1	0.35	17	0.58	0.143	0.053	0.98	2	3	72	0.09	1	< 2	< 10	30	< 10	4	11		
1225021039 Orig																							
1225021039 Dup																							
1225021281 Orig																						0.30	1.40
1225021281 Dup																						0.29	1.38
1225021119 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225021119 Dup																							
1232015071 Orig																						0.35	0.20
1232015071 Dup																						0.35	0.19
1225016037 Orig	323	4.07	< 10	1	0.33	13	1.10	0.099	0.035	1.51	3	1	46	0.05	< 1	< 2	< 10	14	< 10	2	27		
1225016037 Dup	336	4.26	< 10	2	0.34	13	1.13	0.102	0.036	1.54	2	1	47	0.05	2	< 2	< 10	15	< 10	2	27		
1225016300 Orig																						0.19	1.56
1225016300 Dup																						0.20	1.59
1225025001 Orig																							
1225025001 Dup																							
1225018065 Orig																						0.20	1.50
1225018065 Dup																						0.20	1.44
1225016351 Orig	397	2.36	< 10	< 1	0.22	12	1.30	0.129	0.035	1.55	< 2	< 1	58	0.01	1	< 2	< 10	10	< 10	2	17		
1225016351 Dup	402	2.44	< 10	< 1	0.23	12	1.33	0.133	0.036	1.61	3	< 1	60	0.01	2	< 2	< 10	11	< 10	2	14		
1225018091 Orig																							
1225018091 Dup																							
1225010081 Orig																							
1225010081 Dup																							
1225013258 Orig																						0.29	0.39
1225013258 Dup																						0.29	0.38
1232015048 Orig	579	2.32	< 10	< 1	0.30	15	0.67	0.137	0.045	0.32	2	3	80	0.11	3	< 2	< 10	31	< 10	3	16		
1232015048 Dup	585	2.32	< 10	< 1	0.30	15	0.67	0.139	0.044	0.33	< 2	3	81	0.11	2	< 2	< 10	31	< 10	3	16		
1225013469 Orig																						0.17	0.20
1225013469 Dup																						0.17	0.19
1225010110 Orig																							
1225010110 Dup																							
1225010016 Orig	508	2.34	< 10	< 1	0.22	16	0.28	0.033	0.029	2.06	6	< 1	33	< 0.01	< 1	< 2	< 10	9	< 10	2	12		
1225010016 Dup	459	2.41	< 10	< 1	0.24	17	0.29	0.035	0.031	2.16	5	< 1	34	< 0.01	< 1	< 2	< 10	9	< 10	2	12		
1225018004 Orig	534	2.39	< 10	< 1	0.31	12	0.92	0.093	0.037	0.67	2	2	34	0.04	< 1	< 2	< 10	19	< 10	2	16		
1225018004 Dup	534	2.42	< 10	< 1	0.33	12	0.94	0.097	0.037	0.68	< 2	2	34	0.04	2	< 2	< 10	20	< 10	2	16		
1225018138 Orig																						0.23	1.54
1225018138 Dup																						0.24	1.58
1232016250 Orig																							
1232016250 Dup																							
1232016290 Orig																							
1232016290 Dup																							
1232016105 Orig	474	1.30	< 10	< 1	0.32	17	0.60	0.296	0.040	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	9		
1232016105 Dup	493	1.32	< 10	< 1	0.33	17	0.61	0.297	0.041	0.35	3	1	110	0.01	< 1	< 2	< 10	15	< 10	2	10		
1225015006 Orig																						0.34	1.12
1225015006 Dup																						0.34	1.12
1232016119 Orig																						0.16	0.42
1232016119 Dup																						0.16	0.42
1225024038 Orig																							
1225024038 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-10437**
Report Date:	**05-Nov-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-09-14 15:01:59
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-09-28 22:52:07

REPORT **A20-10437**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F000726, F000748, F000726 and F000747 are insufficient.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.:	**A20-10437**
Report Date:	**05-Nov-20**
Date Submitted:	**02-Sep-20**
Your Reference:	**June-July 2020 Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-19 21:46:45
4F-C, S	Infrared	2020-09-22 21:25:02

REPORT **A20-10437**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F000726, F000748, F000726 and F000747 are insufficient.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225019005	7.80	28.6	20.8	14.7	1.95	9.69	123	< 0.2	0.5	18	771	2	13	2	163	1.63	7	< 10	58	< 0.5	3	0.95	8
1225019137	52.5	14.7	-37.8	57.9	0.254	8.74	234	0.6	< 0.5	72	420	< 1	15	5	54	2.26	17	< 10	31	< 0.5	5	1.17	10
1232019115	1.88	16.6	14.7	1.84	9.03	9.94	< 5	< 0.2	< 0.5	11	283	< 1	10	< 2	58	1.21	< 2	< 10	91	< 0.5	< 2	0.87	8
1324001104	68.4	18.0	-50.5	75.3	0.239	8.69	82	0.7	0.8	39	455	1	12	8	168	1.97	10	< 10	24	< 0.5	3	1.33	10
1324001507	60.4	55.7	-4.67	68.0	0.820	8.71	126	1.4	0.7	33	897	< 1	17	23	175	1.42	29	< 10	22	< 0.5	< 2	2.35	11
1225019070	17.1	19.0	1.88	23.3	0.814	9.02	138	0.4	< 0.5	78	485	1	11	5	124	1.79	6	< 10	41	< 0.5	3	0.95	9
1225019001	23.8	29.2	5.36	33.4	0.875	9.17	52	0.4	0.7	50	595	2	12	4	165	1.42	17	< 10	44	< 0.5	3	1.19	9
1232019247	0.000	18.3	18.3	6.43	2.85	9.07	9	0.2	< 0.5	37	366	1	15	6	76	1.71	6	< 10	70	< 0.5	< 2	1.31	10
1225027002	27.8	11.0	-16.8	35.5	0.309	8.84	133	0.8	1.7	84	814	< 1	13	6	389	2.22	15	< 10	34	< 0.5	2	0.79	11
1324001157	77.1	11.5	-65.6	85.1	0.135	8.35	206	1.4	1.4	63	315	1	16	14	349	1.61	30	< 10	20	< 0.5	< 2	0.99	12
1324001081	7.49	12.6	5.11	11.0	1.14	9.30	19	0.5	< 0.5	49	388	1	8	5	103	2.56	8	< 10	45	< 0.5	3	1.30	10
1324001278	68.2	38.8	-29.4	75.6	0.513	8.59	835	6.6	6.9	108	1330	1	14	171	1510	1.22	60	< 10	24	< 0.5	< 2	1.67	10
1232019182	39.0	5.99	-33.0	43.2	0.139	8.55	51	1.1	0.8	20	1000	< 1	17	21	197	1.81	19	< 10	33	< 0.5	< 2	0.69	11
1324001062	15.0	8.11	-6.88	18.1	0.449	9.22	17	< 0.2	< 0.5	10	663	< 1	7	9	77	3.15	10	< 10	40	< 0.5	3	1.35	8
1232019316	22.6	28.5	5.88	27.6	1.03	8.47	42	0.5	1.2	48	499	< 1	30	13	222	1.97	12	< 10	48	< 0.5	< 2	1.63	15
1225019141	9.06	62.3	53.2	12.9	4.84	9.29	23	< 0.2	< 0.5	30	771	< 1	60	3	72	3.12	6	< 10	102	< 0.5	2	3.03	24
1232019333	49.5	4.25	-45.2	54.5	0.0779	8.55	60	2.6	0.6	27	1160	1	23	40	251	1.66	20	< 10	27	< 0.5	< 2	0.52	11
1324001374	63.3	47.9	-15.4	69.8	0.686	8.81	195	1.7	0.6	20	905	< 1	15	11	146	1.29	29	< 10	20	< 0.5	< 2	2.04	12
1232019061	0.625	25.2	24.6	0.613	41.2	9.89	< 5	< 0.2	< 0.5	3	288	1	24	< 2	55	1.01	< 2	< 10	72	< 0.5	< 2	1.45	8
1324001368	56.2	55.3	-0.930	73.5	0.752	8.82	113	2.1	< 0.5	18	530	< 1	11	33	108	1.23	24	< 10	26	< 0.5	3	2.21	9
1225019138	13.3	11.1	-2.23	19.3	0.575	9.10	133	0.8	< 0.5	195	415	9	8	2	54	3.33	5	< 10	48	< 0.5	3	1.50	8
F000747							910																
1324001341	55.3	45.6	-9.69	62.5	0.730	8.71	710	14.9	1.4	61	1170	< 1	15	75	319	1.22	20	< 10	24	< 0.5	2	2.05	10
1324001326	54.6	40.2	-14.4	64.9	0.619	8.69	58	0.7	< 0.5	15	655	< 1	15	16	112	1.54	17	< 10	20	< 0.5	2	2.10	10
1324001071	20.5	5.86	-14.6	30.0	0.195	8.71	19	0.5	< 0.5	18	481	< 1	9	20	92	3.44	12	< 10	38	< 0.5	3	1.47	8
1225019053	27.6	15.6	-12.0	37.4	0.418	8.69	1350	3.6	< 0.5	445	544	< 1	17	4	67	2.31	7	< 10	30	< 0.5	9	1.01	10
1324001010	6.03	9.86	3.84	14.1	0.700	9.12	28	< 0.2	< 0.5	21	551	< 1	11	6	66	3.23	3	< 10	45	< 0.5	2	1.60	10
1225019121	24.6	38.9	14.3	30.3	1.28	9.19	77	0.3	< 0.5	38	593	2	38	2	57	2.58	8	< 10	47	< 0.5	< 2	2.07	17
1324001194	31.1	11.4	-19.8	38.0	0.300	8.81	46	0.6	< 0.5	16	401	< 1	13	9	84	2.26	21	< 10	51	< 0.5	4	1.33	10
1324001316	42.8	30.6	-12.2	62.2	0.492	8.69	184	1.7	< 0.5	23	760	< 1	15	32	150	2.41	26	< 10	27	< 0.5	< 2	1.84	10
1231034261	45.2	30.9	-14.3	54.8	0.563	8.70	247	3.7	1.0	38	870	< 1	13	53	280	1.00	64	< 10	39	< 0.5	2	1.30	10
1324001016	11.6	18.6	6.94	23.6	0.788	9.02	83	0.6	0.7	27	537	2	11	12	154	2.98	19	< 10	41	< 0.5	4	1.63	14
1324003070	71.6	16.4	-55.3	83.3	0.196	8.55	1330	0.9	5.1	62	629	< 1	13	35	941	2.01	43	< 10	29	< 0.5	< 2	1.41	9
1324001040	42.9	4.87	-38.0	49.6	0.0982	8.63	105	0.6	1.2	24	600	1	12	9	314	2.78	7	< 10	37	< 0.5	4	1.45	10
F000748							3140																
1324001287	50.5	45.7	-4.80	67.7	0.675	8.82	493	7.3	2.9	54	1180	< 1	14	141	746	1.09	54	< 10	31	< 0.5	3	2.11	13
1232019146	35.0	31.7	-3.31	42.9	0.739	8.61	22	0.5	< 0.5	56	540	2	12	4	69	1.26	16	< 10	47	< 0.5	< 2	1.60	10
1225022010	29.4	12.7	-16.7	34.0	0.374	8.82	315	0.4	< 0.5	127	337	2	9	3	40	2.77	5	< 10	45	< 0.5	7	1.14	10
1225019090	43.5	25.4	-18.2	50.2	0.505	8.72	693	2.1	0.6	415	546	2	19	12	102	2.45	28	13	41	< 0.5	8	1.77	9
1232019034	46.8	26.7	-20.1	51.5	0.519	9.17	28	0.6	< 0.5	23	635	< 1	14	4	67	1.12	36	< 10	34	< 0.5	< 2	1.31	11
1225019023	33.0	25.2	-7.80	36.8	0.686	8.93	184	1.1	1.1	69	751	2	11	6	284	2.33	16	< 10	47	< 0.5	2	1.74	9
1232019253	1.14	39.1	38.0	4.59	8.52	8.91	12	< 0.2	< 0.5	16	346	< 1	12	2	59	1.49	4	< 10	75	< 0.5	< 2	1.83	9
1225022187	48.0	8.98	-39.0	53.6	0.168	8.38	363	0.4	< 0.5	158	232	< 1	8	2	28	2.58	5	< 10	32	< 0.5	4	1.06	9
1225022364	44.7	8.97	-35.7	48.7	0.184	8.45	762	1.1	< 0.5	252	356	< 1	7	4	49	2.23	9	< 10	27	< 0.5	7	1.00	8
1232019223	5.20	23.7	18.5	8.27	2.86	9.10	11	0.3	< 0.5	31	490	4	34	5	73	1.83	7	< 10	173	< 0.5	< 2	1.37	11
1225019010	12.8	25.0	12.2	15.9	1.57	8.41	155	< 0.2	< 0.5	18	791	< 1	11	< 2	117	1.63	7	< 10	57	< 0.5	< 2	1.13	10
1225027010	55.3	7.86	-47.4	62.2	0.126	8.39	60	1.5	1.8	202	417	2	10	< 2	408	2.74	8	< 10	25	< 0.5	5	0.98	9
1225027138	48.8	10.2	-38.6	53.3	0.192	8.54	52	0.6	< 0.5	118	386	3	12	< 2	181	3.73	8	< 10	36	< 0.5	4	1.88	10
1225019067	45.8	15.9	-29.9	49.9	0.319	8.51	2350	0.9	< 0.5	257	439	1	12	3	96	2.09	11	10	27	< 0.5	8	1.00	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225019020	12.2	23.5	11.3	11.9	1.97	9.29	26	0.2	< 0.5	13	612	< 1	11	3	78	1.84	6	< 10	47	< 0.5	3	1.13	9
1232019171	6.25	23.5	17.3	6.13	3.84	9.51	5	< 0.2	< 0.5	48	436	< 1	10	< 2	65	1.07	2	< 10	74	< 0.5	< 2	0.79	8
1324001310	54.2	40.9	-13.2	61.9	0.662	8.57	116	1.2	0.6	40	572	2	16	17	164	1.20	21	< 10	30	< 0.5	< 2	1.81	11
1324001244	40.6	30.0	-10.7	45.0	0.665	8.82	244	1.1	0.5	34	767	2	19	17	121	2.24	25	< 10	40	< 0.5	3	1.79	10
1232019094	45.3	25.8	-19.5	50.2	0.513	9.10	28	0.6	< 0.5	22	608	2	22	5	62	1.06	38	< 10	35	< 0.5	< 2	1.16	11
1225019074	32.5	27.0	-5.45	36.1	0.748	8.74	112	0.4	< 0.5	72	391	1	8	4	72	1.88	6	< 10	49	< 0.5	2	1.10	8
1324001167	67.4	20.1	-47.3	72.6	0.277	8.53	128	1.4	2.4	61	510	1	13	18	529	1.69	25	< 10	21	< 0.5	2	1.32	11
F000726																							
1225016113	39.9	18.6	-21.3	45.0	0.413	8.71	42	0.8	< 0.5	164	308	8	24	3	73	3.65	6	< 10	39	< 0.5	3	1.85	10
1225027160	8.44	10.8	2.33	8.27	1.30	9.06	35	0.3	< 0.5	149	590	< 1	54	< 2	46	5.48	< 2	< 10	23	< 0.5	2	3.30	25
1225016170	37.0	13.8	-23.2	42.0	0.329	8.73	73	0.8	< 0.5	122	367	2	17	4	122	2.75	9	< 10	37	< 0.5	4	1.02	9
1225022126	30.5	37.8	7.27	33.7	1.12	8.81	54	0.4	< 0.5	69	599	< 1	39	3	60	2.60	14	< 10	33	< 0.5	< 2	2.12	17
1225022028	52.2	17.4	-34.8	56.3	0.308	8.84	128	1.0	< 0.5	72	489	2	19	4	62	2.32	21	< 10	26	< 0.5	5	1.44	12
1225027107	49.4	36.6	-12.8	59.1	0.619	8.75	97	1.7	2.1	155	428	< 1	7	3	511	1.82	4	< 10	21	< 0.5	11	1.49	6
1225016105	38.1	11.6	-26.6	45.6	0.253	8.64	98	1.2	0.5	202	448	2	15	2	161	4.00	8	< 10	48	< 0.5	5	1.09	8
1225022339	40.3	7.77	-32.5	46.9	0.166	8.36	1170	0.7	0.5	375	278	2	13	< 2	45	3.82	7	< 10	34	< 0.5	12	0.90	6
1225027045	29.4	14.1	-15.2	33.4	0.423	9.00	29	0.6	< 0.5	142	426	< 1	32	< 2	111	4.13	4	< 10	55	< 0.5	4	2.02	14
1225022201	24.2	9.43	-14.7	28.8	0.328	8.73	328	0.9	< 0.5	372	340	6	25	5	39	4.40	8	13	71	< 0.5	5	1.53	10
1225022361	56.3	7.30	-49.0	63.1	0.116	8.34	1950	1.2	< 0.5	748	266	2	11	< 2	30	2.82	11	< 10	19	< 0.5	9	0.92	7
1225027046	7.81	9.71	1.90	7.66	1.27	8.02	20	0.2	< 0.5	133	536	< 1	53	< 2	60	5.80	< 2	< 10	20	< 0.5	4	3.67	23
1225028123	21.6	27.0	5.36	41.3	0.653	8.64	66	1.1	2.6	98	703	2	21	8	676	3.29	11	< 10	31	< 0.5	2	1.99	10
1225022066	37.6	8.89	-28.7	45.3	0.196	8.62	250	0.8	< 0.5	161	411	< 1	17	5	64	2.28	13	< 10	27	< 0.5	4	0.96	10
1433003053	55.9	133	77.4	81.8	1.63	8.72	135	0.5	0.6	87	1910	< 1	66	8	207	4.73	29	< 10	34	< 0.5	4	5.09	32
1225022030	8.43	55.4	47.0	14.1	3.93	9.74	24	0.2	< 0.5	23	661	2	90	4	57	3.08	8	< 10	84	< 0.5	< 2	2.71	24
1225022247	70.8	30.9	-39.9	82.7	0.374	8.55	1220	0.5	< 0.5	263	253	5	23	7	40	2.29	17	< 10	17	< 0.5	7	1.30	8
1433003006	11.8	132	120	23.3	5.68	8.97	31	0.5	0.7	56	1340	< 1	156	17	171	5.08	14	< 10	66	< 0.5	7	4.85	38
1225022013	24.9	13.4	-11.5	29.4	0.455	8.84	2840	0.9	< 0.5	186	382	2	23	3	42	3.92	7	< 10	67	< 0.5	5	1.40	8
1225022259	57.1	8.03	-49.0	67.1	0.120	8.26	1170	1.5	< 0.5	827	211	< 1	12	5	27	2.38	12	< 10	18	< 0.5	14	0.64	6
1225022113	44.5	15.9	-28.6	55.1	0.288	8.44	511	3.6	< 0.5	91	431	2	16	16	39	2.95	9	< 10	21	< 0.5	12	1.04	9
1225022355	44.8	8.93	-35.8	51.8	0.173	8.46	953	0.7	< 0.5	287	290	1	15	< 2	37	3.13	6	< 10	22	< 0.5	5	1.03	6
F000729							962	2.4	< 0.5	59	418	10	18	8	55	1.80	< 2	< 10	85	< 0.5	< 2	1.36	17
1225016032	34.3	5.74	-28.5	44.1	0.130	8.48	67	0.3	< 0.5	58	300	2	12	< 2	75	3.26	7	< 10	37	< 0.5	3	1.12	12
1225016006	46.1	8.73	-37.4	55.1	0.158	8.29	487	0.5	< 0.5	214	272	6	44	2	23	3.68	7	< 10	31	< 0.5	9	1.29	8
1225028011	37.5	40.7	3.23	54.8	0.742	8.68	85	0.4	0.7	11	1030	< 1	11	17	219	2.13	11	< 10	30	< 0.5	3	1.88	8
1225016068	23.2	6.30	-16.9	28.8	0.219	8.78	176	0.2	< 0.5	78	236	5	25	2	30	2.18	8	< 10	57	< 0.5	6	0.52	10
1225016223	21.2	25.9	4.65	32.2	0.805	8.91	318	0.4	< 0.5	67	323	2	10	< 2	77	2.77	7	< 10	48	< 0.5	3	1.71	9
1225028062	20.9	14.5	-6.46	35.2	0.410	8.51	181	1.3	10.9	139	753	2	13	19	3030	3.98	17	< 10	28	< 0.5	4	2.04	9
1225016258	45.4	8.57	-36.8	55.7	0.154	8.36	92	0.5	< 0.5	39	426	1	13	8	105	3.03	16	< 10	22	< 0.5	3	0.80	11
1225016287	28.2	10.2	-18.1	35.8	0.284	8.62	237	0.3	< 0.5	58	233	2	14	3	49	3.16	7	< 10	38	< 0.5	4	1.24	8
1225016204	48.7	10.3	-38.4	53.9	0.192	8.64	228	0.6	0.7	124	375	< 1	16	6	226	3.17	22	< 10	25	< 0.5	4	1.08	10
1225016086	54.2	9.69	-44.5	59.4	0.163	7.60	124	0.5	< 0.5	100	252	2	20	5	66	2.91	11	< 10	24	< 0.5	4	1.04	8
1225028074	45.0	27.1	-17.9	53.3	0.508	8.66	76	0.9	2.7	93	543	3	16	7	676	2.81	11	< 10	24	< 0.5	2	1.73	10
1225016238	46.3	11.0	-35.4	53.6	0.205	8.43	222	0.5	< 0.5	111	253	3	18	< 2	48	3.91	8	< 10	50	< 0.5	3	1.48	10
1433003029	52.3	128	75.7	63.7	2.01	8.81	22	0.4	< 0.5	69	1390	< 1	118	5	171	4.05	17	< 10	19	< 0.5	4	4.31	42
1225018046	31.5	15.1	-16.4	35.2	0.429	8.83	149	0.4	< 0.5	53	458	4	28	4	59	2.44	10	< 10	55	< 0.5	2	1.42	10
1225016135	39.8	8.62	-31.2	45.3	0.190	8.44	360	0.5	< 0.5	196	302	1	16	2	47	4.14	9	< 10	37	< 0.5	5	1.30	9
1225028022	50.6	12.6	-38.0	55.1	0.229	8.37	156	0.7	0.6	109	521	3	13	5	137	2.83	11	< 10	23	< 0.5	2	1.40	10
1225027098	52.2	5.87	-46.3	56.3	0.104	8.30	396	0.5	< 0.5	95	265	3	13	6	47	2.03	14	< 10	29	< 0.5	5	0.57	11
1225016198	33.6	11.6	-22.1	37.4	0.309	8.84	106	0.9	0.9	96	504	< 1	13	10	181	2.53	19	< 10	41	< 0.5	3	0.73	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225016094	32.9	20.9	-12.0	38.3	0.547	8.86	43	0.7	< 0.5	199	363	6	13	< 2	77	2.56	5	< 10	27	< 0.5	3	1.46	9
1225016077	59.6	16.6	-43.0	64.3	0.258	8.47	227	0.3	< 0.5	93	244	2	11	4	31	2.31	10	< 10	31	< 0.5	7	1.02	10
1433003095	53.0	27.5	-25.5	60.9	0.451	8.83	76	0.5	< 0.5	78	286	< 1	12	10	36	2.50	5	< 10	62	< 0.5	4	1.25	6
1225022276	105	5.85	-99.3	129	0.0452	8.02	312	2.1	28.6	118	1160	1	17	22	6690	2.67	117	< 10	34	< 0.5	6	0.29	11
1225027093	73.3	15.6	-57.7	84.2	0.186	8.59	180	2.8	2.7	258	288	< 1	13	4	701	2.31	3	< 10	40	< 0.5	14	0.63	6
F000736							124	1.7	< 0.5	56	346	4	13	15	58	1.65	< 2	< 10	76	< 0.5	< 2	1.20	15
1225022309	51.4	23.3	-28.1	57.0	0.409	8.33	1060	1.0	< 0.5	447	260	3	21	5	43	2.55	6	< 10	53	< 0.5	9	0.84	7
1225022166	53.3	9.54	-43.8	59.1	0.161	8.33	938	4.0	0.6	187	325	< 1	23	34	165	1.91	21	< 10	51	< 0.5	6	0.73	9
1225027081	37.2	12.7	-24.5	44.1	0.288	8.96	133	0.3	< 0.5	39	248	< 1	15	3	49	3.08	9	< 10	70	< 0.5	2	0.91	8
1225022141	40.2	12.8	-27.4	44.1	0.290	8.42	526	0.5	< 0.5	247	257	2	13	5	37	2.25	6	< 10	36	< 0.5	5	0.67	6
1225027120	37.3	12.7	-24.6	44.4	0.286	8.75	34	0.4	< 0.5	55	234	1	17	4	80	2.80	5	< 10	73	< 0.5	3	1.00	8
1225022184	57.1	14.0	-43.1	63.7	0.220	8.48	866	6.1	< 0.5	159	362	1	20	36	57	2.42	27	< 10	36	< 0.5	6	0.93	9
1232019107	3.13	34.3	31.2	3.06	11.2	9.78	6	< 0.2	< 0.5	18	362	3	26	< 2	61	1.21	< 2	< 10	110	< 0.5	< 2	1.45	11
1232019092	33.4	15.0	-18.4	40.1	0.375	8.74	30	1.1	< 0.5	29	517	3	26	7	64	1.35	13	< 10	69	< 0.5	< 2	0.82	11
1232019136	5.63	27.4	21.8	5.51	4.98	9.18	19	< 0.2	< 0.5	17	351	< 1	12	< 2	55	1.29	2	< 10	87	< 0.5	< 2	1.32	9
1225022004	22.9	12.6	-10.3	27.3	0.464	8.81	88	0.4	< 0.5	89	286	3	19	< 2	29	4.38	6	13	78	< 0.5	5	1.41	9
1225022290	62.3	11.6	-50.7	68.9	0.169	8.46	1040	1.0	< 0.5	547	233	2	15	3	25	2.48	10	< 10	53	< 0.5	16	0.77	7
1433003126	6.34	46.8	40.5	12.6	3.73	8.79	102	0.5	< 0.5	66	1040	< 1	13	6	158	3.35	4	< 10	24	< 0.5	3	3.57	34
1225022213	39.3	6.32	-32.9	45.3	0.140	8.43	364	0.4	< 0.5	137	214	2	13	3	31	2.45	6	< 10	55	< 0.5	5	0.84	8
1225027077	37.2	10.2	-26.9	41.0	0.249	8.86	44	0.6	< 0.5	110	334	3	21	3	92	2.88	5	< 10	49	< 0.5	3	1.14	8
1225022372	49.5	10.5	-38.9	54.2	0.194	8.47	1040	6.5	< 0.5	365	292	2	15	3	72	2.31	9	< 10	43	< 0.5	11	0.88	9
1225027118	49.1	4.07	-45.0	52.7	0.0772	8.50	35	0.3	< 0.5	54	116	1	12	< 2	25	2.30	6	< 10	39	< 0.5	3	0.66	8
1225022379	89.9	6.60	-83.3	96.2	0.0686	7.99	522	3.0	< 0.5	124	553	< 1	22	11	148	2.36	49	< 10	36	< 0.5	7	0.63	15
1225013410	51.4	4.31	-47.1	58.2	0.0741	7.98	126	0.5	< 0.5	126	320	2	22	3	60	2.29	11	< 10	41	< 0.5	6	0.35	12
1225015024	57.7	51.7	-5.97	67.4	0.768	8.56	1240	3.3	< 0.5	16	835	< 1	25	30	122	1.88	90	< 10	34	< 0.5	< 2	1.94	11
1225010045	26.9	16.7	-10.2	30.6	0.545	8.79	186	0.3	0.9	19	784	< 1	17	18	265	2.64	22	< 10	65	< 0.5	< 2	1.35	11
1225011068	49.2	17.4	-31.7	53.9	0.324	8.56	113	0.4	< 0.5	102	438	4	23	3	104	1.31	8	< 10	60	< 0.5	< 2	0.95	10
1225015119	62.4	71.5	9.13	70.7	1.01	8.54	158	3.5	2.0	70	1120	3	23	183	516	1.26	63	< 10	39	< 0.5	< 2	2.52	10
1433002103	6.76	33.7	26.9	10.7	3.14	9.16	9	0.3	< 0.5	30	788	1	23	2	102	2.38	6	< 10	73	< 0.5	< 2	1.90	11
1225013355	64.7	6.12	-58.6	69.5	0.0880	8.27	131	0.5	< 0.5	107	286	3	27	< 2	56	2.42	9	< 10	51	< 0.5	6	0.52	12
1225015115	45.2	43.9	-1.33	52.1	0.843	8.69	100	1.1	< 0.5	38	881	2	26	17	125	2.30	56	18	49	< 0.5	< 2	2.14	14
1225015150	14.8	16.0	1.23	19.3	0.830	9.07	25	0.7	< 0.5	49	661	1	20	12	71	2.84	9	16	59	< 0.5	2	1.28	10
1225013224	98.6	12.6	-86.0	108	0.116	8.18	270	0.8	0.6	64	678	2	36	3	272	2.83	35	< 10	26	< 0.5	4	1.27	17
1225015128	68.3	78.6	10.3	79.6	0.988	8.41	780	2.4	< 0.5	25	1220	2	27	13	73	0.87	132	< 10	31	< 0.5	< 2	2.90	13
1225013315	73.8	5.81	-68.0	79.3	0.0732	8.11	323	1.0	< 0.5	283	241	2	22	2	61	2.15	11	< 10	47	< 0.5	7	0.35	12
1225013401	56.6	17.8	-38.7	61.6	0.290	8.50	187	0.5	0.8	53	486	2	25	3	190	1.86	14	< 10	45	< 0.5	2	1.17	11
1225011109	45.1	14.7	-30.4	49.0	0.300	8.57	54	0.3	1.5	57	625	3	35	2	414	2.08	4	< 10	71	< 0.5	2	0.95	11
1225013245	6.56	7.90	1.33	6.43	1.23	9.05	13	< 0.2	< 0.5	122	506	< 1	55	< 2	49	5.28	< 2	< 10	20	< 0.5	3	3.53	23
1225013379	74.3	7.55	-66.7	81.8	0.0923	8.27	193	0.8	1.9	138	377	5	25	3	487	2.20	8	< 10	38	< 0.5	4	0.76	14
1225011161	40.9	24.4	-16.5	47.2	0.517	8.69	84	0.6	0.8	115	373	7	35	2	267	1.17	10	< 10	60	< 0.5	3	1.03	11
1225013250	80.6	11.3	-69.3	87.3	0.130	8.23	382	0.8	0.7	171	323	2	30	< 2	199	2.32	7	< 10	46	< 0.5	5	0.86	11
1225015038	24.1	17.8	-6.25	28.5	0.625	8.82	50	0.2	< 0.5	37	609	3	24	< 2	39	2.42	10	21	74	< 0.5	< 2	1.41	11

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225019005	148	2.05	< 10	< 1	0.36	13	1.20	0.060	0.038	0.55	< 2	2	30	0.03	< 1	< 2	< 10	18	< 10	2	12	0.39	0.48
1225019137	91	2.94	< 10	< 1	0.29	15	0.85	0.191	0.045	1.97	< 2	2	74	0.02	< 1	< 2	< 10	15	< 10	2	20	0.17	1.89
1232019115	129	1.86	< 10	< 1	0.38	18	0.60	0.082	0.045	0.05	< 2	1	35	0.10	< 1	< 2	< 10	21	< 10	2	17	0.22	0.06
1324001104	83	2.47	< 10	< 1	0.15	21	0.95	0.206	0.062	2.57	< 2	1	99	< 0.01	2	< 2	< 10	13	< 10	4	12	0.24	2.46
1324001507	131	2.54	< 10	< 1	0.26	14	0.62	0.100	0.043	2.54	2	< 1	54	< 0.01	< 1	< 2	< 10	6	< 10	2	16	0.79	2.22
1225019070	105	2.78	< 10	< 1	0.17	10	0.89	0.060	0.035	0.75	< 2	1	31	0.03	< 1	< 2	< 10	16	< 10	2	8	0.44	0.76
1225019001	115	2.29	< 10	< 1	0.23	11	0.91	0.064	0.041	1.22	< 2	2	33	0.02	1	< 2	< 10	16	< 10	2	13	0.40	1.09
1232019247	147	2.00	< 10	< 1	0.24	18	0.70	0.120	0.048	0.24	< 2	2	75	0.07	2	< 2	< 10	23	< 10	3	7	0.31	0.21
1225027002	92	2.73	< 10	< 1	0.21	15	1.08	0.125	0.039	1.24	< 2	1	40	< 0.01	2	< 2	< 10	14	< 10	3	5	0.27	1.16
1324001157	118	2.82	< 10	< 1	0.27	16	0.35	0.150	0.045	3.01	2	< 1	87	0.01	2	< 2	< 10	6	< 10	3	18	0.27	2.78
1324001081	77	1.63	< 10	< 1	0.15	16	0.31	0.172	0.042	0.39	< 2	< 1	143	0.03	< 1	< 2	< 10	8	< 10	2	4	0.23	0.36
1324001278	106	2.51	< 10	1	0.27	15	0.70	0.038	0.044	2.72	< 2	< 1	26	< 0.01	5	< 2	< 10	5	< 10	2	9	0.72	2.47
1232019182	79	2.57	< 10	< 1	0.32	19	1.02	0.080	0.054	1.53	< 2	2	32	0.04	1	< 2	< 10	18	< 10	3	13	0.18	1.41
1324001062	63	2.35	< 10	< 1	0.16	15	0.62	0.109	0.042	0.63	< 2	< 1	99	0.04	< 1	< 2	< 10	9	< 10	2	5	0.14	0.59
1232019316	140	3.23	< 10	< 1	0.28	18	1.10	0.090	0.056	1.00	< 2	4	52	0.12	2	< 2	< 10	50	< 10	5	13	0.50	0.90
1225019141	150	4.78	< 10	1	1.38	69	2.51	0.122	0.215	0.40	2	10	198	0.21	2	< 2	< 10	101	< 10	8	6	0.84	0.42
1232019333	192	2.61	< 10	< 1	0.42	17	1.06	0.065	0.056	1.92	2	1	29	0.04	< 1	< 2	< 10	17	< 10	2	17	0.18	1.78
1324001374	95	2.62	< 10	< 1	0.23	14	0.69	0.066	0.046	2.61	< 2	< 1	37	< 0.01	3	< 2	< 10	6	< 10	2	10	0.70	2.28
1232019061	156	1.83	< 10	< 1	0.28	19	0.47	0.083	0.043	0.02	< 2	1	37	0.09	< 1	< 2	< 10	18	< 10	2	15	0.41	0.02
1324001368	49	2.40	< 10	< 1	0.25	14	0.75	0.060	0.042	2.62	< 2	< 1	48	< 0.01	4	< 2	< 10	5	< 10	3	19	0.69	2.40
1225019138	80	2.68	< 10	1	0.21	10	0.95	0.268	0.034	0.67	< 2	< 1	109	0.03	2	< 2	< 10	11	< 10	2	14	0.15	0.63
F000747																							
1324001341	128	2.19	< 10	< 1	0.22	17	0.48	0.083	0.048	2.26	3	< 1	54	< 0.01	10	< 2	< 10	5	< 10	2	9	0.66	2.04
1324001326	166	2.25	< 10	< 1	0.23	15	0.40	0.187	0.044	2.40	< 2	< 1	78	< 0.01	2	< 2	< 10	5	< 10	2	5	0.64	2.12
1324001071	127	2.10	< 10	< 1	0.18	16	0.62	0.172	0.044	1.12	< 2	< 1	178	< 0.01	< 1	< 2	< 10	8	< 10	2	3	0.15	0.98
1225019053	162	3.27	< 10	2	0.28	17	0.99	0.136	0.047	1.27	2	2	60	0.04	< 1	< 2	< 10	17	< 10	2	12	0.23	1.22
1324001010	134	2.34	< 10	< 1	0.16	16	0.65	0.136	0.042	0.47	< 2	< 1	127	0.03	2	< 2	< 10	10	< 10	2	4	0.20	0.46
1225019121	138	3.76	< 10	< 1	0.86	46	1.62	0.128	0.137	1.05	< 2	6	150	0.13	< 1	< 2	< 10	60	< 10	5	13	0.44	0.99
1324001194	199	2.08	< 10	< 1	0.17	15	0.25	0.268	0.045	1.41	< 2	< 1	283	0.01	2	< 2	< 10	8	< 10	3	9	0.34	1.24
1324001316	110	2.50	< 10	< 1	0.25	17	1.02	0.194	0.048	2.23	3	< 1	77	< 0.01	< 1	< 2	< 10	10	< 10	3	8	0.47	2.03
1231034261	110	2.27	< 10	< 1	0.36	17	0.34	0.029	0.048	1.99	3	< 1	15	< 0.01	3	< 2	< 10	5	< 10	2	14	0.48	1.79
1324001016	102	2.41	< 10	< 1	0.13	17	0.63	0.140	0.046	0.78	< 2	< 1	100	0.02	2	< 2	< 10	10	< 10	2	5	0.32	0.77
1324003070	103	2.98	< 10	< 1	0.19	14	0.77	0.154	0.044	2.98	3	< 1	53	0.06	1	< 2	< 10	7	< 10	2	21	0.27	2.72
1324001040	78	2.22	< 10	< 1	0.11	16	1.00	0.196	0.049	1.73	< 2	1	85	< 0.01	< 1	< 2	< 10	11	< 10	2	15	0.23	1.62
F000748																							
1324001287	37	2.24	< 10	< 1	0.21	15	0.38	0.083	0.048	2.52	5	< 1	51	< 0.01	8	< 2	< 10	3	< 10	2	15	0.65	2.21
1232019146	96	2.26	< 10	< 1	0.22	14	0.59	0.083	0.045	1.53	< 2	2	33	0.04	< 1	< 2	< 10	18	< 10	3	13	0.56	1.40
1225022010	55	3.76	< 10	< 1	0.22	12	1.21	0.091	0.040	1.23	< 2	1	59	< 0.01	< 1	< 2	< 10	14	< 10	2	11	0.34	1.11
1225019090	248	2.93	< 10	< 1	0.31	13	0.93	0.131	0.038	1.82	< 2	1	53	0.03	< 1	< 2	< 10	15	< 10	2	17	0.29	1.64
1232019034	59	2.20	< 10	< 1	0.34	12	0.63	0.085	0.037	1.86	< 2	1	18	0.04	2	< 2	< 10	14	11	2	16	0.32	1.68
1225019023	52	2.33	< 10	< 1	0.22	14	0.93	0.197	0.041	1.34	< 2	1	79	0.02	2	< 2	< 10	16	< 10	2	8	0.46	1.20
1232019253	62	1.98	< 10	< 1	0.26	19	0.79	0.086	0.048	0.13	< 2	2	60	0.08	2	< 2	< 10	24	< 10	3	11	0.59	0.15
1225022187	44	3.55	< 10	1	0.21	< 10	0.66	0.119	0.034	1.87	< 2	< 1	92	0.02	< 1	< 2	< 10	8	< 10	2	17	0.30	1.75
1225022364	60	3.26	< 10	2	0.22	12	0.70	0.097	0.035	1.77	< 2	< 1	63	0.02	1	< 2	< 10	8	< 10	2	16	0.23	1.59
1232019223	537	2.58	< 10	< 1	0.38	18	0.85	0.138	0.049	0.27	2	2	59	0.09	1	< 2	< 10	31	< 10	3	15	0.40	0.27
1225019010	95	2.05	< 10	< 1	0.36	15	1.20	0.064	0.040	0.59	< 2	2	33	0.03	1	< 2	< 10	17	< 10	2	6	0.46	0.52
1225027010	54	3.34	< 10	< 1	0.22	14	1.35	0.154	0.039	2.21	< 2	< 1	58	0.03	< 1	< 2	< 10	10	< 10	2	17	0.17	2.03
1225027138	109	2.86	< 10	1	0.21	14	1.14	0.289	0.039	1.89	2	< 1	131	0.01	2	< 2	< 10	11	< 10	2	13	0.26	1.74
1225019067	86	3.53	< 10	1	0.23	12	0.87	0.093	0.040	1.82	< 2	1	46	0.02	2	< 2	< 10	11	< 10	2	13	0.25	1.63
1225019020	66	2.22	< 10	< 1	0.29	14	1.28	0.061	0.039	0.43	< 2	2	28	0.03	1	< 2	< 10	20	< 10	2	9	0.41	0.39
1232019171	89	1.86	< 10	< 1	0.30	19	0.57	0.069	0.048	0.21	< 2	2	32	0.09	2	< 2	< 10	22	< 10	2	11	0.28	0.20

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324001310	98	2.35	< 10	< 1	0.23	18	0.49	0.091	0.047	2.29	< 2	< 1	51	< 0.01	3	< 2	< 10	7	< 10	3	9	0.62	2.02
1324001244	243	2.35	< 10	< 1	0.17	17	1.02	0.212	0.045	1.61	< 2	< 1	106	0.01	< 1	< 2	< 10	11	< 10	3	9	0.44	1.47
1232019094	220	2.30	< 10	< 1	0.34	12	0.59	0.080	0.039	1.83	< 2	1	17	0.04	< 1	< 2	< 10	16	13	2	15	0.29	1.64
1225019074	65	3.00	< 10	< 1	0.24	12	0.91	0.052	0.052	1.23	< 2	1	30	0.02	2	< 2	< 10	11	< 10	2	8	0.35	1.18
1324001167	69	2.56	< 10	< 1	0.15	16	0.70	0.161	0.049	2.63	3	< 1	62	< 0.01	2	< 2	< 10	7	< 10	3	13	0.35	2.37
F000726																							
1225016113	378	2.67	< 10	2	0.32	11	1.19	0.368	0.034	1.57	3	1	189	0.01	< 1	< 2	< 10	14	< 10	2	24	0.31	1.47
1225027160	171	5.39	< 10	2	0.09	< 10	1.88	0.471	0.022	0.26	< 2	6	67	0.22	< 1	< 2	< 10	125	< 10	4	5	0.17	0.27
1225016170	294	2.96	< 10	< 1	0.24	11	1.28	0.202	0.034	1.53	2	1	85	< 0.01	2	< 2	< 10	13	< 10	2	14	0.29	1.37
1225022126	176	3.71	< 10	< 1	0.92	42	1.62	0.139	0.133	1.18	< 2	6	122	0.12	< 1	< 2	< 10	57	< 10	5	9	0.66	1.10
1225022028	196	2.61	< 10	< 1	0.29	14	0.80	0.238	0.044	2.02	< 2	1	90	0.02	3	< 2	< 10	14	< 10	2	11	0.33	1.84
1225027107	104	2.93	< 10	< 1	0.54	34	0.56	0.092	0.060	2.12	< 2	< 1	109	< 0.01	1	< 2	< 10	9	< 10	4	5	0.54	1.93
1225016105	216	3.51	< 10	< 1	0.44	12	1.52	0.254	0.036	1.51	2	1	87	0.01	< 1	< 2	< 10	17	< 10	2	19	0.23	1.49
1225022339	259	3.73	< 10	< 1	0.64	11	0.66	0.158	0.033	1.59	2	1	96	0.03	2	< 2	< 10	13	< 10	2	22	0.21	1.53
1225027045	227	4.21	< 10	2	0.36	< 10	1.27	0.339	0.030	1.22	< 2	4	46	0.10	< 1	< 2	< 10	66	< 10	3	12	0.17	1.09
1225022201	447	2.64	10	2	0.40	13	0.93	0.328	0.038	1.05	< 2	1	168	0.01	1	< 2	< 10	17	< 10	2	13	0.18	0.94
1225022361	220	3.56	< 10	< 1	0.38	< 10	0.56	0.104	0.034	2.25	2	< 1	66	0.02	< 1	< 2	< 10	9	< 10	2	20	0.16	2.06
1225027046	263	5.13	< 10	< 1	0.05	< 10	1.81	0.580	0.022	0.23	< 2	6	68	0.22	< 1	< 2	< 10	127	< 10	4	5	0.20	0.25
1225028123	378	2.69	< 10	1	0.43	13	0.87	0.335	0.040	1.47	2	2	208	0.02	1	< 2	< 10	19	< 10	2	12	0.40	1.35
1225022066	162	3.22	< 10	< 1	0.28	17	0.99	0.119	0.048	1.70	2	1	60	0.05	1	< 2	< 10	13	< 10	2	14	0.17	1.48
1433003053	199	9.96	10	< 1	0.73	< 10	2.12	0.334	0.058	2.38	5	15	99	0.21	1	< 2	< 10	198	< 10	10	5	2.57	2.67
1225022030	488	4.20	< 10	< 1	1.37	54	2.39	0.216	0.160	0.43	< 2	10	223	0.18	3	< 2	< 10	83	< 10	7	8	0.62	0.46
1225022247	350	4.37	< 10	1	0.56	< 10	0.79	0.054	0.032	2.82	2	1	23	< 0.01	< 1	< 2	< 10	17	< 10	2	15	0.43	2.70
1433003006	136	8.02	< 10	2	0.36	< 10	2.67	0.254	0.038	0.69	5	10	62	0.18	< 1	< 2	< 10	116	< 10	7	6	1.81	0.76
1225022013	267	3.50	< 10	< 1	0.34	< 10	0.79	0.257	0.034	1.03	< 2	1	141	0.05	1	< 2	< 10	17	< 10	2	20	0.24	0.96
1225022259	269	3.54	< 10	2	0.60	< 10	0.57	0.074	0.032	2.31	3	< 1	45	0.03	1	< 2	< 10	9	< 10	2	21	0.22	2.19
1225022113	283	3.49	< 10	2	0.60	12	0.94	0.116	0.034	1.89	< 2	1	59	0.03	2	< 2	< 10	13	< 10	2	24	0.24	1.80
1225022355	342	3.45	< 10	< 1	0.48	10	0.59	0.121	0.032	1.74	2	< 1	81	0.03	< 1	< 2	< 10	10	< 10	2	18	0.23	1.69
F000729	11	4.04	< 10	1	0.29	11	0.66	0.228	0.071	0.07	< 2	5	33	0.43	2	< 2	< 10	116	< 10	16	18		
1225016032	83	2.67	< 10	< 1	0.19	13	1.21	0.257	0.036	1.53	< 2	1	125	< 0.01	< 1	< 2	< 10	12	< 10	2	7	0.21	1.44
1225016006	996	4.47	< 10	< 1	0.36	< 10	0.88	0.232	0.035	1.93	4	1	132	0.01	< 1	2	< 10	17	< 10	2	20	0.23	1.80
1225028011	52	2.07	< 10	< 1	0.45	14	1.20	0.079	0.040	1.98	< 2	< 1	48	< 0.01	2	< 2	< 10	9	< 10	2	12	0.55	1.79
1225016068	465	2.82	< 10	< 1	0.31	11	0.84	0.081	0.035	0.96	3	1	46	< 0.01	< 1	< 2	< 10	13	< 10	3	10	0.21	0.94
1225016223	47	2.25	< 10	< 1	0.26	14	1.12	0.189	0.038	1.11	< 2	1	99	0.03	< 1	< 2	< 10	12	< 10	3	6	0.31	1.05
1225028062	170	2.82	< 10	2	0.37	12	1.17	0.177	0.037	1.88	2	1	93	< 0.01	3	< 2	< 10	16	< 10	2	18	0.23	1.15
1225016258	142	3.06	< 10	1	0.43	14	1.18	0.158	0.038	1.99	< 2	1	80	0.01	2	< 2	< 10	13	< 10	2	11	0.29	1.82
1225016287	169	2.22	< 10	< 1	0.34	12	1.09	0.248	0.037	1.42	2	1	117	< 0.01	1	< 2	< 10	13	< 10	2	8	0.20	1.17
1225016204	231	3.00	< 10	1	0.30	13	1.11	0.177	0.040	1.87	2	1	89	< 0.01	2	< 2	< 10	11	< 10	2	8	0.28	1.76
1225016086	321	2.92	< 10	< 1	0.32	10	0.94	0.191	0.037	2.13	< 2	1	82	< 0.01	< 1	< 2	< 10	12	< 10	2	15	0.31	1.94
1225028074	227	2.64	< 10	< 1	0.35	12	0.77	0.273	0.038	1.86	< 2	2	168	< 0.01	1	< 2	< 10	18	< 10	2	17	0.38	1.74
1225016238	151	2.66	< 10	2	0.41	13	1.00	0.293	0.047	1.82	3	2	161	0.01	1	< 2	< 10	21	< 10	3	21	0.09	1.75
1433003029	99	9.66	< 10	2	0.09	< 10	2.50	0.084	0.047	1.82	5	10	48	0.06	< 1	< 2	< 10	126	< 10	9	5	2.03	2.08
1225018046	559	2.47	< 10	< 1	0.24	12	0.71	0.250	0.039	1.17	4	1	114	0.04	2	< 2	< 10	18	< 10	2	16	0.29	1.15
1225016135	285	3.10	< 10	< 1	0.26	14	0.95	0.161	0.039	1.45	3	1	129	< 0.01	< 1	< 2	< 10	16	< 10	2	12	0.30	1.48
1225028022	82	2.54	< 10	< 1	0.22	14	0.76	0.244	0.040	1.76	< 2	< 1	128	< 0.01	2	< 2	< 10	12	< 10	2	8	0.24	1.80
1225027098	139	2.78	< 10	< 1	0.21	16	0.95	0.144	0.043	1.83	< 2	1	52	< 0.01	1	< 2	< 10	12	< 10	3	14	0.21	1.84
1225016198	144	2.79	< 10	< 1	0.26	11	1.38	0.071	0.034	1.20	< 2	< 1	46	0.01	2	< 2	< 10	12	< 10	2	15	0.22	1.22
1225016094	224	2.36	< 10	< 1	0.38	25	0.90	0.217	0.096	1.26	2	2	170	0.02	< 1	< 2	< 10	23	< 10	4	2	0.48	1.25
1225016077	137	3.53	< 10	2	0.19	13	0.82	0.095	0.035	1.95	2	< 1	72	< 0.01	< 1	< 2	< 10	10	< 10	2	13	0.34	2.10
1433003095	193	2.84	< 10	< 1	0.40	19	0.93	0.119	0.044	1.94	< 2	1	92	< 0.01	< 1	< 2	< 10	11	< 10	2	24	0.41	1.99
1225022276	127	5.12	< 10	2	0.30	15	2.13	0.040	0.044	3.79	3	2	17	< 0.01	2	< 2	< 10	19	< 10	4	25	0.14	4.22

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225027093	175	3.12	< 10	< 1	0.65	12	0.89	0.066	0.036	2.53	< 2	1	43	< 0.01	< 1	< 2	< 10	11	< 10	2	22	0.18	2.75
F000736	12	3.06	< 10	< 1	0.21	< 10	0.51	0.284	0.057	0.06	< 2	4	39	0.45	5	< 2	< 10	92	< 10	15	26		
1225022309	393	3.48	< 10	< 1	0.42	< 10	0.62	0.099	0.031	1.90	3	1	68	0.03	1	< 2	< 10	11	< 10	2	22	0.21	1.86
1225022166	508	2.84	< 10	< 1	0.47	14	0.66	0.077	0.036	2.05	3	< 1	35	0.03	3	< 2	< 10	9	< 10	2	20	0.10	1.93
1225027081	244	2.38	< 10	< 1	0.47	12	1.31	0.259	0.033	1.38	< 2	1	85	0.01	2	< 2	< 10	15	< 10	2	21	0.21	1.44
1225022141	187	3.44	< 10	1	0.23	10	1.05	0.050	0.035	1.38	< 2	1	36	< 0.01	1	< 2	< 10	13	< 10	1	12	0.33	1.44
1225027120	351	2.20	< 10	< 1	0.35	16	1.02	0.267	0.038	1.45	2	2	101	< 0.01	< 1	< 2	< 10	15	< 10	2	19	0.20	1.45
1225022184	372	3.15	< 10	1	0.61	12	0.80	0.072	0.036	2.03	2	1	40	0.04	5	< 2	< 10	13	< 10	2	27	0.34	2.08
1232019107	438	2.14	< 10	< 1	0.43	18	0.59	0.099	0.042	0.10	3	2	43	0.12	2	< 2	< 10	23	< 10	2	16	0.51	0.10
1232019092	405	2.27	< 10	< 1	0.31	14	0.74	0.111	0.044	1.26	3	2	33	0.04	< 1	< 2	< 10	26	< 10	3	13	0.28	1.31
1232019136	68	1.94	< 10	< 1	0.32	17	0.77	0.080	0.044	0.16	< 2	2	34	0.09	2	< 2	< 10	25	< 10	3	12	0.51	0.18
1225022004	305	2.65	10	1	0.37	10	0.93	0.202	0.036	0.84	< 2	1	165	< 0.01	1	< 2	< 10	18	< 10	2	13	0.30	0.89
1225022290	308	3.54	< 10	2	0.52	< 10	0.59	0.095	0.029	2.11	2	< 1	52	0.03	2	< 2	< 10	10	< 10	2	22	0.25	2.25
1433003126	129	8.63	10	2	0.12	< 10	1.72	0.322	0.063	0.34	4	26	28	0.27	2	< 2	< 10	270	< 10	16	7	0.52	0.41
1225022213	269	3.58	< 10	2	0.32	< 10	0.52	0.115	0.031	2.15	2	< 1	78	0.02	1	< 2	< 10	9	< 10	2	20	0.22	1.48
1225027077	402	2.48	< 10	< 1	0.23	< 10	1.21	0.265	0.032	1.26	3	< 1	95	< 0.01	< 1	< 2	< 10	13	< 10	2	20	0.30	1.34
1225022372	250	3.72	< 10	2	0.24	10	0.90	0.097	0.032	1.86	3	< 1	61	0.02	2	< 2	< 10	11	< 10	2	19	0.24	1.77
1225027118	177	1.90	< 10	< 1	0.19	14	0.67	0.123	0.038	1.66	< 2	< 1	58	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.10	1.72
1225022379	35	4.22	< 10	2	0.21	13	1.55	0.062	0.044	3.06	3	2	39	0.03	6	< 2	< 10	28	< 10	5	24	0.11	3.14
1225013410	376	3.72	< 10	2	0.37	13	1.45	0.081	0.034	2.67	3	1	20	< 0.01	2	< 2	< 10	17	< 10	3	19	0.14	1.90
1225015024	195	3.24	< 10	< 1	0.39	17	1.19	0.056	0.047	3.03	< 2	1	31	< 0.01	< 1	< 2	< 10	12	< 10	2	23	0.53	2.20
1225010045	216	2.25	< 10	< 1	0.29	23	0.87	0.049	0.052	0.96	3	1	61	0.02	2	< 2	< 10	14	< 10	3	17	0.27	1.00
1225011068	417	2.47	< 10	< 1	0.12	13	0.64	0.103	0.036	1.70	2	1	34	0.02	2	< 2	< 10	15	< 10	3	17	0.19	1.76
1225015119	356	2.41	< 10	< 1	0.32	14	0.72	0.049	0.040	2.32	4	< 1	28	< 0.01	1	< 2	< 10	8	< 10	3	11	1.02	2.31
1433002103	246	2.28	< 10	< 1	0.36	13	0.89	0.150	0.037	0.34	< 2	2	54	0.10	1	< 2	< 10	24	< 10	3	15	0.38	0.35
1225013355	474	3.47	< 10	2	0.36	14	1.36	0.095	0.039	2.13	3	1	32	0.02	1	< 2	< 10	19	< 10	3	22	0.17	2.27
1225015115	262	2.52	< 10	< 1	0.41	16	0.98	0.132	0.043	1.73	3	1	55	0.03	< 1	< 2	< 10	17	< 10	3	15	0.60	1.70
1225015150	254	2.19	< 10	< 1	0.34	11	1.13	0.093	0.032	0.61	2	1	55	0.02	< 1	< 2	< 10	16	< 10	2	16	0.22	0.63
1225013224	470	4.67	< 10	1	0.22	12	1.23	0.190	0.048	3.33	3	2	67	0.06	1	< 2	< 10	34	< 10	5	19	0.29	3.54
1225015128	430	2.62	< 10	< 1	0.30	12	0.31	0.045	0.045	2.62	3	< 1	28	< 0.01	< 1	< 2	< 10	8	< 10	3	14	1.12	2.60
1225013315	347	3.46	< 10	< 1	0.38	14	1.23	0.062	0.041	2.42	3	1	27	< 0.01	< 1	< 2	< 10	14	< 10	3	24	0.15	2.59
1225013401	460	2.32	< 10	< 1	0.28	15	0.75	0.162	0.043	1.97	< 2	< 1	46	< 0.01	2	< 2	< 10	10	< 10	3	27	0.32	2.01
1225011109	522	3.21	< 10	1	0.15	22	0.93	0.155	0.054	1.49	2	2	48	< 0.01	2	< 2	< 10	20	< 10	4	19	0.24	1.60
1225013245	292	4.49	< 10	1	0.06	< 10	1.78	0.538	0.019	0.18	3	6	65	0.20	< 1	< 2	< 10	119	< 10	4	4	0.17	0.21
1225013379	414	3.16	< 10	1	0.36	20	1.12	0.122	0.042	2.75	2	1	34	0.02	1	< 2	< 10	16	< 10	3	23	0.18	2.67
1225011161	710	2.51	< 10	< 1	0.20	12	0.71	0.081	0.038	1.47	4	1	24	< 0.01	< 1	< 2	< 10	18	< 10	2	19	0.37	1.54
1225013250	417	4.41	< 10	< 1	0.50	< 10	0.99	0.059	0.033	2.75	3	2	23	0.03	3	< 2	< 10	31	< 10	2	19	0.29	2.85
1225015038	327	2.29	< 10	< 1	0.53	13	1.01	0.096	0.039	0.89	< 2	3	40	0.08	< 1	< 2	< 10	29	< 10	3	13	0.25	0.93

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	68	1100	3	25	90	123	7.85	212	< 10	823	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	64	974	2	24	84	112	6.62	215	< 10	737	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	68	1020	1	25	87	114	7.10	229	< 10	783	0.8	3	0.14	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	64	989	1	24	83	120	6.73	229	< 10	754	0.8	2	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Meas																							
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SGR-1b Meas																							
SGR-1b Cert																							
OREAS 98 (S by LECO) Meas																							
OREAS 98 (S by LECO) Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.2				8.67																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.2				8.65																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2080	722	< 1	36	55	240	2.72	5		75	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2170	772	< 1	36	58	246	3.01	6		85	0.7	15	0.41	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2120	720	< 1	32	59	249	2.77	6		85	0.7	9	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4310	853	< 1	32	77	311	2.97	7		68	0.7	18	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	1.0	4330	856	< 1	33	82	331	2.90	6		73	0.7	15	0.41	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.1		> 10000				84	401						42		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua								10.1		> 10000				77	382						34		45

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.3		> 10000				89	419						< 2		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								61.9	284	3330	532	13	18	> 5000	> 10000	1.82	71			0.5	5	1.63	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								62.8	272	3380	507	12	23	> 5000	> 10000	1.67	70			0.5	4	1.56	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								63.7	279	3490	525	12	23	> 5000	> 10000	1.77	72			0.5	4	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								64.6	279	3480	500	12	25	> 5000	> 10000	1.79	75			0.6	< 2	1.61	27
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										328	161	< 1	230	8	24	7.02			127	0.9	6	0.06	38
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2890																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							510																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							524																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							528																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							504																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							496																
Oreas E1336 (Fire Assay) Cert							510																
1225019137 Orig								0.6	< 0.5	74	423	< 1	15	5	53	2.26	17	< 10	32	< 0.5	5	1.17	10
1225019137 Dup								0.6	< 0.5	69	417	< 1	15	5	54	2.25	17	< 10	31	< 0.5	6	1.16	10
1225027002 Orig							127																
1225027002 Dup							138																
1324001157 Orig																							
1324001157 Dup																							
1232019316 Orig								0.6	1.1	46	500	< 1	30	13	222	1.98	12	< 10	51	< 0.5	< 2	1.63	15
1232019316 Dup								0.5	1.2	49	497	< 1	30	12	223	1.95	12	< 10	45	< 0.5	< 2	1.63	15
1232019061 Orig							< 5																
1232019061 Dup							< 5																
1324001341 Orig							739	14.5	1.3	60	1160	< 1	15	73	312	1.20	18	< 10	28	< 0.5	3	2.03	9
1324001341 Dup							680	15.3	1.5	61	1180	< 1	15	78	325	1.23	21	< 10	19	< 0.5	2	2.07	10
1324001194 Orig								0.6	< 0.5	16	399	< 1	13	9	83	2.26	21	< 10	53	< 0.5	4	1.33	10
1324001194 Dup								0.6	< 0.5	16	403	< 1	13	9	86	2.27	21	< 10	50	< 0.5	4	1.33	9
1324001016 Orig																							
1324001016 Dup																							
1324001287 Orig								7.2	3.0	54	1200	< 1	14	136	758	1.11	54	< 10	28	< 0.5	3	2.14	12
1324001287 Dup								7.5	2.9	54	1160	< 1	14	145	735	1.07	54	< 10	33	< 0.5	3	2.08	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1225022187 Orig																							
1225022187 Dup																							
1225027138 Orig	48.8	10.2	-38.6	53.3	0.192																		
1225027138 Dup	48.8	10.2	-38.6	53.3	0.192																		
1324001310 Orig								1.2	0.7	41	575	2	16	18	173	1.21	21	< 10	27	< 0.5	< 2	1.82	11
1324001310 Dup								1.2	0.5	39	569	2	16	16	154	1.20	21	< 10	32	< 0.5	< 2	1.80	11
1232019094 Orig																							
1232019094 Dup																							
1225016113 Orig								0.8	< 0.5	165	309	8	24	2	74	3.66	6	< 10	37	< 0.5	3	1.86	10
1225016113 Dup								0.8	< 0.5	162	306	8	23	4	73	3.64	6	< 10	40	< 0.5	2	1.83	9
1225027045 Orig								0.5	< 0.5	141	424	< 1	32	< 2	110	4.09	4	< 10	59	< 0.5	4	2.01	14
1225027045 Dup								0.6	< 0.5	143	429	< 1	32	< 2	112	4.17	3	< 10	51	< 0.5	4	2.03	14
1225022013 Orig																							
1225022013 Dup																							
1225022355 Orig							902	0.7	< 0.5	290	290	1	15	4	37	3.14	5	< 10	22	< 0.5	5	1.03	6
1225022355 Dup							1000	0.7	< 0.5	283	290	2	14	< 2	37	3.12	6	< 10	22	< 0.5	6	1.03	6
1225016258 Orig																							
1225016258 Dup																							
1225016204 Orig							226																
1225016204 Dup							230																
1433003029 Orig							23	0.4	< 0.5	69	1380	< 1	118	4	169	4.04	18	< 10	18	< 0.5	4	4.38	42
1433003029 Dup							21	0.4	0.5	70	1390	< 1	117	5	174	4.07	17	< 10	19	< 0.5	3	4.24	42
1225028022 Orig	50.6	12.7	-37.9	55.1	0.230																		
1225028022 Dup	50.6	12.6	-38.0	55.1	0.228																		
1225016198 Orig																							
1225016198 Dup																							
1225027120 Orig								0.4	< 0.5	54	231	1	17	3	80	2.72	5	< 10	74	< 0.5	4	0.98	9
1225027120 Dup								0.3	< 0.5	55	236	1	17	6	81	2.88	5	< 10	73	< 0.5	3	1.01	8
1225022004 Orig							91																
1225022004 Dup							84																
1225027118 Orig																							
1225027118 Dup																							
1225015024 Orig								3.8	< 0.5	16	836	< 1	26	30	122	1.88	89	< 10	35	< 0.5	< 2	1.94	11
1225015024 Dup								2.8	0.6	16	834	< 1	25	30	123	1.87	91	< 10	33	< 0.5	< 2	1.94	12
1225010045 Orig							186																
1225010045 Dup							185																
1225013355 Orig							124																
1225013355 Dup							137																
1225015150 Orig																							
1225015150 Dup																							
1225015128 Orig																							
1225015128 Dup																							
1225013245 Orig								< 0.2	< 0.5	125	510	1	54	< 2	49	5.39	< 2	< 10	21	< 0.5	2	3.54	23
1225013245 Dup								0.2	< 0.5	119	501	< 1	56	< 2	49	5.18	< 2	< 10	20	< 0.5	3	3.53	23
1225013250 Orig	80.6	11.2	-69.4	87.3	0.128																		
1225013250 Dup	80.6	11.5	-69.1	87.3	0.132																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	6.14	10	1	1.07	< 10	0.37	0.146	0.035	0.01	4	18	31		< 1	3	< 10	159	< 10	4	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	70	5.15	10	2	0.98	< 10	0.35	0.142	0.031	0.01	3	17	29		< 1	< 2	< 10	151	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	73	5.59	10	< 1	1.08	< 10	0.37	0.150	0.033	0.01	4	18	31		< 1	< 2	< 10	160	< 10	4	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	72	5.24	10	< 1	1.05	< 10	0.38	0.133	0.032	0.01	3	20	28		< 1	2	< 10	155	< 10	5	12		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
SGR-1b Meas																						27.6	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.55
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.1	1.57
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.9	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.60
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.59
SGR-1b Cert																						28	1.53
OREAS 98 (S by LECO) Meas																							16.0
OREAS 98 (S by LECO) Cert																							16.0
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.56
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	4.73	< 10		0.44	35	1.20	0.033	0.058	0.31	2	3	15			< 2	< 10	32	< 10	19	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.19	< 10		0.48	38	1.25	0.036	0.063	0.36	3	4	16			< 2	< 10	35	< 10	20	25		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	42	4.95	< 10		0.47	37	1.28	0.036	0.058	0.36	3	4	15			< 2	< 10	33	< 10	18	21		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	39	5.85	< 10		0.40	34	1.30		0.058	0.65	2	4	14			< 2	< 10	33	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.86	< 10		0.42	36	1.44		0.058	0.69	3	4	14			< 2	< 10	34	< 10	18	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.55	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.75	7												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.66	6												

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	15	3.37	< 10	3	0.32	19	0.39	0.171	0.033	4.64	98	2	19			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	26	3.08	< 10	3	0.32	19	0.39	0.172	0.031	4.23	107	2	19			< 2	< 10	11	< 10	7	59		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	24	3.29	< 10	5	0.33	20	0.40	0.178	0.033	4.50	99	2	20			< 2	< 10	11	< 10	7	58		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.28	< 10	3	0.36	20	0.43	0.188	0.031	4.53	118	2	19			< 2	< 10	12	< 10	7	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	315	13.1	20	< 1	0.10	< 10	0.16	0.050	0.020	0.02		24	13	0.11		< 2	< 10	190		4	26		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.34
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1225019137 Orig	91	2.96	< 10	< 1	0.29	15	0.86	0.192	0.045	1.98	< 2	2	74	0.02	2	< 2	< 10	15	< 10	2	19		
1225019137 Dup	91	2.93	< 10	< 1	0.29	15	0.85	0.189	0.045	1.96	< 2	2	73	0.02	< 1	< 2	< 10	15	< 10	2	20		
1225027002 Orig																							
1225027002 Dup																							
1324001157 Orig																						0.28	2.72
1324001157 Dup																						0.26	2.84
1232019316 Orig	140	3.27	< 10	< 1	0.28	18	1.11	0.091	0.055	1.02	< 2	4	52	0.12	1	< 2	< 10	51	< 10	5	13		
1232019316 Dup	140	3.19	< 10	< 1	0.28	18	1.10	0.089	0.056	0.98	< 2	4	52	0.12	3	< 2	< 10	50	< 10	5	12		
1232019061 Orig																							
1232019061 Dup																							
1324001341 Orig	128	2.15	< 10	< 1	0.22	17	0.48	0.083	0.048	2.21	3	< 1	53	< 0.01	11	< 2	< 10	4	< 10	2	12		
1324001341 Dup	128	2.22	< 10	< 1	0.23	18	0.49	0.083	0.048	2.30	4	< 1	55	< 0.01	10	< 2	< 10	5	< 10	2	6		
1324001194 Orig	198	2.06	< 10	< 1	0.17	15	0.24	0.269	0.045	1.42	< 2	< 1	284	0.01	2	< 2	< 10	8	< 10	3	10		
1324001194 Dup	200	2.09	< 10	< 1	0.17	15	0.25	0.267	0.045	1.41	< 2	< 1	282	0.01	2	< 2	< 10	8	< 10	3	9		
1324001016 Orig																						0.32	0.77
1324001016 Dup																						0.32	0.76
1324001287 Orig	36	2.25	< 10	< 1	0.21	15	0.38	0.084	0.049	2.54	5	< 1	52	< 0.01	7	< 2	< 10	3	< 10	2	13		
1324001287 Dup	39	2.23	< 10	< 1	0.21	15	0.38	0.081	0.047	2.51	5	< 1	51	< 0.01	9	< 2	< 10	3	< 10	2	16		
1225022187 Orig																						0.30	1.73
1225022187 Dup																						0.30	1.77
1225027138 Orig																							
1225027138 Dup																							
1324001310 Orig	98	2.34	< 10	< 1	0.23	18	0.50	0.089	0.046	2.28	< 2	< 1	51	< 0.01	3	< 2	< 10	7	< 10	3	7		
1324001310 Dup	98	2.36	< 10	< 1	0.23	17	0.49	0.093	0.047	2.31	< 2	< 1	51	< 0.01	2	< 2	< 10	7	< 10	3	11		
1232019094 Orig																						0.29	1.63
1232019094 Dup																						0.29	1.65
1225016113 Orig	380	2.68	< 10	2	0.32	12	1.20	0.368	0.034	1.57	3	1	189	0.01	< 1	< 2	< 10	14	< 10	2	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1225016113 Dup	376	2.66	< 10	1	0.32	11	1.19	0.369	0.034	1.56	2	1	189	0.01	< 1	< 2	< 10	14	< 10	2	25		
1225027045 Orig	227	4.15	< 10	2	0.36	< 10	1.25	0.339	0.030	1.20	< 2	4	46	0.10	< 1	< 2	< 10	66	< 10	3	12		
1225027045 Dup	227	4.28	< 10	2	0.36	< 10	1.29	0.340	0.030	1.24	< 2	4	46	0.10	2	< 2	< 10	66	< 10	3	12		
1225022013 Orig																						0.25	0.94
1225022013 Dup																						0.24	0.98
1225022355 Orig	344	3.44	< 10	2	0.49	11	0.59	0.123	0.032	1.75	2	< 1	82	0.03	< 1	< 2	< 10	10	< 10	2	18		
1225022355 Dup	341	3.46	< 10	< 1	0.48	10	0.59	0.120	0.033	1.73	2	< 1	80	0.03	< 1	< 2	< 10	10	< 10	2	18		
1225016258 Orig																						0.30	1.83
1225016258 Dup																						0.28	1.80
1225016204 Orig																							
1225016204 Dup																							
1433003029 Orig	98	9.66	< 10	2	0.09	< 10	2.49	0.081	0.048	1.93	4	10	48	0.06	< 1	< 2	< 10	125	< 10	9	5		
1433003029 Dup	100	9.66	< 10	2	0.09	< 10	2.52	0.087	0.047	1.71	6	10	48	0.07	< 1	< 2	< 10	128	< 10	9	6		
1225028022 Orig																							
1225028022 Dup																							
1225016198 Orig																						0.22	1.25
1225016198 Dup																						0.22	1.19
1225027120 Orig	348	2.17	< 10	< 1	0.35	16	1.02	0.266	0.038	1.43	3	2	99	< 0.01	< 1	< 2	< 10	15	< 10	2	19	0.20	1.45
1225027120 Dup	354	2.24	< 10	< 1	0.35	15	1.02	0.268	0.038	1.47	2	2	102	< 0.01	1	< 2	< 10	15	< 10	2	19	0.19	1.45
1225022004 Orig																							
1225022004 Dup																							
1225027118 Orig																						0.10	1.63
1225027118 Dup																						0.10	1.81
1225015024 Orig	196	3.23	< 10	< 1	0.39	17	1.20	0.056	0.047	3.05	3	1	31	< 0.01	< 1	< 2	< 10	13	< 10	2	23		
1225015024 Dup	195	3.25	< 10	< 1	0.39	17	1.18	0.055	0.047	3.01	< 2	1	31	< 0.01	< 1	< 2	< 10	12	< 10	2	23		
1225010045 Orig																							
1225010045 Dup																							
1225013355 Orig																							
1225013355 Dup																							
1225015150 Orig																						0.22	0.64
1225015150 Dup																						0.22	0.63
1225015128 Orig																						1.13	2.60
1225015128 Dup																						1.12	2.60
1225013245 Orig	290	4.58	< 10	1	0.06	< 10	1.79	0.544	0.019	0.18	3	6	66	0.20	1	< 2	< 10	120	< 10	4	4		
1225013245 Dup	293	4.40	< 10	2	0.06	< 10	1.77	0.532	0.018	0.18	3	6	65	0.19	< 1	< 2	< 10	117	< 10	4	4		
1225013250 Orig																							
1225013250 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	3	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-11585**
Report Date:	**11-Nov-20**
Date Submitted:	**24-Sep-20**
Your Reference:	**2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

187 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-10-05 20:04:07
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-10-06 21:41:24
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-15 14:32:26

REPORT **A20-11585**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Report No.: **A20-11585**
Report Date: **11-Nov-20**
Date Submitted: **24-Sep-20**
Your Reference: **2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

187 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-27 21:30:53
4F-C, S	Infrared	2020-10-05 21:08:26

REPORT **A20-11585**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0918-001							66	0.3	< 0.5	35	486	< 1	12	3	62	2.95	14	< 10	16	< 0.5	5	1.55	9
GC20-0911-002							343	0.8	< 0.5	336	405	< 1	14	< 2	65	2.81	14	< 10	17	< 0.5	6	0.93	10
1223001001	58.0	11.6	-46.4	68.9	0.168	8.43	320	1.2	19.4	174	287	2	15	12	4600	1.93	25	< 10	15	< 0.5	3	1.03	8
GC20-0922-001							208	1.0	< 0.5	635	452	< 1	12	6	74	3.20	14	< 10	16	< 0.5	7	1.62	8
GC20-0917-002							66	0.2	< 0.5	19	446	1	13	2	75	2.70	3	< 10	17	< 0.5	< 2	1.26	11
GC20-0916-011							116	0.5	4.5	57	700	< 1	12	3	1080	2.89	14	< 10	17	< 0.5	3	1.42	8
GC20-0915-002							73	0.5	< 0.5	181	473	2	13	2	136	2.00	6	< 10	18	< 0.5	< 2	1.15	9
GC20-0188-021							39	< 0.2	< 0.5	26	230	2	14	< 2	21	2.60	5	< 10	24	< 0.5	3	0.94	11
1231047017	12.1	22.7	10.6	15.0	1.51	9.39	21	0.4	0.8	22	633	< 1	37	4	237	1.67	6	< 10	65	< 0.5	< 2	1.32	10
GC20-0925-001							39	0.4	< 0.5	43	510	< 1	14	4	79	3.49	8	< 10	18	< 0.5	5	1.79	9
1223001208	56.8	53.8	-2.98	62.5	0.861	8.67	966	1.4	3.9	177	1160	< 1	14	67	813	1.85	59	< 10	17	< 0.5	< 2	2.49	9
1231046222	16.2	27.1	10.9	19.9	1.36	9.14	28	0.5	0.8	20	753	2	25	< 2	255	1.69	8	< 10	52	< 0.5	< 2	1.50	11
1231046155	9.69	13.8	4.10	9.49	1.45	9.06	13	< 0.2	< 0.5	50	491	< 1	45	< 2	62	3.19	2	< 10	41	< 0.5	< 2	1.95	17
1223001012	14.7	9.24	-5.45	14.4	0.642	9.00	35	< 0.2	< 0.5	7	509	< 1	9	29	81	3.10	13	< 10	30	< 0.5	< 2	1.59	8
1323002216	71.0	6.46	-64.6	79.9	0.0808	8.29	1960	1.0	13.6	59	635	< 1	14	39	3090	1.52	91	< 10	14	< 0.5	< 2	0.51	10
1323002245	49.2	4.60	-44.6	57.0	0.0807	8.19	> 5000	4.9	14.9	167	602	< 1	20	20	3650	1.50	128	< 10	19	< 0.5	< 2	0.21	12
1323003146	86.5	25.4	-61.1	107	0.237	8.29	186	1.7	33.7	74	398	< 1	15	12	7690	0.91	73	< 10	10	< 0.5	< 2	1.21	11
1323002165	70.8	31.4	-39.4	76.6	0.411	8.59	170	1.0	5.4	69	843	< 1	13	20	1090	1.46	44	< 10	14	< 0.5	3	1.66	9
1323003153	49.3	42.4	-6.85	58.5	0.725	8.70	546	0.7	17.9	62	894	< 1	11	9	4190	0.87	72	< 10	17	< 0.5	2	1.68	8
GC20-0928-013							579	1.6	< 0.5	259	473	< 1	9	8	61	1.72	12	< 10	15	< 0.5	10	0.96	8
F001602							1050	3.0	< 0.5	30	265	< 1	8	16	43	1.28	< 2	< 10	46	< 0.5	< 2	0.80	9
1324021049	63.8	17.9	-45.9	68.0	0.264	8.73	114	0.4	1.4	103	456	3	15	2	396	0.99	7	< 10	27	< 0.5	< 2	1.35	9
GC20-0141-018							1090	0.4	< 0.5	237	257	< 1	7	< 2	23	2.18	8	< 10	21	< 0.5	4	0.74	5
1323002080	64.4	52.3	-12.1	70.7	0.739	8.56	325	7.5	2.7	124	1530	1	13	254	681	0.88	68	< 10	16	< 0.5	< 2	1.97	9
1333099062	18.1	39.6	21.5	21.1	1.87	9.60	17	< 0.2	< 0.5	60	263	2	16	< 2	38	0.95	< 2	< 10	27	< 0.5	< 2	1.80	10
1324021135	52.4	18.5	-33.9	57.6	0.322	8.60	134	0.8	< 0.5	155	298	3	15	3	68	1.19	14	< 10	17	< 0.5	4	0.86	10
1323002084	59.2	62.3	3.13	64.9	0.959	8.72	341	5.7	1.4	36	1180	1	14	35	329	1.16	60	< 10	17	< 0.5	3	2.43	9
1324021079	72.4	4.79	-67.6	77.2	0.0620	8.23	368	1.2	< 0.5	257	250	< 1	19	< 2	74	2.19	5	< 10	20	< 0.5	9	0.96	10
1324021181	29.7	3.41	-26.3	32.8	0.104	8.51	160	0.8	< 0.5	228	532	2	12	< 2	112	2.53	7	< 10	31	< 0.5	8	0.38	8
1323003018	51.6	19.9	-31.7	55.7	0.357	8.25	170	1.5	2.1	36	711	2	14	12	474	1.63	27	< 10	19	< 0.5	3	1.13	10
1323003042	18.0	20.9	2.85	20.8	1.00	8.72	60	0.3	1.7	23	552	< 1	12	5	402	1.21	14	< 10	46	< 0.5	2	0.90	7
1323002041	37.1	6.19	-30.9	39.8	0.155	8.53	40	0.9	< 0.5	47	486	1	9	17	107	2.51	17	< 10	25	< 0.5	3	1.08	8
1323002009	32.5	6.66	-25.8	36.1	0.184	8.56	44	0.5	0.6	19	635	< 1	9	14	414	3.09	21	< 10	26	< 0.5	3	1.17	9
1323003001	50.4	50.1	-0.285	57.3	0.875	8.82	270	1.5	3.2	34	1140	< 1	12	31	676	0.79	83	< 10	15	< 0.5	3	1.95	9
1323002058	59.4	63.7	4.36	65.2	0.977	8.66	208	2.1	1.3	62	935	1	14	74	281	1.34	54	< 10	18	< 0.5	4	2.16	10
GC20-0249-003							230	1.1	< 0.5	285	1030	< 1	7	16	37	1.12	78	< 10	32	< 0.5	< 2	1.29	8
1324021030	81.4	9.19	-72.3	86.7	0.106	8.41	191	0.9	< 0.5	159	232	< 1	14	< 2	143	1.86	5	< 10	14	< 0.5	8	0.89	10
1323002077	72.8	60.9	-11.9	78.1	0.780	8.63	888	14.4	2.1	38	1920	< 1	11	155	519	0.75	30	< 10	16	< 0.5	3	2.21	8
F001601							988	1.7	< 0.5	51	236	16	10	18	40	1.30	< 2	< 10	50	< 0.5	< 2	0.84	8
1324021246	5.00	0.850	-4.15	4.90	0.174	8.96	12	0.3	< 0.5	128	499	< 1	50	< 2	50	4.99	< 2	< 10	18	< 0.5	< 2	3.27	23
1333099150	48.6	41.0	-7.69	52.4	0.782	9.05	29	< 0.2	< 0.5	34	276	2	15	< 2	28	1.19	4	< 10	23	< 0.5	< 2	1.57	12
1333099096	27.0	68.4	41.4	30.9	2.21	9.20	28	0.2	< 0.5	56	486	1	20	2	39	1.04	12	< 10	23	< 0.5	4	2.36	16
1333099076	28.5	48.9	20.3	34.3	1.42	9.13	41	0.3	< 0.5	90	352	5	19	< 2	43	1.46	12	< 10	26	< 0.5	2	2.00	10
1231046117	6.87	35.6	28.7	11.6	3.06	9.33	16	0.2	0.5	15	715	< 1	28	2	283	1.42	5	< 10	63	< 0.5	< 2	1.54	9
1231046049	13.2	28.2	15.0	17.1	1.65	9.09	8	< 0.2	< 0.5	11	642	1	20	2	101	2.50	6	< 10	54	< 0.5	< 2	2.13	10
GC20-0185-015							161	0.4	< 0.5	79	316	1	11	< 2	50	1.70	8	< 10	38	< 0.5	2	0.73	8
1324021217	33.7	29.1	-4.61	37.7	0.773	8.98	122	0.4	1.9	82	421	3	15	2	457	1.13	15	< 10	27	< 0.5	2	1.27	8
1324021227	43.1	22.9	-20.2	47.5	0.483	8.86	151	0.6	1.2	122	491	3	16	< 2	346	1.22	8	< 10	27	< 0.5	< 2	1.10	9
1333099045	36.3	31.8	-4.40	35.5	0.896	9.27	24	0.2	< 0.5	76	220	7	20	< 2	29	1.10	3	< 10	20	< 0.5	4	1.33	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0159-018							52	< 0.2	< 0.5	12	367	2	11	< 2	38	3.59	2	< 10	40	< 0.5	3	1.45	7
1323002117	72.7	17.5	-55.2	79.0	0.221	8.55	1200	2.2	7.6	122	693	< 1	14	37	1640	2.16	38	< 10	14	< 0.5	< 2	1.58	9
1323002141	74.8	32.8	-42.0	80.2	0.409	8.46	510	1.7	4.8	61	673	< 1	13	27	946	1.34	39	< 10	13	< 0.5	< 2	1.51	10
GC20-0938-007							12	< 0.2	< 0.5	11	251	< 1	11	3	53	2.95	< 2	< 10	16	< 0.5	2	0.69	7
1231046122	5.30	43.2	37.9	14.4	3.00	9.21	8	0.4	< 0.5	33	797	1	20	< 2	210	1.35	6	< 10	76	< 0.5	< 2	1.92	11
1324021154	60.9	19.1	-41.8	66.8	0.286	8.71	137	0.7	< 0.5	154	288	3	16	5	75	1.08	11	< 10	17	< 0.5	5	0.84	10
GC20-0940-012							568	3.2	0.9	25	981	< 1	11	48	206	0.72	147	< 10	31	< 0.5	< 2	2.24	8
1323002091	69.6	59.6	-9.96	75.9	0.785	8.76	361	6.7	4.7	105	1910	1	15	210	1130	0.77	33	< 10	22	< 0.5	< 2	1.95	10
GC20-0941-002							84	1.1	2.4	11	516	< 1	13	362	684	0.45	16	< 10	25	< 0.5	2	1.30	10
F001600							1990	4.4	< 0.5	23	212	16	7	19	37	1.24	< 2	< 10	41	< 0.5	< 2	0.77	5
1324008212	38.4	9.80	-28.6	41.3	0.237	8.70	62	0.4	< 0.5	34	478	< 1	18	7	44	3.08	6	< 10	33	< 0.5	5	1.37	9
1230058016	34.2	4.07	-30.1	39.2	0.104	8.59	988	1.2	2.0	20	1010	< 1	12	95	325	1.20	942	< 10	31	< 0.5	2	0.27	9
GC20-0813-001							68	0.6	< 0.5	25	184	< 1	21	17	135	0.84	20	< 10	42	< 0.5	3	0.24	19
1230058074	17.7	10.9	-6.79	20.5	0.532	8.49	48	0.4	1.1	26	1150	< 1	12	12	215	2.06	22	< 10	50	< 0.5	4	0.88	8
1230058502	25.8	95.1	69.2	32.2	2.96	8.71	252	1.2	4.6	68	769	< 1	55	33	973	2.44	22	< 10	24	3.1	< 2	3.60	22
1324008206	20.1	22.0	1.94	25.1	0.878	9.06	134	< 0.2	< 0.5	32	516	< 1	19	4	93	1.64	7	< 10	43	< 0.5	2	1.02	9
1324008169	72.7	13.5	-59.2	82.7	0.163	8.23	69	0.6	< 0.5	23	279	< 1	19	5	38	2.28	23	12	13	< 0.5	6	1.10	9
GC20-0814-018							6	< 0.2	< 0.5	7	417	< 1	15	3	58	2.83	3	< 10	114	< 0.5	< 2	1.85	8
1230059212	32.9	8.68	-24.2	43.5	0.199	8.28	460	1.7	7.1	26	1430	< 1	14	29	1360	1.19	1000	< 10	24	< 0.5	2	0.53	9
1324018252	35.2	10.4	-24.8	40.4	0.258	8.51	610	1.3	< 0.5	275	226	2	17	< 2	33	3.19	5	< 10	25	< 0.5	8	1.33	5
1230058522	54.4	40.9	-13.4	63.7	0.643	8.45	114	1.3	1.1	20	1250	< 1	23	51	276	2.19	68	< 10	17	< 0.5	2	1.64	9
1230059143	45.3	13.0	-32.3	52.7	0.247	8.41	260	3.2	3.3	52	610	5	50	120	774	1.24	128	< 10	24	< 0.5	< 2	0.84	14
1230059174	60.6	5.42	-55.2	68.0	0.0797	7.88	220	3.3	3.9	141	1130	1	15	49	837	2.08	109	< 10	17	< 0.5	2	0.37	9
1230059148	87.1	12.3	-74.8	99.8	0.123	8.11	1060	3.3	21.1	169	345	4	24	226	4770	1.14	132	< 10	< 10	< 0.5	< 2	0.58	13
1230059094	53.3	29.9	-23.4	61.6	0.485	8.63	310	2.3	9.9	49	569	< 1	30	153	2210	1.60	87	< 10	11	0.7	< 2	1.63	16
1324018241	37.9	8.43	-29.5	41.7	0.202	8.53	157	0.5	< 0.5	123	297	2	18	< 2	60	3.19	4	< 10	26	< 0.5	2	1.29	8
1324018276	37.6	7.85	-29.8	41.7	0.188	8.77	274	0.7	< 0.5	125	348	1	18	< 2	77	2.51	6	< 10	28	< 0.5	2	0.73	9
F001594							764	4.6	< 0.5	28	241	< 1	8	10	39	1.26	< 2	< 10	43	< 0.5	< 2	0.73	9
1324008025	136	4.10	-131	144	0.0285	7.36	1480	2.1	2.8	371	295	< 1	13	9	763	1.29	32	< 10	< 10	< 0.5	12	0.35	5
1230059112	61.8	8.66	-53.1	70.1	0.124	8.18	166	2.0	0.5	104	1660	3	23	32	178	1.96	80	< 10	17	< 0.5	< 2	0.37	11
1230059099	27.5	17.6	-9.87	33.4	0.528	8.75	89	0.9	4.4	66	775	1	30	39	917	1.66	43	< 10	31	< 0.5	< 2	1.10	14
1324008031	53.5	42.6	-11.0	59.1	0.720	8.55	111	0.8	< 0.5	77	736	3	25	11	152	2.75	8	< 10	22	< 0.5	8	2.41	10
1230059001	68.5	59.6	-8.87	80.8	0.738	8.67	302	7.9	4.5	50	2360	1	20	320	1120	1.57	77	< 10	15	< 0.5	< 2	2.29	10
1324008089	26.9	10.3	-16.6	35.2	0.292	8.52	102	0.7	2.5	48	569	< 1	14	15	706	2.98	9	21	27	< 0.5	< 2	1.17	10
1230059049	14.8	27.8	13.0	22.4	1.24	8.36	72	0.6	< 0.5	31	1120	< 1	12	17	108	1.92	39	< 10	32	< 0.5	2	1.25	7
GC20-0817-001							151	1.0	0.5	31	1300	< 1	10	43	135	2.43	115	< 10	21	< 0.5	3	1.36	10
1324008056	82.3	32.2	-50.1	93.4	0.345	8.27	523	0.9	< 0.5	182	512	1	21	12	76	2.26	25	< 10	14	< 0.5	9	1.63	9
1324008104	53.5	12.9	-40.6	60.9	0.212	8.47	663	0.4	< 0.5	25	513	1	19	5	70	2.34	18	< 10	16	< 0.5	4	1.28	9
1324008001	56.6	16.6	-40.1	68.9	0.240	8.48	583	2.0	3.1	92	790	1	17	286	879	2.27	22	< 10	18	< 0.5	5	1.13	9
1324008117	95.0	12.9	-82.1	104	0.123	8.09	157	0.3	< 0.5	18	412	< 1	19	3	69	1.92	10	< 10	< 10	< 0.5	3	0.68	10
1230058290	32.4	5.36	-27.0	40.4	0.133	8.23	319	1.2	11.9	95	980	< 1	10	11	2240	1.80	29	< 10	22	< 0.5	< 2	0.51	8
1324008146	55.0	14.1	-40.9	64.0	0.220	8.33	996	1.6	< 0.5	431	533	1	17	4	69	3.13	11	< 10	17	< 0.5	7	1.73	9
1324008063	39.8	9.77	-30.0	45.3	0.216	8.48	924	0.9	< 0.5	175	574	< 1	16	6	54	3.04	15	< 10	17	< 0.5	5	1.68	8
1230058079	64.2	9.78	-54.5	76.9	0.127	8.49	424	4.7	7.6	94	1920	2	23	191	1870	1.65	103	< 10	13	< 0.5	< 2	0.48	11
1230058283	20.4	10.2	-10.2	24.8	0.412	8.71	114	0.6	0.5	42	743	< 1	21	13	187	1.81	171	< 10	32	< 0.5	< 2	0.94	12
1324008015	86.2	4.99	-81.3	93.7	0.0532	8.10	1610	3.1	0.6	806	512	< 1	16	19	115	1.86	27	< 10	< 10	< 0.5	10	0.41	9
1324008199	30.2	20.4	-9.83	34.9	0.584	8.86	191	0.5	< 0.5	139	525	2	19	6	77	2.24	13	< 10	30	< 0.5	< 2	1.45	9
F001593							3330	2.5	< 0.5	37	251	15	12	14	39	1.32	3	< 10	50	< 0.5	< 2	0.86	9
1230059318	35.9	39.2	3.29	42.3	0.928	8.89	172	3.5	0.6	20	1600	< 1	24	37	182	3.11	43	< 10	26	< 0.5	< 2	2.34	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230059164	182	3.35	-179	200	0.0168	6.53	462	6.8	6.4	382	727	1	23	387	1290	1.39	287	< 10	< 10	< 0.5	8	0.19	8
1230059218	141	5.81	-136	156	0.0373	7.45	956	19.0	19.2	447	982	< 1	23	545	4230	1.46	364	< 10	< 10	< 0.5	7	0.32	8
GC20-0818-004							540	12.4	1.7	561	323	< 1	33	102	318	1.19	489	< 10	< 10	< 0.5	11	0.11	10
1230059182	30.6	4.50	-26.1	36.4	0.123	8.30	161	1.3	0.8	26	1350	< 1	16	23	195	0.92	95	< 10	28	< 0.5	< 2	0.25	9
1230059016	35.2	13.6	-21.6	41.3	0.330	8.45	269	1.6	1.3	53	1060	1	21	56	310	1.59	48	< 10	25	< 0.5	< 2	0.81	11
1324018169	54.3	14.7	-39.6	60.6	0.242	8.48	549	1.3	< 0.5	433	306	2	17	< 2	40	2.76	9	< 10	21	< 0.5	6	1.25	7
GC20-0825-001							310	5.9	< 0.5	18	1230	< 1	36	33	132	1.90	85	< 10	14	< 0.5	< 2	0.32	14
1230058111	29.4	12.8	-16.5	38.3	0.335	8.52	77	0.7	18.8	141	410	< 1	30	12	3690	3.37	18	< 10	31	< 0.5	< 2	2.08	18
GC20-0816-019							1080	5.2	15.2	82	1280	< 1	25	156	3160	1.88	305	< 10	< 10	< 0.5	2	0.16	9
1230059328	70.0	33.5	-36.4	80.5	0.416	8.64	266	9.2	3.4	36	1640	< 1	25	381	993	1.63	80	< 10	15	< 0.5	< 2	1.39	11
1230059391	122	3.61	-118	134	0.0269	7.65	347	6.4	7.7	221	1320	2	23	342	1730	1.52	225	< 10	< 10	< 0.5	4	0.19	10
GC20-0808-007							251	0.9	5.7	92	614	< 1	17	3	1580	2.07	14	< 10	11	< 0.5	3	0.77	12
GC20-0839-001							558	11.7	25.2	113	2350	< 1	35	164	5940	3.11	97	< 10	14	< 0.5	< 2	0.47	12
1230059342	25.2	5.49	-19.7	30.3	0.181	8.63	142	2.4	1.0	27	1400	< 1	15	42	303	1.02	97	< 10	30	< 0.5	< 2	0.34	7
GC20-0802-001							134	0.3	< 0.5	22	467	< 1	9	4	80	1.97	14	< 10	14	< 0.5	2	0.62	6
GC20-0803-006							72	0.8	< 0.5	199	420	7	17	2	126	2.17	7	< 10	10	< 0.5	5	1.21	11
GC20-0840-008							892	6.1	24.5	66	1230	< 1	25	122	5380	1.95	167	< 10	13	< 0.5	< 2	0.17	12
1230059344	31.2	5.52	-25.7	35.5	0.155	8.82	67	0.6	0.5	27	993	< 1	16	30	154	1.95	29	< 10	31	< 0.5	< 2	0.52	11
GC20-0806-003							62	0.2	< 0.5	11	589	1	23	3	70	2.82	8	< 10	13	< 0.5	3	1.18	10
1324018137	65.3	8.24	-57.1	70.7	0.116	8.21	165	1.4	< 0.5	311	307	< 1	19	2	99	2.03	12	< 10	17	< 0.5	7	0.78	9
F001592							1060	3.1	< 0.5	30	270	< 1	9	17	44	1.33	< 2	< 10	45	< 0.5	< 2	0.83	10
GC20-0862-003							220	5.3	< 0.5	52	1410	< 1	11	53	110	0.92	54	< 10	25	< 0.5	< 2	0.18	6
GC20-0832-025							201	9.1	21.4	78	1290	< 1	26	359	5210	1.99	164	< 10	< 10	< 0.5	< 2	0.63	10
GC20-0864-002							83	2.1	< 0.5	25	1310	< 1	20	17	66	1.44	56	< 10	28	< 0.5	< 2	2.11	7
GC20-0866-019							142	3.3	< 0.5	18	1590	< 1	23	13	62	2.06	82	< 10	24	< 0.5	< 2	2.77	11
GC20-0819-024							11	< 0.2	< 0.5	24	549	2	20	< 2	97	1.12	< 2	< 10	115	< 0.5	< 2	1.32	7
GC20-0863-018							146	4.0	< 0.5	16	1360	< 1	24	14	45	1.98	92	< 10	18	< 0.5	< 2	2.86	12
GC20-0820-019							545	5.8	9.1	71	1610	< 1	26	46	1910	2.35	224	< 10	11	< 0.5	2	0.15	9
GC20-0867-007							171	5.5	< 0.5	14	515	< 1	25	13	55	0.97	98	< 10	10	< 0.5	< 2	0.70	11
GC20-0867-020							175	5.2	< 0.5	43	1270	< 1	26	23	119	2.24	33	< 10	19	< 0.5	< 2	2.20	12
1324014136	62.6	10.6	-52.0	67.7	0.157	8.64	84	0.6	< 0.5	22	322	< 1	18	6	87	1.91	24	< 10	15	< 0.5	6	1.12	8
GC20-0844-005							227	8.9	< 0.5	56	1590	< 1	32	32	199	2.16	114	< 10	18	< 0.5	< 2	1.98	12
1324008135	62.0	14.5	-47.5	66.8	0.217	8.59	87	0.8	< 0.5	16	326	< 1	19	6	56	2.41	20	< 10	14	< 0.5	8	1.25	9
GC20-0865-016							367	7.3	< 0.5	20	1610	< 1	31	34	135	2.55	40	< 10	20	< 0.5	< 2	1.11	13
1231048113	18.4	58.9	40.5	23.6	2.50	9.07	16	1.2	< 0.5	32	648	< 1	18	7	84	1.07	41	< 10	39	< 0.5	< 2	2.43	6
1324020131	35.1	24.6	-10.5	44.1	0.558	9.05	172	1.2	0.7	34	835	< 1	20	27	164	2.51	25	< 10	26	< 0.5	3	1.65	11
1324020235	34.0	30.7	-3.30	41.7	0.738	8.95	241	1.4	0.6	52	912	< 1	20	17	174	2.34	23	< 10	28	< 0.5	3	1.75	9
GC20-0868-009							253	7.3	< 0.5	29	2580	< 1	26	31	107	2.09	116	< 10	24	< 0.5	< 2	2.90	10
GC20-0833-024							154	7.4	1.6	37	1660	2	15	49	349	3.05	41	< 10	24	< 0.5	2	2.39	8
1324014307	77.5	7.35	-70.1	95.6	0.0769	8.11	498	2.4	28.2	211	1130	< 1	20	65	6320	2.25	59	< 10	14	< 0.5	5	0.42	18
GC20-0872-001							81	2.5	< 0.5	22	863	< 1	23	14	97	1.65	35	< 10	16	< 0.5	< 2	0.95	13
F001591							2020	4.5	< 0.5	23	213	17	7	21	38	1.23	< 2	< 10	43	< 0.5	< 2	0.77	5
1230058279	3.75	12.3	8.54	3.67	3.34	8.43	10	0.2	< 0.5	112	660	< 1	58	< 2	52	5.01	< 2	< 10	19	< 0.5	3	3.34	24
1230058056	59.5	19.8	-39.7	66.2	0.299	8.38	657	0.9	4.8	38	372	< 1	37	11	1060	1.36	30	< 10	11	< 0.5	< 2	1.15	15
1324008257	5.63	22.1	16.4	5.51	4.00	9.50	20	< 0.2	0.5	13	564	< 1	14	< 2	159	1.59	3	< 10	62	< 0.5	< 2	0.87	8
1324008223	19.7	8.60	-11.1	19.3	0.446	8.74	41	0.2	< 0.5	33	489	< 1	15	4	167	3.24	3	17	39	< 0.5	4	1.19	8
GC20-0239-004							1190	1.0	< 0.5	526	219	< 1	13	< 2	26	2.12	6	< 10	24	< 0.5	13	0.77	6
GC20-0812-005							511	1.7	5.0	54	1020	< 1	17	74	1200	1.48	187	< 10	11	< 0.5	2	0.36	10
GC20-0810-008							93	1.3	< 0.5	17	963	1	13	40	124	1.10	118	< 10	25	< 0.5	< 2	1.53	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0811-023							273	5.6	2.3	16	1780	< 1	23	184	517	2.13	98	< 10	18	< 0.5	< 2	1.91	10
GC20-0811-001							160	3.6	3.7	41	718	< 1	16	322	875	1.03	125	< 10	22	< 0.5	3	0.28	10
GC20-0139-016							152	0.4	< 0.5	111	321	2	11	< 2	35	3.01	5	< 10	27	< 0.5	4	0.83	8
1230058004	57.9	50.0	-7.83	83.3	0.601	8.81	2220	4.1	58.3	197	600	< 1	22	26	> 10000	1.25	121	< 10	13	< 0.5	< 2	1.94	12
1230058100	54.1	24.4	-29.8	68.3	0.357	8.43	555	2.7	18.8	187	494	1	20	131	4540	1.14	156	< 10	14	< 0.5	< 2	1.23	9
1324008233	3.13	8.39	5.26	3.06	2.74	9.01	7	0.2	< 0.5	113	556	< 1	50	< 2	68	5.17	< 2	< 10	12	< 0.5	2	3.49	23
1230058095	40.4	1.74	-38.7	45.9	0.0380	8.07	303	1.0	0.6	21	58	< 1	15	25	180	0.94	178	< 10	20	< 0.5	< 2	0.06	8
1230058172	31.9	8.75	-23.1	37.1	0.236	7.70	46	0.8	0.6	24	408	< 1	14	26	225	1.45	104	< 10	24	0.6	4	0.23	7
GC20-0814-001							340	7.3	1.6	616	733	4	29	123	339	1.88	128	< 10	12	< 0.5	6	0.71	9
GC20-0816-001							314	0.6	< 0.5	15	669	< 1	8	18	88	1.57	78	< 10	32	< 0.5	< 2	0.24	6
F001599							3330	2.5	< 0.5	36	251	15	12	15	40	1.31	3	< 10	50	< 0.5	< 2	0.85	9
GC20-0240-005							1500	0.4	< 0.5	195	237	< 1	16	2	26	1.68	10	< 10	< 10	< 0.5	6	0.37	6
1324008391	22.5	5.27	-17.2	25.4	0.207	8.75	32	0.3	1.2	39	551	< 1	11	16	419	3.51	7	< 10	35	< 0.5	4	1.20	10
GC20-0240-011							304	0.3	< 0.5	84	332	2	12	< 2	35	3.44	8	< 10	28	< 0.5	9	1.28	9
1324008356	45.6	10.1	-35.6	53.3	0.189	8.44	698	1.3	< 0.5	114	353	2	14	4	41	1.89	10	< 10	15	< 0.5	8	0.81	9
1433043322	68.5	60.0	-8.54	80.2	0.748	8.63	553	3.2	0.5	70	1020	< 1	54	< 2	204	3.41	8	< 10	10	< 0.5	2	2.73	25
1230058002	56.3	32.3	-24.0	64.3	0.503	8.80	716	1.4	10.3	34	716	< 1	18	28	2360	0.98	113	< 10	13	< 0.5	2	1.33	10
1433004003	80.0	106	25.8	95.6	1.11	8.30	77	0.7	< 0.5	55	1450	< 1	127	< 2	126	4.51	10	< 10	14	< 0.5	< 2	4.15	42
1324008405	85.3	15.1	-70.2	91.0	0.165	8.27	103	0.4	< 0.5	27	482	< 1	16	10	73	1.96	5	10	13	< 0.5	4	0.97	9
1324008319	84.3	6.60	-77.7	88.5	0.0745	8.29	282	0.4	< 0.5	16	242	< 1	18	4	35	1.36	14	< 10	11	< 0.5	4	0.36	9
1324017191	50.3	8.39	-41.9	55.4	0.151	8.54	236	0.7	0.6	100	354	< 1	14	2	182	2.35	18	< 10	21	< 0.5	4	0.87	10
1324008457	67.4	13.7	-53.7	71.7	0.191	8.41	190	0.3	< 0.5	56	546	< 1	18	11	79	2.75	20	< 10	19	< 0.5	2	1.59	11
1324008308	3.12	29.9	26.7	6.13	4.88	9.15	14	< 0.2	< 0.5	17	566	< 1	23	2	95	1.64	3	< 10	63	< 0.5	2	1.19	9
1230058219	65.6	34.0	-31.6	88.2	0.386	8.26	485	2.2	19.4	108	974	< 1	36	111	4400	2.36	121	< 10	13	< 0.5	< 2	2.23	18
1433004040	16.0	17.9	1.85	20.5	0.872	8.85	197	0.6	< 0.5	175	695	< 1	14	12	112	2.53	3	< 10	42	< 0.5	3	0.97	7
1433004038	56.3	117	60.2	80.8	1.44	8.21	377	2.3	0.5	86	1590	< 1	117	< 2	152	4.25	14	< 10	16	< 0.5	2	4.57	36
1433004077	107	86.9	-20.6	135	0.642	8.23	322	2.4	2.4	159	1360	< 1	132	< 2	541	4.64	28	< 10	13	< 0.5	3	3.41	41
GC20-0228-014							588	0.3	< 0.5	133	212	< 1	6	< 2	22	2.36	5	< 10	25	< 0.5	4	0.81	5
1324008429	84.2	12.0	-72.1	90.7	0.133	8.47	102	0.4	< 0.5	44	490	< 1	14	3	56	1.88	4	< 10	14	< 0.5	3	0.85	8
GC20-0130-020							88	0.2	< 0.5	17	609	< 1	17	< 2	67	2.47	7	< 10	55	< 0.5	4	1.50	11
1230058215	46.8	49.6	2.84	59.1	0.839	8.80	141	0.9	16.7	37	768	< 1	38	27	3270	1.36	107	< 10	19	< 0.5	< 2	1.89	13
1433004157	104	78.7	-25.1	122	0.645	8.19	186	2.0	< 0.5	39	1300	< 1	55	2	155	3.60	24	< 10	11	< 0.5	2	3.27	23
F001598							985	1.7	< 0.5	50	230	11	9	19	40	1.22	< 2	< 10	45	< 0.5	< 2	0.80	7
1433004072	30.0	62.4	32.4	39.2	1.59	8.62	82	0.6	< 0.5	61	1050	< 1	88	< 2	140	3.73	7	< 10	36	< 0.5	< 2	2.86	30
1324008503	3.75	5.30	1.55	3.67	1.44	9.23	7	< 0.2	< 0.5	104	387	< 1	44	< 2	41	5.43	< 2	< 10	17	< 0.5	< 2	3.61	20
1324008474	14.1	20.8	6.74	13.8	1.51	9.27	56	0.3	< 0.5	52	562	< 1	20	4	72	2.14	3	< 10	64	< 0.5	3	1.44	7
1324008550	91.2	4.55	-86.7	97.7	0.0466	8.04	112	0.7	< 0.5	8	398	< 1	17	10	38	3.20	17	< 10	14	< 0.5	5	1.30	8
GC20-0236-010							444	0.6	< 0.5	107	282	< 1	7	< 2	22	2.69	4	< 10	26	< 0.5	6	0.85	9
1230058206	5.31	11.8	6.52	5.21	2.27	8.60	19	0.3	< 0.5	119	564	< 1	45	3	89	5.41	5	< 10	24	< 0.5	< 2	3.74	22
GC20-0238-001							414	0.7	< 0.5	309	220	< 1	12	< 2	21	2.34	6	< 10	21	< 0.5	9	1.08	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0918-001	165	2.62	< 10	< 1	0.16	15	0.94	0.251	0.039	2.45	< 2	< 1	138	< 0.01	1	< 2	< 10	7	< 10	3	11		
GC20-0911-002	205	3.20	< 10	< 1	0.13	16	1.20	0.207	0.040	2.27	2	< 1	80	< 0.01	1	< 2	< 10	11	< 10	3	10		
1223001001	198	2.44	< 10	< 1	0.18	15	0.45	0.131	0.042	2.34	2	< 1	127	< 0.01	< 1	< 2	< 10	7	< 10	3	9	0.29	2.25
GC20-0922-001	164	3.04	< 10	< 1	0.15	15	0.97	0.268	0.040	2.84	< 2	< 1	125	< 0.01	2	< 2	< 10	8	< 10	3	13		
GC20-0917-002	146	2.63	< 10	< 1	0.19	18	1.32	0.231	0.045	2.27	< 2	< 1	138	0.02	< 1	3	< 10	9	< 10	3	9		
GC20-0916-011	117	2.62	< 10	< 1	0.18	15	1.07	0.174	0.036	1.82	< 2	< 1	69	< 0.01	1	< 2	< 10	8	< 10	3	7		
GC20-0915-002	187	2.35	< 10	< 1	0.12	15	0.89	0.177	0.041	2.12	< 2	1	80	0.01	< 1	< 2	< 10	10	< 10	3	12		
GC20-0188-021	123	2.83	< 10	< 1	0.12	11	0.79	0.187	0.033	1.30	< 2	1	113	0.01	< 1	< 2	< 10	12	< 10	2	7		
1231047017	221	2.34	< 10	< 1	0.55	18	1.08	0.101	0.049	0.52	< 2	3	47	0.10	< 1	< 2	< 10	32	< 10	4	7	0.34	0.49
GC20-0925-001	248	2.23	< 10	< 1	0.14	15	1.01	0.272	0.039	2.00	2	< 1	162	0.01	< 1	< 2	< 10	9	< 10	2	5		
1223001208	125	2.51	< 10	< 1	0.20	13	1.07	0.084	0.037	2.09	< 2	< 1	42	< 0.01	2	< 2	< 10	8	< 10	2	9	0.77	2.04
1231046222	203	2.48	< 10	< 1	0.51	18	0.89	0.096	0.050	0.65	< 2	2	43	0.11	2	< 2	< 10	27	< 10	3	6	0.41	0.65
1231046155	196	3.37	< 10	< 1	0.21	11	1.57	0.231	0.035	0.30	< 2	4	48	0.15	3	< 2	< 10	65	< 10	4	8	0.23	0.31
1223001012	150	2.03	< 10	< 1	0.12	14	0.76	0.112	0.040	0.46	< 2	< 1	100	< 0.01	1	< 2	< 10	11	< 10	2	2	0.21	0.47
1323002216	127	3.28	< 10	< 1	0.17	12	0.79	0.060	0.039	2.58	2	< 1	23	< 0.01	< 1	< 2	< 10	6	< 10	2	14	0.17	2.61
1323002245	126	2.86	< 10	2	0.18	12	1.11	0.023	0.036	1.82	2	< 1	12	< 0.01	< 1	< 2	< 10	8	< 10	1	14	0.12	1.86
1323003146	113	2.81	< 10	1	0.15	15	0.11	0.037	0.039	3.59	2	< 1	37	< 0.01	< 1	< 2	< 10	3	< 10	1	15	0.42	3.49
1323002165	128	2.61	< 10	< 1	0.18	14	0.72	0.065	0.040	2.53	4	< 1	47	0.02	< 1	< 2	< 10	7	< 10	2	11	0.43	2.50
1323003153	128	2.04	< 10	< 1	0.21	13	0.62	0.024	0.040	1.89	< 2	< 1	20	< 0.01	3	< 2	< 10	4	< 10	1	9	0.62	1.91
GC20-0928-013	79	3.32	< 10	< 1	0.17	14	1.26	0.036	0.039	2.26	< 2	< 1	16	< 0.01	2	< 2	< 10	8	< 10	2	14		
F001602	14	2.18	< 10	< 1	0.19	13	0.40	0.237	0.035	0.03	< 2	2	35	0.32	6	< 2	< 10	52	< 10	15	13		
1324021049	257	2.43	< 10	< 1	0.14	14	0.70	0.061	0.038	1.51	< 2	1	27	< 0.01	1	< 2	< 10	13	< 10	3	11	0.21	2.22
GC20-0141-018	124	3.18	< 10	< 1	0.18	10	0.67	0.092	0.031	1.85	3	< 1	61	0.01	< 1	< 2	< 10	7	< 10	2	13		
1323002080	119	2.27	< 10	< 1	0.21	13	0.65	0.037	0.041	2.39	5	< 1	34	< 0.01	4	< 2	< 10	4	< 10	2	12	0.76	2.31
1333099062	193	1.94	< 10	< 1	0.09	13	0.70	0.089	0.040	0.67	< 2	1	51	< 0.01	< 1	< 2	< 10	11	< 10	2	6	0.71	0.69
1324021135	228	2.78	< 10	< 1	0.17	15	0.83	0.067	0.039	2.26	< 2	1	34	< 0.01	3	< 2	< 10	12	< 10	3	14	0.33	1.88
1323002084	122	2.26	< 10	< 1	0.19	14	0.90	0.042	0.044	2.23	3	< 1	37	< 0.01	3	2	< 10	6	< 10	2	7	0.90	2.12
1324021079	194	4.02	< 10	< 1	0.29	< 10	0.87	0.149	0.035	2.56	< 2	2	23	0.05	2	< 2	< 10	32	< 10	3	15	0.16	2.52
1324021181	171	3.47	< 10	< 1	0.15	14	1.72	0.097	0.034	1.09	3	< 1	34	< 0.01	3	< 2	< 10	11	< 10	2	11	0.13	1.07
1323003018	143	2.25	< 10	< 1	0.15	10	0.59	0.058	0.043	1.90	4	< 1	48	< 0.01	1	< 2	< 10	7	< 10	1	9	0.38	1.82
1323003042	162	1.50	< 10	< 1	0.13	< 10	0.45	0.038	0.035	0.71	< 2	< 1	31	< 0.01	< 1	< 2	< 10	7	< 10	1	6	0.37	0.68
1323002041	124	2.12	< 10	< 1	0.14	15	0.66	0.099	0.043	1.30	< 2	< 1	98	< 0.01	< 1	< 2	< 10	10	< 10	2	7	0.15	1.30
1323002009	113	2.63	< 10	< 1	0.12	14	0.75	0.082	0.041	1.17	< 2	< 1	105	0.03	1	< 2	< 10	12	< 10	3	5	0.14	1.18
1323003001	97	2.31	< 10	< 1	0.21	< 10	0.72	0.029	0.044	2.00	3	< 1	25	< 0.01	2	< 2	< 10	4	< 10	2	7	0.87	1.87
1323002058	137	2.49	< 10	< 1	0.20	14	0.89	0.051	0.044	2.26	2	< 1	37	< 0.01	2	< 2	< 10	9	< 10	2	9	0.75	2.13
GC20-0249-003	81	2.02	< 10	< 1	0.25	< 10	0.56	0.041	0.118	0.78	< 2	< 1	16	< 0.01	< 1	< 2	< 10	8	< 10	3	2		
1324021030	121	3.94	< 10	< 1	0.26	13	0.92	0.105	0.045	2.92	< 2	1	29	0.03	< 1	< 2	< 10	23	< 10	3	14	0.20	2.83
1323002077	93	2.52	< 10	< 1	0.22	14	0.77	0.041	0.043	2.83	< 2	< 1	40	< 0.01	6	< 2	< 10	4	< 10	2	11	0.97	2.55
F001601	14	1.87	< 10	< 1	0.24	14	0.45	0.217	0.046	0.05	< 2	3	32	0.25	3	< 2	< 10	54	< 10	18	8		
1324021246	198	4.55	< 10	2	0.04	< 10	1.78	0.494	0.019	0.15	< 2	6	70	0.21	< 1	< 2	< 10	120	< 10	4	3	0.19	0.16
1333099150	148	2.55	< 10	< 1	0.14	14	0.75	0.078	0.038	1.77	< 2	< 1	38	< 0.01	2	< 2	< 10	9	< 10	3	10	0.52	1.71
1333099096	164	2.28	< 10	< 1	0.10	15	0.85	0.093	0.044	1.01	< 2	1	48	< 0.01	1	< 2	< 10	11	< 10	3	4	0.96	1.01
1333099076	198	2.30	< 10	< 1	0.12	16	0.95	0.111	0.046	1.10	2	2	66	0.01	2	< 2	< 10	16	< 10	3	5	0.61	1.12
1231046117	282	2.24	< 10	< 1	0.39	17	0.92	0.075	0.046	0.38	< 2	2	30	0.09	< 1	< 2	< 10	29	< 10	3	5	0.48	0.38
1231046049	247	2.45	< 10	< 1	0.32	23	1.16	0.174	0.051	0.54	< 2	2	83	0.10	4	< 2	< 10	31	< 10	4	5	0.42	0.56
GC20-0185-015	160	2.07	< 10	< 1	0.17	17	0.64	0.147	0.040	0.87	2	< 1	73	0.02	< 1	< 2	< 10	12	10	3	8		
1324021217	254	2.23	< 10	< 1	0.19	14	0.75	0.055	0.041	1.26	< 2	1	23	0.01	< 1	< 2	< 10	15	< 10	3	8	0.37	1.23
1324021227	257	2.53	< 10	< 1	0.21	13	0.79	0.065	0.042	1.60	< 2	1	27	0.02	1	< 2	< 10	17	< 10	3	14	0.30	1.55
1333099045	162	2.10	< 10	< 1	0.08	12	0.85	0.055	0.042	1.14	< 2	1	28	< 0.01	< 1	< 2	< 10	14	< 10	2	7	0.39	1.16
GC20-0159-018	121	3.16	< 10	< 1	0.19	13	1.28	0.278	0.036	0.71	< 2	2	151	0.06	1	< 2	< 10	21	< 10	3	4		
1323002117	130	2.57	< 10	< 1	0.18	15	0.80	0.171	0.042	2.64	< 2	< 1	75	0.05	< 1	< 2	< 10	8	< 10	2	11	0.23	2.58

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323002141	101	2.60	< 10	< 1	0.18	14	0.65	0.082	0.043	2.74	5	< 1	42	0.01	< 1	< 2	< 10	6	< 10	2	10	0.39	2.62
GC20-0938-007	115	1.72	< 10	< 1	0.05	17	0.93	0.062	0.041	0.13	< 2	1	47	< 0.01	< 1	< 2	< 10	14	< 10	1	2		
1231046122	222	2.27	< 10	< 1	0.43	16	0.76	0.071	0.045	0.46	< 2	2	28	0.12	< 1	< 2	< 10	28	< 10	3	10	0.56	0.47
1324021154	262	2.81	< 10	< 1	0.19	14	0.70	0.065	0.039	2.32	< 2	1	25	< 0.01	2	< 2	< 10	12	< 10	3	17	0.31	2.18
GC20-0940-012	169	2.07	< 10	< 1	0.39	18	0.28	0.021	0.041	2.03	< 2	< 1	78	< 0.01	< 1	< 2	< 10	4	< 10	2	10		
1323002091	160	2.48	< 10	< 1	0.25	13	0.63	0.039	0.041	2.63	3	< 1	37	< 0.01	6	< 2	< 10	6	< 10	2	14	0.84	2.48
GC20-0941-002	176	1.43	< 10	< 1	0.25	< 10	0.05	0.024	0.034	1.52	< 2	< 1	126	< 0.01	2	< 2	< 10	4	< 10	2	9		
F001600	12	1.52	< 10	< 1	0.21	18	0.36	0.215	0.039	0.04	< 2	2	35	0.21	4	< 2	< 10	36	< 10	16	8		
1324008212	362	2.60	< 10	< 1	0.22	13	1.04	0.175	0.037	1.34	3	1	81	< 0.01	1	< 2	< 10	10	< 10	2	10	0.20	1.35
1230058016	199	2.15	< 10	2	0.39	16	0.38	0.049	0.064	1.32	6	< 1	19	< 0.01	< 1	< 2	< 10	8	< 10	2	5	0.17	1.28
GC20-0813-001	421	1.21	< 10	< 1	0.17	< 10	0.15	0.036	0.037	0.75	2	< 1	17	< 0.01	< 1	< 2	< 10	6	41	1	4		
1230058074	167	2.27	< 10	< 1	0.30	17	0.85	0.071	0.043	0.68	< 2	1	28	0.05	< 1	< 2	< 10	16	< 10	2	4	0.20	0.67
1230058502	381	4.67	< 10	1	2.26	58	2.73	0.034	0.225	1.00	4	11	436	0.08	< 1	2	< 10	95	< 10	20	2	1.00	1.05
1324008206	392	2.27	< 10	< 1	0.45	14	0.97	0.098	0.037	0.85	< 2	2	43	0.03	< 1	< 2	< 10	18	< 10	2	9	0.43	0.82
1324008169	317	3.16	< 10	< 1	0.27	15	0.86	0.091	0.039	2.93	3	< 1	91	< 0.01	1	< 2	< 10	9	< 10	2	16	0.30	2.70
GC20-0814-018	287	1.88	< 10	< 1	0.45	19	0.95	0.294	0.040	0.05	< 2	1	152	0.09	2	< 2	< 10	22	< 10	2	2		
1230059212	238	2.45	< 10	< 1	0.31	17	0.40	0.039	0.071	1.56	4	< 1	18	0.01	1	< 2	< 10	9	< 10	2	4	0.26	1.42
1324018252	334	2.51	< 10	< 1	0.16	12	0.92	0.238	0.037	1.35	< 2	1	129	< 0.01	< 1	< 2	< 10	14	< 10	2	8	0.15	1.32
1230058522	301	2.58	< 10	< 1	0.38	17	0.96	0.192	0.049	2.20	< 2	< 1	52	0.02	1	< 2	< 10	12	< 10	3	6	0.43	2.08
1230059143	353	2.74	< 10	< 1	0.33	17	0.55	0.059	0.058	1.82	4	2	41	0.04	1	< 2	< 10	23	< 10	3	8	0.21	1.72
1230059174	236	3.17	< 10	< 1	0.42	17	1.07	0.029	0.060	2.27	2	1	10	0.02	< 1	< 2	< 10	14	< 10	2	6	0.15	2.22
1230059148	365	3.35	< 10	< 1	0.49	15	0.34	0.039	0.062	3.42	3	1	35	0.02	< 1	< 2	< 10	15	< 10	3	12	0.27	3.26
1230059094	313	3.60	< 10	< 1	0.76	22	1.10	0.050	0.135	2.00	3	5	122	0.16	2	< 2	< 10	57	< 10	8	11	0.41	2.01
1324018241	378	2.72	< 10	< 1	0.16	10	1.01	0.293	0.035	1.40	2	1	159	0.02	< 1	< 2	< 10	16	< 10	2	8	0.16	1.36
1324018276	328	2.88	< 10	< 1	0.22	12	1.22	0.199	0.033	1.35	< 2	1	91	< 0.01	< 1	< 2	< 10	14	< 10	2	12	0.12	1.36
F001594	12	2.03	< 10	< 1	0.24	12	0.42	0.242	0.035	0.03	< 2	2	32	0.31	6	< 2	< 10	48	< 10	16	13		
1324008025	329	5.01	< 10	3	0.25	< 10	0.46	0.041	0.032	4.87	4	< 1	34	< 0.01	1	< 2	< 10	5	< 10	2	26	0.21	4.70
1230059112	178	2.69	< 10	< 1	0.42	19	1.48	0.027	0.055	2.27	2	1	8	0.01	2	< 2	< 10	13	< 10	2	11	0.22	2.29
1230059099	299	2.89	< 10	< 1	0.34	23	0.94	0.067	0.061	1.11	2	3	40	0.08	2	< 2	< 10	36	< 10	4	6	0.25	1.09
1324008031	294	2.68	< 10	< 1	0.27	14	1.40	0.109	0.047	1.94	2	2	111	0.02	3	< 2	< 10	19	< 10	3	7	0.55	1.93
1230059001	143	2.76	< 10	< 1	0.42	16	1.28	0.045	0.045	2.74	< 2	1	28	< 0.01	< 1	< 2	< 10	8	< 10	2	9	1.00	2.64
1324008089	208	2.65	< 10	< 1	0.32	15	1.22	0.092	0.043	1.21	< 2	2	91	0.04	1	< 2	< 10	18	< 10	2	4	0.17	1.15
1230059049	194	2.17	< 10	< 1	0.39	19	0.69	0.035	0.054	0.71	< 2	1	20	0.04	< 1	< 2	< 10	13	< 10	2	1	0.42	0.73
GC20-0817-001	132	2.38	< 10	< 1	0.35	17	1.58	0.027	0.076	1.33	< 2	1	13	0.01	< 1	< 2	< 10	16	< 10	2	2		
1324008056	197	4.30	< 10	2	0.24	15	1.09	0.084	0.045	3.11	3	2	89	< 0.01	3	< 2	< 10	17	< 10	2	15	0.46	3.05
1324008104	421	2.82	< 10	< 1	0.24	13	0.71	0.253	0.036	1.96	3	1	118	< 0.01	< 1	< 2	< 10	13	< 10	2	9	0.33	1.99
1324008001	249	2.93	< 10	< 1	0.29	17	1.20	0.080	0.045	2.31	2	1	66	< 0.01	< 1	< 2	< 10	11	< 10	3	11	0.24	2.25
1324008117	317	4.06	< 10	< 1	0.28	16	1.22	0.048	0.042	3.51	3	< 1	40	< 0.01	< 1	< 2	< 10	9	< 10	3	19	0.17	3.41
1230058290	160	2.28	< 10	< 1	0.33	17	0.74	0.035	0.044	1.35	< 2	< 1	16	< 0.01	< 1	< 2	< 10	11	< 10	2	5	0.19	1.32
1324008146	355	3.23	< 10	< 1	0.24	14	0.83	0.324	0.040	2.22	< 2	1	157	< 0.01	2	< 2	< 10	13	< 10	2	9	0.26	2.09
1324008063	310	2.54	< 10	< 1	0.28	14	0.68	0.229	0.040	1.54	< 2	< 1	170	0.02	< 1	< 2	< 10	11	< 10	3	4	0.22	1.48
1230058079	270	2.94	< 10	< 1	0.35	14	1.20	0.049	0.072	2.64	3	< 1	10	< 0.01	2	< 2	< 10	9	< 10	2	5	0.36	2.51
1230058283	226	2.56	< 10	< 1	0.34	17	0.67	0.096	0.052	0.80	2	2	46	0.06	< 1	< 2	< 10	29	< 10	3	2	0.21	0.81
1324008015	249	3.90	< 10	< 1	0.32	14	0.97	0.051	0.039	3.15	< 2	< 1	38	< 0.01	< 1	< 2	< 10	9	< 10	2	18	0.09	3.06
1324008199	329	2.51	< 10	< 1	0.27	13	0.92	0.170	0.039	1.16	< 2	1	88	0.03	< 1	< 2	< 10	17	< 10	2	7	0.34	1.14
F001593	14	2.00	< 10	< 1	0.26	13	0.50	0.216	0.048	0.05	< 2	3	31	0.25	5	< 2	< 10	59	< 10	17	9		
1230059318	242	2.49	< 10	< 1	0.58	18	1.51	0.245	0.046	1.37	3	2	55	0.05	< 1	< 2	< 10	20	< 10	3	5	0.49	1.38
1230059164	257	6.02	< 10	2	0.32	14	0.82	0.044	0.044	6.76	5	< 1	8	< 0.01	< 1	< 2	< 10	9	< 10	1	11	0.11	6.52
1230059218	292	5.08	< 10	3	0.27	17	1.03	0.036	0.052	5.51	11	< 1	8	< 0.01	2	< 2	< 10	9	< 10	2	11	0.14	5.09
GC20-0818-004	412	6.76	< 10	2	0.38	16	0.42	0.044	0.039	7.87	6	< 1	8	< 0.01	< 1	< 2	< 10	10	< 10	2	14		
1230059182	279	1.91	< 10	< 1	0.31	17	0.32	0.034	0.056	1.21	2	< 1	14	< 0.01	< 1	< 2	< 10	6	< 10	2	6	0.15	1.19

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230059016	335	2.57	< 10	< 1	0.37	20	0.69	0.055	0.051	1.41	3	1	29	0.02	< 1	< 2	< 10	16	< 10	3	7	0.30	1.35
1324018169	338	3.35	< 10	< 1	0.26	13	0.99	0.198	0.035	1.96	< 2	1	118	< 0.01	< 1	< 2	< 10	10	< 10	2	14	0.25	1.98
GC20-0825-001	483	3.31	< 10	< 1	0.64	25	1.16	0.032	0.069	3.10	4	2	13	0.03	1	< 2	< 10	17	< 10	4	9		
1230058111	264	3.33	< 10	< 1	0.41	< 10	0.75	0.353	0.031	1.25	3	4	56	0.11	1	< 2	< 10	61	< 10	3	9	0.19	1.25
GC20-0816-019	237	5.04	< 10	2	0.37	14	1.31	0.036	0.040	4.77	4	1	7	< 0.01	< 1	< 2	< 10	13	< 10	2	14		
1230059328	313	2.95	< 10	< 1	0.36	15	1.04	0.081	0.047	2.73	4	1	34	0.01	3	< 2	< 10	11	< 10	3	11	0.52	2.63
1230059391	299	4.66	< 10	2	0.31	15	1.11	0.034	0.053	4.60	5	< 1	7	< 0.01	2	< 2	< 10	11	< 10	2	13	0.09	4.39
GC20-0808-007	226	2.97	< 10	< 1	0.33	15	1.21	0.116	0.041	2.36	< 2	1	44	0.02	4	< 2	< 10	15	< 10	4	15		
GC20-0839-001	539	3.67	< 10	2	0.96	18	1.95	0.049	0.040	2.36	4	2	13	0.04	2	< 2	< 10	26	< 10	3	12		
1230059342	243	1.63	< 10	< 1	0.30	18	0.36	0.032	0.050	1.02	< 2	< 1	15	< 0.01	< 1	< 2	< 10	6	< 10	2	7	0.20	0.99
GC20-0802-001	218	2.73	< 10	< 1	0.20	15	0.95	0.124	0.044	2.76	2	< 1	52	0.01	1	< 2	< 10	7	< 10	3	17		
GC20-0803-006	240	3.17	< 10	< 1	0.28	17	0.94	0.221	0.043	3.14	< 2	1	74	0.03	2	< 2	< 10	14	< 10	3	17		
GC20-0840-008	187	3.72	< 10	< 1	0.37	17	1.45	0.034	0.048	3.30	2	1	6	< 0.01	< 1	< 2	< 10	12	< 10	2	15		
1230059344	199	2.51	< 10	< 1	0.39	26	0.84	0.053	0.065	1.18	< 2	1	25	0.03	1	< 2	< 10	18	< 10	3	3	0.14	1.16
GC20-0806-003	491	3.37	< 10	< 1	0.18	15	0.99	0.183	0.041	3.25	3	1	72	0.02	< 1	< 2	< 10	12	< 10	3	13		
1324018137	344	3.22	< 10	< 1	0.28	12	1.21	0.094	0.034	2.39	< 2	< 1	42	0.03	< 1	< 2	< 10	10	< 10	2	14	0.23	2.31
F001592	14	2.24	< 10	< 1	0.20	14	0.41	0.251	0.036	0.03	< 2	2	36	0.33	4	< 2	< 10	53	< 10	16	15		
GC20-0862-003	176	1.56	< 10	< 1	0.25	18	0.48	0.025	0.045	1.32	3	< 1	7	< 0.01	1	< 2	< 10	4	< 10	2	11		
GC20-0832-025	245	4.28	< 10	3	0.43	17	1.39	0.048	0.109	3.74	4	1	12	0.01	< 1	< 2	< 10	15	< 10	3	8		
GC20-0864-002	416	1.57	< 10	< 1	0.51	15	0.30	0.052	0.042	1.17	3	< 1	32	0.02	1	< 2	< 10	8	< 10	2	2		
GC20-0866-019	160	2.51	< 10	< 1	0.51	22	1.11	0.088	0.054	1.89	2	1	39	0.04	2	< 2	< 10	13	< 10	4	3		
GC20-0819-024	414	2.20	< 10	< 1	0.42	20	0.50	0.117	0.042	0.04	< 2	2	51	0.11	< 1	< 2	< 10	25	< 10	3	8		
GC20-0863-018	292	2.32	< 10	< 1	0.45	15	0.49	0.140	0.041	2.21	3	1	57	0.08	1	< 2	< 10	10	< 10	4	11		
GC20-0820-019	295	5.06	< 10	2	0.33	16	1.88	0.029	0.043	3.53	4	1	6	< 0.01	< 1	< 2	< 10	15	< 10	2	13		
GC20-0867-007	336	2.61	< 10	< 1	0.29	15	0.21	0.029	0.043	2.65	3	< 1	10	0.04	< 1	< 2	< 10	7	< 10	3	10		
GC20-0867-020	262	2.63	< 10	< 1	0.44	24	1.26	0.089	0.056	2.18	< 2	2	31	0.05	2	< 2	< 10	18	< 10	3	4		
1324014136	334	2.57	< 10	< 1	0.30	14	0.72	0.176	0.039	2.22	< 2	< 1	54	0.02	3	2	< 10	9	< 10	2	13	0.22	2.21
GC20-0844-005	293	3.59	< 10	< 1	0.68	17	1.42	0.027	0.049	3.27	4	2	17	0.04	< 1	< 2	< 10	20	< 10	4	12		
1324008135	260	2.63	< 10	< 1	0.26	12	0.91	0.085	0.037	2.14	< 2	1	98	< 0.01	< 1	< 2	< 10	10	< 10	2	9	0.25	2.18
GC20-0865-016	320	3.04	< 10	< 1	0.65	18	1.58	0.043	0.051	2.30	3	2	34	0.06	< 1	< 2	< 10	21	< 10	3	9		
1231048113	420	1.39	< 10	< 1	0.44	15	0.26	0.040	0.039	0.79	< 2	< 1	33	0.02	1	< 2	< 10	6	< 10	2	4	0.76	0.77
1324020131	341	2.43	< 10	< 1	0.22	15	1.12	0.263	0.039	1.43	2	1	127	0.02	3	< 2	< 10	13	< 10	3	5	0.30	1.44
1324020235	384	2.45	< 10	< 1	0.23	17	1.21	0.226	0.040	1.37	< 2	1	103	< 0.01	< 1	3	< 10	12	< 10	3	7	0.47	1.36
GC20-0868-009	189	3.11	< 10	< 1	0.61	23	1.71	0.043	0.055	2.80	4	2	28	0.03	< 1	< 2	< 10	16	< 10	3	17		
GC20-0833-024	101	2.47	< 10	< 1	0.43	19	1.61	0.314	0.045	1.87	< 2	2	80	0.03	< 1	< 2	< 10	22	< 10	3	12		
1324014307	121	4.72	< 10	3	0.16	16	1.83	0.034	0.045	3.25	3	2	15	0.02	2	< 2	< 10	25	< 10	6	16	0.16	3.12
GC20-0872-001	220	2.61	< 10	< 1	0.33	16	1.02	0.048	0.066	2.11	< 2	1	22	0.03	< 1	< 2	< 10	13	< 10	4	3		
F001591	13	1.53	< 10	< 1	0.21	18	0.36	0.214	0.039	0.04	< 2	2	35	0.21	2	< 2	< 10	36	< 10	16	9		
1230058279	227	5.11	< 10	2	0.04	< 10	2.18	0.505	0.025	0.10	< 2	11	67	0.20	< 1	< 2	< 10	142	< 10	5	3	0.18	0.12
1230058056	371	2.94	< 10	< 1	0.42	21	0.69	0.059	0.078	2.21	< 2	3	88	0.06	4	< 2	< 10	29	< 10	4	5	0.32	2.16
1324008257	211	2.00	< 10	< 1	0.49	12	1.24	0.061	0.037	0.19	< 2	2	24	0.05	< 1	< 2	< 10	21	< 10	2	4	0.31	0.18
1324008223	295	2.48	< 10	< 1	0.18	14	1.04	0.103	0.041	0.63	< 2	1	144	< 0.01	< 1	< 2	< 10	14	< 10	2	3	0.21	0.63
GC20-0239-004	345	3.22	< 10	< 1	0.26	11	0.57	0.116	0.032	1.61	< 2	< 1	69	0.02	< 1	< 2	< 10	7	< 10	2	14		
GC20-0812-005	247	3.95	< 10	< 1	0.26	13	0.93	0.025	0.059	3.57	3	< 1	8	< 0.01	< 1	< 2	< 10	10	< 10	2	10		
GC20-0810-008	175	1.31	< 10	< 1	0.38	16	0.52	0.032	0.045	1.20	< 2	< 1	16	< 0.01	1	< 2	< 10	7	< 10	1	5		
GC20-0811-023	182	2.70	< 10	< 1	0.53	17	1.34	0.087	0.051	2.56	3	1	25	0.02	3	< 2	< 10	14	< 10	2	13		
GC20-0811-001	234	1.93	< 10	< 1	0.33	20	0.48	0.034	0.066	1.60	2	< 1	11	< 0.01	< 1	< 2	< 10	7	< 10	2	6		
GC20-0139-016	182	3.98	< 10	2	0.32	12	1.11	0.117	0.032	1.16	2	1	72	0.05	1	< 2	< 10	15	< 10	3	10		
1230058004	242	2.77	< 10	< 1	0.67	20	0.57	0.036	0.088	2.97	8	3	98	0.04	2	< 2	< 10	22	< 10	5	11	0.58	2.72
1230058100	336	3.34	< 10	< 1	0.34	12	0.35	0.060	0.041	2.93	3	1	30	0.03	3	< 2	< 10	17	< 10	2	12	0.30	2.23
1324008233	269	4.60	< 10	2	0.03	< 10	1.81	0.562	0.020	0.08	3	7	68	0.22	1	< 2	< 10	131	< 10	4	3	0.16	0.10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230058095	236	1.72	< 10	< 1	0.30	14	0.27	0.036	0.004	1.56	3	< 1	26	< 0.01	< 1	< 2	< 10	5	< 10	1	7	0.04	1.50
1230058172	218	1.75	< 10	< 1	0.25	17	0.41	0.050	0.024	1.32	< 2	< 1	46	< 0.01	2	< 2	< 10	6	< 10	1	7	0.08	1.21
GC20-0814-001	512	4.30	< 10	2	0.41	14	0.94	0.079	0.050	3.51	4	2	34	0.03	< 1	< 2	< 10	22	< 10	3	17		
GC20-0816-001	124	1.53	< 10	< 1	0.49	19	0.53	0.030	0.052	1.09	< 2	< 1	9	0.01	< 1	< 2	< 10	8	< 10	2	7		
F001599	14	1.99	< 10	< 1	0.26	12	0.51	0.212	0.048	0.05	< 2	3	30	0.25	3	< 2	< 10	58	< 10	17	8		
GC20-0240-005	443	3.97	< 10	< 1	0.37	12	0.52	0.049	0.030	2.36	3	< 1	24	0.03	< 1	< 2	< 10	6	< 10	2	18		
1324008391	167	2.38	< 10	< 1	0.15	18	0.86	0.107	0.049	0.80	< 2	1	129	0.02	< 1	< 2	< 10	15	< 10	3	2	0.07	0.83
GC20-0240-011	246	2.47	< 10	< 1	0.15	11	0.86	0.173	0.034	0.91	2	1	97	< 0.01	< 1	< 2	< 10	12	< 10	2	6		
1324008356	215	3.16	< 10	< 1	0.30	13	0.91	0.086	0.038	2.59	2	< 1	40	0.03	< 1	< 2	< 10	10	< 10	2	12	0.13	1.74
1433043322	194	6.39	< 10	< 1	0.22	< 10	1.97	0.275	0.038	2.82	3	9	78	0.10	< 1	< 2	< 10	138	< 10	6	9	0.84	2.62
1230058002	295	2.18	< 10	< 1	0.54	12	0.16	0.023	0.040	2.19	< 2	< 1	49	0.01	1	< 2	< 10	7	< 10	2	10	0.46	2.10
1433004003	305	8.29	< 10	2	0.26	< 10	2.85	0.403	0.038	2.83	3	8	99	0.09	< 1	< 2	< 10	126	< 10	5	6	1.86	3.12
1324008405	257	3.37	< 10	< 1	0.27	14	1.18	0.049	0.037	3.07	2	< 1	37	0.02	1	< 2	< 10	9	< 10	2	17	0.14	2.97
1324008319	337	3.29	< 10	< 1	0.30	12	0.79	0.040	0.037	2.93	2	< 1	17	< 0.01	2	< 2	< 10	8	< 10	2	19	0.15	2.89
1324017191	183	2.62	< 10	< 1	0.34	13	1.28	0.136	0.036	1.88	2	< 1	51	0.03	1	< 2	< 10	10	< 10	3	12	0.18	1.81
1324008457	112	3.14	< 10	< 1	0.16	19	1.24	0.120	0.048	2.32	< 2	2	98	0.03	< 1	< 2	< 10	18	< 10	3	8	0.32	2.34
1324008308	500	2.25	< 10	< 1	0.47	13	1.20	0.069	0.034	0.20	3	2	28	0.05	< 1	< 2	< 10	22	< 10	2	6	0.43	0.20
1230058219	264	4.17	< 10	2	0.27	< 10	1.04	0.208	0.029	2.87	4	7	51	0.09	< 1	< 2	< 10	52	< 10	3	11	0.48	2.88
1433004040	244	2.81	< 10	< 1	0.20	14	1.48	0.118	0.036	0.66	< 2	1	47	< 0.01	< 1	< 2	< 10	16	< 10	2	7	0.31	0.67
1433004038	279	7.81	< 10	< 1	0.21	< 10	2.71	0.316	0.035	2.43	5	10	85	0.09	< 1	< 2	< 10	114	< 10	7	6	2.27	2.64
1433004077	271	9.39	< 10	2	0.26	< 10	2.45	0.314	0.042	3.98	4	11	77	0.13	3	< 2	< 10	139	15	8	9	1.48	4.42
GC20-0228-014	138	2.71	< 10	< 1	0.17	10	0.55	0.140	0.033	1.21	< 2	< 1	80	0.03	< 1	< 2	< 10	7	< 10	2	8		
1324008429	251	3.25	< 10	< 1	0.30	16	1.12	0.049	0.039	3.02	< 2	< 1	35	0.01	1	< 2	< 10	8	< 10	2	18	0.22	2.96
GC20-0130-020	241	2.41	< 10	< 1	0.26	15	1.31	0.178	0.040	0.67	< 2	1	86	0.04	3	< 2	< 10	17	< 10	3	8		
1230058215	270	2.45	< 10	< 1	0.67	17	0.79	0.026	0.057	1.96	2	3	93	0.03	1	< 2	< 10	22	< 10	3	9	0.66	1.93
1433004157	326	6.58	< 10	2	0.75	31	2.07	0.232	0.069	3.87	2	8	70	0.11	5	< 2	< 10	89	< 10	8	14	1.39	3.98
F001598	13	1.81	< 10	< 1	0.23	14	0.44	0.197	0.045	0.05	< 2	2	30	0.23	3	< 2	< 10	52	< 10	18	8		
1433004072	275	6.32	< 10	2	0.15	< 10	2.24	0.247	0.046	1.22	3	6	78	0.07	< 1	< 2	< 10	105	< 10	6	7	0.94	1.28
1324008503	275	3.79	< 10	3	0.04	< 10	1.36	0.643	0.020	0.10	3	4	67	0.18	< 1	< 2	< 10	113	< 10	4	3	0.16	0.12
1324008474	402	2.19	< 10	< 1	0.39	13	1.06	0.154	0.037	0.47	< 2	2	82	0.05	2	< 2	< 10	20	< 10	2	4	0.37	0.45
1324008550	275	3.51	< 10	< 1	0.18	13	1.18	0.190	0.034	3.28	< 2	< 1	139	< 0.01	1	< 2	< 10	9	< 10	2	24	0.08	3.19
GC20-0236-010	161	4.03	< 10	2	0.30	12	0.68	0.143	0.033	2.10	3	< 1	80	0.03	1	< 2	< 10	9	< 10	3	25		
1230058206	224	4.58	< 10	1	0.09	< 10	1.78	0.668	0.021	0.16	3	8	72	0.17	1	< 2	< 10	131	< 10	5	3	0.21	0.17
GC20-0238-001	368	3.59	< 10	< 1	0.35	< 10	0.56	0.132	0.033	2.47	< 2	< 1	75	0.02	1	< 2	< 10	7	< 10	2	23		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GC20-0918-001	
GC20-0911-002	
1223001001	
GC20-0922-001	
GC20-0917-002	
GC20-0916-011	
GC20-0915-002	
GC20-0188-021	
1231047017	
GC20-0925-001	
1223001208	
1231046222	
1231046155	
1223001012	
1323002216	
1323002245	27.6
1323003146	
1323002165	
1323003153	
GC20-0928-013	
F001602	
1324021049	
GC20-0141-018	
1323002080	
1333099062	
1324021135	
1323002084	
1324021079	
1324021181	
1323003018	
1323003042	
1323002041	
1323002009	
1323003001	
1323002058	
GC20-0249-003	
1324021030	
1323002077	
F001601	
1324021246	
1333099150	
1333099096	
1333099076	
1231046117	
1231046049	
GC20-0185-015	
1324021217	
1324021227	
1333099045	
GC20-0159-018	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323002117	
1323002141	
GC20-0938-007	
1231046122	
1324021154	
GC20-0940-012	
1323002091	
GC20-0941-002	
F001600	
1324008212	
1230058016	
GC20-0813-001	
1230058074	
1230058502	
1324008206	
1324008169	
GC20-0814-018	
1230059212	
1324018252	
1230058522	
1230059143	
1230059174	
1230059148	
1230059094	
1324018241	
1324018276	
F001594	
1324008025	
1230059112	
1230059099	
1324008031	
1230059001	
1324008089	
1230059049	
GC20-0817-001	
1324008056	
1324008104	
1324008001	
1324008117	
1230058290	
1324008146	
1324008063	
1230058079	
1230058283	
1324008015	
1324008199	
F001593	
1230059318	
1230059164	
1230059218	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GC20-0818-004	
1230059182	
1230059016	
1324018169	
GC20-0825-001	
1230058111	
GC20-0816-019	
1230059328	
1230059391	
GC20-0808-007	
GC20-0839-001	
1230059342	
GC20-0802-001	
GC20-0803-006	
GC20-0840-008	
1230059344	
GC20-0806-003	
1324018137	
F001592	
GC20-0862-003	
GC20-0832-025	
GC20-0864-002	
GC20-0866-019	
GC20-0819-024	
GC20-0863-018	
GC20-0820-019	
GC20-0867-007	
GC20-0867-020	
1324014136	
GC20-0844-005	
1324008135	
GC20-0865-016	
1231048113	
1324020131	
1324020235	
GC20-0868-009	
GC20-0833-024	
1324014307	
GC20-0872-001	
F001591	
1230058279	
1230058056	
1324008257	
1324008223	
GC20-0239-004	
GC20-0812-005	
GC20-0810-008	
GC20-0811-023	
GC20-0811-001	
GC20-0139-016	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1230058004	
1230058100	
1324008233	
1230058095	
1230058172	
GC20-0814-001	
GC20-0816-001	
F001599	
GC20-0240-005	
1324008391	
GC20-0240-011	
1324008356	
1433043322	
1230058002	
1433004003	
1324008405	
1324008319	
1324017191	
1324008457	
1324008308	
1230058219	
1433004040	
1433004038	
1433004077	
GC20-0228-014	
1324008429	
GC20-0130-020	
1230058215	
1433004157	
F001598	
1433004072	
1324008503	
1324008474	
1324008550	
GC20-0236-010	
1230058206	
GC20-0238-001	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	69	1050	1	22	93	122	6.90	219	< 10	762	0.8	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1070	1	24	95	124	7.18	226	< 10	746	0.8	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	66	1050	1	23	91	119	6.92	218	< 10	715	0.8	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
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BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
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SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.9				8.38																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1				8.37																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.3																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2150	761	< 1	33	57	248	2.79	4		83	0.7	10	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	795	< 1	33	64	259	2.95	7		83	0.8	8	0.41	20
OREAS 922 (AQUA REGIA)								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2130	771	< 1	34	61	249	2.85	5		78	0.7	7	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4320	869	< 1	32	80	331	2.83	7		68	0.7	25	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4510	903	< 1	32	83	345	3.00	8		69	0.7	27	0.42	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4160	868	< 1	31	82	318	2.83	6		56	0.6	24	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								65.9	286	3460	537	12	24	> 5000	> 10000	1.73	75			0.6	8	1.31	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.5	298	3590	553	13	25	> 5000	> 10000	1.78	79			0.6	9	1.58	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	290	3470	542	12	23	> 5000	> 10000	1.75	76			0.6	10	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										341	168	< 1	220	8	26	7.21			137	1.0	3	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	223	7	26	7.38			137	1.0	3	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	231	9	26	7.37			140	1.0	2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3110																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							524																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							506																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1231047017 Orig							21																
1231047017 Dup							21																
1231046222 Orig								0.5	0.6	21	761	4	31	< 2	255	1.70	9	< 10	55	< 0.5	< 2	1.50	11
1231046222 Dup								0.4	1.0	20	744	1	20	< 2	255	1.68	7	< 10	49	< 0.5	< 2	1.49	10
1323002245 Orig																							
1323002245 Dup																							
1323002165 Orig																							
1323002165 Dup																							
1323003153 Orig							574																
1323003153 Dup							518																
GC20-0141-018 Orig							1120																
GC20-0141-018 Dup							1060																
1324021135 Orig								0.6	< 0.5	160	297	3	15	3	68	1.18	13	< 10	17	< 0.5	4	0.86	11
1324021135 Dup								0.9	< 0.5	150	298	3	15	3	68	1.19	14	< 10	18	< 0.5	4	0.86	9
1323003042 Orig																							
1323003042 Dup																							
1324021246 Orig								0.3	< 0.5	131	503	< 1	49	< 2	50	5.03	< 2	< 10	18	< 0.5	2	3.28	23
1324021246 Dup								0.3	< 0.5	126	495	< 1	50	< 2	50	4.96	< 2	< 10	18	< 0.5	< 2	3.26	23
1231046117 Orig							16																
1231046117 Dup							15																
GC20-0938-007 Orig								< 0.2	< 0.5	11	254	< 1	11	2	53	3.00	< 2	< 10	17	< 0.5	2	0.70	7
GC20-0938-007 Dup								< 0.2	< 0.5	11	248	< 1	11	3	52	2.90	2	< 10	16	< 0.5	3	0.68	7
1231046122 Orig							8																
1231046122 Dup							8																
GC20-0941-002 Orig							86																
GC20-0941-002 Dup							82																
1324008212 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324008212 Dup																							
1324008206 Orig	20.1	22.3	2.23	25.1	0.889																		
1324008206 Dup	20.1	21.8	1.66	25.1	0.866																		
1230059148 Orig																							
1230059148 Dup																							
1324018276 Orig								0.7	< 0.5	125	348	1	18	< 2	77	2.54	7	< 10	27	< 0.5	3	0.73	9
1324018276 Dup								0.6	< 0.5	125	348	1	17	< 2	76	2.48	6	< 10	28	< 0.5	2	0.73	9
1230059112 Orig							158																
1230059112 Dup							174																
1230059049 Orig																							
1230059049 Dup																							
1324008117 Orig							170																
1324008117 Dup							143																
1230058290 Orig								1.2	11.9	96	977	< 1	10	12	2220	1.79	30	< 10	22	< 0.5	< 2	0.51	7
1230058290 Dup								1.3	12.0	93	983	< 1	11	11	2260	1.82	29	< 10	22	< 0.5	< 2	0.52	8
1324008063 Orig						8.49																	
1324008063 Dup						8.48																	
1230058079 Orig							411																
1230058079 Dup							436																
1324008199 Orig																							
1324008199 Dup																							
1230059016 Orig								1.6	1.3	54	1060	1	21	56	308	1.60	48	< 10	24	< 0.5	< 2	0.81	11
1230059016 Dup								1.7	1.2	53	1060	1	21	55	311	1.58	49	< 10	27	< 0.5	< 2	0.81	11
1230059342 Orig																							
1230059342 Dup																							
GC20-0803-006 Orig							74																
GC20-0803-006 Dup							70																
GC20-0806-003 Orig								0.2	< 0.5	11	582	2	23	2	70	2.77	10	< 10	12	< 0.5	3	1.17	10
GC20-0806-003 Dup								0.2	< 0.5	11	595	1	23	3	71	2.86	7	< 10	14	< 0.5	3	1.18	10
GC20-0819-024 Orig							11																
GC20-0819-024 Dup							10																
GC20-0867-020 Orig							169																
GC20-0867-020 Dup							180																
1231048113 Orig								1.3	< 0.5	32	650	< 1	18	7	85	1.09	41	< 10	42	< 0.5	< 2	2.43	6
1231048113 Dup								1.2	< 0.5	31	646	< 1	18	7	84	1.06	40	< 10	36	< 0.5	< 2	2.43	6
1324020235 Orig	34.0	30.7	-3.35	41.7	0.737																		
1324020235 Dup	34.0	30.8	-3.25	41.7	0.739																		
1324008257 Orig																							
1324008257 Dup																							
GC20-0810-008 Orig								1.3	< 0.5	18	960	1	13	40	124	1.09	118	< 10	29	< 0.5	< 2	1.53	8
GC20-0810-008 Dup								1.3	0.5	17	965	1	13	40	124	1.10	118	< 10	20	< 0.5	4	1.54	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0811-001 Orig							159																
GC20-0811-001 Dup							160																
GC20-0240-005 Orig							1420																
GC20-0240-005 Dup							1580																
1324008391 Orig								0.3	1.0	40	550	< 1	11	16	418	3.52	7	< 10	35	< 0.5	3	1.20	10
1324008391 Dup								0.3	1.5	38	552	< 1	11	16	421	3.49	6	< 10	36	< 0.5	5	1.19	10
1433043322 Orig							553																
1433043322 Dup							552																
1230058002 Orig																							
1230058002 Dup																							
1433004077 Orig								2.4	2.3	156	1340	< 1	130	< 2	538	4.54	28	< 10	12	< 0.5	3	3.41	41
1433004077 Dup								2.4	2.6	163	1380	< 1	134	< 2	545	4.73	28	< 10	14	< 0.5	3	3.40	41
1324008429 Orig																							
1324008429 Dup																							
1324008550 Orig						8.00	102																
1324008550 Dup						8.09	122																
1230058206 Orig	5.31	11.9	6.63	5.21	2.29																		
1230058206 Dup	5.31	11.7	6.41	5.21	2.25																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
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Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	78	5.48	20	1	1.12	10	0.39	0.138	0.033	0.01	5	20	30		< 1	< 2	< 10	167	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	78	5.80	20	3	1.14	11	0.40	0.139	0.034	0.01	4	21	30		< 1	< 2	< 10	170	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.53	20	2	1.08	10	0.38	0.142	0.033	0.01	3	20	30		< 1	< 2	< 10	165	< 10	5	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
SGR-1b Meas																						27.5	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.64
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.66
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.65

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.60
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	4.87	< 10		0.48	38	1.32	0.038	0.059	0.35	3	4	16			< 2	< 10	35	< 10	20	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	48	5.27	< 10		0.49	40	1.39	0.038	0.063	0.38	3	4	17			< 2	< 10	37	< 10	21	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.13	< 10		0.47	38	1.30	0.038	0.061	0.37	2	4	16			< 2	< 10	35	< 10	20	10		
OREAS 922	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	41	5.73	< 10		0.42	36	1.43		0.059	0.65	3	4	14			< 2	< 10	36	< 10	19	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	43	6.13	< 10		0.42	37	1.48		0.060	0.70	3	4	15			< 2	< 10	36	< 10	19	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.38		0.057	0.66	2	4	14			< 2	< 10	34	< 10	18	14		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	32	3.22	10	4	0.38	18	0.43	0.185	0.032	4.15	117	2	16			3	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.34	< 10	4	0.39	20	0.45	0.194	0.033	4.62	127	2	18			< 2	< 10	13	< 10	8	73		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	19	0.42	0.182	0.032	4.63	95	2	18			< 2	< 10	12	< 10	7	50		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	339	13.5	20	< 1	0.11	11	0.18	0.054	0.020	0.02		27	14	0.10		< 2	< 10	196		5	12		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	337	14.1	20	< 1	0.11	11	0.18	0.053	0.020	0.02		27	15	0.10		< 2	< 10	200		5	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	336	14.1	20	< 1	0.10	11	0.18	0.058	0.021	0.02		28	14	0.11		< 2	< 10	199		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1231047017 Orig																							
1231047017 Dup																							
1231046222 Orig	204	2.52	< 10	< 1	0.51	18	0.89	0.096	0.050	0.65	< 2	2	43	0.11	1	< 2	< 10	27	< 10	3	6		
1231046222 Dup	202	2.44	< 10	< 1	0.51	18	0.89	0.095	0.050	0.65	< 2	2	42	0.11	3	< 2	< 10	27	< 10	3	6		
1323002245 Orig																							
1323002245 Dup																							
1323002165 Orig																						0.44	2.53
1323002165 Dup																						0.43	2.47
1323003153 Orig																							
1323003153 Dup																							
GC20-0141-018 Orig																							
GC20-0141-018 Dup																							
1324021135 Orig	229	2.77	< 10	< 1	0.17	15	0.83	0.067	0.038	2.25	2	1	34	< 0.01	3	< 2	< 10	12	< 10	3	14		
1324021135 Dup	228	2.78	< 10	< 1	0.17	15	0.83	0.067	0.039	2.26	< 2	1	34	< 0.01	3	< 2	< 10	12	< 10	3	14		
1323003042 Orig																						0.37	0.67
1323003042 Dup																						0.37	0.68
1324021246 Orig	200	4.61	< 10	1	0.04	< 10	1.80	0.502	0.020	0.16	3	6	71	0.21	1	< 2	< 10	121	< 10	4	3		
1324021246 Dup	197	4.48	< 10	2	0.04	< 10	1.76	0.486	0.019	0.15	< 2	6	69	0.21	< 1	< 2	< 10	119	< 10	4	3		
1231046117 Orig																						0.48	0.38
1231046117 Dup																						0.48	0.38
GC20-0938-007 Orig	117	1.74	< 10	< 1	0.05	18	0.94	0.063	0.042	0.13	< 2	1	48	< 0.01	1	< 2	< 10	15	< 10	1	2		
GC20-0938-007 Dup	113	1.70	< 10	< 1	0.05	17	0.92	0.061	0.040	0.13	< 2	1	47	< 0.01	< 1	< 2	< 10	14	< 10	1	2		
1231046122 Orig																							
1231046122 Dup																							
GC20-0941-002 Orig																							
GC20-0941-002 Dup																							
1324008212 Orig																						0.20	1.36
1324008212 Dup																						0.20	1.33
1324008206 Orig																							
1324008206 Dup																							
1230059148 Orig																						0.27	3.27
1230059148 Dup																						0.26	3.26
1324018276 Orig	330	2.89	< 10	< 1	0.22	12	1.23	0.201	0.034	1.37	< 2	1	92	< 0.01	< 1	< 2	< 10	14	< 10	2	12		
1324018276 Dup	326	2.87	< 10	< 1	0.22	12	1.22	0.197	0.033	1.32	2	1	91	< 0.01	< 1	< 2	< 10	14	< 10	2	12		
1230059112 Orig																							
1230059112 Dup																							
1230059049 Orig																						0.42	0.72
1230059049 Dup																						0.42	0.73

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324008117 Orig																							
1324008117 Dup																							
1230058290 Orig	159	2.27	< 10	< 1	0.32	17	0.73	0.034	0.044	1.35	2	< 1	16	< 0.01	< 1	< 2	< 10	11	< 10	2	5		
1230058290 Dup	161	2.29	< 10	< 1	0.33	17	0.74	0.035	0.044	1.36	< 2	< 1	16	< 0.01	1	< 2	< 10	11	< 10	2	6		
1324008063 Orig																							
1324008063 Dup																							
1230058079 Orig																							
1230058079 Dup																							
1324008199 Orig																						0.35	1.12
1324008199 Dup																						0.34	1.15
1230059016 Orig	323	2.56	< 10	< 1	0.37	20	0.69	0.057	0.051	1.42	3	1	29	0.02	< 1	2	< 10	16	< 10	3	6		
1230059016 Dup	348	2.58	< 10	< 1	0.37	20	0.69	0.054	0.051	1.41	3	1	29	0.02	< 1	< 2	< 10	16	< 10	3	8		
1230059342 Orig																						0.20	0.98
1230059342 Dup																						0.19	1.01
GC20-0803-006 Orig																							
GC20-0803-006 Dup																							
GC20-0806-003 Orig	484	3.32	< 10	< 1	0.18	15	0.98	0.181	0.040	3.21	3	1	71	0.02	1	< 2	< 10	12	< 10	3	12		
GC20-0806-003 Dup	498	3.41	< 10	< 1	0.18	16	1.00	0.185	0.041	3.28	2	1	73	0.02	< 1	< 2	< 10	12	< 10	3	13		
GC20-0819-024 Orig																							
GC20-0819-024 Dup																							
GC20-0867-020 Orig																							
GC20-0867-020 Dup																							
1231048113 Orig	423	1.39	< 10	< 1	0.45	15	0.26	0.041	0.039	0.80	< 2	< 1	33	0.02	1	< 2	< 10	6	< 10	2	6		
1231048113 Dup	416	1.38	< 10	< 1	0.43	15	0.26	0.039	0.038	0.79	3	< 1	32	0.02	1	< 2	< 10	6	< 10	2	3		
1324020235 Orig																							
1324020235 Dup																							
1324008257 Orig																						0.30	0.18
1324008257 Dup																						0.33	0.19
GC20-0810-008 Orig	175	1.30	< 10	< 1	0.38	16	0.52	0.032	0.046	1.20	< 2	< 1	16	< 0.01	1	< 2	< 10	7	< 10	1	6		
GC20-0810-008 Dup	175	1.31	< 10	< 1	0.38	16	0.52	0.031	0.045	1.20	< 2	< 1	16	< 0.01	1	3	< 10	7	< 10	1	4		
GC20-0811-001 Orig																							
GC20-0811-001 Dup																							
GC20-0240-005 Orig																							
GC20-0240-005 Dup																							
1324008391 Orig	168	2.37	< 10	< 1	0.15	18	0.85	0.107	0.049	0.80	< 2	1	131	0.02	< 1	< 2	< 10	15	< 10	3	2		
1324008391 Dup	165	2.39	< 10	< 1	0.15	18	0.86	0.106	0.050	0.81	3	1	127	0.02	< 1	< 2	< 10	15	< 10	2	2		
1433043322 Orig																							
1433043322 Dup																							
1230058002 Orig																						0.47	2.16
1230058002 Dup																						0.46	2.04
1433004077 Orig	271	9.22	< 10	2	0.25	< 10	2.41	0.308	0.041	3.96	4	11	76	0.12	2	< 2	< 10	137	15	7	8		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433004077 Dup	270	9.55	10	1	0.26	< 10	2.50	0.320	0.042	4.00	4	11	78	0.13	4	< 2	< 10	141	15	8	9		
1324008429 Orig																						0.21	2.95
1324008429 Dup																						0.22	2.98
1324008550 Orig																							
1324008550 Dup																							
1230058206 Orig																							
1230058206 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
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Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
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BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
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SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
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GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA)	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.4
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	13.5
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1231047017 Orig	
1231047017 Dup	
1231046222 Orig	
1231046222 Dup	
1323002245 Orig	27.7
1323002245 Dup	27.5
1323002165 Orig	
1323002165 Dup	
1323003153 Orig	
1323003153 Dup	
GC20-0141-018 Orig	
GC20-0141-018 Dup	
1324021135 Orig	
1324021135 Dup	
1323003042 Orig	
1323003042 Dup	
1324021246 Orig	
1324021246 Dup	
1231046117 Orig	
1231046117 Dup	
GC20-0938-007 Orig	
GC20-0938-007 Dup	
1231046122 Orig	
1231046122 Dup	
GC20-0941-002 Orig	
GC20-0941-002 Dup	
1324008212 Orig	
1324008212 Dup	
1324008206 Orig	
1324008206 Dup	
1230059148 Orig	
1230059148 Dup	
1324018276 Orig	
1324018276 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1230059112 Orig	
1230059112 Dup	
1230059049 Orig	
1230059049 Dup	
1324008117 Orig	
1324008117 Dup	
1230058290 Orig	
1230058290 Dup	
1324008063 Orig	
1324008063 Dup	
1230058079 Orig	
1230058079 Dup	
1324008199 Orig	
1324008199 Dup	
1230059016 Orig	
1230059016 Dup	
1230059342 Orig	
1230059342 Dup	
GC20-0803-006 Orig	
GC20-0803-006 Dup	
GC20-0806-003 Orig	
GC20-0806-003 Dup	
GC20-0819-024 Orig	
GC20-0819-024 Dup	
GC20-0867-020 Orig	
GC20-0867-020 Dup	
1231048113 Orig	
1231048113 Dup	
1324020235 Orig	
1324020235 Dup	
1324008257 Orig	
1324008257 Dup	
GC20-0810-008 Orig	
GC20-0810-008 Dup	
GC20-0811-001 Orig	
GC20-0811-001 Dup	
GC20-0240-005 Orig	
GC20-0240-005 Dup	
1324008391 Orig	
1324008391 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1433043322 Orig	
1433043322 Dup	
1230058002 Orig	
1230058002 Dup	
1433004077 Orig	
1433004077 Dup	
1324008429 Orig	
1324008429 Dup	
1324008550 Orig	
1324008550 Dup	
1230058206 Orig	
1230058206 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-11587**
Report Date: **24-Nov-20**
Date Submitted: **24-Sep-20**
Your Reference: **2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

188 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-02 21:29:48
4F-C, S	Infrared	2020-10-07 21:08:15

REPORT **A20-11587**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-11587**
Report Date: **24-Nov-20**
Date Submitted: **24-Sep-20**
Your Reference: **2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

188 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-10-07 08:20:08
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-10-08 13:11:39
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-05 10:10:16

REPORT **A20-11587**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0234-018							133	0.3	< 0.5	41	434	< 1	13	6	29	2.73	3	< 10	53	< 0.5	5	0.57	6
1324008552	21.6	7.46	-14.1	24.5	0.304	8.52	113	0.4	< 0.5	173	525	< 1	27	< 2	82	4.15	5	< 10	44	< 0.5	3	1.89	11
1324017123	57.6	11.0	-46.6	62.2	0.177	8.32	508	1.7	< 0.5	379	569	< 1	16	3	62	2.04	13	< 10	24	< 0.5	4	0.68	11
1324017169	71.9	16.3	-55.6	78.1	0.208	8.36	150	0.6	< 0.5	113	345	< 1	17	< 2	88	2.13	11	< 10	15	< 0.5	3	0.76	9
1324017159	55.2	14.6	-40.6	60.0	0.242	8.32	140	1.1	< 0.5	175	623	1	15	7	90	2.03	10	< 10	17	< 0.5	5	1.16	8
1324008298	97.3	3.74	-93.5	111	0.0338	7.57	466	0.9	< 0.5	283	446	< 1	25	7	78	2.05	17	< 10	14	< 0.5	9	0.34	12
1324008480	101	8.49	-92.1	111	0.0766	7.86	378	0.6	< 0.5	22	355	< 1	12	5	71	1.32	26	< 10	10	< 0.5	7	0.44	7
1230058109	5.00	10.5	5.46	4.90	2.14	8.30	15	0.2	< 0.5	141	698	< 1	59	< 2	76	5.13	< 2	< 10	26	< 0.5	3	3.34	25
1230058275	36.8	44.4	7.67	42.3	1.05	8.58	103	1.0	3.5	33	948	< 1	13	87	845	1.12	74	< 10	35	< 0.5	2	1.74	9
GC20-0242-001							613	0.4	0.6	51	266	< 1	8	8	54	1.41	12	< 10	41	< 0.5	4	0.49	8
GC20-0241-019							347	0.5	< 0.5	50	329	2	16	< 2	122	2.91	8	< 10	39	< 0.5	3	1.12	10
GC20-0241-020							354	1.5	0.7	39	323	1	14	< 2	188	2.42	12	< 10	32	< 0.5	3	0.74	9
1433004192	73.3	89.0	15.6	87.9	1.01	8.08	667	2.9	3.7	126	1390	< 1	113	< 2	535	4.82	16	< 10	34	< 0.5	3	3.50	32
GC20-0237-014							1580	0.9	< 0.5	200	197	< 1	12	< 2	17	3.10	7	< 10	29	< 0.5	8	1.20	6
F001597							1040	3.0	< 0.5	31	271	< 1	9	15	43	1.27	< 2	< 10	45	< 0.5	< 2	0.75	9
1324018221	39.4	7.06	-32.3	42.9	0.165	8.40	119	0.9	< 0.5	257	324	7	16	< 2	42	3.84	6	< 10	30	< 0.5	5	1.46	9
GC20-0824-001							731	27.0	24.8	1190	267	< 1	23	1510	4710	1.04	693	< 10	< 10	< 0.5	17	0.14	9
GC20-0822-001							207	1.8	25.4	129	1110	< 1	25	27	5470	1.75	164	< 10	14	< 0.5	2	0.13	11
GC20-0828-002							> 5000	> 100	107	1270	711	< 1	34	> 5000	> 10000	0.97	1320	< 10	< 10	< 0.5	17	0.13	10
GC20-0807-001							91	0.5	< 0.5	61	467	< 1	15	3	130	1.78	17	< 10	25	< 0.5	4	0.66	10
GC20-0823-005							4020	22.3	23.5	1230	276	< 1	22	1280	5180	0.83	866	< 10	< 10	< 0.5	16	0.16	9
GC20-0830-004							128	3.7	< 0.5	32	1150	1	28	20	74	1.93	53	< 10	20	< 0.5	< 2	0.55	14
GC20-0833-008							2980	14.4	3.9	747	1080	< 1	26	36	839	1.99	242	< 10	12	< 0.5	3	0.14	10
GC20-0848-001							434	5.2	2.2	14	909	< 1	32	238	550	1.67	113	< 10	24	< 0.5	< 2	0.22	13
GC20-0831-001							104	4.0	0.8	76	934	5	43	80	177	2.24	80	< 10	19	0.5	5	1.24	25
GC20-0829-009							217	6.8	25.8	70	1250	2	26	191	5260	1.99	151	< 10	< 10	< 0.5	< 2	0.24	10
1230059307	46.0	29.4	-16.7	56.0	0.524	8.52	414	3.0	1.6	38	1530	1	26	204	414	1.75	88	< 10	28	< 0.5	< 2	1.19	11
GC20-0845-002							113	3.7	0.5	24	1460	< 1	32	34	151	1.84	84	< 10	20	< 0.5	< 2	0.28	16
GC20-0847-001							546	8.8	3.7	14	2380	< 1	28	197	1010	2.30	72	< 10	19	< 0.5	< 2	2.73	12
1324018196	54.6	8.81	-45.8	62.8	0.140	8.36	400	1.4	< 0.5	443	398	7	15	< 2	55	2.70	11	< 10	24	< 0.5	11	0.68	9
1324018167	46.8	10.3	-36.5	53.3	0.193	8.25	392	1.0	< 0.5	296	306	1	21	< 2	38	3.45	9	< 10	28	< 0.5	9	1.27	6
GC20-0834-013							288	13.9	33.5	177	1570	1	25	95	6460	2.05	163	< 10	16	< 0.5	2	0.35	10
GC20-0838-013							331	12.1	1.2	7	1810	< 1	22	248	337	2.55	49	< 10	33	< 0.5	< 2	1.06	10
GC20-0850-009							92	1.3	< 0.5	26	837	< 1	21	8	63	1.34	28	< 10	23	< 0.5	2	2.00	12
GC20-0838-004							85	1.9	< 0.5	14	1610	< 1	26	22	104	2.70	42	< 10	37	< 0.5	3	1.01	11
GC20-0851-014							31	1.5	< 0.5	19	816	< 1	19	11	61	2.62	42	< 10	23	< 0.5	3	2.38	11
1230059270	44.3	3.67	-40.6	53.0	0.0693	7.95	95	1.4	2.4	62	1010	< 1	15	42	573	2.06	49	< 10	26	< 0.5	< 2	0.29	10
F001596							1970	4.1	< 0.5	23	211	15	7	21	36	1.22	< 2	< 10	41	< 0.5	< 2	0.71	5
GC20-0827-015							544	4.8	11.4	57	909	< 1	28	82	2450	1.44	228	< 10	18	< 0.5	< 2	0.38	12
GC20-0851-003							76	1.7	< 0.5	27	1270	< 1	27	10	47	1.88	35	< 10	27	< 0.5	2	2.21	12
GC20-0155-015							2420	0.9	< 0.5	321	226	< 1	14	3	26	2.12	10	< 10	28	< 0.5	4	0.94	9
GC20-0852-005							44	0.8	< 0.5	13	1060	< 1	20	7	47	1.57	22	< 10	32	< 0.5	< 2	0.61	13
GC20-0852-001							70	2.8	< 0.5	13	1040	< 1	30	18	69	1.51	51	< 10	22	< 0.5	< 2	0.72	15
GC20-0864-019							194	9.6	0.7	42	1850	< 1	31	38	205	2.54	63	< 10	21	< 0.5	< 2	2.00	11
GC20-0853-001							99	2.9	< 0.5	10	739	< 1	31	15	83	2.16	62	< 10	12	< 0.5	< 2	0.45	13
GC20-0852-022							1350	34.7	0.9	36	1560	2	24	56	167	1.59	137	< 10	23	< 0.5	3	2.65	10
GC20-0854-001							226	9.6	0.6	35	1330	< 1	33	66	254	2.22	71	< 10	19	< 0.5	< 2	0.72	13
GC20-0860-001							89	2.5	0.8	37	711	< 1	32	100	194	1.55	26	< 10	35	< 0.5	2	1.21	8
GC20-0860-017							247	9.9	< 0.5	28	447	< 1	29	19	75	1.13	124	< 10	23	< 0.5	3	0.60	13

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0832-016							920	9.1	6.7	171	1870	< 1	26	135	1380	2.36	150	< 10	29	< 0.5	< 2	0.83	10
1230059295	69.0	17.1	-52.0	85.4	0.200	8.35	1380	2.9	30.6	93	598	< 1	19	102	7300	0.82	301	< 10	16	< 0.5	< 2	0.68	11
GC20-0858-001							497	2.0	3.6	38	699	< 1	26	256	881	1.63	133	< 10	25	< 0.5	< 2	0.31	10
1230059260	38.5	4.91	-33.6	43.5	0.113	8.43	215	2.1	1.7	49	964	< 1	15	142	411	1.25	98	< 10	28	< 0.5	3	0.31	11
1230059282	31.5	6.61	-24.8	36.1	0.183	8.15	152	0.7	0.7	23	843	< 1	21	21	161	1.80	99	< 10	38	< 0.5	< 2	0.61	9
GC20-0858-020							15	< 0.2	< 0.5	5	449	< 1	20	5	60	2.21	3	< 10	76	< 0.5	< 2	1.30	8
GC20-0818-016							180	5.3	9.5	17	1340	< 1	25	96	2250	2.66	58	< 10	17	< 0.5	< 2	1.39	11
GC20-0856-001							251	6.2	< 0.5	28	1490	< 1	28	27	111	2.34	114	< 10	25	< 0.5	< 2	0.71	13
GC20-0809-012							278	1.5	4.7	52	885	< 1	12	5	1330	2.15	24	< 10	15	< 0.5	< 2	0.53	9
GC20-0861-001							140	2.0	< 0.5	11	969	< 1	19	20	43	0.92	61	< 10	24	< 0.5	3	0.20	11
GC20-0815-018							657	7.2	13.0	217	939	< 1	22	595	2640	1.37	430	< 10	< 10	< 0.5	6	0.23	9
GC20-0815-016							1150	5.0	10.0	147	880	< 1	27	699	1960	1.46	381	< 10	< 10	< 0.5	5	0.26	10
GC20-0859-014							60	1.3	< 0.5	68	3040	< 1	386	6	169	4.23	136	< 10	32	< 0.5	2	2.44	54
GC20-0855-026							17	< 0.2	< 0.5	35	566	< 1	14	4	47	1.53	6	< 10	31	< 0.5	< 2	1.80	9
GC20-0855-025							18	0.2	< 0.5	138	463	< 1	10	< 2	25	1.58	4	< 10	25	< 0.5	< 2	1.45	9
F001595							1030	2.9	< 0.5	32	270	1	9	17	43	1.33	< 2	< 10	44	< 0.5	< 2	0.77	10
GC20-0226-001							165	0.4	< 0.5	50	370	< 1	16	4	67	2.37	32	< 10	26	< 0.5	4	0.71	9
GC20-0230-002							171	0.2	< 0.5	76	250	< 1	9	3	24	2.28	4	< 10	29	< 0.5	7	0.99	6
GC20-0229-001							516	1.0	< 0.5	208	258	< 1	12	< 2	31	2.59	6	< 10	26	< 0.5	9	1.00	7
GC20-0232-018							167	0.5	< 0.5	106	358	2	15	< 2	97	2.04	11	< 10	38	< 0.5	2	1.12	13
1324013022	46.3	9.97	-36.4	50.2	0.198	8.56	41	0.4	< 0.5	100	270	< 1	20	< 2	90	2.35	5	< 10	28	< 0.5	3	0.84	7
GC20-0228-001							290	1.0	< 0.5	61	363	< 1	19	14	46	1.61	29	< 10	22	< 0.5	4	0.27	10
1324013052	38.4	13.4	-25.0	42.3	0.317	8.52	159	0.3	< 0.5	48	343	< 1	14	2	76	2.31	7	< 10	32	< 0.5	5	0.84	10
1324013007	49.7	11.2	-38.5	54.2	0.207	8.41	56	0.3	< 0.5	34	243	2	21	< 2	25	3.37	5	< 10	27	< 0.5	7	1.49	6
1433004382	12.7	94.6	81.9	19.3	4.90	8.65	72	0.5	2.2	89	996	< 1	66	< 2	422	3.16	5	< 10	35	< 0.5	2	3.23	28
1324013015	29.1	17.3	-11.7	32.5	0.534	8.69	31	0.8	< 0.5	163	288	7	20	< 2	53	3.15	3	< 10	45	< 0.5	2	1.76	7
GC20-0227-005							452	3.4	< 0.5	130	316	< 1	17	30	32	1.60	32	< 10	27	< 0.5	6	0.55	9
1324013077	39.0	9.16	-29.8	42.3	0.217	8.54	127	0.3	< 0.5	41	265	< 1	16	< 2	51	2.06	7	< 10	30	< 0.5	4	0.69	12
1324013004	35.2	8.84	-26.4	38.3	0.231	8.40	289	0.8	< 0.5	92	287	2	16	< 2	43	2.41	4	< 10	32	< 0.5	5	1.01	7
1231037115	33.8	17.3	-16.6	37.1	0.467	8.34	50	2.2	0.5	21	373	< 1	12	12	306	0.97	29	< 10	25	< 0.5	< 2	1.00	5
GC20-0801-014							6	0.3	< 0.5	101	773	< 1	76	< 2	44	4.34	< 2	< 10	11	< 0.5	< 2	2.52	30
GC20-0801-011							7	< 0.2	< 0.5	101	566	< 1	63	< 2	47	4.93	< 2	< 10	14	< 0.5	2	3.08	25
GC20-0230-019							293	0.8	< 0.5	102	264	3	14	< 2	31	2.81	10	< 10	26	< 0.5	4	1.12	8
GC20-0232-001							> 5000	1.1	< 0.5	216	295	< 1	10	3	32	1.49	11	< 10	24	< 0.5	4	0.67	8
1324008523	34.5	27.3	-7.15	38.9	0.702	8.42	87	0.8	< 0.5	209	636	< 1	26	4	149	1.89	9	< 10	30	< 0.5	3	1.41	7
GC20-0234-001							97	0.6	< 0.5	32	410	< 1	30	6	90	2.51	21	< 10	28	< 0.5	4	1.52	11
F001603							753	4.4	< 0.5	28	246	< 1	9	11	38	1.23	< 2	< 10	40	< 0.5	< 2	0.69	10
GC20-0251-001							94	0.3	1.4	41	844	< 1	30	141	239	2.07	30	< 10	46	< 0.5	< 2	2.36	16
1324021254	55.4	6.46	-49.0	58.5	0.110	8.36	40	0.3	< 0.5	41	214	2	17	< 2	31	2.89	4	< 10	23	< 0.5	4	1.28	8
GC20-0255-001							88	0.3	< 0.5	23	363	< 1	13	17	99	0.82	41	< 10	22	< 0.5	< 2	0.36	10
1323004101	58.6	59.2	0.588	64.6	0.917	8.51	124	2.0	1.7	42	1110	< 1	18	39	404	1.36	34	< 10	21	< 0.5	3	2.40	11
1323004139	63.9	19.8	-44.2	68.6	0.288	8.56	152	1.0	1.0	56	660	< 1	15	6	264	1.98	15	< 10	22	< 0.5	5	1.18	10
1323004157	64.3	35.7	-28.5	68.6	0.521	8.47	189	1.9	0.6	21	957	< 1	14	13	211	1.56	30	< 10	22	< 0.5	5	1.61	11
1323004122	47.1	68.3	21.2	52.7	1.30	8.64	125	1.5	0.7	27	1070	< 1	13	33	172	1.06	33	< 10	28	< 0.5	< 2	2.50	9
1323004178	35.1	50.8	15.8	40.4	1.26	8.54	137	2.0	0.8	23	762	< 1	13	23	167	0.85	34	< 10	23	< 0.5	2	1.87	10
1230060070	103	10.4	-92.9	117	0.0883	8.16	956	10.4	15.6	189	1180	< 1	21	130	3500	1.50	136	< 10	13	< 0.5	< 2	0.54	11
GC20-0252-003							54	0.2	< 0.5	24	584	< 1	12	16	108	0.97	31	< 10	38	< 0.5	3	2.00	8
GC20-0257-011							5	0.2	< 0.5	126	561	< 1	56	< 2	51	5.55	< 2	< 10	16	< 0.5	3	3.56	23
GC20-0253-							13	0.3	< 0.5	109	585	< 1	47	9	62	4.18	7	< 10	34	< 0.5	< 2	2.69	24

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
009FD																							
GC20-0256-013							7	0.2	< 0.5	112	560	< 1	56	< 2	52	4.76	< 2	< 10	21	< 0.5	3	3.08	25
1324021093	35.9	11.9	-24.0	39.8	0.299	8.59	56	0.9	< 0.5	150	337	1	11	< 2	108	2.19	6	< 10	29	< 0.5	8	0.85	8
1230060142	166	2.75	-163	175	0.0157	7.28	531	17.9	5.6	490	966	< 1	19	383	1300	1.08	423	< 10	< 10	< 0.5	7	0.13	9
1324022130	67.1	9.96	-57.1	72.3	0.138	8.28	127	1.5	2.9	65	754	< 1	14	199	778	1.85	18	< 10	17	< 0.5	3	0.64	10
1323004094	39.4	37.3	-2.10	46.2	0.806	8.30	122	1.2	0.8	36	717	< 1	15	26	217	2.09	23	< 10	20	< 0.5	< 2	2.10	10
1323004024	80.3	47.3	-33.0	87.3	0.542	8.37	249	2.6	2.1	40	698	2	15	23	563	1.64	46	< 10	21	< 0.5	< 2	2.00	10
1323004060	76.3	24.2	-52.1	82.1	0.295	8.51	178	1.3	2.4	63	546	1	26	6	558	2.25	14	< 10	17	< 0.5	3	1.48	14
1324021029	17.8	10.1	-7.75	20.5	0.490	8.84	74	0.4	< 0.5	159	542	< 1	42	< 2	79	3.38	3	< 10	44	< 0.5	2	1.70	15
1324022108	42.4	17.6	-24.8	46.5	0.377	8.55	623	0.6	1.1	71	683	1	16	6	288	2.66	14	< 10	30	< 0.5	5	1.65	10
1230060122	30.9	12.2	-18.7	34.6	0.353	8.62	96	2.3	1.4	38	1190	1	11	53	410	0.64	74	< 10	23	< 0.5	< 2	0.55	7
1230060082	46.3	3.35	-43.0	52.1	0.0643	8.05	132	4.6	4.2	73	1260	1	12	294	953	1.02	134	< 10	20	< 0.5	3	0.29	10
1230060068	169	2.86	-166	176	0.0162	7.06	989	16.8	9.4	394	326	< 1	23	783	2070	0.60	342	< 10	< 10	< 0.5	10	0.15	11
F001604							1860	4.5	< 0.5	26	228	17	8	22	38	1.24	< 2	< 10	42	< 0.5	< 2	0.77	5
GC20-0870-006							285	9.2	0.6	29	1660	< 1	23	61	141	1.67	77	< 10	19	< 0.5	< 2	0.76	13
1324014186	52.5	13.8	-38.7	57.0	0.243	8.38	77	0.4	< 0.5	38	410	< 1	27	7	108	2.35	20	< 10	26	< 0.5	5	1.27	8
GC20-0873-007							268	6.6	< 0.5	21	1080	< 1	28	25	116	2.19	49	< 10	28	< 0.5	< 2	0.79	13
1324014252	8.22	51.4	43.2	11.9	4.30	9.25	65	0.5	0.5	138	724	< 1	16	3	94	1.15	3	< 10	83	< 0.5	< 2	2.00	7
1324014414	16.0	39.6	23.6	20.2	1.96	9.00	154	0.3	0.6	31	547	< 1	26	4	128	1.41	4	< 10	65	< 0.5	4	1.68	8
1324017527	49.8	11.2	-38.5	57.3	0.196	8.48	138	0.7	7.3	138	525	< 1	22	2	1600	2.86	25	< 10	20	< 0.5	5	1.12	10
GC20-0874-009							99	3.5	< 0.5	30	1150	< 1	31	27	208	2.41	66	< 10	23	< 0.5	3	0.34	12
1235003014	10.3	27.9	17.6	10.1	2.76	8.61	7	< 0.2	< 0.5	26	532	< 1	17	4	74	2.39	4	< 10	49	< 0.5	< 2	2.07	9
GC20-0874-026							11	< 0.2	< 0.5	13	500	< 1	32	5	53	2.03	4	< 10	58	< 0.5	2	1.17	12
1235003134	3.12	36.8	33.7	6.13	6.01	9.23	< 5	< 0.2	< 0.5	15	341	< 1	22	2	66	2.12	6	< 10	71	< 0.5	< 2	2.27	8
1324020061	53.5	16.9	-36.6	59.1	0.286	8.74	133	1.1	0.9	38	579	< 1	21	8	232	2.01	16	< 10	38	< 0.5	3	1.14	11
GC20-0882-025							395	1.7	2.6	23	266	< 1	12	13	563	0.60	2580	< 10	25	< 0.5	3	0.35	10
GC20-0876-001							73	2.2	0.5	17	987	< 1	23	86	105	0.90	124	< 10	30	< 0.5	< 2	2.36	10
GC20-0876-009							450	7.3	0.9	20	1180	< 1	17	88	239	0.66	45	< 10	31	< 0.5	2	2.29	8
1324014386	26.6	12.3	-14.3	30.3	0.405	8.46	189	1.1	< 0.5	316	422	6	28	11	102	3.50	9	< 10	31	< 0.5	6	1.43	12
GC20-0887-013							93	1.1	0.5	108	1530	< 1	58	6	95	5.09	499	< 10	13	< 0.5	4	3.79	24
GC20-0878-012							1130	9.6	12.7	143	146	< 1	29	399	3370	0.48	89	< 10	32	< 0.5	< 2	0.28	7
1324014452	12.8	12.7	-0.139	12.6	1.01	8.89	258	< 0.2	< 0.5	33	301	4	23	2	73	2.66	8	< 10	61	< 0.5	3	1.08	8
1324014110	22.8	14.0	-8.82	26.0	0.537	8.68	457	0.4	< 0.5	215	286	2	18	< 2	36	2.07	8	< 10	35	< 0.5	2	0.93	6
1324014334	42.8	11.8	-31.0	47.8	0.248	8.35	151	0.4	< 0.5	34	312	< 1	16	2	64	2.26	16	< 10	34	< 0.5	2	0.94	10
1324014222	43.4	11.0	-32.4	47.2	0.234	8.43	3790	1.4	< 0.5	207	281	1	17	3	33	1.82	12	< 10	31	< 0.5	5	0.94	8
GC20-0171-018							118	0.4	< 0.5	26	407	1	17	4	52	2.22	10	< 10	46	< 0.5	4	0.70	8
GC20-0879-014							1860	> 100	6.1	13	1500	< 1	24	876	1830	0.85	81	< 10	37	< 0.5	< 2	1.56	11
F001605							3170	2.6	< 0.5	37	260	15	13	21	38	1.24	4	< 10	50	< 0.5	< 2	0.79	9
GC20-0888-012							171	8.1	2.8	30	579	< 1	19	50	764	0.92	39	< 10	37	< 0.5	< 2	1.23	8
GC20-0194-014							195	0.4	< 0.5	150	386	< 1	18	3	30	3.05	10	< 10	27	< 0.5	7	1.20	10
GC20-0889-001							34	4.4	0.7	18	1650	< 1	15	33	192	0.87	57	< 10	38	< 0.5	2	1.11	9
1324020036	62.7	15.2	-47.5	68.3	0.223	8.55	94	0.8	0.8	19	464	< 1	21	5	175	1.50	12	< 10	22	< 0.5	3	0.83	10
GC20-0889-018							6	< 0.2	< 0.5	29	291	< 1	25	< 2	23	2.13	67	< 10	46	< 0.5	2	1.10	10
GC20-0890-001							131	0.6	< 0.5	62	893	< 1	34	13	87	2.70	32	< 10	36	< 0.5	< 2	2.15	19
GC20-0891-001							118	1.1	< 0.5	15	1310	< 1	24	45	165	0.82	88	< 10	28	< 0.5	2	3.05	9
1223001109	25.9	6.86	-19.1	25.4	0.270	8.69	22	0.5	0.7	17	173	< 1	13	10	273	1.53	12	< 10	39	< 0.5	< 2	0.89	9
1324020187	67.2	15.6	-51.6	73.5	0.212	8.73	36	0.6	0.8	33	449	< 1	16	2	186	1.90	9	< 10	27	< 0.5	4	1.00	10
1223001307	47.6	32.1	-15.5	53.9	0.595	8.51	148	1.2	4.1	41	767	< 1	21	16	911	2.03	24	< 10	30	< 0.5	5	1.93	10
GC20-0892-022							8	< 0.2	< 0.5	127	584	< 1	51	< 2	52	5.14	4	< 10	21	< 0.5	3	3.52	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0894-013							1420	0.9	5.3	34	172	< 1	21	30	1370	0.77	37	< 10	26	< 0.5	3	0.44	13
GC20-0896-020							7	< 0.2	< 0.5	121	480	< 1	45	< 2	52	5.07	< 2	< 10	18	< 0.5	2	3.40	20
GC20-0893-018							5	< 0.2	< 0.5	118	487	< 1	47	< 2	44	5.29	< 2	< 10	19	< 0.5	3	3.61	20
GC20-0897-011							6	0.2	< 0.5	120	533	< 1	50	< 2	44	4.91	< 2	< 10	24	< 0.5	< 2	3.36	23
1223001083	4.20	31.6	27.4	53.0	0.596	8.59	85	1.6	1.3	43	1060	2	20	82	276	2.22	32	< 10	27	< 0.5	4	2.02	10
GC20-0893-002							10	0.2	< 0.5	125	477	< 1	56	< 2	47	4.96	< 2	< 10	19	< 0.5	2	3.40	22
GC20-0896-003							133	0.6	< 0.5	7	571	< 1	11	21	72	0.70	28	< 10	26	< 0.5	3	1.51	8
1324020156	20.4	16.1	-4.22	60.9	0.265	8.25	127	0.5	< 0.5	111	535	3	26	< 2	66	1.40	6	< 10	27	< 0.5	< 2	1.05	11
1223001303	14.2	37.4	23.2	46.5	0.803	8.65	175	0.6	3.3	45	1100	< 1	19	44	671	1.86	45	< 10	33	< 0.5	< 2	1.91	9
1223001105	23.4	13.2	-10.2	42.3	0.312	8.36	40	0.6	< 0.5	19	219	< 1	12	10	96	1.39	21	< 10	34	< 0.5	2	0.79	8
1223001137	18.9	12.9	-6.07	30.3	0.425	8.59	51	0.4	< 0.5	41	389	< 1	11	13	45	2.04	21	< 10	32	< 0.5	3	1.29	8
1223001116	55.7	28.3	-27.4	68.3	0.414	8.50	2570	8.7	3.5	65	866	< 1	17	232	816	0.96	51	< 10	24	< 0.5	3	1.17	10
F001606							755	4.5	< 0.5	28	242	< 1	9	12	37	1.13	< 2	< 10	39	< 0.5	< 2	0.65	10
GC20-0899-008							87	2.1	0.8	13	876	< 1	16	105	197	0.64	54	< 10	28	< 0.5	< 2	2.37	10
GC20-0897-014							9	0.3	< 0.5	175	490	< 1	48	< 2	46	5.05	< 2	< 10	22	< 0.5	3	3.36	22
1223001067	62.9	7.88	-55.0	68.9	0.114	8.20	80	0.8	0.9	30	392	1	13	16	219	2.11	13	< 10	29	< 0.5	2	1.26	9
1231048049	3.02	26.9	23.9	6.43	4.18	9.11	7	0.3	< 0.5	16	533	< 1	18	< 2	117	1.28	4	< 10	83	< 0.5	< 2	1.29	10
1324015096	44.4	14.0	-30.3	49.9	0.281	8.52	194	1.0	< 0.5	78	430	1	15	4	66	1.81	17	< 10	31	< 0.5	4	1.24	8
GC20-0900-017							936	0.7	< 0.5	172	609	< 1	11	4	140	2.16	13	< 10	26	< 0.5	5	0.62	10
1231048032	13.2	23.4	10.1	16.2	1.44	9.02	176	4.5	< 0.5	18	708	< 1	15	21	76	2.43	36	< 10	41	< 0.5	< 2	2.11	7
1231047125	7.08	23.4	16.3	10.1	2.32	9.24	12	0.3	0.5	15	500	< 1	15	5	119	1.14	4	< 10	54	< 0.5	< 2	1.12	8
1324020082	28.8	25.2	-3.61	33.1	0.763	9.33	35	0.7	< 0.5	210	319	2	11	5	41	0.76	9	< 10	30	< 0.5	< 2	1.00	8
1324020195	58.0	10.8	-47.2	62.8	0.172	8.86	183	0.4	1.6	54	557	1	14	2	405	1.56	9	< 10	29	< 0.5	< 2	0.98	13
GC20-0906-001							120	1.2	3.0	207	417	2	15	7	588	1.67	14	< 10	26	< 0.5	6	0.85	10
GC20-0903-001							85	0.4	< 0.5	58	379	< 1	13	3	114	1.40	4	< 10	21	< 0.5	6	0.60	9
GC20-0907-002							292	3.3	0.6	1020	585	< 1	13	11	125	1.94	17	< 10	21	< 0.5	42	1.04	9
1223007028	14.2	12.4	-1.73	19.0	0.655	8.95	31	0.3	< 0.5	23	473	< 1	13	5	75	2.68	15	< 10	33	< 0.5	3	1.47	13
1223007054	22.5	9.79	-12.7	26.0	0.376	8.68	44	0.5	< 0.5	46	531	< 1	11	5	141	2.48	20	< 10	33	< 0.5	3	1.15	10
GC20-0900-018							160	0.7	0.6	73	695	< 1	12	4	196	2.41	7	< 10	27	< 0.5	4	0.75	10
1223001075	18.7	16.5	-2.29	22.0	0.746	8.93	34	0.6	< 0.5	27	470	1	11	6	81	1.86	22	< 10	34	< 0.5	4	1.29	10
GC20-0902-001							51	0.4	< 0.5	32	463	< 1	11	3	92	1.78	12	< 10	20	< 0.5	4	0.63	10
1324020089	76.2	14.1	-62.1	81.8	0.173	8.69	2210	0.4	1.4	70	643	< 1	20	3	404	1.56	8	< 10	23	< 0.5	5	0.78	13
1223001050	28.4	7.23	-21.2	27.9	0.260	8.60	36	0.4	< 0.5	10	540	< 1	8	10	64	2.58	10	< 10	30	< 0.5	2	1.21	8
1324015076	19.4	22.7	3.35	19.0	1.20	9.01	147	0.7	< 0.5	136	609	< 1	23	3	116	2.16	6	< 10	76	< 0.5	3	1.42	11
GC20-0901-025							283	0.7	4.0	40	1160	< 1	14	5	991	2.56	24	< 10	35	< 0.5	2	1.58	10
GC20-0901-008							110	2.7	< 0.5	675	321	4	14	11	83	1.60	4	< 10	20	< 0.5	29	0.59	11
F001608							960	1.8	< 0.5	64	240	15	10	23	43	1.21	< 2	< 10	44	< 0.5	< 2	0.78	8
123037258	9.38	5.31	-4.06	9.19	0.578	8.40	6	0.2	< 0.5	11	326	< 1	11	5	71	2.05	4	< 10	39	0.5	2	0.48	7
1324013133	67.8	6.28	-61.5	75.0	0.0837	8.26	357	2.0	5.4	150	941	1	25	4	1390	2.53	19	< 10	21	< 0.5	3	0.78	16
1324013131	58.4	8.88	-49.5	66.2	0.134	8.49	376	1.0	7.4	239	639	2	21	4	1710	2.36	17	< 10	29	< 0.5	4	0.94	12
GC20-0205-009							505	0.7	< 0.5	350	357	< 1	10	< 2	28	2.07	4	< 10	36	< 0.5	12	0.71	7
GC20-0203-005							619	0.9	< 0.5	457	248	< 1	10	2	25	2.32	6	< 10	20	< 0.5	22	1.08	9

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0234-018	174	4.10	< 10	1	0.27	11	0.96	0.087	0.032	0.92	< 2	1	55	0.03	< 1	< 2	< 10	13	< 10	2	14		
1324008552	325	3.48	< 10	1	0.15	13	1.38	0.268	0.041	0.81	< 2	2	148	0.07	< 1	< 2	< 10	36	< 10	3	4	0.24	0.80
1324017123	228	3.17	< 10	< 1	0.27	14	1.19	0.111	0.045	2.13	< 2	1	42	0.01	< 1	< 2	< 10	13	< 10	3	16	0.21	2.03
1324017169	290	3.38	< 10	< 1	0.49	10	1.39	0.052	0.036	2.75	3	1	20	0.03	2	< 2	< 10	12	< 10	2	24	0.26	2.55
1324017159	287	2.53	< 10	< 1	0.27	13	0.99	0.167	0.049	2.16	2	1	72	0.03	2	< 2	< 10	13	< 10	2	7	0.23	1.96
1324008298	366	4.50	< 10	3	0.29	23	1.59	0.040	0.051	3.83	< 2	1	25	< 0.01	1	< 2	< 10	13	< 10	3	22	0.22	3.61
1324008480	194	4.00	< 10	< 1	0.26	13	0.91	0.035	0.039	4.01	< 2	< 1	15	< 0.01	4	< 2	< 10	6	< 10	2	22	0.14	3.62
1230058109	246	5.21	< 10	2	0.10	< 10	2.68	0.568	0.020	0.13	< 2	11	73	0.19	1	< 2	< 10	142	< 10	5	3	0.19	0.16
1230058275	209	1.82	< 10	< 1	0.40	14	0.44	0.036	0.041	1.51	< 2	< 1	32	< 0.01	1	< 2	< 10	8	< 10	2	8	0.60	1.38
GC20-0242-001	188	2.44	< 10	< 1	0.19	12	0.72	0.049	0.032	1.40	< 2	< 1	25	0.02	< 1	< 2	< 10	5	< 10	2	14		
GC20-0241-019	184	2.51	< 10	< 1	0.35	14	1.34	0.158	0.041	1.15	< 2	1	85	0.01	< 1	< 2	< 10	14	< 10	2	7		
GC20-0241-020	141	2.66	< 10	< 1	0.33	14	1.47	0.105	0.041	1.39	< 2	1	60	< 0.01	1	< 2	< 10	13	< 10	3	7		
1433004192	212	8.18	< 10	2	0.21	< 10	2.98	0.299	0.041	2.80	< 2	8	73	0.10	< 1	< 2	< 10	109	< 10	6	8	1.51	2.87
GC20-0237-014	294	3.52	< 10	1	0.28	10	0.71	0.249	0.032	1.97	< 2	< 1	154	0.02	3	3	< 10	9	< 10	2	18		
F001597	14	2.11	< 10	< 1	0.19	14	0.44	0.238	0.037	0.03	< 2	2	35	0.33	4	< 2	< 10	51	< 10	15	18		
1324018221	313	2.93	< 10	1	0.15	10	1.39	0.283	0.035	1.39	< 2	1	181	< 0.01	< 1	< 2	< 10	13	< 10	2	8	0.15	1.40
GC20-0824-001	307	5.46	< 10	2	0.32	< 10	0.49	0.038	0.023	7.34	14	< 1	8	< 0.01	< 1	< 2	< 10	9	< 10	< 1	10		
GC20-0822-001	230	4.10	< 10	2	0.31	18	1.37	0.030	0.056	4.08	3	< 1	7	< 0.01	1	< 2	< 10	12	< 10	2	11		
GC20-0828-002	770	5.78	< 10	5	0.32	12	0.43	0.038	0.029	8.12	44	< 1	6	< 0.01	2	< 2	< 10	9	15	1	11		
GC20-0807-001	271	2.14	< 10	< 1	0.14	16	0.98	0.173	0.045	2.08	< 2	< 1	61	< 0.01	< 1	< 2	< 10	9	< 10	3	18		
GC20-0823-005	262	4.87	< 10	2	0.30	14	0.25	0.037	0.058	6.79	12	< 1	6	< 0.01	< 1	< 2	< 10	7	< 10	1	10		
GC20-0830-004	232	2.89	< 10	< 1	0.59	24	1.42	0.024	0.064	2.69	2	1	10	0.04	< 1	< 2	< 10	16	< 10	4	8		
GC20-0833-008	273	4.84	< 10	3	0.35	16	1.49	0.035	0.046	4.47	4	1	6	< 0.01	< 1	< 2	< 10	14	< 10	2	13		
GC20-0848-001	394	2.86	< 10	< 1	0.42	18	0.96	0.052	0.053	2.45	< 2	1	11	< 0.01	< 1	< 2	< 10	12	< 10	2	13		
GC20-0831-001	313	2.62	< 10	< 1	0.21	17	1.04	0.022	0.054	2.23	4	2	6	< 0.01	< 1	< 2	< 10	23	< 10	3	7		
GC20-0829-009	214	4.88	< 10	2	0.36	16	1.45	0.029	0.048	4.95	4	1	8	< 0.01	< 1	< 2	< 10	13	< 10	2	14		
1230059307	258	2.47	< 10	< 1	0.35	18	1.29	0.055	0.056	2.06	< 2	< 1	15	< 0.01	< 1	< 2	< 10	10	< 10	2	7	0.45	1.83
GC20-0845-002	310	3.06	< 10	1	0.35	28	1.42	0.023	0.074	3.01	4	1	7	< 0.01	< 1	< 2	< 10	14	< 10	3	6		
GC20-0847-001	218	4.07	< 10	2	0.31	17	2.07	0.058	0.047	3.23	2	2	27	0.01	2	< 2	< 10	19	< 10	2	9		
1324018196	292	3.99	< 10	1	0.30	< 10	1.61	0.107	0.030	2.07	3	< 1	70	< 0.01	< 1	< 2	< 10	11	< 10	2	24	0.20	2.05
1324018167	570	3.37	< 10	2	0.30	11	0.96	0.284	0.033	1.79	3	< 1	172	< 0.01	< 1	3	< 10	12	< 10	2	15	0.17	1.74
GC20-0834-013	260	4.50	< 10	3	0.31	16	1.74	0.028	0.048	4.21	5	1	7	< 0.01	< 1	< 2	< 10	12	< 10	2	14		
GC20-0838-013	192	2.17	< 10	< 1	0.48	18	1.96	0.055	0.046	1.26	2	1	20	0.03	< 1	< 2	< 10	17	< 10	2	6		
GC20-0850-009	138	2.40	< 10	< 1	0.32	16	1.13	0.043	0.046	2.26	< 2	1	16	< 0.01	< 1	< 2	< 10	11	< 10	2	11		
GC20-0838-004	132	2.46	< 10	< 1	0.76	19	1.79	0.027	0.054	1.41	< 2	2	12	0.03	< 1	< 2	< 10	22	< 10	3	3		
GC20-0851-014	213	2.40	< 10	< 1	0.53	21	0.90	0.213	0.050	1.96	< 2	1	71	0.04	< 1	< 2	< 10	15	< 10	3	6		
1230059270	172	2.78	< 10	< 1	0.28	17	1.13	0.024	0.050	1.71	2	1	8	0.02	< 1	< 2	< 10	13	< 10	2	3	0.12	1.73
F001596	12	1.43	< 10	< 1	0.20	17	0.38	0.211	0.038	0.04	< 2	2	35	0.21	4	< 2	< 10	35	< 10	14	9		
GC20-0827-015	317	3.71	< 10	< 1	0.33	16	1.00	0.033	0.051	3.71	3	< 1	7	< 0.01	2	< 2	< 10	10	< 10	2	13		
GC20-0851-003	251	2.37	< 10	< 1	0.34	15	0.98	0.129	0.043	2.06	< 2	1	60	0.02	< 1	< 2	< 10	13	< 10	4	11		
GC20-0155-015	221	2.33	< 10	< 1	0.24	16	0.73	0.248	0.038	1.68	< 2	< 1	106	< 0.01	1	< 2	< 10	11	< 10	3	11		
GC20-0852-005	267	1.95	< 10	< 1	0.30	15	1.04	0.038	0.044	1.26	< 2	1	10	0.04	< 1	< 2	< 10	15	< 10	3	6		
GC20-0852-001	292	2.72	< 10	< 1	0.36	17	0.72	0.033	0.054	2.44	< 2	1	12	0.05	< 1	< 2	< 10	12	< 10	4	5		
GC20-0864-019	320	3.36	< 10	< 1	0.79	21	1.48	0.089	0.066	3.26	4	2	34	0.04	< 1	< 2	< 10	19	< 10	3	9		
GC20-0853-001	470	3.17	< 10	< 1	0.68	16	0.84	0.035	0.048	2.96	2	2	12	0.04	3	< 2	< 10	16	< 10	3	9		
GC20-0852-022	208	2.54	< 10	< 1	0.41	15	1.32	0.062	0.045	2.07	4	1	26	0.02	< 1	< 2	< 10	13	< 10	3	7		
GC20-0854-001	344	3.10	< 10	< 1	0.55	16	1.91	0.048	0.059	2.53	5	2	31	0.04	< 1	< 2	< 10	21	< 10	2	5		
GC20-0860-001	607	1.61	< 10	< 1	0.38	17	0.38	0.105	0.036	1.01	3	< 1	43	< 0.01	< 1	< 2	< 10	10	< 10	1	2		
GC20-0860-017	334	2.33	< 10	< 1	0.44	25	0.28	0.050	0.057	2.49	4	1	17	0.01	2	< 2	< 10	9	< 10	3	17		
GC20-0832-016	301	2.67	< 10	< 1	0.61	18	1.70	0.059	0.046	1.89	4	1	16	0.03	< 1	< 2	< 10	17	< 10	2	10		
1230059295	266	2.51	< 10	< 1	0.35	11	0.22	0.032	0.044	3.01	3	< 1	15	< 0.01	1	< 2	< 10	7	< 10	2	13	0.32	2.79

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0858-001	494	2.81	< 10	< 1	0.34	12	1.12	0.060	0.048	1.84	3	< 1	18	< 0.01	< 1	< 2	< 10	10	< 10	2	9		
1230059260	203	2.03	< 10	< 1	0.38	20	0.56	0.036	0.052	1.48	< 2	< 1	18	< 0.01	< 1	< 2	< 10	8	< 10	2	8	0.19	1.42
1230059282	479	2.42	< 10	< 1	0.34	16	0.64	0.103	0.048	1.24	2	1	33	0.03	< 1	< 2	< 10	16	< 10	2	3	0.16	1.18
GC20-0858-020	462	2.11	< 10	< 1	0.27	17	1.13	0.167	0.040	0.20	< 2	2	69	0.07	3	< 2	< 10	22	< 10	2	4		
GC20-0818-016	233	3.45	< 10	1	0.67	17	1.60	0.159	0.045	3.03	< 2	2	36	0.05	< 1	< 2	< 10	19	< 10	3	11		
GC20-0856-001	197	2.76	< 10	< 1	0.70	20	1.64	0.028	0.057	2.18	< 2	2	10	0.03	< 1	< 2	< 10	18	< 10	2	4		
GC20-0809-012	258	3.72	< 10	2	0.32	17	1.38	0.049	0.045	2.38	< 2	1	22	0.04	1	< 2	< 10	11	< 10	3	13		
GC20-0861-001	332	2.02	< 10	< 1	0.30	17	0.40	0.031	0.048	1.82	< 2	< 1	12	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
GC20-0815-018	235	5.51	< 10	2	0.31	13	0.96	0.031	0.037	6.41	4	< 1	6	< 0.01	< 1	< 2	< 10	10	< 10	1	10		
GC20-0815-016	247	5.46	< 10	2	0.34	15	0.95	0.032	0.042	6.46	4	< 1	7	< 0.01	< 1	< 2	< 10	11	< 10	2	14		
GC20-0859-014	774	6.52	< 10	3	0.47	32	4.83	0.068	0.115	1.55	6	9	68	0.15	< 1	< 2	< 10	104	< 10	3	9		
GC20-0855-026	255	2.10	< 10	< 1	0.22	21	1.12	0.112	0.039	0.91	< 2	2	31	0.06	< 1	< 2	< 10	20	< 10	3	9		
GC20-0855-025	146	1.79	< 10	< 1	0.23	93	0.83	0.122	0.037	1.25	< 2	2	143	0.10	< 1	< 2	< 10	16	< 10	3	15		
F001595	14	2.11	< 10	< 1	0.19	14	0.44	0.245	0.037	0.03	< 2	2	36	0.32	3	< 2	< 10	51	< 10	15	16		
GC20-0226-001	282	3.34	< 10	< 1	0.28	15	1.37	0.087	0.038	2.12	< 2	< 1	48	0.02	2	< 2	< 10	11	< 10	2	18		
GC20-0230-002	209	3.16	< 10	< 1	0.26	11	0.69	0.100	0.033	1.61	< 2	< 1	64	0.02	2	< 2	< 10	8	< 10	2	17		
GC20-0229-001	326	3.65	< 10	2	0.32	< 10	0.73	0.127	0.031	1.91	2	< 1	91	0.02	< 1	< 2	< 10	9	< 10	2	18		
GC20-0232-018	172	2.62	< 10	< 1	0.29	13	1.25	0.053	0.046	1.05	< 2	1	48	0.02	< 1	< 2	< 10	12	< 10	3	4		
1324013022	362	2.72	< 10	< 1	0.19	12	1.37	0.217	0.033	1.62	< 2	1	91	< 0.01	< 1	< 2	< 10	12	< 10	2	11	0.23	1.64
GC20-0228-001	308	3.91	< 10	1	0.27	14	0.88	0.039	0.040	2.31	< 2	< 1	26	0.03	1	< 2	< 10	9	< 10	2	22		
1324013052	206	2.38	< 10	< 1	0.28	14	1.49	0.134	0.035	1.37	< 2	1	66	< 0.01	2	< 2	< 10	12	< 10	2	14	0.26	1.38
1324013007	390	2.59	< 10	< 1	0.18	< 10	1.05	0.304	0.035	1.78	< 2	1	126	< 0.01	< 1	< 2	< 10	14	< 10	2	6	0.38	1.77
1433004382	249	7.10	< 10	1	0.09	< 10	2.46	0.175	0.037	0.57	4	11	107	0.10	1	< 2	< 10	176	< 10	7	7	1.44	0.63
1324013015	371	2.01	< 10	< 1	0.32	12	1.24	0.373	0.032	1.10	< 2	1	349	0.02	2	< 2	< 10	15	< 10	2	6	0.32	1.06
GC20-0227-005	207	2.80	< 10	< 1	0.34	18	0.77	0.055	0.048	1.92	< 2	< 1	32	0.02	3	< 2	< 10	8	< 10	3	11		
1324013077	294	2.28	< 10	< 1	0.19	16	1.25	0.144	0.044	1.43	< 2	1	78	< 0.01	< 1	< 2	< 10	11	< 10	2	10	0.17	1.38
1324013004	311	2.35	< 10	< 1	0.24	< 10	1.28	0.155	0.034	1.27	< 2	1	77	0.03	1	< 2	< 10	11	< 10	2	7	0.24	1.25
1231037115	210	1.29	< 10	< 1	0.22	18	0.05	0.106	0.040	1.23	< 2	< 1	43	0.04	1	< 2	< 10	5	< 10	1	2	0.27	1.21
GC20-0801-014	243	5.72	< 10	2	0.02	< 10	3.63	0.362	0.017	0.07	2	14	72	0.22	< 1	< 2	< 10	140	< 10	5	3		
GC20-0801-011	233	4.62	< 10	3	0.05	< 10	2.41	0.470	0.017	0.07	< 2	6	67	0.19	< 1	< 2	< 10	118	< 10	3	2		
GC20-0230-019	211	2.95	< 10	< 1	0.19	< 10	0.80	0.159	0.035	1.93	< 2	< 1	90	< 0.01	< 1	< 2	< 10	10	< 10	2	15		
GC20-0232-001	215	4.17	< 10	2	0.21	< 10	0.66	0.042	0.031	2.56	< 2	< 1	23	0.02	4	< 2	< 10	6	< 10	2	17		
1324008523	491	2.66	< 10	< 1	0.21	11	0.92	0.178	0.033	1.52	2	1	68	< 0.01	< 1	< 2	< 10	13	< 10	2	8	0.47	1.27
GC20-0234-001	514	2.92	< 10	< 1	0.26	11	0.94	0.247	0.034	1.70	< 2	2	65	0.05	< 1	< 2	< 10	27	< 10	2	6		
F001603	12	1.95	< 10	< 1	0.24	12	0.45	0.254	0.032	0.03	< 2	2	33	0.30	4	< 2	< 10	46	< 10	14	8		
GC20-0251-001	269	2.92	< 10	< 1	0.33	10	1.06	0.085	0.029	0.90	< 2	6	43	0.08	< 1	< 2	< 10	49	< 10	3	8		
1324021254	235	2.35	< 10	< 1	0.14	14	1.05	0.282	0.040	1.97	< 2	1	125	< 0.01	< 1	< 2	< 10	11	< 10	3	7	0.16	1.91
GC20-0255-001	79	1.73	< 10	< 1	0.19	17	0.31	0.038	0.043	1.43	< 2	< 1	19	< 0.01	3	< 2	< 10	6	< 10	1	8		
1323004101	146	2.52	< 10	< 1	0.23	17	0.83	0.100	0.049	2.22	< 2	1	65	< 0.01	2	< 2	< 10	10	< 10	3	8	0.83	2.11
1323004139	172	2.47	< 10	< 1	0.17	18	1.07	0.117	0.044	2.30	< 2	< 1	65	< 0.01	2	< 2	< 10	8	< 10	2	6	0.36	2.24
1323004157	96	2.46	< 10	< 1	0.16	13	0.81	0.086	0.042	2.33	< 2	< 1	50	< 0.01	1	< 2	< 10	8	< 10	2	10	0.74	2.24
1323004122	111	2.10	< 10	< 1	0.22	15	0.85	0.063	0.042	1.76	< 2	< 1	42	< 0.01	4	< 2	< 10	6	< 10	2	6	0.95	1.72
1323004178	97	2.23	< 10	< 1	0.20	14	0.69	0.047	0.043	2.13	< 2	< 1	27	< 0.01	3	< 2	< 10	5	< 10	2	10	0.59	1.32
1230060070	104	4.17	< 10	2	0.23	18	1.40	0.045	0.050	3.99	3	< 1	9	0.01	2	< 2	< 10	11	< 10	2	13	0.14	3.83
GC20-0252-003	152	1.67	< 10	< 1	0.33	14	0.42	0.034	0.038	1.07	< 2	< 1	33	< 0.01	< 1	< 2	< 10	10	< 10	1	5		
GC20-0257-011	154	5.14	< 10	2	0.04	< 10	2.08	0.703	0.019	0.09	< 2	8	69	0.18	< 1	3	< 10	140	< 10	4	2		
GC20-0253-009FD	187	4.29	< 10	3	0.18	< 10	1.51	0.506	0.025	0.82	< 2	7	55	0.12	< 1	< 2	< 10	86	< 10	3	6		
GC20-0256-013	131	4.78	< 10	1	0.06	< 10	2.10	0.498	0.019	0.07	< 2	6	59	0.23	< 1	3	< 10	132	< 10	4	2		
1324021093	198	2.43	< 10	< 1	0.14	11	1.43	0.183	0.033	1.36	< 2	< 1	62	< 0.01	2	< 2	< 10	11	< 10	2	9	0.13	1.30
1230060142	127	5.16	< 10	3	0.13	12	1.12	0.023	0.044	5.75	10	< 1	3	< 0.01	< 1	< 2	< 10	6	< 10	1	7	0.04	5.71

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1324022130	128	2.73	< 10	< 1	0.17	19	1.60	0.047	0.048	2.49	3	< 1	33	< 0.01	3	< 2	< 10	8	< 10	2	10	0.23	2.36
1323004094	144	2.50	< 10	< 1	0.24	20	0.91	0.244	0.056	2.42	< 2	1	106	0.03	3	< 2	< 10	12	< 10	3	4	0.46	1.51
1323004024	161	3.03	< 10	< 1	0.22	19	1.03	0.150	0.048	2.92	< 2	< 1	65	< 0.01	< 1	< 2	< 10	10	< 10	3	14	0.69	2.85
1323004060	192	2.95	< 10	< 1	0.15	24	1.27	0.219	0.057	2.85	< 2	2	93	< 0.01	2	< 2	< 10	14	< 10	3	8	0.35	2.68
1324021029	179	4.26	< 10	2	0.27	< 10	1.97	0.163	0.027	0.70	< 2	4	40	0.15	3	< 2	< 10	82	< 10	3	8	0.21	0.67
1324022108	212	2.64	< 10	< 1	0.27	14	0.88	0.285	0.039	1.64	< 2	1	150	0.04	< 1	< 2	< 10	15	< 10	2	5	0.26	1.52
1230060122	95	1.34	< 10	< 1	0.20	18	0.27	0.031	0.058	1.17	< 2	< 1	14	< 0.01	2	< 2	< 10	4	< 10	2	6	0.20	1.13
1230060082	108	2.19	< 10	< 1	0.27	18	0.60	0.027	0.079	1.86	2	< 1	10	< 0.01	< 1	< 2	< 10	7	< 10	1	5	0.15	1.70
1230060068	197	4.98	< 10	< 1	0.16	12	0.39	0.028	0.047	6.08	7	< 1	4	< 0.01	2	< 2	< 10	5	< 10	1	8	0.03	5.76
F001604	13	1.60	< 10	< 1	0.22	19	0.38	0.244	0.038	0.04	< 2	2	38	0.22	3	< 2	< 10	38	< 10	15	7		
GC20-0870-006	119	2.53	< 10	< 1	0.39	22	1.15	0.025	0.055	2.27	3	< 1	13	0.05	3	< 2	< 10	11	< 10	3	3		
1324014186	598	2.73	< 10	< 1	0.29	14	1.08	0.157	0.036	1.80	3	1	68	< 0.01	2	< 2	< 10	11	< 10	2	12	0.26	1.86
GC20-0873-007	220	2.60	< 10	< 1	0.72	21	1.51	0.025	0.055	1.63	2	2	11	0.04	2	< 2	< 10	19	< 10	3	3		
1324014252	294	1.83	< 10	< 1	0.48	65	0.45	0.084	0.079	0.41	< 2	1	136	0.02	< 1	< 2	< 10	11	< 10	5	1	0.65	0.39
1324014414	570	2.18	< 10	< 1	0.40	46	0.70	0.084	0.065	0.65	< 2	1	110	0.02	3	< 2	< 10	12	< 10	4	2	0.68	0.66
1324017527	381	3.65	< 10	2	0.30	11	2.02	0.125	0.038	1.91	2	2	67	0.05	4	< 2	< 10	19	< 10	3	19	0.17	1.87
GC20-0874-009	256	2.79	< 10	< 1	0.62	21	1.89	0.027	0.085	1.66	2	2	8	0.03	3	< 2	< 10	21	< 10	3	2		
1235003014	198	2.04	< 10	< 1	0.26	15	1.12	0.177	0.042	0.29	< 2	2	69	0.07	1	< 2	< 10	21	< 10	2	6	0.54	0.33
GC20-0874-026	387	2.35	< 10	< 1	0.34	13	1.19	0.168	0.039	0.57	< 2	2	54	0.06	1	< 2	< 10	26	< 10	3	5		
1235003134	514	1.99	< 10	< 1	0.26	12	0.61	0.206	0.036	0.18	< 2	1	119	0.07	2	< 2	< 10	15	< 10	2	3	0.56	0.20
1324020061	352	2.38	< 10	< 1	0.21	16	1.11	0.203	0.049	1.96	< 2	1	68	< 0.01	2	< 2	< 10	14	< 10	3	20	0.21	1.93
GC20-0882-025	88	1.65	< 10	< 1	0.22	13	0.19	0.023	0.031	1.36	< 2	< 1	16	< 0.01	1	< 2	< 10	4	< 10	< 1	5		
GC20-0876-001	466	2.23	< 10	< 1	0.37	14	0.30	0.043	0.038	1.83	2	< 1	41	0.01	2	< 2	< 10	7	< 10	2	9		
GC20-0876-009	367	1.83	< 10	< 1	0.39	14	0.07	0.021	0.037	1.79	2	< 1	88	< 0.01	2	< 2	< 10	4	< 10	2	9		
1324014386	425	2.97	10	< 1	0.16	13	1.36	0.164	0.039	1.06	2	2	154	< 0.01	< 1	< 2	< 10	24	< 10	2	13	0.22	0.99
GC20-0887-013	303	5.56	< 10	2	0.04	< 10	2.16	0.566	0.018	0.85	6	10	63	0.15	< 1	< 2	< 10	119	< 10	5	4		
GC20-0878-012	738	2.08	< 10	1	0.30	10	0.04	0.023	0.035	1.76	7	< 1	17	< 0.01	2	< 2	< 10	4	< 10	< 1	7		
1324014452	470	1.91	< 10	< 1	0.24	14	1.28	0.153	0.040	0.38	2	1	109	< 0.01	< 1	< 2	< 10	13	< 10	2	10	0.28	0.41
1324014110	392	2.37	< 10	< 1	0.28	11	0.79	0.117	0.035	0.92	2	< 1	63	< 0.01	1	< 2	< 10	10	< 10	2	10	0.23	0.85
1324014334	251	2.90	< 10	< 1	0.25	12	1.57	0.093	0.039	1.57	< 2	1	62	0.02	3	< 2	< 10	12	< 10	3	19	0.23	1.56
1324014222	391	2.74	< 10	< 1	0.26	< 10	0.64	0.097	0.032	1.55	< 2	< 1	58	0.01	< 1	< 2	< 10	7	< 10	2	12	0.19	1.54
GC20-0171-018	285	2.40	< 10	< 1	0.23	14	1.43	0.132	0.036	0.89	2	1	57	< 0.01	< 1	< 2	< 10	14	< 10	2	16		
GC20-0879-014	417	2.03	< 10	< 1	0.50	18	0.16	0.025	0.038	1.96	6	< 1	97	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
F001605	13	1.97	< 10	< 1	0.26	13	0.52	0.218	0.048	0.05	< 2	3	31	0.27	4	< 2	< 10	59	< 10	16	13		
GC20-0888-012	337	1.93	< 10	< 1	0.34	12	0.41	0.026	0.033	1.38	4	< 1	20	< 0.01	1	< 2	< 10	5	< 10	2	7		
GC20-0194-014	337	3.57	< 10	2	0.18	17	0.98	0.196	0.035	1.52	2	1	120	< 0.01	1	4	< 10	13	< 10	2	15		
GC20-0889-001	263	1.90	< 10	< 1	0.43	15	0.42	0.024	0.037	1.57	3	< 1	68	< 0.01	< 1	< 2	< 10	5	< 10	2	10		
1324020036	333	2.35	< 10	< 1	0.16	16	0.91	0.128	0.041	2.31	2	1	47	< 0.01	2	< 2	< 10	10	< 10	2	21	0.19	2.23
GC20-0889-018	263	1.86	< 10	< 1	0.15	< 10	0.54	0.164	0.029	0.21	< 2	2	31	0.04	2	< 2	< 10	29	< 10	2	6		
GC20-0890-001	147	3.10	< 10	< 1	0.24	< 10	1.34	0.240	0.030	0.67	< 2	6	40	0.12	2	< 2	< 10	58	< 10	3	10		
GC20-0891-001	556	2.25	< 10	< 1	0.43	14	0.18	0.022	0.038	2.06	2	< 1	63	< 0.01	< 1	< 2	< 10	5	< 10	2	8		
1223001109	202	1.01	< 10	< 1	0.15	14	0.06	0.211	0.041	0.91	< 2	< 1	211	< 0.01	1	3	< 10	5	< 10	2	6	0.20	0.83
1324020187	270	2.41	< 10	< 1	0.17	18	1.02	0.176	0.046	2.52	< 2	1	72	< 0.01	3	< 2	< 10	10	< 10	2	22	0.19	2.40
1223001307	352	2.32	< 10	< 1	0.26	13	0.93	0.085	0.040	2.07	< 2	< 1	41	0.01	< 1	< 2	< 10	8	< 10	2	14	0.40	1.76
GC20-0892-022	244	4.44	< 10	1	0.07	< 10	1.81	0.692	0.019	0.09	< 2	8	66	0.19	< 1	< 2	< 10	125	< 10	4	3		
GC20-0894-013	321	2.32	< 10	< 1	0.42	13	0.08	0.025	0.040	2.23	2	< 1	23	< 0.01	< 1	< 2	< 10	6	< 10	2	11		
GC20-0896-020	106	4.38	< 10	2	0.06	< 10	1.55	0.663	0.019	0.08	< 2	5	61	0.20	< 1	< 2	< 10	126	< 10	3	3		
GC20-0893-018	159	4.41	< 10	2	0.07	< 10	1.55	0.745	0.019	0.07	< 2	6	68	0.16	< 1	< 2	< 10	120	< 10	3	3		
GC20-0897-011	126	4.75	< 10	2	0.08	< 10	2.18	0.608	0.018	0.07	< 2	9	69	0.17	2	< 2	< 10	136	< 10	4	3		
1223001083	345	2.43	< 10	< 1	0.25	15	0.77	0.195	0.040	1.78	< 2	< 1	159	< 0.01	< 1	< 2	< 10	8	< 10	2	11	0.50	1.73
GC20-0893-002	340	4.72	< 10	1	0.07	< 10	1.67	0.620	0.018	0.10	2	6	60	0.21	2	< 2	< 10	130	< 10	3	3		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0896-003	130	1.95	< 10	< 1	0.28	18	0.43	0.021	0.038	1.69	< 2	< 1	24	0.01	2	< 2	< 10	6	< 10	2	11		
1324020156	565	2.95	< 10	< 1	0.17	13	0.75	0.140	0.036	1.97	< 2	1	49	0.04	2	< 2	< 10	18	< 10	3	17	0.34	1.99
1223001303	290	2.18	< 10	< 1	0.31	11	0.91	0.078	0.033	1.53	2	< 1	37	< 0.01	1	< 2	< 10	8	< 10	2	15	0.54	1.52
1223001105	191	1.63	< 10	< 1	0.13	15	0.16	0.177	0.041	1.41	< 2	< 1	170	< 0.01	< 1	< 2	< 10	7	< 10	2	11	0.24	1.38
1223001137	177	1.73	< 10	< 1	0.16	16	0.46	0.250	0.044	1.13	< 2	< 1	170	< 0.01	< 1	< 2	< 10	9	< 10	2	8	0.27	0.99
1223001116	171	2.25	< 10	< 1	0.23	16	0.57	0.044	0.045	2.40	2	< 1	21	< 0.01	6	< 2	< 10	5	< 10	2	16	0.46	2.23
F001606	11	1.96	< 10	< 1	0.24	12	0.43	0.235	0.034	0.03	< 2	2	31	0.32	6	< 2	< 10	47	< 10	14	23		
GC20-0899-008	264	1.89	< 10	< 1	0.38	14	0.05	0.022	0.037	2.00	3	< 1	80	< 0.01	1	< 2	< 10	3	< 10	2	10		
GC20-0897-014	116	4.44	< 10	< 1	0.07	< 10	1.84	0.606	0.019	0.11	< 2	7	68	0.20	< 1	< 2	< 10	127	< 10	4	3		
1223001067	128	2.30	< 10	< 1	0.18	17	0.57	0.204	0.044	2.36	2	< 1	93	< 0.01	1	< 2	< 10	6	< 10	3	17	0.22	2.25
1231048049	263	2.09	< 10	< 1	0.32	17	0.72	0.089	0.043	0.17	< 2	2	44	0.11	2	< 2	< 10	29	< 10	2	10	0.40	0.21
1324015096	180	2.62	< 10	< 1	0.31	20	0.69	0.146	0.046	1.64	< 2	1	87	0.05	2	< 2	< 10	13	< 10	3	10	0.93	1.63
GC20-0900-017	110	2.88	< 10	< 1	0.12	15	1.33	0.102	0.037	2.02	2	< 1	38	0.02	4	< 2	< 10	11	< 10	2	22		
1231048032	174	1.17	< 10	< 1	0.28	17	0.57	0.266	0.042	0.50	< 2	1	110	0.03	2	< 2	< 10	12	< 10	2	3	0.42	0.53
1231047125	243	1.88	< 10	< 1	0.28	14	0.76	0.075	0.037	0.35	< 2	2	28	0.10	2	< 2	< 10	20	< 10	2	14	0.30	0.33
1324020082	135	1.87	< 10	< 1	0.07	< 10	0.52	0.079	0.024	1.40	< 2	< 1	27	< 0.01	3	< 2	< 10	8	< 10	1	10	0.25	1.08
1324020195	156	2.74	< 10	< 1	0.13	12	0.79	0.193	0.034	2.07	< 2	< 1	70	0.03	1	< 2	< 10	12	< 10	2	14	0.14	2.05
GC20-0906-001	238	2.39	< 10	< 1	0.17	17	0.69	0.123	0.041	2.23	< 2	1	66	< 0.01	2	< 2	< 10	9	< 10	2	19		
GC20-0903-001	185	2.41	< 10	< 1	0.11	16	0.98	0.147	0.041	1.90	< 2	1	99	< 0.01	1	< 2	< 10	12	< 10	2	19		
GC20-0907-002	183	2.78	< 10	< 1	0.11	16	1.02	0.151	0.038	2.44	< 2	1	58	0.03	3	< 2	< 10	13	< 10	2	19		
1223007028	164	2.20	< 10	< 1	0.15	16	0.48	0.234	0.040	0.61	< 2	< 1	171	0.03	3	< 2	< 10	10	< 10	2	5	0.28	0.62
1223007054	158	2.37	< 10	< 1	0.16	16	0.68	0.139	0.040	0.89	< 2	< 1	101	< 0.01	3	3	< 10	10	< 10	2	8	0.34	0.85
GC20-0900-018	118	2.79	< 10	< 1	0.16	15	1.37	0.200	0.036	2.00	< 2	< 1	72	< 0.01	2	< 2	< 10	11	< 10	2	19		
1223001075	146	1.69	< 10	< 1	0.14	15	0.36	0.195	0.039	0.69	< 2	< 1	170	0.02	2	< 2	< 10	8	< 10	2	5	0.31	0.72
GC20-0902-001	123	2.44	< 10	< 1	0.12	17	0.81	0.112	0.041	2.48	< 2	< 1	63	< 0.01	2	< 2	< 10	8	< 10	2	19		
1324020089	117	3.60	< 10	< 1	0.09	17	0.91	0.108	0.043	2.66	< 2	1	35	< 0.01	3	< 2	< 10	16	< 10	3	19	0.16	2.67
1223001050	110	1.90	< 10	< 1	0.14	16	0.65	0.145	0.041	0.96	< 2	< 1	127	< 0.01	< 1	< 2	< 10	8	< 10	2	10	0.11	0.91
1324015076	153	2.83	< 10	< 1	0.49	44	1.10	0.106	0.099	0.59	< 2	3	123	0.10	1	< 2	< 10	34	< 10	4	5	0.31	0.62
GC20-0901-025	139	3.25	< 10	< 1	0.21	15	1.65	0.086	0.037	1.60	< 2	1	46	0.07	1	< 2	< 10	18	< 10	3	16		
GC20-0901-008	133	2.47	< 10	< 1	0.17	15	0.78	0.165	0.047	2.48	< 2	1	60	< 0.01	2	< 2	< 10	10	13	3	19		
F001608	13	1.81	< 10	< 1	0.24	14	0.46	0.210	0.043	0.05	< 2	3	31	0.25	3	< 2	< 10	53	< 10	16	10		
123037258	90	1.58	< 10	< 1	0.18	< 10	0.65	0.061	0.031	0.26	< 2	< 1	60	< 0.01	2	< 2	< 10	8	< 10	1	4	0.11	0.30
1324013133	217	4.09	< 10	1	0.34	12	1.91	0.116	0.043	2.50	< 2	3	59	0.09	2	< 2	< 10	34	< 10	4	20	0.14	2.45
1324013131	277	3.21	< 10	< 1	0.36	13	1.60	0.143	0.039	2.14	2	2	67	0.06	3	< 2	< 10	21	< 10	3	21	0.24	2.16
GC20-0205-009	210	3.47	< 10	< 1	0.23	< 10	0.68	0.069	0.029	1.35	< 2	< 1	63	0.03	2	< 2	< 10	9	< 10	2	15		
GC20-0203-005	223	3.74	< 10	2	0.23	< 10	0.70	0.169	0.029	2.26	< 2	< 1	93	0.02	2	< 2	< 10	7	< 10	2	18		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GC20-0234-018	
1324008552	
1324017123	
1324017169	
1324017159	
1324008298	
1324008480	
1230058109	
1230058275	
GC20-0242-001	
GC20-0241-019	
GC20-0241-020	
1433004192	
GC20-0237-014	
F001597	
1324018221	
GC20-0824-001	
GC20-0822-001	
GC20-0828-002	142
GC20-0807-001	
GC20-0823-005	
GC20-0830-004	
GC20-0833-008	
GC20-0848-001	
GC20-0831-001	
GC20-0829-009	
1230059307	
GC20-0845-002	
GC20-0847-001	
1324018196	
1324018167	
GC20-0834-013	
GC20-0838-013	
GC20-0850-009	
GC20-0838-004	
GC20-0851-014	
1230059270	
F001596	
GC20-0827-015	
GC20-0851-003	
GC20-0155-015	
GC20-0852-005	
GC20-0852-001	
GC20-0864-019	
GC20-0853-001	
GC20-0852-022	
GC20-0854-001	
GC20-0860-001	
GC20-0860-017	
GC20-0832-016	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1230059295	
GC20-0858-001	
1230059260	
1230059282	
GC20-0858-020	
GC20-0818-016	
GC20-0856-001	
GC20-0809-012	
GC20-0861-001	
GC20-0815-018	
GC20-0815-016	
GC20-0859-014	
GC20-0855-026	
GC20-0855-025	
F001595	
GC20-0226-001	
GC20-0230-002	
GC20-0229-001	
GC20-0232-018	
1324013022	
GC20-0228-001	
1324013052	
1324013007	
1433004382	
1324013015	
GC20-0227-005	
1324013077	
1324013004	
1231037115	
GC20-0801-014	
GC20-0801-011	
GC20-0230-019	
GC20-0232-001	15.3
1324008523	
GC20-0234-001	
F001603	
GC20-0251-001	
1324021254	
GC20-0255-001	
1323004101	
1323004139	
1323004157	
1323004122	
1323004178	
1230060070	
GC20-0252-003	
GC20-0257-011	
GC20-0253-009FD	
GC20-0256-013	
1324021093	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1230060142	
1324022130	
1323004094	
1323004024	
1323004060	
1324021029	
1324022108	
1230060122	
1230060082	
1230060068	
F001604	
GC20-0870-006	
1324014186	
GC20-0873-007	
1324014252	
1324014414	
1324017527	
GC20-0874-009	
1235003014	
GC20-0874-026	
1235003134	
1324020061	
GC20-0882-025	
GC20-0876-001	
GC20-0876-009	
1324014386	
GC20-0887-013	
GC20-0878-012	
1324014452	
1324014110	
1324014334	
1324014222	
GC20-0171-018	
GC20-0879-014	
F001605	
GC20-0888-012	
GC20-0194-014	
GC20-0889-001	
1324020036	
GC20-0889-018	
GC20-0890-001	
GC20-0891-001	
1223001109	
1324020187	
1223001307	
GC20-0892-022	
GC20-0894-013	
GC20-0896-020	
GC20-0893-018	
GC20-0897-011	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1223001083	
GC20-0893-002	
GC20-0896-003	
1324020156	
1223001303	
1223001105	
1223001137	
1223001116	
F001606	
GC20-0899-008	
GC20-0897-014	
1223001067	
1231048049	
1324015096	
GC20-0900-017	
1231048032	
1231047125	
1324020082	
1324020195	
GC20-0906-001	
GC20-0903-001	
GC20-0907-002	
1223007028	
1223007054	
GC20-0900-018	
1223001075	
GC20-0902-001	
1324020089	
1223001050	
1324015076	
GC20-0901-025	
GC20-0901-008	
F001608	
123037258	
1324013133	
1324013131	
GC20-0205-009	
GC20-0203-005	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	71	1080	1	27	90	116	6.39	219	< 10	726	0.8	3	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	71	1070	1	27	88	114	6.71	209	< 10	748	0.8	4	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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SGR-1b Meas																							
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SGR-1b Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.0				8.50																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								1.1	< 0.5	2270	785	< 1	38	55	241	2.59	4		75	0.7	9	0.38	19
OREAS 922 (AQUA REGIA)								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2230	788	< 1	37	57	245	2.75	5		73	0.7	12	0.37	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	884	< 1	35	76	309	2.64	8		58	0.6	22	0.37	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4290	881	< 1	34	75	310	2.75	6		53	0.6	26	0.37	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								64.1	271	3470	536	12	25	> 5000	> 10000	1.61	73			0.6	6	1.47	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	284	3610	562	12	27	> 5000	> 10000	1.68	78			0.6	6	1.51	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas							3030																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
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GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							503																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
1324017169 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324017169 Dup																							
1230058275 Orig							104																
1230058275 Dup							101																
1433004192 Orig								2.9	3.9	125	1390	< 1	113	4	537	4.81	18	< 10	31	< 0.5	4	3.53	32
1433004192 Dup								2.9	3.6	126	1380	< 1	113	< 2	532	4.83	15	< 10	36	< 0.5	3	3.48	32
GC20-0828-002 Orig							> 5000																
GC20-0828-002 Dup							> 5000																
GC20-0833-008 Orig							3010																
GC20-0833-008 Dup							2950																
1230059307 Orig								3.0	1.7	38	1530	2	26	206	406	1.73	90	< 10	29	< 0.5	< 2	1.19	11
1230059307 Dup								3.0	1.5	39	1530	1	26	203	422	1.78	86	< 10	27	< 0.5	< 2	1.19	10
1230059270 Orig																							
1230059270 Dup																							
GC20-0851-003 Orig								1.7	< 0.5	27	1280	< 1	27	10	48	1.89	34	< 10	25	< 0.5	3	2.23	12
GC20-0851-003 Dup								1.6	< 0.5	28	1260	< 1	27	10	46	1.87	35	< 10	29	< 0.5	2	2.19	11
GC20-0864-019 Orig							194																
GC20-0864-019 Dup							193																
1230059282 Orig							160	0.7	0.6	23	845	< 1	22	22	161	1.80	100	< 10	40	< 0.5	< 2	0.61	9
1230059282 Dup							143	0.7	0.8	24	842	< 1	21	21	161	1.79	98	< 10	37	< 0.5	2	0.62	9
GC20-0809-012 Orig							286																
GC20-0809-012 Dup							270																
1324013077 Orig								0.3	< 0.5	42	265	< 1	16	< 2	52	2.06	7	< 10	33	< 0.5	5	0.70	12
1324013077 Dup								0.3	< 0.5	39	265	< 1	16	< 2	50	2.06	8	< 10	27	< 0.5	4	0.69	12
1324013004 Orig																							
1324013004 Dup																							
1231037115 Orig							51																
1231037115 Dup							49																
GC20-0255-001 Orig							88																
GC20-0255-001 Dup							87																
1323004139 Orig								0.9	1.1	57	667	< 1	15	6	263	1.98	15	< 10	20	< 0.5	4	1.19	9
1323004139 Dup								1.0	1.0	56	654	< 1	15	7	265	1.98	15	< 10	23	< 0.5	5	1.17	10
1323004122 Orig							125																
1323004122 Dup							125																
1230060142 Orig																							
1230060142 Dup																							
1323004024 Orig								2.7	1.9	41	707	2	16	23	570	1.67	47	< 10	18	< 0.5	< 2	2.02	10
1323004024 Dup								2.4	2.3	39	689	2	15	23	557	1.61	44	< 10	24	< 0.5	2	1.97	10
1324014186 Orig	52.5	13.8	-38.7	57.0	0.241																		
1324014186 Dup	52.5	13.9	-38.6	57.0	0.244																		
GC20-0873-007							270																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Orig																							
GC20-0873-007 Dup							266																
GC20-0874-009 Orig								3.5	< 0.5	31	1170	< 1	32	27	210	2.44	68	< 10	24	< 0.5	4	0.34	13
GC20-0874-009 Dup								3.4	< 0.5	30	1130	< 1	31	26	205	2.38	64	< 10	22	< 0.5	2	0.33	12
GC20-0876-001 Orig							75																
GC20-0876-001 Dup							71																
GC20-0878-012 Orig							1090																
GC20-0878-012 Dup							1170																
1324014222 Orig																							
1324014222 Dup																							
GC20-0879-014 Orig								> 100	6.2	13	1490	< 1	24	875	1830	0.86	82	< 10	39	< 0.5	2	1.55	11
GC20-0879-014 Dup								> 100	6.1	13	1500	< 1	23	878	1840	0.85	81	< 10	35	< 0.5	< 2	1.56	10
GC20-0896-020 Orig								0.2	< 0.5	121	479	< 1	44	< 2	52	5.08	2	< 10	18	< 0.5	2	3.42	20
GC20-0896-020 Dup								< 0.2	< 0.5	121	481	< 1	46	< 2	52	5.06	< 2	< 10	18	< 0.5	2	3.39	20
GC20-0893-018 Orig							5																
GC20-0893-018 Dup							5																
1223001116 Orig																							
1223001116 Dup																							
GC20-0899-008 Orig							85																
GC20-0899-008 Dup							88																
GC20-0897-014 Orig								0.3	< 0.5	176	492	< 1	48	< 2	45	5.06	< 2	< 10	22	< 0.5	3	3.37	22
GC20-0897-014 Dup								0.3	< 0.5	174	489	< 1	48	< 2	46	5.03	< 2	< 10	22	< 0.5	2	3.35	22
1231048049 Orig							7																
1231048049 Dup							6																
1231048032 Orig						9.02																	
1231048032 Dup						9.02																	
GC20-0900-018 Orig								0.7	0.7	74	696	< 1	12	3	198	2.41	8	< 10	25	< 0.5	4	0.76	9
GC20-0900-018 Dup								0.8	0.6	71	694	< 1	12	4	193	2.40	7	< 10	29	< 0.5	5	0.75	10
1324020089 Orig																							
1324020089 Dup																							
123037258 Orig							6																
123037258 Dup							6																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	76	5.71	20	2	1.11	< 10	0.39	0.158	0.031	0.01	4	19	32		< 1	< 2	< 10	164	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.76	20	1	1.11	< 10	0.41	0.149	0.032	0.01	4	18	31		< 1	< 2	< 10	161	< 10	4	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
SGR-1b Meas																						28.0	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.64
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.66

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.65
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.60
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	44	5.14	< 10		0.49	38	1.28	0.039	0.057	0.34	< 2	4	16			< 2	< 10	35	< 10	18	20		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.20	< 10		0.47	38	1.38	0.037	0.059	0.37	3	4	16			< 2	< 10	35	< 10	18	15		
OREAS 922	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.37		0.055	0.63	3	4	14			< 2	< 10	33	< 10	16	25		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	39	5.83	< 10		0.38	34	1.43		0.057	0.66	3	4	14			< 2	< 10	33	< 10	17	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	27	3.20	< 10	4	0.36	20	0.41	0.180	0.031	4.26	99	2	19			< 2	< 10	12	< 10	6	57		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.30	< 10	4	0.36	19	0.44	0.179	0.032	4.68	107	2	17			< 2	< 10	13	< 10	7	54		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1324017169 Orig																						0.26	2.46
1324017169 Dup																						0.26	2.63
1230058275 Orig																							
1230058275 Dup																							
1433004192 Orig	216	8.19	< 10	2	0.21	< 10	2.98	0.300	0.041	2.83	2	8	73	0.10	< 1	< 2	< 10	109	< 10	6	8		
1433004192 Dup	208	8.17	< 10	2	0.21	< 10	2.99	0.298	0.041	2.77	< 2	7	72	0.10	2	< 2	< 10	109	< 10	6	8		
GC20-0828-002 Orig																							
GC20-0828-002 Dup																							
GC20-0833-008																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Orig																							
GC20-0833-008 Dup																							
1230059307 Orig	257	2.45	< 10	< 1	0.35	17	1.28	0.054	0.056	2.04	< 2	< 1	15	< 0.01	< 1	< 2	< 10	10	< 10	2	7		
1230059307 Dup	260	2.48	< 10	< 1	0.35	18	1.30	0.056	0.056	2.07	2	< 1	15	< 0.01	< 1	< 2	< 10	10	< 10	2	7		
1230059270 Orig																						0.12	1.73
1230059270 Dup																						0.12	1.74
GC20-0851-003 Orig	254	2.38	< 10	< 1	0.34	15	0.99	0.129	0.042	2.06	< 2	1	61	0.02	< 1	< 2	< 10	13	< 10	4	7		
GC20-0851-003 Dup	247	2.35	< 10	< 1	0.33	15	0.98	0.129	0.043	2.06	< 2	1	60	0.02	1	< 2	< 10	13	< 10	4	14		
GC20-0864-019 Orig																							
GC20-0864-019 Dup																							
1230059282 Orig	478	2.43	< 10	< 1	0.34	17	0.64	0.104	0.048	1.25	2	1	33	0.04	2	< 2	< 10	16	< 10	2	3		
1230059282 Dup	480	2.42	< 10	< 1	0.34	16	0.64	0.102	0.048	1.24	2	1	33	0.03	< 1	< 2	< 10	15	< 10	2	2		
GC20-0809-012 Orig																							
GC20-0809-012 Dup																							
1324013077 Orig	295	2.29	< 10	< 1	0.18	16	1.25	0.144	0.044	1.43	< 2	1	78	< 0.01	< 1	< 2	< 10	11	< 10	2	11		
1324013077 Dup	294	2.26	< 10	< 1	0.19	17	1.26	0.145	0.043	1.43	< 2	1	78	< 0.01	2	< 2	< 10	11	< 10	2	8		
1324013004 Orig																						0.24	1.25
1324013004 Dup																						0.25	1.25
1231037115 Orig																							
1231037115 Dup																							
GC20-0255-001 Orig																							
GC20-0255-001 Dup																							
1323004139 Orig	176	2.48	< 10	< 1	0.17	18	1.08	0.117	0.044	2.33	< 2	< 1	65	< 0.01	1	< 2	< 10	8	< 10	2	6		
1323004139 Dup	168	2.45	< 10	< 1	0.17	18	1.06	0.117	0.044	2.28	< 2	< 1	65	< 0.01	2	< 2	< 10	8	< 10	2	7		
1323004122 Orig																							
1323004122 Dup																							
1230060142 Orig																						0.04	5.77
1230060142 Dup																						0.03	5.65
1323004024 Orig	164	3.10	< 10	< 1	0.22	20	1.05	0.153	0.048	2.98	< 2	< 1	67	< 0.01	< 1	< 2	< 10	10	< 10	3	14		
1323004024 Dup	157	2.97	< 10	< 1	0.21	19	1.02	0.147	0.047	2.87	< 2	< 1	64	< 0.01	2	< 2	< 10	10	< 10	3	14		
1324014186 Orig																						0.27	1.86
1324014186 Dup																						0.25	1.86
GC20-0873-007 Orig																							
GC20-0873-007 Dup																							
GC20-0874-009 Orig	260	2.83	< 10	< 1	0.63	21	1.91	0.027	0.086	1.68	2	2	8	0.03	3	< 2	< 10	21	< 10	3	2		
GC20-0874-009 Dup	252	2.74	< 10	< 1	0.61	20	1.87	0.027	0.084	1.63	2	2	8	0.03	2	< 2	< 10	21	< 10	3	2		
GC20-0876-001 Orig																							
GC20-0876-001 Dup																							
GC20-0878-012 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0878-012 Dup																							
1324014222 Orig																						0.19	1.52
1324014222 Dup																						0.19	1.56
GC20-0879-014 Orig	417	2.02	< 10	< 1	0.50	18	0.16	0.025	0.038	1.94	6	< 1	97	< 0.01	3	< 2	< 10	6	< 10	2	13		
GC20-0879-014 Dup	417	2.03	< 10	< 1	0.49	18	0.16	0.025	0.038	1.97	5	< 1	97	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
GC20-0896-020 Orig	105	4.32	< 10	1	0.06	< 10	1.55	0.651	0.019	0.08	< 2	5	61	0.20	< 1	< 2	< 10	125	< 10	3	3		
GC20-0896-020 Dup	106	4.44	< 10	3	0.06	< 10	1.55	0.675	0.019	0.08	< 2	5	61	0.21	1	< 2	< 10	126	< 10	3	3		
GC20-0893-018 Orig																							
GC20-0893-018 Dup																							
1223001116 Orig																						0.46	2.27
1223001116 Dup																						0.46	2.19
GC20-0899-008 Orig																							
GC20-0899-008 Dup																							
GC20-0897-014 Orig	118	4.44	< 10	4	0.07	< 10	1.85	0.610	0.019	0.11	< 2	7	68	0.20	< 1	< 2	< 10	127	< 10	4	3		
GC20-0897-014 Dup	115	4.43	< 10	< 1	0.07	< 10	1.84	0.603	0.019	0.11	< 2	7	68	0.21	< 1	< 2	< 10	128	< 10	4	3		
1231048049 Orig																							
1231048049 Dup																							
1231048032 Orig																							
1231048032 Dup																							
GC20-0900-018 Orig	118	2.79	< 10	< 1	0.16	15	1.38	0.198	0.036	2.01	< 2	< 1	71	< 0.01	2	< 2	< 10	11	< 10	2	19		
GC20-0900-018 Dup	119	2.79	< 10	< 1	0.16	15	1.37	0.203	0.036	1.99	< 2	< 1	72	< 0.01	3	< 2	< 10	11	< 10	2	20		
1324020089 Orig																						0.16	2.65
1324020089 Dup																						0.16	2.68
123037258 Orig																							
123037258 Dup																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
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Method Blank																							
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Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
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BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
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SGR-1b Meas	
SGR-1b Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
SGR-1b Meas	
SGR-1b Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
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GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
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NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA)	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
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OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	15.0
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
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Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1324017169 Orig	
1324017169 Dup	
1230058275 Orig	
1230058275 Dup	
1433004192 Orig	
1433004192 Dup	
GC20-0828-002	147

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Orig	
GC20-0828-002 Dup	136
GC20-0833-008 Orig	
GC20-0833-008 Dup	
1230059307 Orig	
1230059307 Dup	
1230059270 Orig	
1230059270 Dup	
GC20-0851-003 Orig	
GC20-0851-003 Dup	
GC20-0864-019 Orig	
GC20-0864-019 Dup	
1230059282 Orig	
1230059282 Dup	
GC20-0809-012 Orig	
GC20-0809-012 Dup	
1324013077 Orig	
1324013077 Dup	
1324013004 Orig	
1324013004 Dup	
1231037115 Orig	
1231037115 Dup	
GC20-0255-001 Orig	
GC20-0255-001 Dup	
1323004139 Orig	
1323004139 Dup	
1323004122 Orig	
1323004122 Dup	
1230060142 Orig	
1230060142 Dup	
1323004024 Orig	
1323004024 Dup	
1324014186 Orig	
1324014186 Dup	
GC20-0873-007 Orig	
GC20-0873-007 Dup	
GC20-0874-009 Orig	
GC20-0874-009 Dup	
GC20-0876-001	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Orig	
GC20-0876-001 Dup	
GC20-0878-012 Orig	
GC20-0878-012 Dup	
1324014222 Orig	
1324014222 Dup	
GC20-0879-014 Orig	
GC20-0879-014 Dup	
GC20-0896-020 Orig	
GC20-0896-020 Dup	
GC20-0893-018 Orig	
GC20-0893-018 Dup	
1223001116 Orig	
1223001116 Dup	
GC20-0899-008 Orig	
GC20-0899-008 Dup	
GC20-0897-014 Orig	
GC20-0897-014 Dup	
1231048049 Orig	
1231048049 Dup	
1231048032 Orig	
1231048032 Dup	
GC20-0900-018 Orig	
GC20-0900-018 Dup	
1324020089 Orig	
1324020089 Dup	
123037258 Orig	
123037258 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-11589**
Report Date:	**24-Nov-20**
Date Submitted:	**24-Sep-20**
Your Reference:	**2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

103 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-10-16 21:33:36
4F-C, S	Infrared	2020-10-08 21:11:01

REPORT **A20-11589**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: samples F001607, F001609, F001610, F001611, and F001567 are insufficient.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-11589**
Report Date: **24-Nov-20**
Date Submitted: **24-Sep-20**
Your Reference: **2020 August Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

103 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-10-05 20:45:15
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-20 12:34:40

REPORT **A20-11589**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: samples F001607, F001609, F001610, F001611, and F001567 are insufficient.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
12310377238	25.8	26.6	0.743	30.9	0.859	8.71	142	0.9	< 0.5	23	575	< 1	19	12	98	1.60	34	< 10	39	< 0.5	4	1.57	10
GC20-0219-001							571	1.6	< 0.5	548	248	< 1	13	4	29	2.35	14	< 10	44	< 0.5	8	0.91	10
GC20-0206-013							47	0.4	0.8	67	455	12	17	< 2	284	4.03	7	< 10	50	< 0.5	4	2.05	9
GC20-0212-001							96	0.3	< 0.5	88	273	< 1	16	< 2	28	3.33	3	< 10	38	< 0.5	6	1.26	9
GC20-0209-002							194	1.3	< 0.5	504	371	5	14	7	175	1.88	38	< 10	20	< 0.5	5	0.72	13
GC20-0224-001							113	0.6	< 0.5	30	475	< 1	16	3	66	3.03	26	< 10	39	< 0.5	4	1.81	9
GC20-0225-021							351	0.5	< 0.5	216	266	< 1	9	< 2	19	2.38	10	< 10	54	< 0.5	13	0.85	7
GC20-0190-019							134	0.4	< 0.5	174	275	< 1	11	< 2	26	2.84	7	< 10	41	< 0.5	3	0.80	8
GC20-0136-015							1890	3.3	< 0.5	53	389	1	13	19	47	2.18	9	< 10	52	< 0.5	6	1.47	9
GC20-0218-002							184	0.6	< 0.5	68	444	1	17	7	40	2.40	14	< 10	52	< 0.5	4	0.63	10
GC20-0216-016							552	0.4	< 0.5	162	262	< 1	10	< 2	24	2.36	6	< 10	54	< 0.5	7	1.23	6
GC20-0217-001							440	0.3	< 0.5	22	434	< 1	14	6	63	2.06	12	< 10	38	< 0.5	3	0.27	11
GC20-0219-018							620	0.4	< 0.5	151	278	< 1	9	2	31	2.39	14	< 10	52	< 0.5	9	1.14	5
GC20-0215-012							1030	3.0	< 0.5	162	232	4	14	27	26	1.20	19	< 10	37	< 0.5	3	0.59	10
GC20-0221-015							93	0.2	< 0.5	47	329	2	13	< 2	65	3.22	6	< 10	51	< 0.5	4	1.95	6
GC20-0222-011							42	< 0.2	< 0.5	17	451	4	17	< 2	91	3.77	< 2	< 10	57	< 0.5	3	2.34	5
1231037012	14.0	28.9	15.0	17.1	1.69	8.85	32	0.9	< 0.5	19	639	< 1	16	7	91	2.29	15	< 10	56	< 0.5	< 2	2.04	9
GC20-0214-014							329	0.7	< 0.5	18	386	1	23	< 2	101	2.95	16	< 10	49	< 0.5	2	1.10	14
132403108	39.6	22.1	-17.5	43.5	0.508	8.54	66	0.2	< 0.5	52	392	1	13	< 2	45	2.53	6	< 10	50	< 0.5	3	1.80	12
GC20-0223-010							245	0.4	< 0.5	64	368	1	14	3	47	1.94	13	< 10	68	< 0.5	3	1.16	9
1324013091	43.6	6.06	-37.6	47.8	0.127	8.48	108	0.7	< 0.5	72	320	< 1	14	3	79	2.48	23	< 10	49	< 0.5	7	0.81	9
F001607							1050																
GC20-0929-001							85	0.5	< 0.5	60	346	< 1	10	5	57	2.10	7	< 10	21	< 0.5	5	1.13	8
1231046199	10.6	13.4	2.78	10.4	1.29	9.06	10	< 0.2	< 0.5	35	533	< 1	35	< 2	91	2.72	5	< 10	48	< 0.5	< 2	1.87	14
GC20-0927-002							330	0.6	< 0.5	185	426	< 1	10	3	75	1.74	14	< 10	31	< 0.5	5	0.66	10
1231046127	9.58	39.3	29.7	12.6	3.13	9.20	26	0.5	< 0.5	28	788	1	23	3	139	1.60	7	< 10	76	< 0.5	< 2	1.86	10
GC20-0195-018							360	0.8	< 0.5	215	201	1	11	3	35	2.58	7	< 10	65	< 0.5	< 2	1.41	8
1231046115	10.3	36.4	26.1	10.1	3.60	9.09	35	0.8	0.7	13	740	< 1	29	< 2	169	1.69	6	< 10	66	< 0.5	< 2	1.80	10
1231046169	20.7	32.0	11.3	24.2	1.32	9.01	172	2.3	2.1	23	763	< 1	19	7	508	1.33	13	< 10	57	< 0.5	< 2	1.58	10
1231046215	15.6	23.8	8.16	15.3	1.55	9.11	36	1.0	< 0.5	15	673	< 1	15	< 2	111	1.36	9	< 10	64	< 0.5	< 2	1.30	9
1323002197	45.5	7.25	-38.3	48.7	0.149	8.42	509	0.6	1.6	36	274	1	14	12	407	1.01	52	< 10	28	< 0.5	3	0.43	11
GC20-0924-004							40	0.2	< 0.5	34	496	< 1	10	< 2	60	2.99	4	< 10	36	< 0.5	4	2.09	9
GC20-0932-001							198	0.3	< 0.5	6	440	< 1	10	< 2	40	2.97	18	< 10	34	< 0.5	6	1.51	9
1324021199	37.1	8.89	-28.2	39.8	0.223	8.58	61	0.5	< 0.5	137	240	1	11	< 2	120	1.81	3	< 10	50	< 0.5	6	0.71	8
1231046041	12.2	10.4	-1.78	11.9	0.871	8.96	15	< 0.2	< 0.5	46	486	1	21	9	85	2.27	2	< 10	56	< 0.5	< 2	1.49	10
GC20-0936-001							3440	0.5	< 0.5	123	395	< 1	14	4	60	2.97	11	< 10	38	< 0.5	10	1.23	11
GC20-0933-011							302	0.7	< 0.5	204	343	< 1	8	5	59	1.54	12	< 10	26	< 0.5	9	0.55	9
GC20-0930-004							2020	0.6	0.9	67	430	< 1	9	8	248	1.46	18	< 10	27	< 0.5	7	0.42	9
GC20-0934-004							74	0.3	< 0.5	30	595	< 1	10	3	88	2.43	3	< 10	26	< 0.5	7	1.22	8
GC20-0912-008							103	0.6	17.2	62	805	< 1	14	8	4330	2.24	28	< 10	31	< 0.5	3	0.67	11
GC20-0935-008							151	0.5	< 0.5	3	307	< 1	9	5	60	1.28	20	< 10	11	< 0.5	5	0.43	7
F001609							3240																
1231047034	20.6	20.4	-0.182	20.2	1.01	8.81	8	< 0.2	< 0.5	16	722	< 1	25	2	155	3.03	6	< 10	71	< 0.5	< 2	2.27	12
1324020016	59.8	17.8	-42.0	64.6	0.275	8.94	78	0.5	< 0.5	123	456	4	11	< 2	54	1.09	11	< 10	28	< 0.5	< 2	0.84	11
GC20-0908-001							190	1.5	1.4	38	744	< 1	11	3	407	2.29	11	< 10	34	< 0.5	4	0.85	10
GC20-0908-018							55	0.2	1.1	10	805	< 1	6	12	358	2.93	20	< 10	37	< 0.5	4	1.27	8
1324020002	50.4	16.5	-33.9	54.2	0.305	9.00	278	0.4	1.0	70	450	2	10	< 2	233	1.57	6	< 10	40	< 0.5	3	1.09	11
GC20-0905-009							84	1.4	< 0.5	87	450	3	11	4	125	1.76	11	< 10	33	< 0.5	20	0.97	10
GC20-0909-019							179	0.4	1.8	55	764	< 1	11	< 2	576	2.70	16	< 10	40	< 0.5	5	1.44	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0909-001							74	0.4	< 0.5	57	335	< 1	16	5	87	1.75	17	< 10	23	< 0.5	4	1.03	11
GC20-0907-025							646	2.0	49.9	194	799	< 1	17	11	> 10000	2.02	58	< 10	21	< 0.5	5	0.37	14
1231047001	6.88	26.1	19.2	6.74	3.87	9.24	6	0.2	0.6	18	490	< 1	19	12	122	2.41	6	13	60	< 0.5	< 2	1.95	10
1231047051	9.79	46.3	36.6	13.5	3.44	9.19	10	< 0.2	< 0.5	25	571	< 1	19	< 2	134	1.82	7	< 10	68	< 0.5	< 2	2.30	12
GC20-0913-001							60	0.8	1.1	141	773	< 1	20	5	230	3.05	13	< 10	36	< 0.5	3	1.97	13
GC20-0913-017							154	0.4	< 0.5	99	337	3	24	< 2	67	1.77	7	< 10	25	< 0.5	< 2	1.12	317
1231046156	8.44	13.2	4.76	8.27	1.60	9.26	7	< 0.2	< 0.5	29	379	< 1	20	< 2	48	1.94	3	< 10	72	< 0.5	< 2	1.17	11
1223001197	67.1	38.6	-28.5	71.7	0.538	8.51	64	2.6	0.6	14	682	< 1	12	45	155	1.02	18	< 10	37	< 0.5	6	1.63	11
1231047057	7.19	11.8	4.57	7.04	1.67	9.19	10	0.3	< 0.5	18	449	< 1	14	5	109	2.25	4	< 10	69	< 0.5	< 2	1.51	11
1323002282	46.6	10.4	-36.2	49.3	0.211	8.40	1520	0.6	0.9	13	731	< 1	16	18	186	1.59	122	< 10	25	< 0.5	5	0.47	9
1223001199	49.2	42.5	-6.64	54.2	0.784	8.44	898	2.0	3.1	97	890	1	14	11	645	1.89	23	< 10	40	< 0.5	3	1.98	9
1223001182	54.1	28.7	-25.4	60.9	0.470	8.40	737	3.4	10.4	114	771	< 1	13	87	2230	2.10	56	< 10	31	< 0.5	2	1.88	10
F001610							2050																
GC20-0880-002							71	8.1	1.3	89	1350	< 1	49	37	289	4.54	43	< 10	28	< 0.5	< 2	3.89	24
GC20-0880-019							519	3.8	4.1	15	216	< 1	20	55	988	0.98	21	< 10	12	< 0.5	< 2	0.46	25
GC20-0881-011							1190	55.2	9.4	132	191	< 1	15	217	2320	0.51	85	< 10	28	< 0.5	< 2	0.18	6
GC20-0137-014							36	0.2	< 0.5	30	244	1	12	< 2	19	3.41	6	< 10	40	< 0.5	4	1.19	9
GC20-0166-016							157	0.6	< 0.5	70	556	< 1	18	< 2	110	1.54	6	< 10	65	< 0.5	3	1.08	10
GC20-0164-021							947	1.0	< 0.5	356	295	2	16	2	30	2.18	6	< 10	42	< 0.5	4	1.36	8
GC20-0170-015							42	< 0.2	< 0.5	50	729	1	15	2	106	2.51	8	< 10	20	0.5	2	2.43	18
GC20-0176-021							87	0.3	< 0.5	36	352	1	17	< 2	43	2.75	6	< 10	66	< 0.5	4	0.73	7
1235003110	5.20	64.2	59.0	9.49	6.76	8.66	12	0.5	< 0.5	34	434	< 1	33	4	74	2.17	5	< 10	72	< 0.5	< 2	2.87	14
GC20-0886-020							20	0.4	1.5	14	109	< 1	11	9	329	0.96	3640	< 10	35	< 0.5	< 2	0.13	9
1231048029	30.7	42.6	11.9	35.8	1.19	8.79	42	13.2	0.6	32	971	< 1	22	60	187	1.10	81	< 10	49	< 0.5	3	1.97	8
GC20-0887-021							447	6.3	0.7	19	204	< 1	16	8	195	1.15	24	< 10	64	< 0.5	3	0.16	6
1235003012	1.35	42.3	41.0	5.21	8.13	8.24	11	0.2	< 0.5	29	418	< 1	29	5	78	2.71	5	< 10	97	< 0.5	< 2	2.26	12
1235003004	12.9	24.5	11.6	16.5	1.48	8.90	24	0.4	1.1	37	675	1	28	4	248	2.99	5	< 10	93	< 0.5	< 2	2.28	12
GC20-0181-014							287	0.5	< 0.5	250	376	2	15	< 2	41	2.84	9	< 10	28	< 0.5	2	1.05	10
GC20-0883-001							443	15.0	0.5	16	368	3	18	78	168	0.39	100	< 10	< 10	< 0.5	< 2	0.45	17
GC20-0174-020							219	0.6	< 0.5	58	258	< 1	16	< 2	71	2.44	7	< 10	58	< 0.5	4	0.97	11
GC20-0191-016							80	0.6	< 0.5	64	349	1	11	< 2	40	3.76	6	11	22	< 0.5	6	1.57	8
GC20-0882-002							386	14.7	4.7	62	1060	< 1	20	423	1310	0.45	126	< 10	24	< 0.5	< 2	1.37	17
GC20-0885-001							969	16.2	9.8	58	678	10	120	182	3530	0.69	375	< 10	< 10	< 0.5	4	0.35	81
1324020137	69.6	18.3	-51.3	75.9	0.241	8.58	145	1.0	0.7	36	483	< 1	12	3	206	1.53	9	< 10	26	< 0.5	2	1.03	11
GC20-0883-018							1560	9.3	18.1	120	154	< 1	12	300	4620	0.62	113	< 10	34	< 0.5	< 2	0.47	7
GC20-0887-001							198	9.2	0.7	8	1280	< 1	12	26	215	0.60	110	< 10	49	< 0.5	5	0.93	7
F001611							990																
1323002108	58.3	63.2	4.84	65.2	0.968	8.57	324	6.9	2.2	50	1800	1	11	52	518	0.77	27	< 10	25	< 0.5	3	2.12	9
1323002157	48.9	23.6	-25.3	53.6	0.441	8.53	487	4.6	2.6	38	738	< 1	12	104	527	2.20	49	< 10	29	< 0.5	3	1.72	10
1323002256	67.9	20.1	-47.8	75.3	0.267	8.15	1140	1.1	8.3	88	721	< 1	12	16	2020	1.44	76	< 10	31	< 0.5	< 2	1.00	10
1323003154	41.7	48.0	6.35	50.2	0.956	8.63	764	0.4	13.9	48	920	< 1	9	8	3340	0.92	77	< 10	30	< 0.5	3	1.70	8
1323003174	73.2	26.0	-47.2	96.8	0.268	8.39	2980	2.3	57.3	118	536	1	13	10	> 10000	0.57	129	< 10	23	< 0.5	< 2	0.98	11
1323006148	55.8	24.5	-31.3	61.9	0.397	8.66	332	1.1	< 0.5	259	508	3	15	5	80	1.23	10	< 10	28	< 0.5	2	1.18	10
1323003068	37.8	36.0	-1.79	42.3	0.852	8.75	224	0.7	3.9	32	1050	< 1	11	24	849	1.26	100	< 10	34	< 0.5	3	1.74	10
1323003191	49.8	21.5	-28.3	54.8	0.392	8.53	296	1.7	4.9	42	500	< 1	10	190	1110	0.67	149	< 10	25	< 0.5	< 2	0.87	9
1323003069	62.5	26.8	-35.6	68.3	0.393	8.46	376	1.3	7.8	48	664	< 1	11	30	1850	1.03	133	< 10	27	< 0.5	3	1.12	11
1323003052	57.5	28.2	-29.3	62.2	0.453	8.34	546	1.1	2.5	36	598	2	11	37	638	0.90	142	< 10	23	< 0.5	3	1.13	10
1323003095	46.0	29.9	-16.2	57.9	0.516	8.53	222	2.0	3.5	38	637	< 1	11	127	798	0.72	108	< 10	27	< 0.5	3	1.15	9
1323003112	35.3	9.94	-25.4	40.1	0.248	8.02	91	0.3	1.7	38	146	1	14	7	476	0.92	58	< 10	33	< 0.5	< 2	0.28	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1333099032	31.7	51.0	19.3	37.7	1.35	8.88	40	0.4	< 0.5	161	287	6	14	< 2	31	1.01	< 2	< 10	26	< 0.5	< 2	2.03	18
1333099015	21.0	56.9	35.8	27.9	2.04	9.47	17	< 0.2	< 0.5	32	277	2	15	< 2	27	1.13	< 2	< 10	42	< 0.5	3	2.03	9
F001567							2010																
1324020153	52.5	18.8	-33.7	60.9	0.309	8.37	71	0.5	< 0.5	79	472	4	14	2	61	1.18	11	< 10	33	< 0.5	3	0.94	11
GC20-0258-007							17	< 0.2	1.0	120	489	< 1	43	< 2	206	5.76	2	< 10	17	< 0.5	< 2	3.70	23

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
12310377238	342	2.05	< 10	< 1	0.35	16	0.63	0.145	0.043	1.51	< 2	1	59	0.02	< 1	< 2	< 10	11	< 10	2	15	0.34	1.01
GC20-0219-001	329	3.73	< 10	< 1	0.35	13	0.81	0.112	0.037	2.25	3	< 1	75	0.04	< 1	< 2	< 10	10	< 10	3	26		
GC20-0206-013	224	1.72	< 10	< 1	0.22	14	1.49	0.192	0.039	0.31	< 2	2	171	< 0.01	2	< 2	< 10	20	< 10	3	14		
GC20-0212-001	241	2.70	< 10	< 1	0.15	< 10	0.87	0.167	0.034	1.07	< 2	1	116	< 0.01	< 1	2	< 10	12	< 10	2	19		
GC20-0209-002	197	4.09	< 10	< 1	0.30	21	1.49	0.032	0.060	3.08	3	1	25	< 0.01	< 1	< 2	< 10	12	< 10	3	27		
GC20-0224-001	337	2.61	< 10	< 1	0.40	14	1.13	0.339	0.038	1.90	< 2	1	107	0.03	< 1	< 2	< 10	13	< 10	2	24		
GC20-0225-021	227	3.29	< 10	< 1	0.27	12	0.60	0.128	0.033	1.47	2	< 1	74	0.03	< 1	< 2	< 10	8	< 10	3	23		
GC20-0190-019	155	2.31	< 10	< 1	0.16	15	0.77	0.135	0.035	0.79	< 2	1	118	< 0.01	1	< 2	< 10	13	< 10	2	19		
GC20-0136-015	271	3.01	< 10	< 1	0.26	14	1.03	0.061	0.036	1.39	< 2	1	44	0.04	2	< 2	< 10	10	< 10	2	24		
GC20-0218-002	261	3.79	< 10	< 1	0.27	15	1.21	0.071	0.041	1.56	< 2	1	50	0.05	< 1	< 2	< 10	16	< 10	3	23		
GC20-0216-016	262	3.32	< 10	< 1	0.26	10	0.75	0.118	0.032	1.44	2	< 1	63	0.03	1	< 2	< 10	8	< 10	2	21		
GC20-0217-001	322	4.03	< 10	< 1	0.27	17	1.37	0.042	0.036	1.92	3	< 1	22	0.04	< 1	< 2	< 10	9	< 10	2	21		
GC20-0219-018	247	2.92	< 10	< 1	0.29	< 10	0.93	0.105	0.030	1.19	< 2	< 1	71	0.03	2	< 2	< 10	10	< 10	2	19		
GC20-0215-012	183	2.18	< 10	< 1	0.31	17	0.51	0.049	0.043	1.75	2	< 1	29	0.03	3	< 2	< 10	7	< 10	2	28		
GC20-0221-015	266	1.47	< 10	< 1	0.22	10	1.11	0.244	0.037	0.25	< 2	1	149	< 0.01	< 1	< 2	< 10	13	< 10	2	11		
GC20-0222-011	301	1.54	< 10	< 1	0.24	10	1.28	0.240	0.042	0.12	< 2	2	196	0.02	< 1	< 2	< 10	18	< 10	3	7		
1231037012	309	2.00	< 10	< 1	0.28	20	0.75	0.202	0.047	0.55	2	1	93	0.06	< 1	< 2	< 10	18	< 10	3	13	0.41	0.56
GC20-0214-014	307	3.95	< 10	< 1	0.29	11	1.90	0.125	0.052	2.01	< 2	3	95	0.03	1	< 2	< 10	31	< 10	5	29		
132403108	239	2.87	< 10	< 1	0.21	36	1.12	0.182	0.133	1.55	< 2	2	201	0.03	< 1	< 2	< 10	25	< 10	6	4	0.25	1.42
GC20-0223-010	262	2.03	< 10	< 1	0.37	11	0.88	0.122	0.036	0.97	2	1	55	< 0.01	< 1	< 2	< 10	9	< 10	2	12		
1324013091	258	2.61	< 10	< 1	0.29	12	1.79	0.133	0.035	1.68	3	< 1	56	0.04	3	< 2	< 10	12	< 10	3	27	0.17	1.56
F001607																							
GC20-0929-001	169	3.50	< 10	< 1	0.19	15	0.75	0.158	0.041	3.73	< 2	< 1	86	< 0.01	< 1	< 2	< 10	6	< 10	3	23		
1231046199	236	2.72	< 10	< 1	0.19	16	1.39	0.270	0.042	0.30	< 2	4	64	0.12	3	< 2	< 10	48	< 10	4	14	0.24	0.34
GC20-0927-002	113	3.32	< 10	< 1	0.17	16	1.28	0.044	0.038	1.91	< 2	< 1	17	< 0.01	2	2	< 10	9	< 10	3	26		
1231046127	225	2.17	< 10	< 1	0.55	17	1.08	0.092	0.050	0.39	< 2	3	39	0.10	< 1	< 2	< 10	29	< 10	3	14	0.53	0.41
GC20-0195-018	166	2.05	< 10	< 1	0.25	13	0.69	0.361	0.037	0.91	< 2	1	217	0.06	3	< 2	< 10	16	< 10	3	14		
1231046115	239	2.07	< 10	< 1	0.41	15	1.09	0.080	0.046	0.34	< 2	2	44	0.09	1	< 2	< 10	25	< 10	3	11	0.47	0.33
1231046169	216	2.10	< 10	< 1	0.40	18	0.90	0.073	0.046	0.80	< 2	2	29	0.08	3	< 2	< 10	25	< 10	3	14	0.43	0.79
1231046215	223	2.13	< 10	< 1	0.40	18	0.89	0.072	0.047	0.61	< 2	2	27	0.10	2	< 2	< 10	24	< 10	3	15	0.27	0.50
1323002197	221	2.18	< 10	< 1	0.14	10	0.51	0.037	0.040	1.72	3	< 1	17	< 0.01	1	< 2	< 10	7	< 10	1	16	0.12	1.59
GC20-0924-004	131	2.18	< 10	< 1	0.14	15	1.01	0.173	0.039	2.10	< 2	< 1	149	0.02	< 1	< 2	< 10	9	< 10	2	18		
GC20-0932-001	129	2.68	< 10	< 1	0.18	15	0.98	0.155	0.042	2.34	3	< 1	142	< 0.01	1	< 2	< 10	7	< 10	3	25		
1324021199	187	2.52	< 10	< 1	0.31	12	0.96	0.106	0.036	1.33	< 2	< 1	34	0.01	< 1	< 2	< 10	12	< 10	3	16	0.19	1.30
1231046041	226	2.18	< 10	< 1	0.25	17	1.03	0.197	0.046	0.51	< 2	2	85	0.08	1	< 2	< 10	26	< 10	4	14	0.24	0.39
GC20-0936-001	182	3.72	< 10	< 1	0.18	14	0.87	0.131	0.034	2.35	3	< 1	192	< 0.01	< 1	3	< 10	10	< 10	2	24		
GC20-0933-011	59	3.54	< 10	< 1	0.15	15	1.14	0.044	0.041	3.03	< 2	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	3	22		
GC20-0930-004	92	3.80	< 10	< 1	0.18	15	1.09	0.031	0.037	2.95	2	< 1	12	< 0.01	< 1	< 2	< 10	7	< 10	2	25		
GC20-0934-004	118	2.91	< 10	< 1	0.18	16	1.19	0.133	0.040	2.88	< 2	< 1	84	< 0.01	2	< 2	< 10	7	< 10	3	21		
GC20-0912-008	117	3.49	< 10	< 1	0.17	16	1.09	0.099	0.040	2.48	3	1	38	< 0.01	< 1	< 2	< 10	14	< 10	4	24		
GC20-0935-008	117	5.15	< 10	1	0.21	13	0.96	0.032	0.037	5.54	3	< 1	12	< 0.01	5	< 2	< 10	7	< 10	2	25		
F001609																							
1231047034	223	2.60	< 10	< 1	0.44	34	1.43	0.227	0.070	0.69	2	3	116	0.11	1	< 2	< 10	37	< 10	5	13	0.31	0.66
1324020016	119	2.76	< 10	< 1	0.10	11	0.82	0.065	0.038	2.18	< 2	1	22	< 0.01	< 1	2	< 10	14	< 10	3	19	0.21	2.11
GC20-0908-001	126	2.47	< 10	< 1	0.13	16	1.30	0.205	0.041	1.60	2	< 1	71	< 0.01	2	< 2	< 10	10	< 10	3	23		
GC20-0908-018	114	2.38	< 10	< 1	0.20	19	1.41	0.166	0.050	1.20	3	< 1	70	0.01	< 1	< 2	< 10	8	< 10	3	16		
1324020002	125	2.46	< 10	< 1	0.13	13	0.77	0.169	0.037	1.84	< 2	1	78	0.02	3	< 2	< 10	12	< 10	3	16	0.18	1.77
GC20-0905-009	173	2.05	< 10	< 1	0.12	16	0.93	0.212	0.041	1.92	< 2	1	88	< 0.01	< 1	< 2	< 10	11	16	3	25		
GC20-0909-019	109	2.74	< 10	< 1	0.18	14	1.38	0.175	0.039	1.65	< 2	< 1	72	0.03	2	< 2	< 10	11	< 10	3	23		
GC20-0909-001	239	3.03	< 10	< 1	0.20	18	1.03	0.153	0.044	2.83	< 2	< 1	73	< 0.01	< 1	< 2	< 10	10	< 10	3	24		
GC20-0907-025	114	3.99	< 10	2	0.17	16	1.72	0.050	0.047	3.30	3	1	17	< 0.01	3	< 2	< 10	15	< 10	5	25		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1231047001	198	2.51	< 10	< 1	0.28	26	1.12	0.166	0.058	0.19	< 2	2	91	0.13	< 1	< 2	< 10	34	< 10	4	10	0.34	0.22
1231047051	168	2.50	< 10	< 1	0.32	34	1.08	0.094	0.068	0.41	< 2	3	98	0.09	2	< 2	< 10	30	< 10	5	5	0.60	0.44
GC20-0913-001	139	3.13	< 10	< 1	0.17	24	1.56	0.274	0.054	2.48	< 2	2	156	0.06	< 1	< 2	< 10	25	< 10	4	20		
GC20-0913-017	397	2.79	< 10	< 1	0.12	12	1.06	0.133	0.030	1.69	3	< 1	44	< 0.01	< 1	3	< 10	9	> 200	2	14		
1231046156	189	2.12	< 10	< 1	0.37	17	1.01	0.082	0.042	0.23	< 2	3	36	0.10	< 1	< 2	< 10	26	14	3	17	0.20	0.27
1223001197	112	2.36	< 10	< 1	0.22	16	0.57	0.057	0.045	2.51	2	< 1	35	< 0.01	4	< 2	< 10	5	< 10	2	15	0.59	2.34
1231047057	267	2.41	< 10	< 1	0.26	23	0.94	0.170	0.055	0.23	< 2	3	124	0.12	4	< 2	< 10	37	< 10	4	11	0.20	0.23
1323002282	121	2.69	< 10	< 1	0.21	12	1.31	0.025	0.035	1.60	3	< 1	15	< 0.01	2	< 2	< 10	9	< 10	2	22	0.17	1.61
1223001199	200	2.73	< 10	< 1	0.23	14	0.98	0.093	0.041	1.85	3	< 1	48	< 0.01	2	< 2	< 10	9	< 10	2	15	0.71	1.77
1223001182	137	2.36	< 10	< 1	0.23	14	0.91	0.107	0.037	2.10	< 2	< 1	53	0.01	3	< 2	< 10	7	< 10	2	26	0.43	1.99
F001610																							
GC20-0880-002	262	5.16	< 10	2	0.13	< 10	1.80	0.395	0.021	0.79	5	11	82	0.17	< 1	2	< 10	108	< 10	6	5		
GC20-0880-019	323	2.67	< 10	< 1	0.54	14	0.05	0.024	0.046	2.88	4	< 1	56	0.01	< 1	< 2	< 10	7	151	2	18		
GC20-0881-011	384	1.82	< 10	2	0.30	10	0.05	0.018	0.040	1.64	20	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	1	11		
GC20-0137-014	306	3.49	< 10	< 1	0.28	11	0.89	0.229	0.033	1.66	3	1	122	0.03	< 1	< 2	< 10	12	< 10	3	21		
GC20-0166-016	303	2.78	< 10	< 1	0.41	16	1.20	0.090	0.044	0.96	< 2	3	35	0.06	1	< 2	< 10	29	< 10	4	21		
GC20-0164-021	374	2.23	< 10	< 1	0.24	14	0.82	0.171	0.037	1.25	< 2	1	75	0.04	< 1	< 2	< 10	14	< 10	3	13		
GC20-0170-015	205	4.79	< 10	< 1	0.52	65	1.84	0.072	0.253	1.80	< 2	5	238	0.06	< 1	< 2	< 10	56	< 10	10	5		
GC20-0176-021	375	3.50	< 10	< 1	0.29	14	1.06	0.094	0.041	0.58	< 2	1	60	0.03	1	< 2	< 10	16	< 10	2	15		
1235003110	440	2.82	< 10	< 1	0.37	16	1.38	0.175	0.042	0.37	< 2	4	54	0.10	< 1	< 2	< 10	52	< 10	4	12	0.95	0.31
GC20-0886-020	118	1.14	< 10	< 1	0.26	< 10	0.11	0.031	0.031	0.42	< 2	< 1	10	< 0.01	< 1	< 2	< 10	4	< 10	< 1	6		
1231048029	452	1.65	< 10	< 1	0.50	18	0.29	0.031	0.044	1.20	4	1	61	0.05	< 1	< 2	< 10	9	< 10	2	17	0.61	1.17
GC20-0887-021	355	1.53	< 10	< 1	0.34	10	0.21	0.034	0.032	0.69	2	< 1	13	< 0.01	< 1	< 2	< 10	6	< 10	< 1	7		
1235003012	423	2.60	< 10	< 1	0.36	21	1.22	0.200	0.051	0.18	< 2	3	117	0.10	< 1	< 2	< 10	42	< 10	5	10	0.70	0.17
1235003004	548	2.56	< 10	< 1	0.48	17	1.12	0.247	0.048	0.52	3	2	101	0.10	2	< 2	< 10	32	< 10	3	18	0.45	0.54
GC20-0181-014	131	2.76	< 10	< 1	0.13	11	1.16	0.074	0.034	0.57	< 2	1	81	< 0.01	< 1	< 2	< 10	19	< 10	2	12		
GC20-0883-001	112	4.94	< 10	< 1	0.23	13	0.04	0.018	0.037	6.17	4	< 1	24	< 0.01	3	< 2	< 10	3	< 10	1	13		
GC20-0174-020	300	2.25	< 10	< 1	0.29	15	0.78	0.130	0.039	1.50	< 2	< 1	55	< 0.01	3	< 2	< 10	10	< 10	2	20		
GC20-0191-016	103	2.84	< 10	< 1	0.12	15	1.28	0.213	0.036	1.02	< 2	2	139	< 0.01	< 1	< 2	< 10	16	< 10	3	12		
GC20-0882-002	133	2.88	< 10	1	0.23	14	0.13	0.023	0.043	3.37	11	< 1	42	< 0.01	3	< 2	< 10	3	< 10	2	10		
GC20-0885-001	365	10.8	< 10	5	0.36	< 10	0.17	0.020	0.021	14.1	11	< 1	16	< 0.01	2	< 2	< 10	6	< 10	1	15		
1324020137	139	2.48	< 10	< 1	0.10	18	1.03	0.138	0.051	2.60	< 2	1	53	< 0.01	< 1	< 2	< 10	11	< 10	3	23	0.21	2.48
GC20-0883-018	267	1.60	< 10	2	0.34	16	0.04	0.026	0.035	1.82	12	< 1	31	< 0.01	< 1	< 2	< 10	3	< 10	1	11		
GC20-0887-001	248	1.39	< 10	< 1	0.29	15	0.22	0.029	0.038	1.12	4	< 1	89	< 0.01	2	< 2	< 10	4	< 10	2	9		
F001611																							
1323002108	111	2.05	< 10	< 1	0.20	12	0.54	0.039	0.040	1.99	4	< 1	38	< 0.01	6	< 2	< 10	4	< 10	2	14	0.83	2.13
1323002157	121	2.05	< 10	< 1	0.23	13	0.91	0.129	0.037	1.75	< 2	< 1	61	0.01	3	< 2	< 10	9	< 10	2	17	0.31	1.75
1323002256	161	2.96	< 10	< 1	0.34	16	0.93	0.029	0.039	2.55	4	< 1	25	0.04	3	< 2	< 10	8	< 10	2	22	0.41	2.46
1323003154	118	1.85	< 10	< 1	0.24	14	0.67	0.022	0.035	1.58	3	< 1	20	< 0.01	2	2	< 10	5	< 10	1	12	0.66	1.64
1323003174	130	2.45	< 10	< 1	0.25	14	0.20	0.025	0.039	3.26	3	< 1	22	< 0.01	3	< 2	< 10	3	< 10	1	21	0.44	3.16
1323006148	301	2.74	< 10	< 1	0.25	14	0.71	0.072	0.040	2.12	< 2	1	30	0.02	< 1	< 2	< 10	15	< 10	3	21	0.47	2.02
1323003068	117	2.21	< 10	< 1	0.23	14	0.84	0.028	0.043	1.46	4	< 1	28	< 0.01	< 1	< 2	< 10	6	< 10	2	7	0.60	1.38
1323003191	116	1.92	< 10	< 1	0.24	14	0.34	0.024	0.044	1.98	4	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	2	13	0.35	1.79
1323003069	142	2.67	< 10	< 1	0.23	14	0.62	0.030	0.042	2.37	3	< 1	19	< 0.01	3	< 2	< 10	5	< 10	2	15	0.42	2.23
1323003052	126	2.31	< 10	< 1	0.21	11	0.50	0.031	0.043	2.18	4	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	2	14	0.41	2.03
1323003095	142	2.04	< 10	< 1	0.23	14	0.45	0.030	0.041	2.18	8	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	2	14	0.48	1.89
1323003112	216	1.70	< 10	< 1	0.14	< 10	0.34	0.034	0.038	1.31	3	< 1	15	< 0.01	< 1	< 2	< 10	8	< 10	1	14	0.14	1.31
1333099032	174	2.19	< 10	< 1	0.09	13	0.71	0.067	0.036	1.23	< 2	1	43	< 0.01	1	< 2	< 10	13	< 10	2	7	0.61	1.23
1333099015	199	2.01	< 10	< 1	0.13	< 10	0.80	0.114	0.036	0.96	< 2	1	51	< 0.01	< 1	< 2	< 10	10	< 10	2	9	0.74	0.91
F001567																							
1324020153	208	3.02	< 10	< 1	0.13	14	0.84	0.081	0.040	2.50	3	1	30	0.03	< 1	< 2	< 10	16	< 10	3	21	0.23	1.99

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0258-007	123	4.47	< 10	2	0.04	< 10	1.67	0.749	0.019	0.12	< 2	7	68	0.16	< 1	< 2	< 10	122	< 10	4	3		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.3	< 0.5	69	1050	1	22	93	122	6.90	219	< 10	762	0.8	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1070	1	24	95	124	7.18	226	< 10	746	0.8	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	66	1050	1	23	91	119	6.92	218	< 10	715	0.8	2	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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SGR-1b Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
SGR-1b Meas																							
SGR-1b Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		42.0				8.50																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		42.1																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2150	761	< 1	33	57	248	2.79	4		83	0.7	10	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922								0.9	< 0.5	2310	795	< 1	33	64	259	2.95	7		83	0.8	8	0.41	20

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2130	771	< 1	34	61	249	2.85	5		78	0.7	7	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								2.8	< 0.5	4320	869	< 1	32	80	331	2.83	7		68	0.7	25	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4510	903	< 1	32	83	345	3.00	8		69	0.7	27	0.42	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4160	868	< 1	31	82	318	2.83	6		56	0.6	24	0.40	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								65.9	286	3460	537	12	24	> 5000	> 10000	1.73	75			0.6	8	1.31	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.5	298	3590	553	13	25	> 5000	> 10000	1.78	79			0.6	9	1.58	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.7	290	3470	542	12	23	> 5000	> 10000	1.75	76			0.6	10	1.61	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 45f (Aqua Regia) Meas										341	168	< 1	220	8	26	7.21			137	1.0	3	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	223	7	26	7.38			137	1.0	3	0.07	39
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										342	171	< 1	231	9	26	7.37			140	1.0	2	0.07	36
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3190																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							493																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							525																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
GC20-0136-015 Orig							2030																
GC20-0136-015 Dup							1760																
GC20-0218-002 Orig								0.7	< 0.5	68	441	1	17	6	40	2.38	12	< 10	52	< 0.5	4	0.62	10
GC20-0218-002 Dup								0.6	< 0.5	69	446	1	17	7	41	2.43	15	< 10	51	< 0.5	4	0.63	10
132403108 Orig							59																
132403108 Dup							73																
GC20-0929-001 Orig							92																
GC20-0929-001 Dup							77																
1231046199 Orig								< 0.2	< 0.5	35	532	< 1	35	< 2	91	2.71	6	< 10	49	< 0.5	< 2	1.87	13
1231046199 Dup								< 0.2	< 0.5	35	534	< 1	35	< 2	92	2.72	5	< 10	48	< 0.5	< 2	1.88	14
1231046169 Orig	20.7	31.6	10.9	24.2	1.31																		
1231046169 Dup	20.7	32.3	11.6	24.2	1.34																		
GC20-0933-011 Orig								0.7	< 0.5	210	344	< 1	8	4	57	1.55	10	< 10	27	< 0.5	8	0.55	9
GC20-0933-011 Dup								0.7	< 0.5	197	342	< 1	8	5	61	1.54	13	< 10	26	< 0.5	10	0.56	9
1324020016 Orig							67																
1324020016 Dup							89																
GC20-0907-025 Orig								1.4	50.2	193	801	< 1	17	11	> 10000	2.04	57	< 10	23	< 0.5	5	0.37	14
GC20-0907-025 Dup								2.6	49.6	196	797	< 1	16	10	> 10000	2.00	59	< 10	20	< 0.5	5	0.37	13
1231047001 Orig																							
1231047001 Dup																							
GC20-0913-001 Orig							60																
GC20-0913-001 Dup							60																
1231047057 Orig							10																
1231047057 Dup							10																
GC20-0164-021 Orig								1.0	< 0.5	351	296	2	16	3	30	2.20	5	< 10	43	< 0.5	3	1.37	8
GC20-0164-021 Dup								1.0	< 0.5	361	295	2	15	2	30	2.15	6	< 10	42	< 0.5	5	1.36	9
GC20-0886-020 Orig							21																
GC20-0886-020 Dup							18																
1235003012 Orig																							
1235003012 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0174-020 Orig							219																
GC20-0174-020 Dup							218																
GC20-0882-002 Orig								15.4	4.6	59	1070	< 1	20	414	1330	0.47	114	< 10	25	< 0.5	< 2	1.37	18
GC20-0882-002 Dup								14.1	4.9	65	1040	< 1	19	432	1290	0.44	137	< 10	24	< 0.5	< 2	1.38	17
1323002256 Orig							1090																
1323002256 Dup							1180																
1323003068 Orig							200																
1323003068 Dup							247																
1323003191 Orig								1.6	4.9	41	501	< 1	10	191	1100	0.69	147	< 10	25	< 0.5	< 2	0.87	10
1323003191 Dup								1.8	4.8	42	498	< 1	10	189	1130	0.66	151	< 10	25	< 0.5	2	0.87	9
1323003069 Orig																							
1323003069 Dup																							
1323003052 Orig						8.34																	
1323003052 Dup						8.33																	
1333099032 Orig	31.7	50.8	19.2	37.7	1.35																		
1333099032 Dup	31.7	51.1	19.5	37.7	1.36																		
1324020153 Orig	52.5	18.8	-33.7	60.9	0.309																		
1324020153 Dup	52.5	18.8	-33.7	60.9	0.308																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	78	5.48	20	1	1.12	10	0.39	0.138	0.033	0.01	5	20	30		< 1	< 2	< 10	167	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	78	5.80	20	3	1.14	11	0.40	0.139	0.034	0.01	4	21	30		< 1	< 2	< 10	170	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.53	20	2	1.08	10	0.38	0.142	0.033	0.01	3	20	30		< 1	< 2	< 10	165	< 10	5	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.2
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
SGR-1b Meas																						27.5	1.52
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.53
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.54
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.8	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						28.0	1.61
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.5	1.59
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.7	1.62
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.64
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.6	1.66
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.3	1.65

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
SGR-1b Cert																						28	1.53
SGR-1b Meas																						27.4	1.60
SGR-1b Cert																						28	1.53
GS311-4 Meas																						1.10	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.11	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.12	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	4.87	< 10		0.48	38	1.32	0.038	0.059	0.35	3	4	16			< 2	< 10	35	< 10	20	15		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	48	5.27	< 10		0.49	40	1.39	0.038	0.063	0.38	3	4	17			< 2	< 10	37	< 10	21	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Meas	44	5.13	< 10		0.47	38	1.30	0.038	0.061	0.37	2	4	16			< 2	< 10	35	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.73	< 10		0.42	36	1.43		0.059	0.65	3	4	14			< 2	< 10	36	< 10	19	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	43	6.13	< 10		0.42	37	1.48		0.060	0.70	3	4	15			< 2	< 10	36	< 10	19	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	34	1.38		0.057	0.66	2	4	14			< 2	< 10	34	< 10	18	14		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	32	3.22	10	4	0.38	18	0.43	0.185	0.032	4.15	117	2	16			3	< 10	13	< 10	7	70		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	34	3.34	< 10	4	0.39	20	0.45	0.194	0.033	4.62	127	2	18			< 2	< 10	13	< 10	8	73		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	29	3.35	< 10	4	0.37	19	0.42	0.182	0.032	4.63	95	2	18			< 2	< 10	12	< 10	7	50		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 45f (Aqua Regia) Meas	339	13.5	20	< 1	0.11	11	0.18	0.054	0.020	0.02		27	14	0.10		< 2	< 10	196		5	12		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	337	14.1	20	< 1	0.11	11	0.18	0.053	0.020	0.02		27	15	0.10		< 2	< 10	200		5	13		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	336	14.1	20	< 1	0.10	11	0.18	0.058	0.021	0.02		28	14	0.11		< 2	< 10	199		5	15		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.37
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.04	0.32
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GC20-0136-015 Orig																							
GC20-0136-015																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Dup																							
GC20-0218-002 Orig	257	3.73	< 10	< 1	0.27	15	1.21	0.069	0.041	1.52	3	1	50	0.05	2	< 2	< 10	15	< 10	3	23		
GC20-0218-002 Dup	265	3.84	< 10	< 1	0.27	15	1.22	0.072	0.041	1.60	< 2	1	51	0.05	< 1	< 2	< 10	16	< 10	3	23		
132403108 Orig																							
132403108 Dup																							
GC20-0929-001 Orig																							
GC20-0929-001 Dup																							
1231046199 Orig	229	2.72	< 10	< 1	0.19	16	1.39	0.270	0.043	0.30	< 2	4	64	0.12	2	< 2	< 10	48	< 10	4	14	0.25	0.36
1231046199 Dup	243	2.72	< 10	< 1	0.19	16	1.40	0.271	0.042	0.30	< 2	4	64	0.12	3	< 2	< 10	48	< 10	4	14	0.22	0.32
1231046169 Orig																							
1231046169 Dup																							
GC20-0933-011 Orig	60	3.56	< 10	< 1	0.15	15	1.14	0.044	0.041	3.02	2	< 1	21	< 0.01	< 1	< 2	< 10	6	< 10	3	22		
GC20-0933-011 Dup	59	3.52	< 10	< 1	0.15	15	1.14	0.044	0.041	3.04	< 2	< 1	21	< 0.01	3	< 2	< 10	6	< 10	3	21		
1324020016 Orig																							
1324020016 Dup																							
GC20-0907-025 Orig	114	4.00	< 10	2	0.17	17	1.71	0.049	0.047	3.36	3	1	17	< 0.01	4	< 2	< 10	15	< 10	5	25		
GC20-0907-025 Dup	114	3.97	< 10	2	0.17	16	1.72	0.050	0.047	3.25	3	1	17	< 0.01	2	< 2	< 10	15	< 10	5	25		
1231047001 Orig																						0.34	0.22
1231047001 Dup																						0.34	0.22
GC20-0913-001 Orig																							
GC20-0913-001 Dup																							
1231047057 Orig																							
1231047057 Dup																							
GC20-0164-021 Orig	378	2.25	< 10	< 1	0.24	14	0.82	0.171	0.037	1.25	2	1	76	0.04	< 1	< 2	< 10	14	< 10	3	13		
GC20-0164-021 Dup	370	2.21	< 10	< 1	0.23	14	0.82	0.170	0.038	1.25	< 2	1	74	0.04	< 1	< 2	< 10	14	< 10	3	13		
GC20-0886-020 Orig																							
GC20-0886-020 Dup																							
1235003012 Orig																						0.69	0.15
1235003012 Dup																						0.71	0.19
GC20-0174-020 Orig																							
GC20-0174-020 Dup																							
GC20-0882-002 Orig	134	2.92	< 10	1	0.24	14	0.13	0.024	0.042	3.43	11	< 1	43	< 0.01	2	< 2	< 10	3	< 10	2	11		
GC20-0882-002 Dup	131	2.84	< 10	1	0.23	14	0.13	0.022	0.044	3.31	10	< 1	42	< 0.01	4	< 2	< 10	3	< 10	2	10		
1323002256 Orig																							
1323002256 Dup																							
1323003068 Orig																							
1323003068 Dup																							
1323003191 Orig	116	1.94	< 10	< 1	0.25	14	0.34	0.023	0.044	1.99	4	< 1	13	< 0.01	1	< 2	< 10	4	< 10	2	13		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323003191 Dup	115	1.90	< 10	< 1	0.24	14	0.34	0.024	0.044	1.96	4	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	2	13		
1323003069 Orig																						0.42	2.16
1323003069 Dup																						0.42	2.29
1323003052 Orig																							
1323003052 Dup																							
1333099032 Orig																							
1333099032 Dup																							
1324020153 Orig																							
1324020153 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-12874**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-16 21:10:52
4F-C, S	Infrared	2020-11-18 21:36:25

REPORT **A20-12874**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-12874**
Report Date: **18-Dec-20**
Date Submitted: **16-Oct-20**
Your Reference: **2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

93 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-30 10:10:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-03 12:44:26

REPORT **A20-12874**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230068189	11.6	36.8	25.3	16.2	2.27	9.21	42	0.5	3.0	16	544	< 1	17	4	449	1.33	6	< 10	50	< 0.5	2	1.74	9
1323019113	53.9	11.9	-42.1	59.1	0.201	8.85	199	1.1	2.9	199	593	< 1	18	4	712	1.74	21	< 10	34	< 0.5	4	0.75	12
GC20-0366-001							48	5.9	< 0.5	16	1210	< 1	11	46	124	0.72	28	< 10	31	< 0.5	3	2.70	6
GC20-0365-009							< 5	0.6	< 0.5	16	312	< 1	11	5	38	0.95	23	< 10	53	< 0.5	4	0.62	6
1433094353	126	82.4	-43.8	159	0.520	8.26	780	2.7	< 0.5	188	1720	< 1	67	9	266	3.25	55	< 10	21	< 0.5	4	2.57	40
F002083							783	4.7	< 0.5	28	238	< 1	8	11	39	1.21	< 2	< 10	40	< 0.5	< 2	0.74	9
1323018097	56.0	9.98	-46.1	60.0	0.166	8.69	34	0.7	< 0.5	149	345	1	15	9	148	2.47	13	< 10	33	< 0.5	4	0.89	8
GC20-0958-026							220	6.4	< 0.5	18	1120	< 1	23	25	78	2.92	57	< 10	25	< 0.5	< 2	2.48	14
1323017087	44.3	31.8	-12.5	48.4	0.657	8.87	291	1.0	1.5	112	372	3	16	3	426	0.94	10	< 10	39	< 0.5	2	1.29	9
1433094227	85.7	93.4	7.67	100	0.932	8.51	103	0.7	< 0.5	80	1710	< 1	55	< 2	184	3.86	18	< 10	26	< 0.5	3	3.70	30
1323018115	16.9	7.98	-8.89	19.6	0.407	9.16	205	0.4	< 0.5	139	382	1	42	< 2	51	4.12	2	< 10	42	< 0.5	5	2.52	19
1323021125	51.3	12.6	-38.8	57.9	0.217	8.44	186	0.6	< 0.5	109	457	< 1	27	6	59	3.58	9	< 10	37	< 0.5	4	2.00	12
1323021099	4.69	10.8	6.14	4.59	2.36	9.04	9	< 0.2	< 0.5	116	478	< 1	51	< 2	43	4.97	< 2	< 10	< 10	< 0.5	3	3.62	25
1323021100	6.88	8.72	1.84	6.74	1.29	9.05	22	< 0.2	< 0.5	109	501	< 1	53	< 2	48	5.24	< 2	< 10	13	< 0.5	3	3.65	24
1323021009	3.13	7.59	4.47	3.06	2.48	9.33	< 5	< 0.2	< 0.5	107	428	< 1	46	< 2	43	5.50	< 2	< 10	10	< 0.5	2	3.86	22
1323021063	2.19	6.97	4.78	2.14	3.25	9.09	< 5	< 0.2	< 0.5	109	420	< 1	50	< 2	39	5.40	< 2	< 10	< 10	< 0.5	3	3.73	23
1323018153	40.0	8.84	-31.2	44.4	0.199	8.88	256	1.1	< 0.5	202	509	2	12	< 2	107	2.33	11	< 10	36	< 0.5	15	0.65	8
1230068244	20.1	65.0	44.9	24.5	2.65	9.03	42	3.8	< 0.5	27	1620	< 1	14	49	143	0.98	43	< 10	26	< 0.5	2	2.80	6
GC20-0306-016							155	2.8	< 0.5	27	1570	< 1	23	14	117	2.08	67	< 10	31	< 0.5	< 2	2.78	10
1433094586	85.8	73.5	-12.3	101	0.730	8.24	1260	2.4	2.0	157	1700	4	8	11	454	3.09	65	< 10	22	< 0.5	5	3.12	28
1323021053	34.3	8.60	-25.7	38.0	0.227	8.71	70	0.3	< 0.5	49	440	1	14	< 2	58	3.33	7	< 10	55	< 0.5	3	1.27	10
1323018034	58.3	9.97	-48.4	63.7	0.156	8.76	34	0.8	0.6	167	409	2	15	< 2	176	2.67	15	< 10	40	< 0.5	4	0.84	9
1323018052	55.7	7.00	-48.7	58.8	0.119	8.49	30	0.4	< 0.5	48	166	2	14	< 2	34	2.21	4	< 10	28	< 0.5	5	1.02	10
1323021085	62.0	10.7	-51.3	66.2	0.162	8.51	98	0.4	< 0.5	24	420	< 1	12	4	50	3.22	13	< 10	34	< 0.5	7	1.88	8
1323022138	38.1	12.1	-26.0	41.7	0.291	8.61	28	0.3	< 0.5	16	450	< 1	14	< 2	48	3.79	7	< 10	49	< 0.5	7	2.21	8
1323022124	42.5	7.24	-35.3	45.3	0.160	8.55	407	0.5	< 0.5	117	374	< 1	14	2	57	2.83	9	11	31	< 0.5	4	1.20	9
GC20-0348-009FD							66	2.5	< 0.5	29	1610	< 1	14	63	149	1.34	54	< 10	30	< 0.5	3	1.97	8
F002082							1000	1.8	< 0.5	58	232	12	10	20	44	1.23	< 2	< 10	39	< 0.5	< 2	0.87	7
1323017049	52.0	16.1	-35.9	55.4	0.291	8.63	67	0.6	< 0.5	121	432	4	15	3	66	1.08	9	< 10	32	< 0.5	< 2	0.93	11
1323017098	60.5	24.8	-35.8	68.3	0.362	8.59	182	0.5	2.9	116	626	< 1	24	< 2	828	1.95	7	< 10	23	< 0.5	4	1.32	11
1323010013	44.6	8.50	-36.1	48.4	0.176	8.70	970	0.6	< 0.5	92	433	1	18	4	52	2.65	19	< 10	43	< 0.5	7	1.59	8
GC20-0332-012							686	0.9	3.4	15	599	< 1	16	10	708	1.00	1820	< 10	36	< 0.5	2	1.15	10
1323021035	6.88	8.87	2.00	6.74	1.32	9.09	16	< 0.2	< 0.5	101	462	< 1	52	< 2	54	4.98	4	< 10	13	< 0.5	4	3.41	23
1323021160	72.1	8.86	-63.2	77.5	0.114	8.46	103	0.6	< 0.5	121	318	3	18	3	48	1.81	10	< 10	32	< 0.5	5	0.97	10
1323010233	50.0	17.1	-32.9	56.0	0.305	8.64	601	2.2	< 0.5	554	410	2	17	6	99	1.81	10	< 10	40	< 0.5	6	1.18	12
1433094435	62.6	108	45.4	79.9	1.35	8.50	328	1.6	0.5	89	1950	< 1	39	3	246	4.08	24	< 10	28	< 0.5	4	3.52	32
1323021067	51.3	12.0	-39.4	55.7	0.215	8.65	119	0.3	< 0.5	88	287	3	17	< 2	27	1.74	4	< 10	35	< 0.5	3	1.15	12
14330941004	52.3	99.8	47.5	68.0	1.47	8.43	414	1.9	1.6	107	1620	< 1	15	4	347	3.29	23	< 10	30	< 0.5	2	3.71	30
1323021146	2.81	16.0	13.2	2.76	5.80	9.09	6	< 0.2	< 0.5	134	583	< 1	57	< 2	48	4.90	< 2	< 10	< 10	< 0.5	3	3.67	25
1323017072	53.6	33.1	-20.5	60.6	0.546	8.82	158	1.2	1.0	254	371	4	19	5	243	1.07	11	< 10	41	< 0.5	3	1.36	10
1323017080	82.1	17.4	-64.7	88.8	0.196	8.42	285	0.7	< 0.5	91	396	2	15	5	53	1.86	14	< 10	29	< 0.5	6	0.90	11
GC20-0333-005							408	1.3	25.4	103	741	< 1	25	7	5390	2.12	227	< 10	24	< 0.5	< 2	2.61	15
1230068066	17.1	17.0	-0.0941	20.8	0.816	9.17	32	1.6	< 0.5	14	442	< 1	13	10	59	2.30	29	< 10	42	< 0.5	3	1.73	6
1323021181	73.4	12.2	-61.2	79.3	0.154	8.60	171	0.7	< 0.5	80	439	3	21	4	143	2.55	13	< 10	33	< 0.5	4	1.49	11
1323021003	17.5	11.2	-6.26	17.1	0.656	8.97	7	< 0.2	< 0.5	33	430	< 1	16	< 2	130	3.31	2	< 10	68	< 0.5	< 2	1.95	10
GC20-0956-005							54	1.2	< 0.5	20	1190	1	11	22	71	1.15	86	< 10	28	< 0.5	< 2	2.55	7
GC20-0953-016							296	0.5	< 0.5	9	169	< 1	10	5	25	0.86	16	< 10	11	< 0.5	5	0.23	7
GC20-1033-021							603	0.6	< 0.5	123	474	2	14	3	62	2.34	17	< 10	31	< 0.5	5	1.46	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
F002081							2130	4.3	< 0.5	23	204	21	7	19	37	1.18	< 2	< 10	37	< 0.5	< 2	0.77	5
1432089449	29.5	103	73.2	45.6	2.25	8.79	99	1.0	0.7	117	2020	< 1	59	8	290	3.49	69	< 10	73	< 0.5	4	3.99	33
GC20-0318-017							60	0.3	0.8	122	550	< 1	47	9	181	5.35	3	< 10	21	< 0.5	< 2	3.60	23
1432089345	139	109	-30.1	177	0.614	8.13	954	3.6	7.7	227	934	< 1	65	180	1410	2.42	2640	< 10	29	< 0.5	< 2	3.78	35
1432089207	27.6	22.8	-4.80	34.6	0.659	8.52	26	0.7	3.1	110	804	< 1	38	41	719	3.90	10	< 10	21	< 0.5	3	1.67	38
1432089471	18.2	154	135	28.8	5.33	8.52	26	0.5	0.6	159	1070	< 1	45	10	163	3.75	14	< 10	19	< 0.5	3	5.27	32
GC20-0322-021							10	0.2	< 0.5	111	486	< 1	44	< 2	74	5.19	< 2	< 10	18	< 0.5	< 2	3.70	22
GC20-0327-001							741	1.1	0.7	15	158	< 1	20	18	171	0.70	103	< 10	15	< 0.5	< 2	0.59	13
1432089202	39.1	76.0	37.0	44.4	1.71	8.89	9	0.3	< 0.5	36	1380	< 1	28	5	162	2.15	14	< 10	55	< 0.5	< 2	3.01	15
1230067131	48.4	36.3	-12.1	54.2	0.670	8.99	71	2.8	< 0.5	12	1240	< 1	22	16	143	2.64	42	< 10	44	< 0.5	3	2.27	10
1432089036	1.03	127	126	6.13	20.7	8.85	< 5	0.3	< 0.5	52	1050	< 1	117	< 2	105	4.21	8	< 10	17	< 0.5	3	4.55	37
1433094216	65.9	87.0	21.1	80.2	1.08	8.71	60	0.4	< 0.5	56	1500	< 1	29	< 2	123	3.15	13	< 10	17	< 0.5	3	3.54	32
GC20-0324-001							26	0.3	< 0.5	107	724	< 1	56	5	119	4.33	5	< 10	22	< 0.5	4	3.29	25
GC20-0324-018							112	0.9	1.6	25	837	< 1	11	35	432	0.99	53	< 10	42	< 0.5	3	2.27	8
1432089540	0.306	66.0	65.7	4.29	15.4	9.20	12	0.2	< 0.5	172	754	< 1	22	< 2	86	2.24	10	< 10	< 10	< 0.5	3	3.18	31
GC20-0325-001							32	< 0.2	0.8	102	396	< 1	37	3	167	4.70	11	< 10	30	< 0.5	< 2	3.39	18
1432089518	40.5	74.6	34.1	54.2	1.38	8.55	30	0.6	0.8	74	1330	< 1	25	8	267	3.54	22	< 10	44	< 0.5	< 2	3.70	23
1432089487	5.93	89.3	83.4	11.9	7.48	8.79	70	0.7	< 0.5	277	826	< 1	66	< 2	106	3.38	17	< 10	14	< 0.5	< 2	4.37	33
GC20-0838-025							284	9.7	7.8	23	1200	< 1	21	390	2080	1.82	135	< 10	21	< 0.5	< 2	0.19	11
1432089150	75.1	124	48.8	91.3	1.36	8.25	92	0.5	0.6	108	1550	< 1	70	6	206	3.69	39	< 10	41	< 0.5	2	4.56	35
1323010162	19.8	17.6	-2.22	23.3	0.755	8.96	306	2.0	< 0.5	351	585	< 1	16	4	156	2.06	8	< 10	45	< 0.5	3	1.23	9
F002080							841	4.9	< 0.5	30	247	< 1	8	12	40	1.30	< 2	< 10	40	< 0.5	< 2	0.78	9
1230067092	55.4	6.86	-48.5	59.7	0.115	8.27	305	13.2	0.6	19	965	< 1	25	49	334	2.02	89	< 10	22	< 0.5	< 2	0.33	13
1230067019	83.8	11.2	-72.6	90.7	0.124	8.46	810	10.9	8.3	50	997	< 1	20	479	2180	1.36	157	< 10	29	< 0.5	< 2	0.56	11
1323010147	25.2	11.6	-13.6	28.2	0.411	8.78	468	0.6	< 0.5	67	600	1	16	8	118	2.28	8	< 10	40	< 0.5	3	0.95	8
1323010321	46.1	16.1	-30.1	49.9	0.322	8.74	66	0.6	< 0.5	85	438	2	23	5	90	2.04	25	< 10	40	< 0.5	5	1.33	9
1323010095	37.7	23.2	-14.5	41.7	0.557	8.59	113	1.1	< 0.5	17	509	< 1	14	3	130	1.96	28	< 10	38	< 0.5	3	1.63	8
1323010317	37.0	26.3	-10.7	40.4	0.650	8.76	52	0.5	1.0	44	718	2	22	5	291	2.09	28	< 10	49	< 0.5	4	1.89	11
1323017197	53.5	13.3	-40.2	57.3	0.233	8.68	529	0.9	< 0.5	196	485	3	15	34	175	1.13	8	< 10	32	< 0.5	< 2	0.80	10
1323010044	36.2	13.2	-23.0	39.8	0.332	8.76	184	0.5	< 0.5	77	527	1	15	3	63	2.14	8	< 10	48	< 0.5	7	1.14	9
1433094348	80.9	135	53.7	99.8	1.35	8.05	315	2.2	0.9	194	2370	2	67	< 2	282	3.59	30	< 10	26	< 0.5	4	4.19	27
1433094163	116	112	-4.13	171	0.657	8.11	99	0.8	< 0.5	105	1780	< 1	67	< 2	169	3.62	26	< 10	34	< 0.5	3	4.19	36
1323010204	70.7	8.62	-62.1	75.9	0.114	8.40	273	1.2	< 0.5	184	401	3	18	6	70	1.92	12	< 10	34	< 0.5	8	0.88	9
GC20-0871-018							618	25.6	< 0.5	45	1430	< 1	27	56	162	1.65	73	< 10	25	< 0.5	< 2	2.59	11
1323017122	42.9	25.7	-17.2	46.9	0.548	8.75	368	0.5	< 0.5	151	498	3	15	7	87	1.67	7	< 10	46	< 0.5	< 2	1.52	9
1323010007	46.0	13.5	-32.6	50.5	0.267	8.64	564	0.8	< 0.5	46	456	1	17	5	93	2.89	19	< 10	40	< 0.5	6	1.58	9
1323010048	12.5	25.6	13.1	15.6	1.64	9.09	63	< 0.2	0.9	37	602	1	22	3	229	1.69	5	< 10	58	< 0.5	3	1.12	8
GC20-0328-009FD							604	2.6	14.4	155	577	< 1	46	190	3510	2.41	140	< 10	28	< 0.5	< 2	2.18	23
1323017148	68.1	16.3	-51.8	75.3	0.217	8.68	123	0.8	< 0.5	156	320	4	20	21	77	1.46	12	< 10	17	< 0.5	4	0.85	10
1230068237	60.5	35.8	-24.7	66.8	0.536	8.51	80	7.1	1.4	32	1240	1	23	134	439	0.74	103	< 10	37	< 0.5	< 2	1.63	12
1323017107	62.2	22.4	-39.8	66.8	0.336	8.56	153	0.4	< 0.5	88	412	4	22	2	52	1.54	11	< 10	39	< 0.5	3	1.26	10
GC20-0328-004							732	1.6	20.9	50	335	< 1	17	71	4920	0.91	765	< 10	30	< 0.5	< 2	0.75	11
GC20-0331-018							908	2.6	28.1	93	139	< 1	16	120	6840	0.63	598	< 10	27	< 0.5	< 2	0.52	12
F002079							3290	2.6	< 0.5	38	255	15	13	16	40	1.34	4	< 10	49	< 0.5	< 2	0.92	9
1323003137	59.3	20.1	-39.2	75.3	0.267	8.38	121	0.8	12.4	30	328	< 1	16	12	3000	1.37	52	< 10	31	< 0.5	2	1.20	13

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230068189	314	2.19	< 10	< 1	0.23	13	0.73	0.087	0.041	0.56	< 2	1	62	0.06	< 1	< 2	< 10	19	< 10	3	12	0.51	0.53
1323019113	179	3.05	< 10	< 1	0.21	12	1.25	0.077	0.042	2.04	2	1	33	0.03	3	< 2	< 10	13	< 10	3	22	0.12	1.93
GC20-0366-001	198	1.16	< 10	< 1	0.25	13	0.33	0.022	0.037	0.85	< 2	< 1	61	< 0.01	< 1	< 2	< 10	4	< 10	1	6		
GC20-0365-009	182	1.21	< 10	< 1	0.28	10	0.17	0.035	0.033	0.63	< 2	< 1	21	< 0.01	< 1	< 2	< 10	4	< 10	1	8		
1433094353	104	10.3	< 10	2	0.12	< 10	2.32	0.096	0.056	4.21	6	9	41	0.13	2	< 2	< 10	138	< 10	9	7	1.62	5.18
F002083	12	2.11	< 10	< 1	0.25	11	0.44	0.229	0.035	0.03	< 2	2	33	0.34	4	< 2	< 10	49	< 10	16	20		
1323018097	245	2.96	< 10	< 1	0.21	12	1.64	0.118	0.036	1.97	3	< 1	52	< 0.01	< 1	< 2	< 10	9	< 10	2	20	0.17	1.96
GC20-0958-026	148	2.70	< 10	< 1	0.50	17	1.35	0.151	0.049	1.82	< 2	2	45	0.05	< 1	< 2	< 10	19	33	3	21		
1323017087	290	2.46	< 10	< 1	0.15	13	0.71	0.044	0.042	1.62	2	1	24	< 0.01	3	< 2	< 10	12	< 10	3	18	0.46	1.58
1433094227	141	8.60	10	2	0.18	< 10	2.44	0.197	0.057	3.01	4	10	75	0.13	1	< 2	< 10	160	< 10	8	7	1.58	3.27
1323018115	230	3.87	< 10	2	0.23	< 10	1.40	0.415	0.025	0.67	< 2	3	54	0.13	2	< 2	< 10	78	< 10	3	7	0.13	0.64
1323021125	194	4.08	< 10	1	0.16	23	1.40	0.307	0.055	1.84	< 2	2	260	0.06	< 1	< 2	< 10	31	< 10	4	13	0.16	1.89
1323021099	242	4.57	< 10	3	0.03	< 10	1.76	0.518	0.019	0.13	< 2	6	60	0.21	3	< 2	< 10	127	< 10	4	3	0.15	0.15
1323021100	290	4.49	< 10	1	0.04	< 10	1.84	0.510	0.019	0.20	< 2	5	72	0.20	2	< 2	< 10	116	< 10	3	3	0.25	0.22
1323021009	270	4.14	< 10	2	0.03	< 10	1.45	0.672	0.020	0.09	2	5	68	0.19	4	< 2	< 10	124	< 10	3	3	0.22	0.10
1323021063	211	4.15	< 10	3	0.02	< 10	1.58	0.587	0.015	0.07	< 2	4	62	0.20	3	< 2	< 10	119	< 10	3	3	0.18	0.07
1323018153	118	4.03	< 10	< 1	0.22	12	1.60	0.056	0.034	1.48	< 2	< 1	28	0.03	3	< 2	< 10	11	< 10	2	21	0.20	1.45
1230068244	226	1.23	< 10	< 1	0.28	14	0.25	0.071	0.037	0.88	3	< 1	53	0.02	< 1	< 2	< 10	5	< 10	2	11	0.82	0.80
GC20-0306-016	122	2.99	< 10	< 1	0.40	18	1.30	0.141	0.048	3.01	2	1	60	0.05	2	< 2	< 10	15	< 10	3	28		
1433094586	104	9.92	10	2	0.21	< 10	2.03	0.124	0.073	3.08	5	16	52	0.19	5	< 2	< 10	185	< 10	12	8	1.50	3.29
1323021053	221	3.19	< 10	< 1	0.24	15	1.06	0.151	0.044	1.30	< 2	1	151	0.04	< 1	< 2	< 10	17	< 10	3	11	0.14	1.24
1323018034	226	3.31	< 10	< 1	0.27	13	1.85	0.110	0.035	2.15	2	< 1	48	< 0.01	2	< 2	< 10	11	< 10	2	23	0.19	2.08
1323018052	166	2.14	< 10	< 1	0.14	12	0.85	0.170	0.040	1.97	3	< 1	79	< 0.01	< 1	< 2	< 10	9	< 10	3	15	0.15	1.92
1323021085	158	2.55	< 10	< 1	0.16	13	1.18	0.224	0.037	2.18	< 2	< 1	157	< 0.01	2	< 2	< 10	9	< 10	2	15	0.21	2.16
1323022138	285	2.39	< 10	< 1	0.21	13	1.31	0.195	0.038	1.36	2	< 1	186	< 0.01	< 1	< 2	< 10	11	< 10	2	9	0.25	1.36
1323022124	169	2.88	< 10	< 1	0.13	12	1.13	0.079	0.040	1.55	2	1	102	< 0.01	< 1	< 2	< 10	11	< 10	2	13	0.23	1.48
GC20-0348-009FD	163	1.80	< 10	< 1	0.42	14	0.70	0.031	0.040	1.62	3	< 1	22	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
F002082	14	1.98	< 10	< 1	0.25	13	0.47	0.194	0.047	0.05	< 2	3	33	0.26	3	< 2	< 10	56	< 10	17	11		
1323017049	276	2.77	< 10	< 1	0.13	12	0.78	0.058	0.042	1.88	< 2	1	22	0.02	2	< 2	< 10	14	< 10	3	17	0.29	1.81
1323017098	324	3.59	< 10	< 1	0.18	18	1.02	0.154	0.047	2.31	< 2	2	52	< 0.01	4	< 2	< 10	21	< 10	4	18	0.35	2.23
1323010013	419	2.68	< 10	< 1	0.27	11	0.63	0.234	0.037	1.53	< 2	< 1	145	0.01	2	< 2	< 10	10	< 10	2	12	0.22	1.58
GC20-0332-012	155	2.66	< 10	< 1	0.40	11	0.31	0.029	0.038	2.35	< 2	< 1	16	< 0.01	3	< 2	< 10	7	< 10	2	10		
1323021035	225	4.33	< 10	1	0.05	< 10	1.78	0.473	0.019	0.20	< 2	4	72	0.20	3	< 2	< 10	108	< 10	3	4	0.20	0.22
1323021160	310	3.22	< 10	< 1	0.16	13	0.95	0.188	0.040	2.45	3	1	116	0.01	< 1	< 2	< 10	13	< 10	3	19	0.25	2.53
1323010233	307	2.97	< 10	< 1	0.23	13	0.91	0.140	0.043	1.89	3	2	89	0.02	1	< 2	< 10	19	< 10	3	17	0.33	1.83
1433094435	125	10.1	10	2	0.25	< 10	2.11	0.243	0.068	1.87	4	13	78	0.17	2	< 2	< 10	205	< 10	11	7	1.69	2.61
1323021067	277	3.04	< 10	< 1	0.23	13	0.90	0.089	0.039	1.92	< 2	2	39	0.08	2	< 2	< 10	21	< 10	3	18	0.36	1.82
14330941004	141	9.76	10	2	0.18	< 10	1.97	0.156	0.076	2.01	4	15	71	0.19	3	< 2	< 10	197	< 10	12	8	1.63	2.22
1323021146	198	4.83	< 10	2	0.02	< 10	2.07	0.438	0.018	0.09	< 2	6	68	0.23	3	< 2	< 10	131	< 10	4	3	0.29	0.09
1323017072	384	2.87	< 10	< 1	0.22	13	0.72	0.065	0.040	2.09	< 2	1	28	< 0.01	2	< 2	< 10	15	< 10	3	19	0.50	1.98
1323017080	226	3.86	< 10	< 1	0.18	15	1.40	0.086	0.041	2.87	2	< 1	42	< 0.01	2	< 2	< 10	9	< 10	3	22	0.31	2.90
GC20-0333-005	132	3.07	< 10	< 1	0.20	< 10	1.00	0.172	0.031	1.52	< 2	4	33	0.08	2	< 2	< 10	43	< 10	3	10		
1230068066	306	1.46	< 10	< 1	0.23	16	0.43	0.263	0.041	0.74	< 2	< 1	107	0.01	1	< 2	< 10	10	< 10	2	7	0.30	0.68
1323021181	305	3.02	< 10	< 1	0.23	17	1.17	0.251	0.044	2.60	2	1	140	0.04	< 1	< 2	< 10	15	< 10	3	18	0.26	2.59
1323021003	189	2.61	< 10	< 1	0.15	13	1.07	0.189	0.043	0.58	< 2	2	159	0.07	3	< 2	< 10	29	< 10	3	6	0.26	0.56
GC20-0956-005	149	1.65	< 10	< 1	0.28	15	0.27	0.121	0.039	1.43	< 2	< 1	71	0.03	1	< 2	< 10	5	< 10	2	12		
GC20-0953-016	102	4.59	< 10	< 1	0.20	12	0.55	0.024	0.038	5.07	< 2	< 1	10	< 0.01	6	< 2	< 10	4	< 10	2	26		
GC20-1033-021	153	3.09	< 10	< 1	0.19	13	0.93	0.105	0.040	2.34	< 2	< 1	69	0.02	< 1	< 2	< 10	10	< 10	2	16		
F002081	12	1.54	< 10	< 1	0.21	17	0.36	0.202	0.040	0.04	< 2	2	35	0.22	2	< 2	< 10	37	< 10	15	20		
1432089449	126	8.94	< 10	< 1	0.82	< 10	2.20	0.106	0.056	1.36	7	13	44	0.18	1	< 2	< 10	172	< 10	9	7	1.92	1.49

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0318-017	111	4.60	< 10	< 1	0.09	< 10	1.71	0.667	0.020	0.21	2	7	68	0.18	< 1	< 2	< 10	122	< 10	3	3		
1432089345	107	9.24	< 10	< 1	0.32	< 10	1.65	0.080	0.034	5.31	13	14	38	0.09	< 1	< 2	< 10	285	22	9	5	1.49	5.78
1432089207	133	9.22	10	2	0.13	< 10	1.88	0.098	0.117	1.06	6	14	49	0.24	2	< 2	< 10	179	29	17	10	0.35	1.13
1432089471	99	9.42	10	2	0.10	< 10	2.41	0.068	0.057	0.86	3	24	57	0.14	2	< 2	< 10	349	< 10	11	5	2.29	0.94
GC20-0322-021	142	4.46	< 10	3	0.05	< 10	1.56	0.628	0.019	0.08	2	6	64	0.17	< 1	< 2	< 10	124	< 10	4	2		
GC20-0327-001	213	2.76	< 10	< 1	0.32	< 10	0.11	0.033	0.040	2.72	< 2	< 1	24	0.01	< 1	< 2	< 10	9	< 10	2	16		
1432089202	193	3.78	< 10	< 1	0.28	< 10	1.13	0.130	0.042	1.42	3	3	46	0.08	1	< 2	< 10	45	< 10	4	16	1.02	1.45
1230067131	198	2.38	< 10	< 1	0.73	16	1.41	0.213	0.046	1.86	2	2	52	0.05	< 1	< 2	< 10	18	< 10	3	15	0.46	1.77
1432089036	130	7.63	10	1	0.10	< 10	2.62	0.156	0.039	0.17	3	11	54	0.09	3	< 2	< 10	122	< 10	8	5	1.93	0.20
1433094216	106	9.86	10	2	0.09	< 10	1.86	0.192	0.074	2.48	4	11	67	0.17	3	< 2	< 10	188	< 10	10	9	1.38	2.62
GC20-0324-001	184	4.95	< 10	3	0.11	< 10	2.40	0.436	0.022	0.23	< 2	11	67	0.20	1	< 2	< 10	138	< 10	5	3		
GC20-0324-018	110	1.80	< 10	< 1	0.29	15	0.51	0.031	0.040	1.56	< 2	< 1	38	0.01	< 1	< 2	< 10	6	< 10	2	10		
1432089540	87	8.81	10	< 1	0.03	< 10	1.93	0.160	0.050	0.12	2	19	32	0.32	3	< 2	< 10	402	< 10	12	5	0.83	0.14
GC20-0325-001	228	3.56	< 10	2	0.14	< 10	1.10	0.559	0.019	0.22	3	4	65	0.15	3	< 2	< 10	110	< 10	3	4		
1432089518	112	7.59	10	1	0.23	< 10	1.79	0.295	0.081	1.64	3	11	73	0.16	3	3	< 10	124	< 10	11	13	1.50	1.77
1432089487	145	8.30	10	2	0.08	< 10	2.15	0.206	0.045	0.36	3	24	43	0.23	1	< 2	< 10	397	< 10	11	4	1.23	0.39
GC20-0838-025	126	3.61	< 10	< 1	0.31	17	1.53	0.022	0.048	2.77	4	< 1	7	< 0.01	2	< 2	< 10	12	< 10	2	19		
1432089150	173	9.53	< 10	2	0.23	< 10	2.04	0.174	0.056	2.78	4	14	69	0.16	4	< 2	< 10	165	< 10	11	6	2.06	2.98
1323010162	232	2.33	< 10	< 1	0.25	11	0.98	0.167	0.036	0.86	< 2	1	75	0.03	4	< 2	< 10	16	< 10	2	13	0.33	0.76
F002080	12	2.14	< 10	< 1	0.26	12	0.45	0.247	0.034	0.03	< 2	2	34	0.33	5	< 2	< 10	49	< 10	17	11		
1230067092	167	2.65	< 10	< 1	0.58	19	1.37	0.018	0.058	2.10	3	1	6	0.03	< 1	< 2	< 10	17	< 10	3	12	0.10	1.95
1230067019	135	3.16	< 10	< 1	0.37	17	0.88	0.038	0.051	3.11	3	< 1	10	< 0.01	1	< 2	< 10	11	< 10	2	14	0.15	2.96
1323010147	244	2.74	< 10	< 1	0.18	15	1.25	0.138	0.040	1.07	< 2	1	62	0.02	2	< 2	< 10	14	< 10	2	11	0.21	0.92
1323010321	268	2.60	< 10	< 1	0.24	11	0.77	0.204	0.034	1.74	3	1	77	0.02	< 1	< 2	< 10	15	< 10	2	19	0.19	1.63
1323010095	176	1.99	< 10	< 1	0.26	15	0.86	0.164	0.040	1.48	< 2	< 1	70	0.01	2	< 2	< 10	10	< 10	2	14	0.30	1.36
1323010317	226	2.34	< 10	< 1	0.26	15	0.93	0.189	0.043	1.46	2	1	94	0.03	2	< 2	< 10	13	< 10	2	14	0.40	1.32
1323017197	253	2.86	< 10	< 1	0.18	13	0.74	0.055	0.039	1.99	< 2	2	22	0.04	3	< 2	< 10	21	< 10	3	18	0.17	1.87
1323010044	262	2.56	< 10	< 1	0.21	13	0.81	0.195	0.042	1.44	< 2	1	87	< 0.01	< 1	< 2	< 10	12	< 10	2	14	0.20	1.30
1433094348	116	9.47	< 10	3	0.19	< 10	2.61	0.060	0.060	3.07	5	11	38	0.09	2	< 2	< 10	150	< 10	11	7	2.12	3.26
1433094163	153	9.15	< 10	1	0.33	< 10	2.29	0.281	0.057	5.36	4	12	86	0.18	5	< 2	< 10	152	< 10	9	8	2.00	5.57
1323010204	322	3.41	< 10	< 1	0.27	13	0.93	0.125	0.040	2.56	2	1	59	0.02	2	< 2	< 10	14	< 10	2	19	0.26	2.48
GC20-0871-018	148	3.08	< 10	< 1	0.31	21	1.22	0.079	0.054	3.05	3	2	27	0.05	2	< 2	< 10	17	< 10	3	30		
1323017122	291	2.57	< 10	< 1	0.12	12	0.73	0.166	0.038	1.64	< 2	1	69	< 0.01	< 1	< 2	< 10	15	< 10	3	16	0.35	1.53
1323010007	384	2.67	< 10	< 1	0.32	11	0.74	0.337	0.034	1.74	< 2	< 1	167	0.01	1	< 2	< 10	12	< 10	2	14	0.18	1.65
1323010048	473	2.33	< 10	< 1	0.40	13	1.20	0.069	0.037	0.57	2	2	35	0.03	2	< 2	< 10	20	< 10	2	12	0.38	0.51
GC20-0328-009FD	201	5.14	< 10	4	0.22	< 10	1.34	0.190	0.028	3.40	4	8	38	0.11	1	< 2	< 10	61	< 10	4	12		
1323017148	407	3.18	< 10	< 1	0.28	12	0.85	0.111	0.039	2.60	< 2	2	45	0.02	2	< 2	< 10	18	< 10	3	21	0.28	2.46
1230068237	382	2.47	< 10	< 1	0.41	15	0.08	0.022	0.043	2.44	4	< 1	138	0.02	1	< 2	< 10	6	< 10	2	21	0.55	2.18
1323017107	478	2.95	< 10	< 1	0.13	13	0.79	0.163	0.039	2.29	< 2	1	75	< 0.01	3	< 2	< 10	15	< 10	3	19	0.32	2.18
GC20-0328-004	242	2.74	< 10	2	0.37	13	0.30	0.023	0.039	2.71	3	< 1	14	< 0.01	3	< 2	< 10	8	< 10	1	13		
GC20-0331-018	171	2.95	< 10	2	0.29	13	0.08	0.023	0.040	3.55	3	< 1	12	< 0.01	< 1	< 2	< 10	4	< 10	1	11		
F002079	14	2.06	< 10	< 1	0.26	12	0.52	0.216	0.047	0.05	< 2	3	32	0.26	4	< 2	< 10	61	< 10	17	10		
1323003137	133	2.41	< 10	< 1	0.15	15	0.18	0.051	0.040	2.72	< 2	< 1	54	< 0.01	1	< 2	< 10	4	< 10	1	14	0.31	2.46

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas				0.4	< 0.5	64	1020	1	23	91	122	6.75	209	< 10	837	0.8	< 2	0.16	13	74	5.22	20	< 1
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
GXR-6 Meas				0.2	< 0.5	64	1000	< 1	23	91	118	6.74	196	< 10	849	0.8	< 2	0.16	13	74	5.27	20	< 1
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
GXR-6 Meas				0.3	< 0.5	64	1040	< 1	23	92	120	6.76	218	< 10	869	0.8	< 2	0.16	13	75	5.31	20	< 1
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
GXR-6 Meas				0.4	< 0.5	72	1090	1	26	98	125	7.26	225	< 10	772	0.9	3	0.13	13	79	6.03	20	2
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
GXR-6 Meas				0.4	< 0.5	71	1080	1	25	96	125	7.07	228	< 10	785	0.9	3	0.13	14	79	5.94	20	3
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
BaSO4 Meas																							
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Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Cert																							
NBM-1 (slight fzz) Meas	43.7	8.62																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.57																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.08																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7	8.18																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.6	8.60																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.6	8.28																					
NBM-1 (slight fzz) Cert	46.6	8.53																					
NBM-1 (slight fzz) Meas	43.7																						
NBM-1 (slight fzz)	46.6																						

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas	43.8																						
NBM-1 (slight fzz) Cert	46.6																						
NBM-1 (slight fzz) Meas	43.7																						
NBM-1 (slight fzz) Cert	46.6																						
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19	43	5.06	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19	44	5.12	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20	43	5.13	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19	45	5.31	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19	44	5.16	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22	40	5.79	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22	40	5.83	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22	40	5.86	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923				2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21	40	6.05	< 10	

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21	41	5.96	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
Oreas 621 (Aqua Regia) Meas				66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29	28	3.42	< 10	3
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29	33	3.42	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29	33	3.42	< 10	3
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30	31	3.44	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29	35	3.40	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
OREAS 238 (Fire Assay) Meas			2930																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			2960																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			3070																				
OREAS 238 (Fire Assay) Cert			3030																				
OREAS 238 (Fire Assay) Meas			2960																				
OREAS 238 (Fire Assay) Cert			3030																				
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas			510																				
Oreas E1336 (Fire Assay) Cert			510																				
Oreas E1336 (Fire Assay) Meas			525																				
Oreas E1336 (Fire Assay) Cert			510																				
Oreas E1336 (Fire Assay) Meas			496																				
Oreas E1336 (Fire Assay) Cert			510																				
1323017087 Orig			299																				
1323017087 Dup			283																				
1323021099 Orig				< 0.2	< 0.5	118	479	< 1	51	< 2	43	4.95	< 2	< 10	< 10	< 0.5	2	3.63	25	243	4.61	< 10	3
1323021099 Dup				< 0.2	< 0.5	115	476	< 1	52	< 2	43	4.99	< 2	< 10	< 10	< 0.5	3	3.62	25	241	4.54	< 10	2
1323021100 Orig																							
1323021100 Dup																							
GC20-0306-016 Orig			146																				
GC20-0306-016 Dup			164																				
1323018052 Orig			29																				
1323018052 Dup			31																				
1323022138 Orig																							
1323022138 Dup																							
GC20-0348-				2.5	< 0.5	30	1590	1	14	62	148	1.32	53	< 10	30	< 0.5	4	1.95	7	162	1.79	< 10	< 1

Analyte Symbol	NP	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	kg CaCO3/t	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit		0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	TITR	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
009FD Orig																							
GC20-0348-009FD Dup				2.5	< 0.5	29	1630	< 1	14	63	151	1.37	54	< 10	31	< 0.5	3	1.98	8	163	1.81	< 10	< 1
1323021146 Orig																							
1323021146 Dup																							
1323017072 Orig				1.3	1.1	258	374	4	19	6	244	1.07	12	< 10	37	< 0.5	3	1.37	10	384	2.88	< 10	< 1
1323017072 Dup				1.1	0.8	250	368	4	19	5	242	1.07	11	< 10	44	< 0.5	3	1.35	10	384	2.85	< 10	< 1
1323021181 Orig			171																				
1432089471 Orig			26	0.5	0.5	159	1100	< 1	46	10	163	3.78	15	< 10	19	< 0.5	3	5.30	33	101	9.54	10	1
1432089471 Dup			26	0.5	0.6	158	1050	< 1	45	11	163	3.72	13	< 10	19	< 0.5	4	5.24	31	98	9.31	10	2
1432089202 Orig																							
1432089202 Dup																							
1230067131 Orig			70																				
1230067131 Dup			72																				
1323010147 Orig																							
1323010147 Dup																							
1323017197 Orig				0.8	< 0.5	196	491	3	16	33	176	1.14	7	< 10	32	< 0.5	2	0.80	11	257	2.91	< 10	< 1
1323017197 Dup				0.9	< 0.5	196	479	3	15	35	175	1.11	9	< 10	32	< 0.5	< 2	0.79	10	250	2.82	< 10	< 1
1433094348 Orig			300																				
1433094348 Dup			329																				
1323010007 Orig																							
1323010007 Dup																							
1323017107 Orig			133																				
1323017107 Dup			172																				
GC20-0331-018 Orig				2.5	28.0	94	138	< 1	16	117	6830	0.61	598	< 10	26	< 0.5	< 2	0.51	13	169	2.93	< 10	2
GC20-0331-018 Dup				2.6	28.2	92	140	< 1	16	123	6840	0.65	598	< 10	27	< 0.5	< 2	0.52	12	174	2.97	< 10	2
1323003137 Orig			120																				
1323003137 Dup			121																				
Method Blank			< 5																				
Method Blank			< 5																				
Method Blank			< 5																				
Method Blank			< 5																				
Method Blank			< 5																				
Method Blank			< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	1.12	11	0.38	0.079	0.032	0.01	4	24	34		3	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	1.12	11	0.38	0.079	0.032	0.01	4	24	34		< 1	< 2	< 10	157	< 10	7	7		
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	1.11	11	0.38	0.079	0.032	0.01	5	24	33		< 1	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	1.13	< 10	0.40	0.143	0.034	0.01	5	19	29		< 1	< 2	< 10	171	< 10	5	6		
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	1.15	< 10	0.40	0.141	0.034	0.01	4	19	29		< 1	2	< 10	172	< 10	5	8		
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																			14.1
BaSO4 Cert																			14.0
BaSO4 Meas																			14.0
BaSO4 Cert																			14.0
BaSO4 Meas																			14.1
BaSO4 Cert																			14.0
BaSO4 Meas																			14.1
BaSO4 Cert																			14.0
BaSO4 Meas																			13.8
BaSO4 Cert																			14.0
BaSO4 Meas																			14.1
BaSO4 Cert																			14.0
BaSO4 Meas																			13.8
BaSO4 Cert																			14.0
BaSO4 Meas																			14.0
BaSO4 Cert																			14.0
BaSO4 Meas																			13.9
BaSO4 Cert																			14.0
BaSO4 Meas																			13.9
BaSO4 Cert																			14.0
BaSO4 Meas																			13.8
BaSO4 Cert																			14.0
BaSO4 Meas																			14.0
BaSO4 Cert																			14.0
BaSO4 Meas																			13.9
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BaSO4 Meas																			13.9
BaSO4 Cert																			14.0
BaSO4 Meas																			14.0
BaSO4 Cert																			14.0
BaSO4 Meas																			14.0
BaSO4 Cert																			14.0
GS311-4 Meas																		1.07	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.55
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.06	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.55

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.05	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.56
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.06	0.55
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.52
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.06	0.54
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.53
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.07	0.52
GS311-4 Cert																		1.11	0.54
GS311-4 Meas																		1.08	0.53
GS311-4 Cert																		1.11	0.54
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
NBM-1 (slight fzz) Meas																			
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NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																			
NBM-1 (slight fzz) Cert																			
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
OREAS 238 (Fire Assay) Meas																			
OREAS 238 (Fire Assay) Cert																			
GS316-3 Meas																		0.07	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.35
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.07	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.05	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.34
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
GS316-3 Meas																		0.06	0.33
GS316-3 Cert																		0.0600	0.340
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
1323017087 Orig																			
1323017087 Dup																			
1323021099 Orig	0.03	< 10	1.78	0.514	0.019	0.13	< 2	6	61	0.21	2	< 2	< 10	128	< 10	4	3		
1323021099 Dup	0.03	< 10	1.74	0.522	0.019	0.14	< 2	6	59	0.21	5	< 2	< 10	126	< 10	4	3		
1323021100 Orig																		0.25	0.22
1323021100 Dup																		0.26	0.22
GC20-0306-016 Orig																			
GC20-0306-016 Dup																			
1323018052 Orig																			
1323018052 Dup																			
1323022138 Orig																		0.25	1.36
1323022138 Dup																		0.25	1.37
GC20-0348-009FD Orig	0.41	14	0.69	0.031	0.040	1.61	3	< 1	22	< 0.01	1	< 2	< 10	6	< 10	2	14		
GC20-0348-009FD Dup	0.42	14	0.71	0.031	0.040	1.63	3	< 1	22	< 0.01	< 1	< 2	< 10	6	< 10	2	13		
1323021146 Orig																		0.29	0.10
1323021146 Dup																		0.28	0.09
1323017072 Orig	0.22	12	0.73	0.065	0.041	2.11	< 2	1	28	< 0.01	2	< 2	< 10	15	< 10	3	19		
1323017072 Dup	0.22	13	0.72	0.064	0.039	2.06	< 2	1	28	< 0.01	2	< 2	< 10	15	< 10	3	19		
1323021181 Orig																			
1432089471 Orig	0.10	< 10	2.43	0.069	0.057	0.87	3	24	57	0.17	3	< 2	< 10	354	< 10	11	5		
1432089471 Dup	0.10	< 10	2.40	0.067	0.056	0.85	3	24	57	0.12	2	< 2	< 10	344	< 10	10	4		
1432089202 Orig																		1.02	1.46
1432089202 Dup																		1.02	1.43

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230067131 Orig																			
1230067131 Dup																			
1323010147 Orig																		0.21	0.94
1323010147 Dup																		0.21	0.91
1323017197 Orig	0.19	13	0.75	0.055	0.039	2.05	< 2	2	22	0.04	2	< 2	< 10	21	< 10	3	18		
1323017197 Dup	0.18	13	0.74	0.055	0.039	1.94	< 2	2	22	0.04	3	< 2	< 10	21	< 10	3	18		
1433094348 Orig																			
1433094348 Dup																			
1323010007 Orig																		0.18	1.66
1323010007 Dup																		0.18	1.63
1323017107 Orig																			
1323017107 Dup																			
GC20-0331-018 Orig	0.29	13	0.08	0.023	0.040	3.51	4	< 1	12	< 0.01	< 1	< 2	< 10	4	< 10	1	11		
GC20-0331-018 Dup	0.30	13	0.08	0.024	0.041	3.59	3	< 1	12	< 0.01	3	< 2	< 10	4	< 10	1	12		
1323003137 Orig																			
1323003137 Dup																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-12876**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-19 21:36:37
4F-C, S	Infrared	2020-11-18 21:36:25

REPORT **A20-12876**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001806 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-12876**
Report Date: **18-Dec-20**
Date Submitted: **16-Oct-20**
Your Reference: **2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-30 10:10:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-03 12:44:26

REPORT **A20-12876**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001806 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323011159	37.1	8.61	-28.5	47.8	0.180	8.78	100	0.7	< 0.5	270	230	7	12	3	32	1.88	10	< 10	28	< 0.5	2	0.78	8
1230063105	1.77	14.0	12.2	5.51	2.53	9.17	12	0.2	< 0.5	95	461	< 1	31	< 2	47	4.07	< 2	< 10	47	< 0.5	< 2	2.70	16
1230063001	19.7	34.4	14.7	25.7	1.34	9.02	58	0.9	< 0.5	16	885	< 1	28	3	193	2.15	15	< 10	73	< 0.5	< 2	1.98	11
1230063088	20.2	32.8	12.6	25.4	1.29	9.42	100	4.1	1.1	33	858	1	25	3	287	2.69	15	< 10	76	< 0.5	< 2	2.24	12
1230063395	31.4	28.4	-3.01	36.4	0.780	9.03	126	0.8	0.8	27	801	< 1	44	43	183	3.00	29	< 10	63	< 0.5	< 2	2.35	17
1230063027	10.1	27.9	17.8	13.5	2.07	9.38	17	0.3	< 0.5	29	610	< 1	27	< 2	87	1.90	5	< 10	71	< 0.5	< 2	1.72	12
1230063043	23.0	27.0	3.99	28.8	0.938	9.18	44	0.9	0.6	29	992	< 1	34	5	223	3.22	15	< 10	82	< 0.5	< 2	2.45	17
F001806							1070	3.2	< 0.5	32	280	< 1	10	20	46	1.39	< 2	< 10	43	< 0.5	< 2	0.91	10
GC20-0988-013							20	0.6	< 0.5	35	922	1	143	< 2	111	2.96	19	< 10	50	< 0.5	< 2	2.82	56
GC20-1002-004							624	0.9	< 0.5	11	320	2	15	4	40	1.38	23	< 10	23	< 0.5	8	0.57	8
GC20-1013-004							101	0.5	< 0.5	39	365	3	13	4	51	1.74	23	< 10	28	< 0.5	10	0.51	10
GC20-1012-008							104	0.5	< 0.5	94	484	2	13	4	83	2.47	9	< 10	41	< 0.5	4	1.06	8
GC20-0962-018							426	10.8	0.9	25	1040	< 1	23	89	265	1.64	49	< 10	35	< 0.5	< 2	2.14	13
GC20-1001-001							162	0.4	< 0.5	23	376	2	12	4	89	1.43	12	< 10	27	< 0.5	4	0.45	8
GC20-0949-006							190	0.5	< 0.5	27	528	2	14	4	85	2.34	8	< 10	69	< 0.5	4	1.58	10
GC20-1016-010							408	0.8	2.6	97	679	4	11	12	719	2.61	19	< 10	41	< 0.5	3	1.67	9
GC20-1017-001							538	1.1	0.8	149	527	< 1	11	11	303	1.83	15	< 10	33	< 0.5	4	1.41	9
GC20-0950-005							59	0.5	< 0.5	7	283	< 1	11	4	64	1.50	19	< 10	25	< 0.5	4	0.30	8
GC20-1015-002							532	0.8	< 0.5	214	619	1	15	3	74	3.39	13	< 10	47	< 0.5	5	2.11	6
GC20-0948-004							480	0.6	< 0.5	63	478	< 1	16	4	73	2.16	12	< 10	31	< 0.5	5	1.00	8
GC20-1019-002							85	0.8	< 0.5	58	611	< 1	14	19	160	2.36	11	< 10	36	< 0.5	7	1.29	10
1323016065	67.5	23.7	-43.8	73.8	0.321	8.61	1180	1.3	< 0.5	328	375	3	13	3	40	1.63	12	< 10	23	< 0.5	13	1.18	10
1323008270	64.3	5.74	-58.5	68.6	0.0837	8.56	257	0.9	< 0.5	206	272	< 1	14	4	96	1.33	13	< 10	29	< 0.5	10	0.34	6
1323008100	11.0	41.3	30.2	14.7	2.81	9.39	44	0.2	< 0.5	31	517	< 1	9	7	74	1.16	< 2	< 10	172	< 0.5	2	2.00	5
GC20-1004-005							74	0.4	< 0.5	13	431	1	16	3	72	2.06	6	< 10	33	< 0.5	4	1.01	9
GC20-0985-005							7	0.2	< 0.5	102	718	< 1	59	< 2	60	5.22	4	< 10	31	< 0.5	3	3.55	25
1323008224	61.1	5.38	-55.8	66.5	0.0809	8.47	91	0.6	0.7	189	297	< 1	15	< 2	216	2.41	7	< 10	38	< 0.5	7	0.48	12
GC20-1010-001							71	0.4	< 0.5	16	357	< 1	19	5	72	1.60	14	< 10	22	< 0.5	5	0.48	9
GC20-0991-007							311	0.9	< 0.5	57	761	< 1	111	6	106	2.62	17	< 10	73	< 0.5	< 2	2.29	24
GC20-1009-001							134	0.8	< 0.5	152	374	3	11	5	52	1.56	14	< 10	30	< 0.5	7	0.92	9
1323009292	49.4	7.00	-42.4	57.9	0.121	8.72	134	1.4	14.4	186	1020	< 1	17	8	3670	2.49	21	< 10	38	< 0.5	3	0.62	10
GC20-1008-001							921	1.4	< 0.5	328	569	< 1	36	8	99	2.41	46	< 10	31	< 0.5	12	0.35	15
F001805							1050	3.1	< 0.5	30	270	< 1	8	17	45	1.31	< 2	< 10	43	< 0.5	< 2	0.87	10
GC20-0261-009FD							160	1.6	2.1	66	778	< 1	15	24	536	2.19	68	< 10	30	< 0.5	< 2	1.26	10
1323016069	74.9	11.2	-63.6	80.5	0.140	8.68	542	1.0	< 0.5	277	368	2	14	3	52	2.29	8	< 10	33	< 0.5	5	0.97	10
1323008186	41.7	23.5	-18.1	45.9	0.512	8.74	294	0.8	1.3	64	563	< 1	11	3	380	1.95	17	< 10	42	< 0.5	5	1.54	10
1432097206	5.72	59.7	54.0	10.1	5.91	9.28	8	0.2	< 0.5	53	966	< 1	77	< 2	106	3.60	4	< 10	48	< 0.5	4	3.26	34
1323008199	41.9	11.0	-30.9	46.2	0.237	8.48	99	0.3	< 0.5	18	350	< 1	16	< 2	78	2.12	11	< 10	44	< 0.5	4	0.97	10
1323008127	77.0	13.5	-63.5	83.9	0.160	8.78	166	1.0	1.6	231	507	1	11	3	419	2.01	22	< 10	33	< 0.5	4	1.06	10
GC20-0288-009FD							180	4.0	3.9	40	833	< 1	10	397	1050	0.84	91	< 10	35	< 0.5	< 2	1.97	6
GC20-0293-001							193	1.7	1.4	32	1040	< 1	13	33	409	0.79	126	< 10	26	< 0.5	< 2	2.66	8
GC20-0291-001							864	9.9	7.3	136	278	1	16	92	1890	0.65	224	< 10	22	< 0.5	< 2	0.75	11
GC20-0295-010							245	0.3	0.7	13	487	< 1	9	48	254	1.16	52	< 10	36	< 0.5	2	2.01	7
GC20-0294-010							201	2.4	0.9	97	574	3	12	22	325	1.51	117	< 10	24	< 0.5	6	0.67	9
1323008213	8.64	11.6	2.97	11.6	0.997	8.94	24	0.3	< 0.5	154	496	< 1	49	< 2	98	4.29	< 2	< 10	15	< 0.5	3	3.04	23
1323016094	78.8	53.7	-25.2	90.7	0.592	8.72	168	1.6	< 0.5	25	796	< 1	22	34	109	1.53	37	< 10	34	< 0.5	2	2.25	13
1323016138	50.4	35.0	-15.4	56.3	0.621	8.89	138	1.3	1.2	39	671	1	15	30	262	2.11	33	< 10	38	< 0.5	2	2.06	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323007218	54.5	9.97	-44.5	59.4	0.168	8.60	263	0.7	1.0	126	337	4	16	< 2	330	1.69	10	< 10	28	< 0.5	< 2	1.03	12
GC20-0270-007							326	0.9	5.4	35	765	1	12	13	1150	2.35	61	< 10	57	< 0.5	2	1.93	9
GC20-0272-013							576	0.9	1.2	12	634	< 1	11	9	259	1.65	176	< 10	42	< 0.5	3	1.60	8
GC20-0269-012							133	0.6	0.9	10	936	< 1	9	19	274	1.48	186	< 10	39	< 0.5	3	2.26	7
GC20-0210-019							385	0.4	< 0.5	196	269	< 1	13	< 2	25	2.89	7	< 10	37	< 0.5	3	0.95	9
GC20-0279-003							467	1.1	1.0	19	842	1	11	112	278	0.89	81	< 10	36	< 0.5	2	2.48	8
1323007018	4.38	6.99	2.61	4.29	1.63	9.17	7	< 0.2	< 0.5	116	470	< 1	50	< 2	49	5.38	< 2	< 10	18	< 0.5	4	3.74	22
GC20-0247-007							236	0.7	0.7	16	1000	< 1	8	9	207	1.38	147	< 10	31	< 0.5	2	2.71	6
1323007240	2.50	9.37	6.87	2.45	3.82	9.11	5	< 0.2	< 0.5	120	429	< 1	50	< 2	39	5.85	< 2	< 10	< 10	< 0.5	2	4.10	22
F001804							2040	4.6	< 0.5	24	216	17	8	22	39	1.29	< 2	< 10	40	< 0.5	< 2	0.84	5
GC20-1035-011							355	0.5	< 0.5	42	341	< 1	13	< 2	43	2.47	13	< 10	32	< 0.5	4	1.36	9
GC20-1033-003							458	1.5	< 0.5	677	433	< 1	6	10	43	1.43	20	< 10	30	< 0.5	11	1.14	6
GC20-1034-001							1790	1.5	< 0.5	801	347	< 1	13	7	52	1.78	29	< 10	20	< 0.5	13	0.50	7
1230063439	47.7	39.0	-8.69	57.0	0.685	8.97	1210	5.1	4.0	64	882	< 1	14	427	1160	0.67	123	< 10	38	< 0.5	< 2	1.54	9
GC20-1032-009							668	1.4	< 0.5	612	257	< 1	8	8	29	1.26	34	< 10	10	< 0.5	14	0.57	6
GC20-1029-009							1080	1.2	< 0.5	312	828	< 1	35	10	111	3.09	20	< 10	49	< 0.5	6	3.72	15
1323012297	45.6	12.8	-32.8	54.8	0.234	8.86	120	1.1	< 0.5	201	407	2	17	71	112	2.45	12	< 10	35	< 0.5	6	0.84	11
1323009030	45.7	20.2	-25.5	61.3	0.329	8.56	77	0.7	< 0.5	19	482	< 1	21	4	132	2.10	32	< 10	40	< 0.5	4	1.59	13
1323012315	8.94	28.3	19.4	23.6	1.20	9.09	63	0.2	< 0.5	51	520	1	15	4	72	2.83	5	< 10	83	< 0.5	< 2	1.95	10
1323012312	40.4	10.4	-30.0	47.8	0.217	8.82	103	0.9	< 0.5	108	296	4	13	< 2	65	3.15	8	< 10	37	< 0.5	4	1.54	7
GC20-1030-001							130	0.6	< 0.5	48	371	< 1	11	4	73	1.98	38	< 10	37	< 0.5	7	1.23	8
1323012288	35.3	13.0	-22.3	44.4	0.293	8.71	52	0.5	< 0.5	105	277	3	21	< 2	59	2.39	5	< 10	32	< 0.5	3	1.22	9
GC20-1036-006							288	0.5	< 0.5	107	461	< 1	14	< 2	40	2.47	21	16	23	< 0.5	5	1.39	9
GC20-1036-011							1310	0.7	< 0.5	279	574	< 1	15	2	62	2.33	15	< 10	42	< 0.5	5	0.87	9
GC20-1038-009							552	1.9	< 0.5	420	296	< 1	17	5	41	3.17	31	< 10	53	< 0.5	7	1.87	20
GC20-1037-001							146	0.5	< 0.5	93	453	1	15	6	50	4.56	6	19	50	0.6	5	1.29	8
GC20-1037-018							646	0.8	< 0.5	171	409	2	13	19	98	1.92	20	< 10	38	< 0.5	8	0.58	8
1230063487	20.9	28.7	7.75	35.8	0.800	8.65	66	1.5	< 0.5	16	711	< 1	20	18	92	2.26	30	< 10	53	< 0.5	4	1.95	9
1323011019	42.7	10.3	-32.4	50.2	0.206	8.81	95	0.3	< 0.5	39	256	1	15	< 2	73	3.04	9	< 10	43	< 0.5	3	1.47	10
1230063469	16.2	44.7	28.5	23.9	1.87	8.94	62	0.8	1.4	18	688	< 1	25	21	322	1.63	33	< 10	54	< 0.5	< 2	2.06	11
1230063479	28.2	36.0	7.77	41.7	0.864	9.00	102	1.2	< 0.5	19	726	< 1	15	43	118	1.22	67	< 10	37	< 0.5	< 2	1.86	9
F001803							2090	4.5	< 0.5	23	214	16	7	22	38	1.24	< 2	< 10	39	< 0.5	< 2	0.80	5
GC20-0966-004							175	0.7	< 0.5	21	688	< 1	16	36	145	3.01	25	< 10	43	< 0.5	< 2	2.02	10
GC20-0968-009FD							349	2.9	2.0	36	1320	1	11	48	537	0.57	90	< 10	25	< 0.5	3	2.15	8
1323008009	42.9	13.7	-29.2	54.2	0.253	8.71	394	1.3	< 0.5	185	442	1	16	< 2	92	2.26	22	< 10	42	< 0.5	3	0.90	11
1323008001	61.0	13.4	-47.6	75.3	0.178	8.36	293	2.1	4.1	363	679	< 1	17	3	946	3.32	28	< 10	32	< 0.5	4	1.24	12
GC20-0978-003							288	0.5	< 0.5	19	979	< 1	10	44	121	1.27	60	< 10	33	< 0.5	< 2	2.48	8
1323008032	41.9	10.9	-31.0	55.1	0.197	8.71	81	0.4	0.6	44	491	1	14	3	254	2.47	21	< 10	38	< 0.5	6	1.05	10
GC20-0969-006							223	0.6	0.5	16	796	< 1	10	38	169	1.57	34	< 10	39	< 0.5	2	1.67	9
GC20-0977-002							248	1.4	2.0	44	720	< 1	14	171	629	1.98	34	< 10	41	< 0.5	2	1.78	22
GC20-0980-007							188	0.3	< 0.5	46	557	< 1	12	25	125	1.46	19	< 10	37	< 0.5	< 2	1.09	7
1323008057	35.6	17.2	-18.4	44.7	0.385	8.96	202	0.4	< 0.5	114	294	1	12	2	89	1.95	6	< 10	39	< 0.5	3	1.02	9
1432097047	74.8	14.7	-60.1	86.1	0.171	8.53	43	0.7	< 0.5	236	775	< 1	189	2	183	2.82	17	< 10	14	< 0.5	< 2	1.22	62
GC20-0946-008							54	0.3	< 0.5	12	438	< 1	15	6	78	1.73	8	< 10	24	< 0.5	4	0.51	10
1323008021	68.0	8.87	-59.1	74.4	0.119	8.60	53	0.6	< 0.5	122	202	< 1	13	2	123	2.00	14	< 10	35	< 0.5	5	1.02	9
GC20-0944-014							123	0.3	< 0.5	70	400	1	17	3	64	1.86	5	< 10	35	< 0.5	3	0.65	9
GC20-0945-009							202	0.6	< 0.5	8	569	< 1	14	4	85	2.00	9	< 10	20	< 0.5	4	0.59	11
1323008116	29.9	16.4	-13.4	33.4	0.493	8.93	36	0.9	< 0.5	188	391	< 1	26	< 2	80	2.72	2	< 10	49	< 0.5	3	1.85	14

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323016113	71.8	13.0	-58.8	75.9	0.171	8.44	48	0.5	< 0.5	34	373	1	15	< 2	93	1.73	8	< 10	28	< 0.5	4	1.06	10
1323008075	19.5	43.3	23.8	23.3	1.86	9.07	95	0.5	< 0.5	116	449	1	10	6	115	0.77	4	< 10	88	< 0.5	3	2.00	5
1323008207	63.6	3.74	-59.9	68.3	0.0547	8.33	84	0.8	0.7	210	469	< 1	15	< 2	255	1.97	10	< 10	27	< 0.5	4	0.38	11
GC20-0940-022							797	1.6	6.4	28	497	< 1	12	38	1700	0.65	45	< 10	36	< 0.5	< 2	1.50	11
GC20-0964-005							408	2.1	3.5	34	1440	< 1	10	126	1050	0.61	62	< 10	27	< 0.5	< 2	2.40	7
F001802							3400	2.6	< 0.5	37	239	15	13	15	39	1.18	4	< 10	47	< 0.5	< 2	0.78	9
1230067128	19.3	22.5	3.28	24.2	0.932	9.25	26	0.3	< 0.5	27	596	2	16	28	72	2.03	5	< 10	71	< 0.5	< 2	1.37	9
1432089310	24.8	163	138	38.0	4.29	8.50	198	1.4	3.0	139	1820	< 1	82	14	784	4.10	27	< 10	24	< 0.5	< 2	4.84	38
1230067125	18.4	13.3	-5.08	27.0	0.495	9.12	16	0.3	< 0.5	23	614	< 1	11	17	54	1.83	6	< 10	53	< 0.5	< 2	0.81	10
1230067069	22.1	21.3	-0.751	28.8	0.741	9.15	54	0.6	< 0.5	23	574	< 1	16	12	156	1.76	18	< 10	46	< 0.5	3	1.32	11
1323010160	19.5	10.1	-9.37	25.1	0.402	8.87	287	0.6	< 0.5	126	597	1	15	7	87	2.22	10	< 10	39	< 0.5	3	0.79	7
1323010213	59.6	7.61	-52.0	66.8	0.114	8.49	274	0.9	< 0.5	84	363	1	20	11	61	1.93	25	< 10	34	< 0.5	5	1.11	9
GC20-0330-003							529	1.2	8.1	59	1420	< 1	13	119	2240	0.90	64	< 10	32	< 0.5	< 2	0.35	11
1433094085	106	98.5	-7.33	123	0.804	8.30	123	0.6	< 0.5	53	1300	< 1	51	4	141	2.37	25	< 10	23	< 0.5	< 2	3.49	29
1433094338	60.2	94.0	33.8	90.7	1.04	8.46	537	1.8	< 0.5	129	1430	< 1	40	3	180	2.94	54	< 10	24	< 0.5	< 2	3.16	34
1432089229	28.6	153	124	40.7	3.75	8.72	76	0.8	< 0.5	66	1450	< 1	106	< 2	170	5.23	29	< 10	66	< 0.5	3	5.57	35
1432089018	13.2	95.7	82.4	19.9	4.81	8.93	11	0.3	< 0.5	166	746	< 1	58	< 2	117	3.13	3	< 10	66	< 0.5	2	3.66	29
1432089440	26.6	129	102	42.9	3.00	8.66	92	1.2	< 0.5	98	2420	< 1	70	2	252	3.47	58	< 10	41	< 0.5	3	4.04	40
1230067032	39.8	20.9	-18.9	45.0	0.463	8.63	137	4.2	0.8	120	966	4	22	32	173	2.02	37	< 10	42	< 0.5	< 2	1.40	11
GC20-0336-014							638	2.7	60.1	86	125	< 1	16	213	> 10000	0.64	277	< 10	13	< 0.5	< 2	0.16	13
1323017153	46.7	20.0	-26.6	51.8	0.387	8.89	123	1.0	1.3	108	413	3	15	10	343	1.12	8	< 10	38	< 0.5	< 2	0.93	8
GC20-0872-016							610	23.6	1.2	29	2910	< 1	27	54	387	2.15	68	< 10	29	< 0.5	< 2	1.32	12
GC20-0327-018							84	1.3	2.7	21	966	1	14	295	704	0.96	113	< 10	38	< 0.5	< 2	2.38	8
GC20-0870-019							85	1.0	< 0.5	41	849	< 1	458	< 2	105	3.10	49	< 10	49	< 0.5	< 2	1.23	71
GC20-0847-021							38	0.9	< 0.5	18	1210	1	13	13	86	3.51	16	< 10	51	< 0.5	2	2.25	9
GC20-0868-020							204	8.3	< 0.5	24	1190	< 1	26	29	107	2.57	39	< 10	37	< 0.5	3	1.97	12
1432089313	15.3	114	98.4	24.2	4.70	8.84	248	2.1	< 0.5	78	1480	< 1	120	5	293	5.56	28	< 10	56	< 0.5	3	4.51	31
1230067002	14.4	26.9	12.6	17.1	1.57	9.22	76	0.4	< 0.5	51	439	1	19	5	111	1.30	6	< 10	82	< 0.5	< 2	1.49	9
F002084							2020	7.4	< 0.5	23	204	17	8	21	38	1.08	< 2	< 10	38	< 0.5	< 2	0.70	5
1323022019	4.69	7.11	2.42	4.59	1.55	8.99	12	0.2	< 0.5	108	512	< 1	55	< 2	64	4.49	< 2	< 10	11	< 0.5	< 2	2.80	25
1323022004	19.1	6.63	-12.4	18.7	0.355	8.80	68	0.4	< 0.5	30	571	< 1	14	5	212	3.62	4	< 10	53	< 0.5	3	1.61	10
GC20-0351-001							60	3.6	< 0.5	31	1480	< 1	38	18	64	1.17	57	< 10	24	< 0.5	< 2	1.33	14
1323022159	58.8	8.36	-50.5	63.4	0.132	8.53	102	0.3	< 0.5	70	364	< 1	14	4	51	2.19	13	13	29	< 0.5	4	0.89	9
1230068144	33.4	24.6	-8.80	40.1	0.614	8.94	85	1.4	< 0.5	23	665	< 1	21	17	132	2.08	42	< 10	48	< 0.5	3	1.73	10
1323022107	52.0	13.8	-38.1	57.9	0.239	8.49	157	0.5	< 0.5	88	423	< 1	16	4	52	2.92	14	< 10	49	< 0.5	8	1.61	8
1323022106	55.4	7.87	-47.5	60.9	0.129	8.42	441	0.8	< 0.5	263	384	< 1	18	3	59	2.96	9	< 10	37	< 0.5	7	1.15	8
1323022108	64.9	9.62	-55.3	69.8	0.138	8.42	121	1.0	< 0.5	32	282	< 1	12	5	46	2.05	22	13	34	< 0.5	8	0.99	9
1433094506	34.7	99.3	64.6	47.8	2.08	8.55	159	1.1	< 0.5	82	1570	< 1	19	3	166	3.50	16	< 10	24	< 0.5	3	3.62	27
GC20-0353-002							20	0.5	< 0.5	21	623	< 1	117	< 2	181	3.59	15	< 10	33	< 0.5	2	1.53	32
GC20-0355-012							980	2.5	16.1	63	1390	< 1	11	103	3900	0.62	150	< 10	18	< 0.5	< 2	2.03	7
1323019067	50.5	13.7	-36.8	56.0	0.244	8.56	86	0.7	0.9	69	351	< 1	15	3	277	1.90	20	< 10	38	< 0.5	10	1.11	10
GC20-0360-011							135	1.0	1.7	38	405	< 1	47	23	491	1.09	13	< 10	69	< 0.5	2	0.95	17
1433094437	59.0	112	52.5	73.8	1.51	8.62	216	1.6	< 0.5	178	1720	< 1	53	< 2	180	4.11	15	< 10	24	< 0.5	2	3.95	32
1323021127	46.6	13.6	-33.0	58.8	0.231	8.54	168	0.4	< 0.5	93	479	< 1	30	5	54	3.28	10	< 10	40	< 0.5	4	1.71	13
GC20-0362-002							14	0.4	< 0.5	14	515	< 1	48	9	140	1.58	13	< 10	51	< 0.5	3	1.45	13
GC20-0361-002							< 5	< 0.2	< 0.5	9	162	< 1	13	4	34	1.35	7	< 10	60	0.5	< 2	0.20	7

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323011159	191	2.39	< 10	< 1	0.11	13	0.93	0.128	0.036	1.67	< 2	2	77	< 0.01	2	< 2	< 10	14	< 10	3	16	0.17	1.56
1230063105	133	3.23	< 10	1	0.23	< 10	1.22	0.450	0.033	0.28	< 2	3	67	0.14	< 1	< 2	< 10	72	< 10	3	9	0.13	0.18
1230063001	223	2.81	< 10	< 1	0.53	32	1.12	0.151	0.070	0.93	< 2	3	69	0.11	3	< 2	< 10	33	< 10	4	17	0.45	0.84
1230063088	179	2.86	< 10	< 1	0.66	39	1.09	0.251	0.081	0.94	< 2	2	112	0.12	4	< 2	< 10	33	< 10	4	13	0.35	0.83
1230063395	239	2.69	< 10	< 1	0.55	20	1.27	0.278	0.055	1.24	< 2	2	135	0.07	2	< 2	< 10	27	< 10	3	7	0.41	1.19
1230063027	291	2.59	< 10	< 1	0.40	23	1.06	0.113	0.055	0.46	2	3	65	0.12	4	< 2	< 10	35	< 10	4	11	0.34	0.44
1230063043	253	4.19	< 10	1	0.65	43	1.22	0.278	0.097	1.06	< 2	6	119	0.18	3	< 2	< 10	75	< 10	7	22	0.35	0.94
F001806	14	2.34	< 10	< 1	0.21	14	0.43	0.256	0.036	0.03	< 2	2	38	0.34	5	< 2	< 10	54	< 10	16	17		
GC20-0988-013	457	4.75	< 10	3	0.40	24	2.66	0.083	0.093	1.68	< 2	7	129	0.17	4	< 2	< 10	74	< 10	4	14		
GC20-1002-004	186	4.62	< 10	< 1	0.20	15	1.04	0.024	0.038	4.54	< 2	< 1	14	0.02	2	< 2	< 10	6	< 10	2	22		
GC20-1013-004	158	4.14	< 10	< 1	0.22	14	1.07	0.049	0.038	3.56	< 2	< 1	35	< 0.01	3	< 2	< 10	8	< 10	3	19		
GC20-1012-008	190	2.80	< 10	< 1	0.22	14	0.92	0.191	0.042	1.52	< 2	1	94	< 0.01	< 1	< 2	< 10	12	< 10	2	14		
GC20-0962-018	195	2.37	< 10	< 1	0.44	16	0.84	0.106	0.045	2.21	3	1	37	0.02	< 1	< 2	< 10	14	< 10	4	20		
GC20-1001-001	152	4.57	< 10	2	0.18	12	1.16	0.036	0.042	4.27	2	< 1	18	< 0.01	6	< 2	< 10	8	< 10	2	23		
GC20-0949-006	211	2.46	< 10	< 1	0.26	13	1.10	0.132	0.042	1.11	< 2	2	75	0.05	1	< 2	< 10	19	< 10	2	14		
GC20-1016-010	134	2.45	< 10	< 1	0.23	14	1.10	0.115	0.042	1.80	< 2	< 1	104	0.05	< 1	< 2	< 10	10	< 10	3	17		
GC20-1017-001	151	2.29	< 10	< 1	0.20	14	0.91	0.088	0.042	1.79	< 2	< 1	73	0.02	2	< 2	< 10	6	< 10	3	18		
GC20-0950-005	150	3.70	< 10	< 1	0.27	13	1.07	0.047	0.036	3.66	2	< 1	19	< 0.01	1	< 2	< 10	7	< 10	2	25		
GC20-1015-002	261	3.00	< 10	< 1	0.22	13	0.97	0.184	0.042	1.68	< 2	1	98	< 0.01	2	3	< 10	14	< 10	2	12		
GC20-0948-004	260	3.22	< 10	< 1	0.16	14	1.22	0.142	0.040	2.04	< 2	< 1	66	< 0.01	2	< 2	< 10	9	< 10	3	20		
GC20-1019-002	181	2.74	< 10	< 1	0.20	19	1.18	0.106	0.051	2.41	< 2	< 1	86	< 0.01	3	< 2	< 10	8	< 10	3	17		
1323016065	209	3.35	< 10	< 1	0.12	12	0.92	0.072	0.040	2.45	< 2	< 1	45	< 0.01	2	< 2	< 10	10	< 10	2	18	0.34	2.41
1323008270	225	3.25	< 10	< 1	0.20	13	0.87	0.032	0.036	2.41	< 2	< 1	16	< 0.01	1	< 2	< 10	6	< 10	2	18	0.13	2.24
1323008100	175	1.61	< 10	< 1	0.37	50	0.47	0.107	0.070	0.54	< 2	< 1	184	0.01	< 1	< 2	< 10	9	< 10	5	3	0.57	0.48
GC20-1004-005	216	3.43	< 10	< 1	0.26	10	1.42	0.050	0.042	3.24	< 2	< 1	38	< 0.01	2	< 2	< 10	9	< 10	2	20		
GC20-0985-005	129	5.08	< 10	< 1	0.13	< 10	2.25	0.531	0.022	0.12	2	9	81	0.21	1	< 2	< 10	120	< 10	4	5		
1323008224	142	3.43	< 10	< 1	0.27	14	1.77	0.072	0.042	2.40	< 2	1	31	0.01	2	< 2	< 10	16	< 10	4	21	0.14	2.17
GC20-1010-001	169	4.92	< 10	2	0.20	13	1.12	0.042	0.039	4.93	2	< 1	37	< 0.01	2	< 2	< 10	8	< 10	2	27		
GC20-0991-007	410	3.20	< 10	< 1	0.44	20	1.77	0.167	0.077	0.99	3	4	117	0.12	< 1	< 2	< 10	45	< 10	3	10		
GC20-1009-001	137	3.33	< 10	< 1	0.20	12	1.00	0.039	0.039	2.35	2	< 1	28	0.01	3	< 2	< 10	8	< 10	3	17		
1323009292	231	3.68	< 10	< 1	0.22	14	1.76	0.074	0.038	2.03	3	1	38	< 0.01	1	< 2	< 10	14	< 10	4	14	0.21	1.89
GC20-1008-001	211	6.12	< 10	1	0.24	29	1.81	0.031	0.061	4.97	4	2	24	< 0.01	5	< 2	< 10	18	< 10	4	31		
F001805	14	2.26	< 10	< 1	0.20	13	0.41	0.239	0.036	0.03	< 2	2	37	0.34	5	< 2	< 10	53	< 10	16	18		
GC20-0261-009FD	100	3.39	< 10	< 1	0.41	16	1.33	0.101	0.043	2.78	< 2	1	33	0.02	3	< 2	< 10	14	< 10	2	19		
1323016069	186	3.25	< 10	< 1	0.15	13	0.99	0.178	0.039	2.82	< 2	1	80	< 0.01	2	< 2	< 10	11	< 10	3	20	0.17	2.63
1323008186	120	2.46	< 10	< 1	0.22	14	1.28	0.106	0.042	1.69	< 2	< 1	55	0.03	3	< 2	< 10	12	< 10	3	17	0.38	1.50
1432097206	194	6.70	< 10	1	0.29	< 10	2.24	0.192	0.041	0.32	2	9	15	0.19	< 1	< 2	< 10	150	< 10	7	2	0.63	0.33
1323008199	251	2.64	< 10	< 1	0.16	15	1.23	0.199	0.044	1.66	< 2	1	81	0.01	< 1	< 2	< 10	15	< 10	3	18	0.30	1.51
1323008127	117	3.16	< 10	< 1	0.23	14	1.27	0.124	0.039	2.81	< 2	< 1	52	0.05	3	< 2	< 10	10	< 10	3	23	0.15	2.74
GC20-0288-009FD	112	1.36	< 10	< 1	0.30	16	0.33	0.025	0.041	1.25	3	< 1	21	< 0.01	1	< 2	< 10	4	< 10	1	6		
GC20-0293-001	178	1.63	< 10	< 1	0.24	14	0.35	0.024	0.052	1.47	< 2	< 1	20	< 0.01	1	< 2	< 10	4	< 10	1	4		
GC20-0291-001	197	2.88	< 10	< 1	0.25	16	0.16	0.026	0.046	3.24	3	< 1	13	< 0.01	2	< 2	< 10	4	< 10	1	9		
GC20-0295-010	96	1.85	< 10	< 1	0.27	15	0.51	0.060	0.038	0.73	< 2	< 1	30	0.04	1	< 2	< 10	9	< 10	2	8		
GC20-0294-010	106	4.83	< 10	2	0.25	14	0.89	0.037	0.053	4.86	3	< 1	15	< 0.01	3	< 2	< 10	10	< 10	2	19		
1323008213	147	4.32	< 10	2	0.05	< 10	1.79	0.330	0.020	0.36	< 2	4	84	0.20	2	< 2	< 10	116	< 10	3	4	0.18	0.38
1323016094	184	3.16	< 10	< 1	0.22	19	1.04	0.110	0.053	3.14	< 2	1	52	< 0.01	2	< 2	< 10	11	< 10	4	24	0.71	2.96
1323016138	209	2.61	< 10	< 1	0.21	23	1.07	0.211	0.053	1.98	2	< 1	110	< 0.01	< 1	< 2	< 10	12	< 10	3	9	0.51	1.84
1323007218	206	2.62	< 10	< 1	0.39	13	0.70	0.078	0.040	2.11	< 2	2	21	0.06	3	< 2	< 10	19	< 10	3	19	0.17	1.94
GC20-0270-007	147	2.31	< 10	< 1	0.39	16	0.51	0.311	0.037	1.25	< 2	1	135	0.05	1	< 2	< 10	12	< 10	2	16		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0272-013	116	2.03	< 10	< 1	0.29	15	0.37	0.177	0.039	1.29	4	< 1	93	0.04	1	< 2	< 10	9	< 10	2	15		
GC20-0269-012	90	1.82	< 10	< 1	0.29	15	0.57	0.108	0.039	0.79	< 2	< 1	58	0.03	1	< 2	< 10	8	< 10	2	9		
GC20-0210-019	98	3.08	< 10	< 1	0.17	< 10	0.78	0.118	0.032	1.38	< 2	< 1	86	0.03	< 1	< 2	< 10	10	< 10	2	16		
GC20-0279-003	134	1.65	< 10	< 1	0.27	17	0.31	0.029	0.048	1.42	< 2	< 1	36	< 0.01	< 1	< 2	< 10	5	< 10	2	7		
1323007018	166	4.46	< 10	1	0.04	< 10	1.70	0.606	0.019	0.13	< 2	6	67	0.22	3	< 2	< 10	129	< 10	4	3	0.10	0.14
GC20-0247-007	73	1.79	< 10	< 1	0.25	15	0.56	0.095	0.039	0.94	< 2	< 1	53	< 0.01	< 1	< 2	< 10	6	< 10	2	6		
1323007240	261	4.19	< 10	1	0.02	< 10	1.55	0.675	0.016	0.08	< 2	5	63	0.18	< 1	< 2	< 10	118	< 10	3	2	0.18	0.08
F001804	13	1.60	< 10	< 1	0.21	18	0.37	0.221	0.039	0.04	< 2	2	37	0.22	4	< 2	< 10	38	< 10	16	9		
GC20-1035-011	131	2.84	< 10	< 1	0.17	11	1.06	0.066	0.033	2.02	< 2	< 1	78	< 0.01	< 1	< 2	< 10	9	< 10	2	19		
GC20-1033-003	131	3.11	< 10	< 1	0.24	< 10	0.71	0.050	0.030	2.98	< 2	< 1	44	< 0.01	3	< 2	< 10	4	< 10	2	22		
GC20-1034-001	285	4.04	< 10	< 1	0.42	< 10	0.70	0.057	0.031	3.74	3	< 1	44	< 0.01	5	< 2	< 10	8	< 10	2	21		
1230063439	205	2.09	< 10	< 1	0.32	11	0.35	0.026	0.039	2.09	5	< 1	45	< 0.01	2	< 2	< 10	7	< 10	2	12	0.62	1.86
GC20-1032-009	163	4.76	< 10	< 1	0.34	< 10	0.54	0.032	0.031	5.28	2	< 1	30	< 0.01	5	< 2	< 10	5	< 10	2	27		
GC20-1029-009	218	3.96	< 10	2	0.20	16	1.42	0.166	0.060	2.72	< 2	4	191	< 0.01	3	< 2	< 10	28	< 10	3	14		
1323012297	153	3.63	< 10	< 1	0.21	14	1.56	0.099	0.041	1.85	< 2	< 1	45	< 0.01	1	< 2	< 10	13	< 10	3	21	0.15	1.79
1323009030	192	2.57	< 10	< 1	0.29	15	0.86	0.179	0.041	2.15	< 2	1	71	0.03	1	< 2	< 10	11	< 10	2	20	0.35	2.00
1323012315	213	2.98	< 10	< 1	0.19	32	1.49	0.264	0.116	0.86	< 2	3	201	0.04	2	< 2	< 10	31	< 10	5	3	0.33	0.77
1323012312	172	2.54	< 10	< 1	0.17	12	1.21	0.310	0.037	1.66	< 2	< 1	156	< 0.01	< 1	< 2	< 10	10	< 10	2	16	0.17	1.56
GC20-1030-001	196	2.66	< 10	< 1	0.21	11	0.68	0.110	0.036	2.06	< 2	< 1	68	0.01	< 1	< 2	< 10	10	< 10	2	13		
1323012288	331	2.65	< 10	< 1	0.15	12	1.00	0.199	0.036	1.53	2	2	119	0.02	2	< 2	< 10	16	< 10	3	23	0.22	1.45
GC20-1036-006	117	3.42	< 10	< 1	0.16	< 10	1.17	0.044	0.029	2.55	< 2	< 1	47	0.03	< 1	< 2	< 10	10	< 10	1	22		
GC20-1036-011	153	3.68	< 10	< 1	0.29	< 10	1.31	0.049	0.033	2.31	< 2	< 1	49	< 0.01	< 1	2	< 10	10	< 10	2	25		
GC20-1038-009	114	1.84	< 10	< 1	0.24	13	0.47	0.328	0.039	1.40	< 2	< 1	274	< 0.01	< 1	< 2	< 10	7	< 10	2	11		
GC20-1037-001	197	3.11	10	1	0.47	< 10	1.31	0.140	0.032	1.76	2	1	126	< 0.01	2	< 2	< 10	16	< 10	2	17		
GC20-1037-018	128	3.76	< 10	< 1	0.30	13	1.01	0.050	0.037	2.64	< 2	1	35	< 0.01	3	< 2	< 10	11	< 10	3	21		
1230063487	251	2.09	< 10	< 1	0.36	16	0.69	0.166	0.041	1.31	< 2	1	81	0.03	2	< 2	< 10	14	< 10	2	11	0.41	1.17
1323011019	254	2.61	< 10	< 1	0.22	13	1.40	0.260	0.040	1.77	< 2	< 1	113	0.02	< 1	< 2	< 10	10	< 10	3	16	0.25	1.64
1230063469	231	2.30	< 10	< 1	0.33	16	0.87	0.080	0.047	0.89	< 2	2	39	0.04	1	< 2	< 10	19	< 10	3	12	0.56	0.78
1230063479	192	1.94	< 10	< 1	0.30	16	0.44	0.090	0.041	1.56	2	< 1	39	0.02	3	< 2	< 10	7	< 10	2	11	0.49	1.36
F001803	13	1.58	< 10	< 1	0.21	18	0.37	0.210	0.040	0.04	< 2	2	37	0.23	5	< 2	< 10	38	< 10	16	17		
GC20-0966-004	171	2.55	< 10	< 1	0.28	25	0.95	0.306	0.054	0.97	< 2	2	108	0.06	1	< 2	< 10	22	< 10	3	13		
GC20-0968-009FD	134	1.98	< 10	< 1	0.28	14	0.65	0.016	0.038	1.87	2	< 1	19	< 0.01	3	< 2	< 10	3	< 10	2	10		
1323008009	198	2.97	< 10	< 1	0.20	13	1.60	0.118	0.037	1.93	< 2	1	52	0.02	< 1	< 2	< 10	14	< 10	2	20	0.29	1.77
1323008001	177	4.09	< 10	3	0.16	11	2.71	0.124	0.040	2.59	2	2	67	0.05	< 1	< 2	< 10	25	< 10	3	20	0.29	2.46
GC20-0978-003	101	1.90	< 10	< 1	0.26	15	0.64	0.055	0.041	1.65	< 2	< 1	26	< 0.01	< 1	< 2	< 10	5	< 10	2	8		
1323008032	202	2.61	< 10	< 1	0.19	12	1.51	0.174	0.035	1.93	< 2	< 1	76	0.01	< 1	< 2	< 10	8	< 10	2	19	0.23	1.80
GC20-0969-006	126	2.04	< 10	< 1	0.29	16	0.74	0.053	0.042	1.41	< 2	< 1	27	0.02	2	< 2	< 10	10	< 10	2	11		
GC20-0977-002	150	2.14	< 10	< 1	0.27	16	0.77	0.114	0.044	1.26	2	1	41	0.04	< 1	< 2	< 10	13	64	2	14		
GC20-0980-007	150	1.84	< 10	< 1	0.24	15	0.67	0.043	0.042	0.95	< 2	< 1	23	0.05	< 1	< 2	< 10	11	< 10	2	13		
1323008057	194	2.37	< 10	< 1	0.13	17	1.04	0.101	0.045	1.57	< 2	1	72	< 0.01	< 1	< 2	< 10	11	< 10	2	13	0.28	1.46
1432097047	233	6.73	< 10	1	0.46	< 10	2.19	0.095	0.033	2.87	2	6	39	0.15	3	< 2	< 10	77	< 10	5	9	0.16	2.81
GC20-0946-008	170	4.24	< 10	< 1	0.20	16	1.36	0.036	0.042	4.03	< 2	< 1	29	< 0.01	1	< 2	< 10	7	< 10	3	16		
1323008021	234	2.67	< 10	< 1	0.21	15	0.78	0.196	0.037	2.63	2	< 1	76	< 0.01	< 1	< 2	< 10	7	< 10	2	18	0.21	2.43
GC20-0944-014	213	2.86	< 10	< 1	0.27	18	1.11	0.056	0.043	2.40	< 2	< 1	50	< 0.01	2	< 2	< 10	9	< 10	3	18		
GC20-0945-009	139	4.31	< 10	< 1	0.19	15	1.56	0.032	0.043	3.71	< 2	< 1	29	< 0.01	2	< 2	< 10	11	< 10	2	17		
1323008116	199	3.40	< 10	< 1	0.16	14	1.29	0.215	0.037	1.19	< 2	3	49	0.09	3	< 2	< 10	48	< 10	4	15	0.33	1.09
1323016113	207	2.69	< 10	< 1	0.11	15	0.88	0.163	0.043	2.67	< 2	< 1	70	< 0.01	4	< 2	< 10	7	< 10	3	16	0.29	2.48
1323008075	221	1.76	< 10	< 1	0.20	50	0.34	0.048	0.070	0.87	< 2	< 1	127	< 0.01	4	< 2	< 10	5	< 10	5	6	0.65	0.76
1323008207	164	3.35	< 10	< 1	0.13	15	1.70	0.043	0.043	2.35	< 2	< 1	19	0.01	< 1	< 2	< 10	11	< 10	3	19	0.07	2.23
GC20-0940-022	133	2.10	< 10	2	0.32	14	0.15	0.015	0.039	2.08	< 2	< 1	81	< 0.01	< 1	< 2	< 10	5	< 10	2	10		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0964-005	107	1.53	< 10	< 1	0.22	< 10	0.60	0.020	0.038	1.42	3	< 1	19	< 0.01	2	< 2	< 10	3	< 10	2	9		
F001802	13	1.96	< 10	< 1	0.25	12	0.50	0.182	0.048	0.05	< 2	3	27	0.24	3	< 2	< 10	57	< 10	17	14		
1230067128	287	1.96	< 10	< 1	0.30	17	1.10	0.131	0.047	0.87	< 2	2	50	0.02	2	< 2	< 10	18	< 10	3	12	0.33	0.79
1432089310	137	9.82	10	2	0.19	< 10	2.61	0.061	0.055	1.17	4	13	46	0.11	3	< 2	< 10	173	< 10	11	6	2.34	1.24
1230067125	157	1.98	< 10	< 1	0.27	16	1.27	0.081	0.046	0.95	< 2	1	26	0.03	2	< 2	< 10	17	< 10	3	12	0.27	0.88
1230067069	249	2.32	< 10	< 1	0.21	15	1.18	0.097	0.044	1.09	< 2	2	30	0.03	< 1	< 2	< 10	19	< 10	3	12	0.32	0.94
1323010160	259	2.63	< 10	< 1	0.19	13	1.29	0.122	0.037	0.97	2	1	50	0.01	2	< 2	< 10	14	< 10	2	10	0.15	0.82
1323010213	276	3.14	< 10	< 1	0.27	14	0.62	0.151	0.043	2.31	2	1	66	0.04	2	< 2	< 10	14	< 10	3	19	0.18	2.18
GC20-0330-003	95	2.60	< 10	< 1	0.23	12	0.44	0.016	0.060	1.60	2	< 1	8	< 0.01	< 1	< 2	< 10	5	< 10	1	9		
1433094085	147	7.16	< 10	2	0.15	< 10	1.67	0.127	0.055	3.95	3	8	66	0.08	< 1	< 2	< 10	100	< 10	8	6	1.42	4.00
1433094338	82	9.05	< 10	2	0.14	< 10	2.01	0.078	0.065	4.36	5	8	60	0.10	5	< 2	< 10	110	< 10	9	9	1.17	2.96
1432089229	193	7.30	< 10	2	0.63	< 10	2.55	0.371	0.036	1.32	4	8	83	0.11	< 1	< 2	< 10	112	< 10	7	5	2.11	1.33
1432089018	181	7.30	< 10	2	0.29	< 10	2.21	0.141	0.036	0.65	3	13	30	0.18	< 1	< 2	< 10	279	< 10	7	3	1.17	0.65
1432089440	115	9.99	< 10	2	0.40	< 10	2.26	0.067	0.059	1.40	6	12	38	0.13	< 1	< 2	< 10	166	< 10	8	5	2.01	1.40
1230067032	210	2.44	< 10	< 1	0.40	17	1.07	0.145	0.056	1.61	< 2	1	50	0.04	1	< 2	< 10	18	< 10	3	10	0.35	1.47
GC20-0336-014	125	3.83	< 10	< 1	0.27	14	0.09	0.021	0.038	5.16	11	< 1	11	< 0.01	4	< 2	< 10	4	< 10	1	12		
1323017153	268	2.54	< 10	< 1	0.17	13	0.73	0.066	0.037	1.75	< 2	1	20	0.01	2	< 2	< 10	17	< 10	3	16	0.21	1.69
GC20-0872-016	150	3.73	< 10	< 1	0.61	23	1.57	0.043	0.097	3.36	< 2	2	19	0.05	1	< 2	< 10	18	< 10	3	15		
GC20-0327-018	189	1.81	< 10	< 1	0.32	15	0.36	0.031	0.039	1.70	2	< 1	33	< 0.01	3	< 2	< 10	5	< 10	1	8		
GC20-0870-019	1000	5.34	< 10	< 1	0.32	24	4.28	0.053	0.098	1.28	6	4	35	0.13	< 1	< 2	< 10	76	< 10	2	11		
GC20-0847-021	186	2.20	< 10	< 1	0.61	15	1.42	0.381	0.042	1.42	< 2	2	97	0.04	< 1	< 2	< 10	22	< 10	2	14		
GC20-0868-020	206	2.31	< 10	< 1	0.60	18	1.27	0.122	0.048	1.86	< 2	1	47	0.06	< 1	< 2	< 10	16	< 10	3	13		
1432089313	165	7.79	10	1	0.60	< 10	2.75	0.331	0.038	0.78	4	8	95	0.12	< 1	< 2	< 10	129	< 10	8	3	1.56	0.79
1230067002	371	2.08	< 10	< 1	0.26	19	0.66	0.088	0.043	0.63	< 2	1	50	0.07	2	< 2	< 10	18	< 10	3	10	0.35	0.56
F002084	12	1.50	< 10	< 1	0.20	17	0.35	0.175	0.040	0.04	< 2	2	31	0.21	3	< 2	< 10	36	< 10	15	21		
1323022019	190	4.72	< 10	2	0.04	< 10	1.96	0.386	0.020	0.15	< 2	5	59	0.23	3	< 2	< 10	124	< 10	4	4	0.21	0.15
1323022004	245	2.47	< 10	< 1	0.16	16	1.05	0.131	0.049	0.64	< 2	1	172	0.02	< 1	< 2	< 10	15	< 10	2	5	0.15	0.61
GC20-0351-001	216	2.00	< 10	< 1	0.22	23	0.92	0.021	0.127	1.32	3	3	20	< 0.01	< 1	< 2	< 10	19	< 10	3	4		
1323022159	164	2.97	< 10	< 1	0.16	11	1.16	0.053	0.033	2.22	< 2	< 1	58	< 0.01	3	< 2	< 10	8	< 10	2	17	0.10	2.07
1230068144	245	2.42	< 10	< 1	0.35	17	0.57	0.182	0.049	1.39	< 2	1	75	0.04	3	< 2	< 10	16	< 10	3	12	0.39	1.31
1323022107	255	2.78	< 10	< 1	0.27	13	1.06	0.096	0.038	2.03	< 2	1	113	< 0.01	3	< 2	< 10	11	< 10	2	17	0.20	1.89
1323022106	251	3.56	< 10	< 1	0.27	10	0.85	0.107	0.033	2.14	< 2	1	152	< 0.01	3	< 2	< 10	12	< 10	2	19	0.17	1.99
1323022108	140	2.64	< 10	< 1	0.17	13	0.90	0.061	0.039	2.41	< 2	< 1	74	< 0.01	2	< 2	< 10	7	< 10	2	19	0.16	2.28
1433094506	94	9.70	10	2	0.21	< 10	1.86	0.171	0.081	1.43	4	13	62	0.15	< 1	< 2	< 10	183	< 10	11	6	1.35	1.56
GC20-0353-002	357	5.08	< 10	< 1	0.05	17	2.62	0.053	0.076	1.90	2	6	51	< 0.01	< 1	< 2	< 10	68	< 10	2	7		
GC20-0355-012	128	2.88	< 10	< 1	0.22	13	0.22	0.034	0.042	3.41	2	< 1	26	< 0.01	3	< 2	< 10	3	< 10	2	15		
1323019067	150	2.55	< 10	< 1	0.20	14	0.91	0.167	0.039	1.96	< 2	< 1	62	0.02	4	< 2	< 10	10	< 10	3	18	0.15	1.83
GC20-0360-011	301	1.35	< 10	< 1	0.29	24	0.72	0.038	0.071	0.70	< 2	2	34	0.04	4	< 2	< 10	16	< 10	2	5		
1433094437	110	9.53	10	< 1	0.18	< 10	2.47	0.167	0.058	2.37	5	12	60	0.12	< 1	< 2	< 10	200	< 10	8	5	1.56	2.41
1323021127	219	4.22	< 10	< 1	0.19	25	1.46	0.167	0.057	1.99	3	2	180	0.03	1	< 2	< 10	26	< 10	4	13	0.14	1.92
GC20-0362-002	277	1.93	< 10	< 1	0.20	16	1.13	0.028	0.081	0.28	< 2	3	91	0.04	1	< 2	< 10	25	< 10	2	3		
GC20-0361-002	204	1.19	< 10	< 1	0.21	< 10	0.28	0.032	0.032	0.32	< 2	< 1	21	< 0.01	1	< 2	< 10	6	< 10	< 1	5		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	64	1020	1	23	91	122	6.75	209	< 10	837	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.2	< 0.5	64	1000	< 1	23	91	118	6.74	196	< 10	849	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	64	1040	< 1	23	92	120	6.76	218	< 10	869	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1090	1	26	98	125	7.26	225	< 10	772	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1080	1	25	96	125	7.07	228	< 10	785	0.9	3	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.62																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.57																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.18																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.60																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.28																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz)		46.6																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2970																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							505																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							526																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
1230063001 Orig						9.02																	
1230063001 Dup						9.02																	
1230063027 Orig																							
1230063027 Dup																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-1013-004 Orig								0.5	< 0.5	40	373	3	14	4	51	1.78	22	< 10	27	< 0.5	10	0.52	9
GC20-1013-004 Dup								0.5	< 0.5	37	357	3	13	3	50	1.71	23	< 10	29	< 0.5	11	0.50	10
GC20-0949-006 Orig							247																
GC20-0949-006 Dup							133																
GC20-0948-004 Orig							498																
GC20-0948-004 Dup							462																
GC20-1004-005 Orig								0.4	< 0.5	13	434	1	16	3	72	2.10	5	< 10	33	< 0.5	5	1.02	10
GC20-1004-005 Dup								0.4	< 0.5	13	427	1	16	4	73	2.03	6	< 10	33	< 0.5	4	1.00	9
GC20-1009-001 Orig							131																
GC20-1009-001 Dup							136																
1323008199 Orig																							
1323008199 Dup																							
GC20-0293-001 Orig								1.8	1.4	32	1030	< 1	14	33	407	0.76	127	< 10	25	< 0.5	< 2	2.67	8
GC20-0293-001 Dup								1.7	1.3	31	1040	< 1	13	33	411	0.81	125	< 10	26	< 0.5	3	2.66	8
1323008213 Orig							22																
1323008213 Dup							25																
GC20-0247-007 Orig							217	0.8	0.7	16	986	< 1	8	9	204	1.35	128	< 10	30	< 0.5	2	2.68	6
GC20-0247-007 Dup							254	0.6	0.8	17	1020	< 1	8	9	210	1.42	167	< 10	31	< 0.5	2	2.74	7
1323009030 Orig							75																
1323009030 Dup							79																
1323012315 Orig																							
1323012315 Dup																							
GC20-1030-001 Orig								0.6	< 0.5	50	376	< 1	11	4	74	2.05	37	< 10	37	< 0.5	6	1.26	8
GC20-1030-001 Dup								0.5	< 0.5	46	367	< 1	11	5	72	1.90	40	< 10	38	< 0.5	8	1.21	8
GC20-0966-004 Orig							171																
GC20-0966-004 Dup							179																
1323008009 Orig								0.7	< 0.5	180	443	1	16	3	91	2.28	21	< 10	42	< 0.5	4	0.90	11
1323008009 Dup								2.0	< 0.5	191	441	1	15	< 2	93	2.24	23	< 10	42	< 0.5	3	0.90	11
1323008057 Orig																							
1323008057 Dup																							
1432097047 Orig							42																
1432097047 Dup							43																
GC20-0964-005 Orig							380																
GC20-0964-005 Dup							436																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230067069 Orig								0.6	0.7	22	580	< 1	16	11	158	1.77	20	< 10	46	< 0.5	3	1.33	11
1230067069 Dup								0.7	< 0.5	23	568	< 1	16	12	154	1.74	16	< 10	45	< 0.5	3	1.32	11
1323010160 Orig	19.5	10.1	-9.38	25.1	0.402																		
1323010160 Dup	19.5	10.1	-9.36	25.1	0.403																		
GC20-0336-014 Orig							638																
GC20-0870-019 Orig								1.0	< 0.5	41	842	< 1	457	< 2	104	3.10	47	< 10	44	< 0.5	< 2	1.21	71
GC20-0870-019 Dup								1.0	< 0.5	41	857	< 1	459	< 2	105	3.10	51	< 10	54	< 0.5	< 2	1.24	70
1230067002 Orig																							
1230067002 Dup																							
1323022019 Orig							10																
1323022019 Dup							13																
1323022108 Orig								1.0	< 0.5	30	285	< 1	12	5	46	2.10	22	13	34	< 0.5	7	0.99	9
1323022108 Dup								1.0	< 0.5	34	279	< 1	12	5	46	2.01	22	12	33	< 0.5	8	0.98	9
1323021127 Orig																							
1323021127 Dup																							
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	5.22	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		3	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	74	5.27	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		< 1	< 2	< 10	157	< 10	7	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.31	20	< 1	1.11	11	0.38	0.079	0.032	0.01	5	24	33		< 1	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	6.03	20	2	1.13	< 10	0.40	0.143	0.034	0.01	5	19	29		< 1	< 2	< 10	171	< 10	5	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.94	20	3	1.15	< 10	0.40	0.141	0.034	0.01	4	19	29		< 1	2	< 10	172	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
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BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.05	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
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NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1230063001 Orig																							
1230063001 Dup																							
1230063027 Orig																						0.34	0.44
1230063027 Dup																						0.34	0.44
GC20-1013-004 Orig	161	4.24	< 10	< 1	0.23	15	1.09	0.049	0.039	3.64	< 2	< 1	36	< 0.01	1	< 2	< 10	8	< 10	3	19		
GC20-1013-004 Dup	154	4.04	< 10	< 1	0.22	13	1.05	0.049	0.037	3.49	< 2	< 1	34	< 0.01	5	< 2	< 10	8	< 10	3	18		
GC20-0949-006 Orig																							
GC20-0949-006 Dup																							
GC20-0948-004 Orig																							
GC20-0948-004 Dup																							
GC20-1004-005	217	3.49	< 10	< 1	0.27	10	1.45	0.049	0.042	3.28	< 2	1	38	< 0.01	3	< 2	< 10	9	< 10	2	20		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Orig																							
GC20-1004-005 Dup	215	3.37	< 10	< 1	0.26	10	1.40	0.050	0.042	3.20	2	< 1	38	< 0.01	2	< 2	< 10	9	< 10	2	20		
GC20-1009-001 Orig																							
GC20-1009-001 Dup																							
1323008199 Orig																						0.30	1.51
1323008199 Dup																						0.30	1.51
GC20-0293-001 Orig	179	1.65	< 10	< 1	0.24	14	0.34	0.023	0.053	1.47	< 2	< 1	20	< 0.01	1	< 2	< 10	4	< 10	1	4		
GC20-0293-001 Dup	178	1.62	< 10	< 1	0.25	14	0.35	0.025	0.052	1.47	< 2	< 1	20	< 0.01	2	< 2	< 10	4	< 10	1	4		
1323008213 Orig																							
1323008213 Dup																							
GC20-0247-007 Orig	71	1.75	< 10	< 1	0.24	14	0.55	0.092	0.039	0.93	< 2	< 1	52	< 0.01	1	< 2	< 10	6	< 10	2	6		
GC20-0247-007 Dup	74	1.83	< 10	< 1	0.26	15	0.58	0.098	0.040	0.95	< 2	< 1	55	< 0.01	< 1	< 2	< 10	6	< 10	2	6		
1323009030 Orig																							
1323009030 Dup																							
1323012315 Orig																						0.33	0.77
1323012315 Dup																						0.33	0.77
GC20-1030-001 Orig	196	2.69	< 10	< 1	0.22	11	0.69	0.114	0.036	2.10	< 2	< 1	71	0.01	4	< 2	< 10	10	< 10	2	14		
GC20-1030-001 Dup	196	2.62	< 10	< 1	0.20	11	0.67	0.105	0.036	2.02	< 2	< 1	65	0.01	< 1	< 2	< 10	9	< 10	2	13		
GC20-0966-004 Orig																							
GC20-0966-004 Dup																							
1323008009 Orig	197	2.94	< 10	< 1	0.20	13	1.59	0.120	0.037	1.94	< 2	1	51	0.01	< 1	< 2	< 10	14	< 10	2	20		
1323008009 Dup	199	3.00	< 10	< 1	0.21	13	1.61	0.116	0.037	1.92	< 2	1	52	0.02	1	< 2	< 10	15	< 10	2	20		
1323008057 Orig																						0.28	1.49
1323008057 Dup																						0.29	1.44
1432097047 Orig																							
1432097047 Dup																							
GC20-0964-005 Orig																							
GC20-0964-005 Dup																							
1230067069 Orig	246	2.31	< 10	< 1	0.20	15	1.18	0.098	0.044	1.11	< 2	2	30	0.03	< 1	< 2	< 10	19	< 10	3	12		
1230067069 Dup	252	2.33	< 10	< 1	0.21	15	1.18	0.096	0.044	1.07	< 2	2	30	0.03	2	< 2	< 10	19	< 10	3	11		
1323010160 Orig																						0.14	0.75
1323010160 Dup																						0.17	0.88
GC20-0336-014 Orig																							
GC20-0870-019 Orig	996	5.34	< 10	< 1	0.32	24	4.27	0.052	0.098	1.29	9	4	35	0.13	3	< 2	< 10	75	< 10	2	11		
GC20-0870-019 Dup	1000	5.33	< 10	2	0.32	24	4.29	0.053	0.098	1.27	4	4	36	0.14	< 1	< 2	< 10	77	< 10	2	11		
1230067002 Orig																						0.35	0.55
1230067002 Dup																						0.34	0.56
1323022019 Orig																							
1323022019 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323022108 Orig	140	2.66	< 10	< 1	0.18	14	0.91	0.063	0.039	2.43	< 2	< 1	76	< 0.01	3	< 2	< 10	7	< 10	2	19		
1323022108 Dup	140	2.62	< 10	< 1	0.17	13	0.89	0.060	0.040	2.38	< 2	< 1	73	< 0.01	1	< 2	< 10	7	< 10	2	20		
1323021127 Orig																						0.14	1.95
1323021127 Dup																						0.14	1.89
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-12877**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-26 17:17:36
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-03 12:44:26

REPORT **A20-12877**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Footnote: Sample F001540 and F001582 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.:	**A20-12877**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-11-24 21:39:16
4F-C, S	Infrared	2020-11-19 21:37:51

REPORT **A20-12877**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Footnote: Sample F001540 and F001582 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0303-021							75	1.1	3.7	106	788	< 1	10	5	994	2.58	21	< 10	41	< 0.5	3	0.79	9
GC20-0303-007							414	2.1	5.3	50	926	1	12	4	1360	2.06	22	< 10	34	< 0.5	3	0.80	10
1323005033	58.7	15.3	-43.4	72.3	0.212	8.57	250	1.4	1.6	114	444	1	16	6	397	2.51	12	< 10	33	< 0.5	5	1.42	9
1323005001	67.6	5.87	-61.7	79.0	0.0743	8.07	300	0.9	2.4	136	453	1	15	3	693	2.75	8	< 10	31	< 0.5	4	0.87	37
1230062003	31.9	40.6	8.75	39.2	1.04	8.48	229	3.4	2.4	23	1070	< 1	12	225	599	0.99	53	< 10	25	< 0.5	< 2	1.90	8
1432197120	27.8	20.9	-6.93	38.3	0.545	8.66	102	0.5	< 0.5	112	835	< 1	18	3	178	3.28	6	< 10	51	< 0.5	3	2.27	30
1323005014	68.1	9.86	-58.2	80.5	0.122	8.10	463	1.1	< 0.5	292	365	2	14	5	66	2.35	10	< 10	32	< 0.5	6	1.00	11
GC20-0298-009FD							424	1.2	< 0.5	248	1050	< 1	18	4	127	2.59	32	< 10	30	< 0.5	5	0.96	14
GC20-0297-013							132	0.3	1.0	41	687	1	20	11	437	2.62	30	< 10	30	< 0.5	< 2	1.16	18
GC20-0297-001							1440	5.8	11.2	274	488	< 1	14	7	2990	1.38	26	< 10	22	< 0.5	15	0.46	12
GC20-0302-017							880	11.7	35.5	2210	1500	< 1	35	14	8290	3.13	100	< 10	13	< 0.5	11	0.22	28
1432097253	2.69	28.8	26.1	11.6	2.48	8.90	36	0.4	< 0.5	312	472	< 1	759	< 2	63	3.18	5	< 10	83	< 0.5	< 2	1.31	55
1230062021	40.6	34.3	-6.35	49.9	0.686	8.72	554	5.2	2.8	66	1070	< 1	14	655	706	0.50	90	< 10	36	< 0.5	< 2	1.34	7
1323006245	48.8	10.8	-38.0	62.5	0.174	8.20	614	0.8	< 0.5	135	490	3	17	6	84	2.75	11	< 10	35	< 0.5	< 2	1.64	9
1323006181	43.9	17.5	-26.5	55.4	0.315	8.33	293	0.6	< 0.5	108	503	3	15	5	100	2.20	9	< 10	37	< 0.5	< 2	1.57	9
1432097043	8.53	43.8	35.3	16.2	2.70	8.91	66	0.6	< 0.5	320	612	< 1	716	< 2	83	2.79	7	< 10	54	< 0.5	< 2	1.73	50
1323006144	58.3	16.5	-41.8	63.7	0.259	8.49	377	0.6	< 0.5	145	514	3	15	3	116	1.41	14	< 10	31	< 0.5	< 2	1.07	9
1323006159	49.2	12.5	-36.7	53.9	0.231	8.34	163	1.0	1.6	115	519	3	15	10	449	2.25	11	< 10	32	< 0.5	< 2	1.34	9
1230065215	68.7	49.2	-19.6	76.6	0.642	8.63	662	11.8	2.2	43	1560	< 1	22	265	631	2.24	78	< 10	29	< 0.5	< 2	2.29	10
1230065091	8.95	32.9	24.0	12.6	2.62	9.25	11	0.3	< 0.5	32	575	1	14	3	78	1.46	7	< 10	91	< 0.5	< 2	1.73	8
1333096191	21.8	22.2	0.459	29.7	0.748	8.77	48	0.3	1.0	39	569	2	24	5	325	2.78	11	< 10	46	< 0.5	< 2	1.96	13
1323006195	47.5	16.5	-31.0	52.4	0.314	8.44	98	0.6	< 0.5	146	497	4	14	4	77	2.18	13	< 10	36	< 0.5	< 2	1.56	8
F001539							3180	2.7	< 0.5	38	241	15	10	17	40	1.25	< 2	< 10	47	< 0.5	< 2	0.82	8
1230062213	38.9	2.87	-36.1	43.8	0.0655	8.28	299	17.6	3.4	55	334	< 1	14	269	797	0.42	75	< 10	32	< 0.5	< 2	0.14	10
1324024097	20.1	20.0	-0.119	23.3	0.858	8.70	52	0.3	< 0.5	28	341	1	9	3	46	2.09	5	< 10	38	< 0.5	< 2	0.93	7
1324024027	35.0	31.6	-3.37	40.1	0.788	8.75	348	1.6	0.7	67	547	< 1	15	6	211	1.56	25	< 10	39	< 0.5	< 2	1.54	8
1322001016	60.8	16.5	-44.3	67.1	0.246	8.32	69	0.5	1.3	68	471	1	15	5	326	1.98	11	< 10	31	< 0.5	< 2	1.32	10
1230061058	24.9	55.0	30.1	28.8	1.91	8.45	190	2.5	< 0.5	27	1550	< 1	10	25	80	0.79	112	< 10	23	< 0.5	< 2	2.31	6
GC20-0287-005							314	3.0	1.6	316	370	1	14	22	385	1.03	225	< 10	15	< 0.5	4	0.13	9
1230062230	67.2	9.61	-57.6	72.6	0.132	8.29	112	0.7	6.3	17	154	< 1	16	13	1490	0.52	41	< 10	25	< 0.5	< 2	0.47	10
GC20-0292-011							373	0.7	0.7	11	709	< 1	9	34	173	1.52	61	< 10	40	< 0.5	< 2	1.64	7
GC20-0290-011							64	0.5	< 0.5	25	750	< 1	7	16	62	2.10	20	< 10	45	< 0.5	< 2	1.88	8
1323005043	58.3	8.75	-49.6	64.3	0.136	8.23	115	1.2	3.1	80	418	< 1	12	4	813	2.33	23	< 10	26	< 0.5	< 2	1.05	8
GC20-285-001							271	1.1	< 0.5	47	744	< 1	11	11	101	0.70	90	< 10	21	< 0.5	< 2	2.46	7
GC20-0284-001							110	0.9	0.8	17	3630	< 1	8	21	229	0.88	48	< 10	23	< 0.5	< 2	0.47	8
1324024001	21.3	12.0	-9.28	20.8	0.575	8.72	184	0.4	< 0.5	152	310	< 1	15	< 2	33	3.38	7	< 10	34	< 0.5	< 2	1.46	8
1324024019	26.0	47.2	21.1	30.3	1.56	8.62	248	0.4	< 0.5	61	598	1	32	2	86	1.99	9	< 10	39	< 0.5	< 2	2.20	15
1324027038	35.6	48.7	13.1	40.1	1.21	8.72	117	1.1	1.3	76	674	1	96	6	362	2.05	12	< 10	48	< 0.5	< 2	2.10	14
1230062144	37.6	37.1	-0.490	42.0	0.884	8.79	319	1.2	1.8	41	1020	< 1	10	302	450	0.48	42	< 10	38	< 0.5	< 2	1.45	7
1324027018	53.2	8.75	-44.5	58.2	0.150	8.59	72	1.1	3.7	43	368	< 1	13	7	975	1.32	16	< 10	39	< 0.5	< 2	0.67	7
1324027125	36.7	9.86	-26.8	40.7	0.242	8.63	141	2.1	0.8	23	660	1	12	4	284	2.35	20	< 10	45	< 0.5	< 2	0.91	9
1324027011	57.7	13.7	-44.0	64.6	0.213	8.44	51	0.7	1.5	13	376	< 1	11	4	430	1.26	12	< 10	35	< 0.5	< 2	0.82	7
1323005026	60.6	17.4	-43.2	68.9	0.253	8.28	205	0.6	3.6	73	585	< 1	15	6	944	2.90	9	< 10	29	< 0.5	< 2	1.68	8
1324027005	47.0	8.99	-38.0	53.9	0.167	8.59	99	0.8	< 0.5	11	468	< 1	11	3	101	1.44	10	< 10	37	< 0.5	< 2	0.72	8
1324027003	40.2	10.8	-29.4	49.0	0.221	8.65	104	1.2	< 0.5	41	417	< 1	12	3	154	1.44	12	< 10	39	< 0.5	< 2	0.75	8
F001635							3120	2.5	< 0.5	38	241	16	13	13	41	1.26	< 2	< 10	46	< 0.5	< 2	0.83	8
1230061038	123	4.12	-119	153	0.0269	7.72	585	7.2	50.6	149	1050	< 1	25	109	> 10000	1.53	197	< 10	14	< 0.5	< 2	0.39	11
GC20-0277-007							57	0.5	< 0.5	17	580	< 1	11	8	83	0.88	55	< 10	35	< 0.5	< 2	2.01	7

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324028034	37.2	39.9	2.77	44.4	0.900	8.54	1150	0.9	< 0.5	167	554	2	51	4	70	1.79	9	< 10	49	< 0.5	< 2	1.71	11
1324028071	21.9	41.0	19.1	29.4	1.39	8.71	106	0.3	< 0.5	27	754	< 1	33	3	153	1.83	11	< 10	46	< 0.5	< 2	1.87	9
1322001004	63.4	14.9	-48.6	74.7	0.199	8.28	48	0.4	1.4	63	442	< 1	17	4	350	1.90	10	< 10	28	< 0.5	< 2	1.05	11
1324022008	48.2	8.74	-39.5	57.6	0.152	8.34	100	0.6	< 0.5	19	543	< 1	11	25	158	1.86	23	13	32	< 0.5	< 2	0.73	8
1230060515	56.9	2.49	-54.4	68.3	0.0364	8.17	286	4.4	2.1	23	1330	< 1	19	73	514	1.45	75	< 10	19	< 0.5	< 2	0.36	10
1324022058	45.0	13.0	-32.0	49.3	0.263	8.40	448	0.5	1.4	72	538	1	10	8	469	2.79	14	16	34	< 0.5	< 2	1.45	8
GC20-0278-001							104	0.9	0.6	23	1020	< 1	11	19	207	0.92	101	< 10	23	< 0.5	< 2	0.19	9
GC20-0276-013							6	< 0.2	< 0.5	10	247	< 1	10	4	60	2.78	16	12	11	< 0.5	< 2	0.75	6
1324022043	30.7	3.86	-26.9	38.9	0.0992	8.24	28	0.5	0.7	63	481	3	13	6	202	1.36	14	< 10	33	< 0.5	< 2	1.12	8
1324022013	1.56	4.12	2.56	4.90	0.840	8.91	180	0.3	0.5	98	572	< 1	11	15	196	2.89	19	16	36	< 0.5	< 2	1.63	7
GC20-0281-002							92	1.0	1.1	28	887	< 1	12	18	312	1.20	63	< 10	28	< 0.5	< 2	0.34	8
GC20-0283-002							73	0.4	0.6	16	910	< 1	9	25	193	1.90	26	< 10	33	< 0.5	< 2	1.20	10
1230060128	29.3	14.4	-14.9	34.9	0.412	8.40	146	1.0	0.5	39	673	< 1	17	17	164	1.56	37	< 10	38	< 0.5	< 2	1.02	9
1324024109	18.6	17.6	-1.04	22.4	0.787	8.75	112	< 0.2	< 0.5	53	347	1	11	3	60	1.99	6	< 10	38	< 0.5	< 2	0.76	7
1324024099	23.5	8.11	-15.4	26.3	0.308	8.78	41	0.4	< 0.5	45	282	< 1	13	< 2	29	2.39	6	< 10	27	< 0.5	< 2	0.59	8
1324024020	28.7	55.3	26.5	34.3	1.61	8.60	687	0.5	< 0.5	123	516	< 1	33	3	123	1.95	12	< 10	54	< 0.5	< 2	2.37	14
F001582								4.2	< 0.5	24	204	17	6	23	39	1.15	< 2	< 10	38	< 0.5	< 2	0.73	5
1324022093	41.0	18.9	-22.2	46.5	0.405	8.55	1070	0.7	2.9	137	585	1	15	7	834	2.18	14	< 10	39	< 0.5	< 2	1.54	8
1333096282	17.6	49.3	31.7	23.0	2.15	8.96	50	< 0.2	< 0.5	22	795	< 1	38	4	137	4.20	15	< 10	90	< 0.5	< 2	3.45	17
1333098144	13.4	34.6	21.2	17.5	1.98	8.92	14	0.3	< 0.5	21	583	< 1	14	3	107	2.42	7	< 10	45	< 0.5	< 2	2.48	9
1432097036	7.08	15.8	8.75	11.0	1.44	8.74	8	0.6	1.0	38	706	1	20	7	317	2.16	5	< 10	50	< 0.5	< 2	1.38	10
1324024071	22.3	22.6	0.286	27.6	0.819	8.48	95	0.5	< 0.5	106	585	1	32	6	121	2.42	9	10	42	< 0.5	< 2	1.28	23
1324028011	35.0	17.4	-17.6	39.5	0.439	8.76	316	1.4	0.9	67	810	1	20	4	258	2.49	14	< 10	52	< 0.5	< 2	1.49	12
GC20-0273-021							40	< 0.2	< 0.5	8	679	< 1	8	9	93	2.62	11	< 10	46	< 0.5	< 2	2.16	7
GC20-0268-011							204	4.4	10.3	39	746	< 1	20	40	2440	1.37	177	< 10	20	< 0.5	< 2	0.46	9
GC20-0275-009							30	0.3	0.6	14	508	< 1	8	7	139	2.73	9	< 10	53	< 0.5	< 2	1.78	7
GC20-0277-013							1830	2.1	< 0.5	17	485	< 1	7	8	78	0.74	1280	< 10	30	< 0.5	< 2	1.53	7
1324028093	6.25	35.3	29.0	9.19	3.84	9.24	77	0.7	< 0.5	58	622	< 1	48	3	130	1.96	15	< 10	39	< 0.5	< 2	1.36	30
1323005096	72.4	9.97	-62.4	77.8	0.128	8.40	103	1.3	3.1	112	391	< 1	15	6	788	1.93	19	< 10	31	< 0.5	3	0.69	9
1324028043	27.3	16.1	-11.2	30.9	0.520	8.78	166	0.8	< 0.5	60	745	2	21	5	155	2.89	13	< 10	52	< 0.5	< 2	1.80	13
1322001026	56.9	22.6	-34.3	63.1	0.358	8.38	124	0.6	1.6	105	468	3	16	4	414	1.99	13	< 10	32	< 0.5	< 2	1.70	10
1324027070	46.6	11.5	-35.0	51.5	0.224	8.53	113	1.8	< 0.5	19	526	< 1	14	6	181	1.81	13	< 10	41	< 0.5	< 2	1.01	7
1230062039	24.8	49.4	24.6	28.2	1.75	8.65	242	12.3	0.6	12	1060	< 1	8	40	85	0.66	32	< 10	20	< 0.5	< 2	2.08	6
1324027071	45.4	12.8	-32.7	49.9	0.255	8.88	118	1.7	1.0	32	486	1	11	4	296	1.63	14	< 10	38	< 0.5	< 2	0.89	7
1333096113	30.5	26.4	-4.15	35.2	0.749	8.72	20	0.3	< 0.5	39	594	< 1	33	7	108	3.38	5	< 10	55	< 0.5	< 2	2.57	16
F001540																							
GC20-0942-013							763	1.1	1.0	6	123	< 1	14	18	231	0.50	27	< 10	21	< 0.5	< 2	0.42	10
1324021018	37.4	10.0	-27.4	41.0	0.244	8.53	48	0.3	< 0.5	78	255	< 1	14	< 2	60	1.63	3	< 10	36	< 0.5	< 2	0.65	7
1324021001	28.8	36.7	7.88	33.4	1.10	8.72	131	0.3	1.8	49	665	< 1	51	4	405	2.05	9	< 10	43	< 0.5	< 2	1.80	12
1324028077	64.5	28.3	-36.2	71.4	0.397	8.33	352	1.5	< 0.5	266	636	2	16	6	47	1.80	10	< 10	28	< 0.5	3	1.57	8
1324024085	35.4	20.4	-15.0	39.2	0.520	8.62	1790	1.0	< 0.5	85	567	< 1	16	6	103	1.79	14	< 10	33	< 0.5	< 2	1.22	7
1324027025	55.8	26.3	-29.5	60.9	0.431	8.63	304	1.1	< 0.5	109	469	< 1	35	6	129	1.32	4	< 10	31	< 0.5	2	1.18	9
1324022100	29.2	26.8	-2.35	33.1	0.811	8.74	34	0.3	< 0.5	25	623	< 1	19	4	107	1.39	10	< 10	44	< 0.5	< 2	1.13	7
1324022087	42.9	8.62	-34.3	48.1	0.179	8.36	366	0.6	0.7	103	574	1	13	8	269	2.59	9	14	37	< 0.5	< 2	1.22	9
1324021105	42.4	9.36	-33.0	46.2	0.202	8.41	37	0.5	< 0.5	129	288	2	11	< 2	120	2.34	16	< 10	28	< 0.5	< 2	0.67	7
1333096065	8.13	15.8	7.70	7.96	1.99	8.67	26	0.3	< 0.5	101	480	< 1	34	8	61	4.54	4	< 10	21	< 0.5	< 2	3.30	19
1333096003	11.3	20.0	8.61	14.4	1.39	9.04	14	< 0.2	< 0.5	28	435	2	14	9	125	2.20	12	< 10	46	< 0.5	< 2	1.81	7
1333096024	18.8	41.3	22.5	21.7	1.90	8.81	56	0.4	< 0.5	23	698	< 1	17	23	166	2.33	16	< 10	53	< 0.5	< 2	2.39	10
1324027031	156	37.4	-119	180	0.208	8.16	145	1.3	< 0.5	84	531	< 1	92	7	93	2.08	20	< 10	16	< 0.5	6	1.57	40

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324027028	104	16.9	-87.0	113	0.150	8.16	549	1.3	< 0.5	37	494	1	34	15	160	1.34	18	< 10	19	< 0.5	< 2	0.90	19
1333096096	12.2	7.49	-4.69	11.9	0.627	8.77	24	< 0.2	< 0.5	38	448	< 1	13	7	112	2.38	7	< 10	51	< 0.5	< 2	1.06	11
1230062084	25.7	45.7	20.0	30.6	1.49	8.46	89	13.9	< 0.5	26	1430	1	21	69	130	1.16	29	< 10	40	< 0.5	< 2	2.10	9
1230062148	62.4	41.6	-20.8	70.4	0.591	8.50	349	2.0	5.8	31	785	< 1	12	568	1530	0.45	70	< 10	27	< 0.5	< 2	1.65	8
1230062203	33.8	32.4	-1.49	39.2	0.825	8.64	69	10.2	0.6	14	1560	< 1	11	50	170	0.57	76	< 10	30	< 0.5	< 2	1.39	8
F001579							759	4.6	< 0.5	28	230	< 1	8	10	40	1.16	< 2	< 10	39	< 0.5	< 2	0.66	8
1324026001	18.8	14.0	-4.79	18.4	0.760	8.91	103	0.2	< 0.5	137	257	4	14	< 2	31	2.39	6	< 10	29	< 0.5	< 2	1.02	8
1324026074	35.0	6.62	-28.4	38.6	0.172	8.49	554	0.3	< 0.5	96	347	1	14	< 2	35	2.51	13	< 10	22	< 0.5	< 2	0.53	11
GC20-0898-017							692	1.0	2.0	10	377	< 1	17	20	473	0.52	36	< 10	29	< 0.5	< 2	0.82	11
1323007124	68.4	11.8	-56.6	72.9	0.162	8.35	89	0.4	0.9	143	434	< 1	15	2	282	1.87	7	< 10	29	< 0.5	< 2	0.74	10
1323006259	63.3	7.73	-55.6	68.3	0.113	7.98	535	1.0	0.6	242	409	3	11	4	167	2.51	14	< 10	36	< 0.5	2	1.27	9
1323006021	59.4	13.6	-45.8	66.2	0.205	8.17	234	0.9	4.1	103	630	3	22	5	982	2.05	7	< 10	31	< 0.5	< 2	1.33	11
1230064272	22.1	8.49	-13.6	25.7	0.330	8.82	30	2.3	< 0.5	13	330	< 1	13	9	51	0.84	22	< 10	29	< 0.5	< 2	0.46	8
1230065108	30.5	14.2	-16.3	33.7	0.422	8.69	35	0.4	< 0.5	19	369	3	14	56	94	1.11	4	< 10	44	< 0.5	< 2	0.74	8
GC20-0957-010							74	1.7	< 0.5	30	1140	1	10	8	60	1.39	31	< 10	40	< 0.5	< 2	2.61	7
GC20-0305-004							504	0.4	< 0.5	78	450	< 1	11	5	59	2.03	4	< 10	40	< 0.5	< 2	1.05	6
1230065095	33.5	53.9	20.4	38.0	1.42	8.94	< 5	< 0.2	< 0.5	27	495	1	15	< 2	91	1.30	< 2	< 10	115	< 0.5	< 2	1.91	7
GC20-0958-001							97	2.2	< 0.5	25	1260	< 1	14	20	75	1.50	36	< 10	64	< 0.5	< 2	2.18	6
GC20-0955-001							147	0.9	< 0.5	77	380	< 1	10	7	60	2.98	15	< 10	35	< 0.5	4	1.80	7
1230064345	31.7	50.2	18.6	36.4	1.38	8.88	52	3.8	< 0.5	9	928	< 1	10	19	45	0.55	27	< 10	34	< 0.5	< 2	2.09	8
GC20-0955-004							67	0.5	< 0.5	75	393	< 1	10	5	56	2.71	19	< 10	33	< 0.5	< 2	1.71	8
1230065036	3.13	26.2	23.0	3.06	8.54	9.54	8	< 0.2	< 0.5	20	272	2	16	< 2	46	0.92	< 2	< 10	168	< 0.5	< 2	1.27	7
1323006007	47.0	13.9	-33.1	51.5	0.270	8.87	130	0.8	1.1	96	546	3	18	3	304	1.57	9	< 10	44	< 0.5	< 2	1.13	8
1323006086	60.0	11.9	-48.1	65.2	0.182	8.41	516	1.0	0.7	96	461	3	16	6	239	1.81	11	< 10	36	< 0.5	< 2	1.24	10
GC20-0955-010							29	0.3	< 0.5	28	448	< 1	16	4	64	2.56	5	< 10	39	< 0.5	< 2	1.76	9
GC20-0885-023							243	4.3	12.4	37	315	< 1	10	117	3220	0.71	41	< 10	38	< 0.5	< 2	0.39	6
1324026059	25.3	10.5	-14.8	28.2	0.372	8.61	665	0.3	< 0.5	97	353	2	13	3	36	2.89	11	< 10	22	< 0.5	< 2	0.91	10
F001586							756	4.7	< 0.5	29	229	< 1	8	12	39	1.15	< 2	< 10	39	< 0.5	< 2	0.66	8
1230065231	17.1	44.0	26.9	21.4	2.05	9.30	16	0.3	< 0.5	23	1050	< 1	14	10	57	2.57	5	< 10	52	< 0.5	< 2	2.43	7
1230065063	37.1	43.0	5.88	42.9	1.00	9.03	24	0.7	< 0.5	25	558	< 1	11	5	68	0.97	26	< 10	42	< 0.5	< 2	1.83	7
1230065188	0.938	63.6	62.7	0.919	69.2	9.51	< 5	< 0.2	< 0.5	8	310	< 1	13	3	63	1.65	4	< 10	64	< 0.5	< 2	2.98	7
1230065062	7.39	35.0	27.6	11.0	3.17	9.36	42	0.3	< 0.5	23	440	< 1	13	3	69	1.18	9	< 10	65	< 0.5	< 2	1.60	7
1324026022	40.8	9.62	-31.2	44.4	0.217	8.82	131	0.9	< 0.5	56	337	< 1	9	4	136	1.78	21	< 10	37	< 0.5	< 2	0.49	8
GC20-0954-001							163	0.4	< 0.5	10	422	< 1	10	9	48	2.42	23	< 10	23	< 0.5	< 2	1.27	7
1230065236	53.2	34.9	-18.4	57.9	0.602	8.67	83	2.2	0.8	24	1290	8	19	24	275	2.43	38	< 10	37	< 0.5	< 2	2.14	9
1323006118	53.8	12.2	-41.6	65.8	0.185	8.52	448	0.9	< 0.5	115	507	3	18	3	118	1.43	8	< 10	28	< 0.5	< 2	1.07	10
1323006279	50.8	9.35	-41.5	55.7	0.168	8.23	590	1.3	< 0.5	232	494	3	15	3	56	2.85	9	< 10	31	< 0.5	< 2	1.36	9
GC20-0953-005							88	0.4	< 0.5	13	570	< 1	12	5	77	1.92	6	< 10	22	< 0.5	< 2	0.79	9
1323006121	49.6	25.1	-24.5	53.9	0.465	8.59	214	0.8	0.7	107	569	3	13	6	263	1.87	18	< 10	35	< 0.5	< 2	1.59	8
1230065233	50.2	34.7	-15.5	54.8	0.634	8.80	121	2.9	1.4	35	1170	< 1	19	30	340	1.93	43	< 10	35	< 0.5	< 2	1.89	9
1323006068	24.8	15.2	-9.56	35.2	0.432	8.62	523	0.6	0.9	114	640	3	19	2	301	2.04	3	< 10	50	< 0.5	< 2	1.25	8
1324026039	48.1	8.34	-39.8	52.7	0.158	8.66	202	1.0	< 0.5	87	264	1	14	2	97	1.74	17	< 10	40	< 0.5	< 2	0.62	12
1323006133	62.4	21.8	-40.6	68.3	0.319	8.46	346	0.7	< 0.5	116	526	3	17	3	121	1.36	11	< 10	28	< 0.5	< 2	1.31	10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0303-021	111	2.85	< 10	< 1	0.23	12	1.68	0.097	0.035	1.56	< 2	< 1	52	0.02	4	< 2	< 10	9	< 10	3	16		
GC20-0303-007	106	3.40	< 10	< 1	0.20	14	1.42	0.073	0.039	2.11	< 2	1	21	0.04	4	< 2	< 10	13	< 10	3	18		
1323005033	234	2.61	< 10	< 1	0.12	16	1.04	0.235	0.043	2.50	2	< 1	123	< 0.01	2	< 2	< 10	9	< 10	2	16	0.33	2.36
1323005001	137	3.04	< 10	< 1	0.12	16	1.25	0.110	0.047	2.83	< 2	1	92	< 0.01	< 1	< 2	< 10	11	167	3	20	0.18	2.58
1230062003	164	2.03	< 10	< 1	0.22	14	0.54	0.017	0.040	1.44	< 2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	1	6	0.60	1.28
1432197120	93	8.50	10	2	0.20	< 10	1.68	0.247	0.106	1.14	4	16	54	0.15	< 1	< 2	< 10	142	15	17	7	0.27	1.25
1323005014	187	3.45	< 10	< 1	0.14	14	0.96	0.177	0.039	2.86	< 2	< 1	92	< 0.01	< 1	< 2	< 10	10	< 10	3	17	0.25	2.63
GC20-0298-009FD	108	4.05	< 10	< 1	0.17	13	1.30	0.120	0.041	2.26	< 2	2	54	0.01	2	< 2	< 10	19	< 10	5	16		
GC20-0297-013	116	3.16	< 10	< 1	0.22	13	1.24	0.120	0.050	2.18	3	2	52	0.03	2	< 2	< 10	20	< 10	6	10		
GC20-0297-001	160	3.79	< 10	< 1	0.22	10	0.77	0.059	0.066	3.63	< 2	< 1	26	< 0.01	11	< 2	< 10	9	< 10	3	19		
GC20-0302-017	128	7.16	< 10	< 1	0.17	10	2.81	0.027	0.056	5.42	4	5	14	< 0.01	2	< 2	< 10	61	< 10	9	20		
1432097253	1040	4.35	< 10	< 1	0.39	< 10	4.33	0.084	0.038	0.34	7	4	44	0.09	7	< 2	< 10	64	< 10	3	3	0.31	0.38
1230062021	212	1.80	< 10	< 1	0.30	11	0.30	0.011	0.042	1.84	5	< 1	76	< 0.01	< 1	< 2	< 10	4	< 10	2	7	0.68	1.63
1323006245	205	2.94	< 10	< 1	0.16	14	0.83	0.160	0.040	2.13	3	< 1	94	< 0.01	5	< 2	< 10	10	< 10	3	12	0.26	2.04
1323006181	257	2.59	< 10	< 1	0.23	12	0.68	0.255	0.037	1.91	2	1	154	0.05	< 1	< 2	< 10	16	< 10	3	14	0.33	1.81
1432097043	834	3.90	< 10	< 1	0.22	10	3.48	0.057	0.039	0.50	6	3	51	0.05	4	< 2	< 10	54	< 10	3	5	0.51	0.53
1323006144	275	2.72	< 10	< 1	0.27	13	0.70	0.097	0.039	2.19	< 2	1	36	0.05	< 1	< 2	< 10	15	< 10	3	17	0.35	2.08
1323006159	240	2.45	< 10	< 1	0.26	14	0.70	0.268	0.042	1.84	2	1	98	0.03	< 1	< 2	< 10	14	< 10	3	7	0.28	1.76
1230065215	132	2.76	< 10	< 1	0.49	14	1.51	0.186	0.039	2.56	5	2	41	0.02	< 1	< 2	< 10	20	< 10	3	16	0.59	2.50
1230065091	289	2.04	< 10	< 1	0.45	13	0.69	0.093	0.040	0.46	2	2	38	0.09	< 1	< 2	< 10	23	< 10	3	9	0.61	0.41
1333096191	192	2.80	< 10	< 1	0.27	12	0.94	0.232	0.038	1.09	< 2	2	103	0.07	< 1	< 2	< 10	26	< 10	4	5	0.31	0.97
1323006195	219	2.66	< 10	< 1	0.22	13	0.72	0.232	0.039	1.85	3	1	115	0.04	< 1	< 2	< 10	16	< 10	3	12	0.25	1.71
F001539	14	1.93	< 10	< 1	0.25	12	0.50	0.195	0.048	0.05	< 2	3	28	0.25	7	< 2	< 10	57	< 10	18	12		
1230062213	159	1.55	< 10	< 1	0.22	14	0.09	0.011	0.041	1.54	4	< 1	21	< 0.01	1	< 2	< 10	3	< 10	2	8	0.15	1.43
1324024097	165	3.14	< 10	< 1	0.19	12	1.34	0.037	0.037	0.79	2	< 1	25	< 0.01	< 1	< 2	< 10	12	< 10	1	6	0.33	0.76
1324024027	200	2.27	< 10	< 1	0.19	13	0.85	0.110	0.037	1.44	3	1	51	< 0.01	2	< 2	< 10	12	< 10	2	9	0.48	1.31
1322001016	187	2.71	< 10	< 1	0.21	17	1.04	0.178	0.045	2.43	< 2	1	50	0.03	< 1	< 2	< 10	12	< 10	3	13	0.33	2.19
1230061058	107	1.23	< 10	< 1	0.23	18	0.34	0.022	0.044	1.12	3	< 1	22	< 0.01	< 1	< 2	< 10	4	< 10	2	6	0.66	0.94
GC20-0287-005	109	5.17	< 10	< 1	0.20	13	0.73	0.023	0.042	5.63	3	< 1	6	< 0.01	< 1	< 2	< 10	7	< 10	1	11		
1230062230	134	2.37	< 10	< 1	0.25	11	0.09	0.022	0.042	2.61	2	< 1	17	0.01	< 1	< 2	< 10	7	< 10	2	13	0.19	2.37
GC20-0292-011	106	1.54	< 10	< 1	0.35	15	0.42	0.107	0.040	1.16	< 2	< 1	56	0.01	< 1	< 2	< 10	6	< 10	2	7		
GC20-0290-011	102	1.94	< 10	1	0.30	17	0.88	0.182	0.037	0.43	3	1	69	0.07	3	< 2	< 10	15	< 10	2	4		
1323005043	170	2.13	< 10	< 1	0.10	13	0.87	0.167	0.040	2.20	3	< 1	98	< 0.01	2	< 2	< 10	8	< 10	3	11	0.29	2.10
GC20-285-001	125	1.51	< 10	< 1	0.21	13	0.37	0.022	0.041	1.34	2	< 1	18	< 0.01	< 1	< 2	< 10	3	< 10	2	5		
GC20-0284-001	122	2.31	< 10	< 1	0.22	16	0.42	0.024	0.045	1.08	< 2	< 1	11	< 0.01	< 1	< 2	< 10	6	16	1	5		
1324024001	159	2.47	< 10	< 1	0.14	14	1.07	0.186	0.036	0.73	3	1	145	< 0.01	< 1	< 2	< 10	13	< 10	3	7	0.20	0.68
1324024019	159	3.94	< 10	< 1	0.43	49	1.63	0.048	0.142	1.05	3	6	92	0.10	3	< 2	< 10	59	< 10	5	6	0.62	0.99
1324027038	347	2.76	< 10	< 1	0.26	17	1.98	0.084	0.058	1.29	3	4	84	0.03	< 1	< 2	< 10	31	< 10	4	4	0.81	1.31
1230062144	142	1.51	< 10	< 1	0.29	13	0.20	0.013	0.042	1.57	3	< 1	78	< 0.01	1	< 2	< 10	4	< 10	2	6	0.57	1.37
1324027018	200	2.17	< 10	< 1	0.21	13	0.59	0.117	0.040	1.95	< 2	< 1	41	0.01	< 1	< 2	< 10	9	< 10	2	15	0.19	1.90
1324027125	158	2.57	< 10	< 1	0.17	11	1.30	0.144	0.038	1.40	3	< 1	50	0.01	< 1	< 2	< 10	11	< 10	2	13	0.17	1.33
1324027011	112	2.47	< 10	< 1	0.16	13	0.62	0.110	0.038	2.24	2	< 1	39	< 0.01	1	< 2	< 10	7	< 10	2	17	0.22	2.11
1323005026	219	2.67	< 10	< 1	0.12	17	1.22	0.228	0.045	2.35	3	1	147	< 0.01	< 1	< 2	< 10	12	< 10	3	11	0.37	2.25
1324027005	211	2.44	< 10	< 1	0.18	18	0.83	0.096	0.059	1.93	3	1	49	< 0.01	< 1	< 2	< 10	12	< 10	2	4	0.18	1.76
1324027003	202	2.17	< 10	< 1	0.19	13	0.78	0.094	0.039	1.68	< 2	< 1	36	0.02	1	< 2	< 10	10	< 10	2	9	0.20	1.60
F001635	14	1.94	< 10	< 1	0.26	12	0.50	0.196	0.048	0.05	< 2	3	28	0.25	4	< 2	< 10	57	< 10	17	10		
1230061038	122	5.17	< 10	2	0.19	16	1.28	0.018	0.123	5.44	4	< 1	6	< 0.01	< 1	< 2	< 10	10	< 10	2	10	0.08	5.00
GC20-0277-007	118	1.43	< 10	< 1	0.27	14	0.46	0.026	0.039	1.10	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	5		
1324028034	277	2.55	< 10	< 1	0.19	20	1.22	0.117	0.056	1.54	3	2	79	< 0.01	< 1	< 2	< 10	17	< 10	3	5	0.69	1.45
1324028071	274	2.47	< 10	< 1	0.17	18	1.32	0.099	0.056	1.12	3	2	52	< 0.01	< 1	< 2	< 10	13	< 10	3	4	0.62	0.96

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1322001004	167	2.86	< 10	< 1	0.19	19	1.20	0.161	0.046	2.59	< 2	1	60	0.01	1	< 2	< 10	12	< 10	4	16	0.29	2.44
1324022008	125	2.01	< 10	< 1	0.22	14	1.26	0.054	0.041	1.95	2	< 1	31	< 0.01	1	< 2	< 10	6	< 10	2	12	0.24	1.88
1230060515	89	2.37	< 10	< 1	0.36	18	1.06	0.014	0.053	2.31	3	< 1	8	0.01	< 1	< 2	< 10	11	< 10	2	12	0.12	2.23
1324022058	170	2.66	< 10	< 1	0.20	11	0.88	0.123	0.035	1.62	2	< 1	94	0.01	2	< 2	< 10	10	< 10	2	12	0.20	1.61
GC20-0278-001	121	1.91	< 10	< 1	0.20	16	0.47	0.020	0.045	1.38	< 2	< 1	12	< 0.01	< 1	< 2	< 10	4	< 10	1	7		
GC20-0276-013	97	1.65	< 10	< 1	0.13	< 10	0.64	0.081	0.032	0.16	< 2	< 1	57	< 0.01	3	< 2	< 10	12	< 10	2	4		
1324022043	197	2.18	< 10	< 1	0.15	13	0.77	0.096	0.039	1.62	< 2	1	55	< 0.01	< 1	< 2	< 10	13	< 10	2	11	0.16	1.27
1324022013	179	2.10	< 10	< 1	0.20	13	1.17	0.098	0.040	1.57	2	< 1	79	< 0.01	< 1	< 2	< 10	10	< 10	2	9	0.05	0.16
GC20-0281-002	135	1.43	< 10	< 1	0.26	16	0.47	0.022	0.047	0.94	< 2	< 1	14	< 0.01	< 1	< 2	< 10	6	< 10	1	6		
GC20-0283-002	87	2.30	< 10	< 1	0.23	23	0.88	0.034	0.055	0.96	< 2	2	28	0.05	< 1	< 2	< 10	20	< 10	3	4		
1230060128	178	2.14	< 10	< 1	0.23	17	0.69	0.052	0.049	1.18	< 2	1	42	0.03	< 1	< 2	< 10	13	< 10	2	6	0.27	1.14
1324024109	168	3.37	< 10	< 1	0.19	12	1.12	0.039	0.036	0.73	< 2	< 1	24	< 0.01	5	< 2	< 10	11	< 10	2	6	0.31	0.73
1324024099	150	3.27	< 10	< 1	0.17	< 10	1.16	0.057	0.040	0.90	3	1	48	< 0.01	< 1	< 2	< 10	14	< 10	1	6	0.19	0.86
1324024020	199	3.92	< 10	< 1	0.22	36	1.45	0.041	0.132	1.14	< 2	5	50	0.06	4	< 2	< 10	56	< 10	5	5	0.71	1.12
F001582	12	1.49	< 10	< 1	0.21	16	0.36	0.192	0.039	0.04	< 2	2	32	0.22	< 1	< 2	< 10	35	< 10	16	12		
1324022093	166	2.47	< 10	< 1	0.21	13	0.76	0.192	0.037	1.65	< 2	1	101	0.03	< 1	< 2	< 10	13	< 10	2	10	0.35	1.52
1333096282	181	3.51	10	< 1	0.63	36	1.75	0.309	0.094	0.74	2	4	224	0.14	< 1	< 2	< 10	67	< 10	6	21	0.61	0.75
1333098144	189	2.40	< 10	< 1	0.21	19	1.02	0.124	0.043	0.58	2	2	61	0.08	< 1	< 2	< 10	24	< 10	4	6	0.45	0.57
1432097036	202	2.42	< 10	< 1	0.24	12	0.84	0.173	0.040	0.35	< 2	2	135	0.09	1	< 2	< 10	32	< 10	4	7	0.34	0.36
1324024071	160	3.80	< 10	< 1	0.25	< 10	1.36	0.054	0.048	0.94	3	6	43	0.12	< 1	< 2	< 10	76	< 10	5	9	0.43	0.90
1324028011	154	2.77	< 10	< 1	0.26	14	1.21	0.169	0.048	1.29	< 2	2	54	0.05	< 1	< 2	< 10	24	< 10	4	9	0.27	1.29
GC20-0273-021	77	1.73	< 10	< 1	0.40	16	1.14	0.210	0.037	0.31	< 2	1	60	0.05	< 1	< 2	< 10	13	< 10	2	4		
GC20-0268-011	97	4.57	< 10	< 1	0.22	17	1.25	0.018	0.047	4.81	4	< 1	7	< 0.01	2	< 2	< 10	8	< 10	1	10		
GC20-0275-009	124	1.68	< 10	< 1	0.43	16	0.79	0.301	0.036	0.34	< 2	1	82	0.07	< 1	< 2	< 10	15	< 10	3	4		
GC20-0277-013	91	1.71	< 10	< 1	0.26	16	0.23	0.033	0.039	1.52	13	< 1	22	< 0.01	< 1	< 2	< 10	4	< 10	2	8		
1324028093	184	2.62	< 10	< 1	0.25	< 10	0.86	0.174	0.059	1.82	2	3	55	0.03	< 1	< 2	< 10	40	< 10	6	8	0.41	0.30
1323005096	174	2.76	< 10	< 1	0.15	18	1.06	0.068	0.047	2.68	5	< 1	55	< 0.01	2	< 2	< 10	8	< 10	2	15	0.24	2.54
1324028043	160	2.41	< 10	< 1	0.46	13	1.08	0.306	0.047	1.13	< 2	2	83	0.08	< 1	< 2	< 10	31	< 10	5	6	0.26	1.01
1322001026	192	2.60	< 10	< 1	0.20	15	0.77	0.194	0.042	2.15	< 2	1	88	0.05	< 1	< 2	< 10	17	< 10	3	13	0.32	2.06
1324027070	194	2.31	< 10	< 1	0.18	13	0.99	0.149	0.038	1.77	2	< 1	49	0.02	< 1	< 2	< 10	12	< 10	2	15	0.23	1.68
1230062039	108	1.44	< 10	< 1	0.22	14	0.41	0.014	0.039	1.12	2	< 1	27	< 0.01	2	< 2	< 10	4	< 10	1	6	0.65	0.92
1324027071	191	2.29	< 10	< 1	0.18	13	0.91	0.126	0.039	1.76	3	< 1	44	0.01	2	< 2	< 10	10	< 10	2	13	0.22	1.63
1333096113	158	3.55	< 10	< 1	0.29	16	1.26	0.263	0.049	1.18	3	4	143	0.13	< 1	< 2	< 10	69	< 10	5	15	0.29	1.15
F001540																							
GC20-0942-013	125	2.51	< 10	< 1	0.30	11	0.03	0.012	0.043	2.83	< 2	< 1	35	< 0.01	< 1	< 2	< 10	4	< 10	2	23		
1324021018	252	2.18	< 10	< 1	0.13	15	0.96	0.109	0.041	1.42	3	< 1	49	< 0.01	3	< 2	< 10	10	< 10	2	9	0.24	1.34
1324021001	286	2.42	< 10	< 1	0.18	23	1.41	0.145	0.076	1.11	4	2	70	0.01	< 1	< 2	< 10	18	< 10	3	2	0.50	1.09
1324028077	188	3.09	< 10	< 1	0.21	16	0.82	0.153	0.046	2.55	2	< 1	63	< 0.01	< 1	< 2	< 10	10	< 10	3	13	0.48	2.33
1324024085	258	2.32	< 10	< 1	0.15	13	0.87	0.148	0.036	1.33	3	1	56	< 0.01	2	< 2	< 10	12	< 10	2	7	0.34	1.28
1324027025	223	2.81	< 10	< 1	0.22	12	0.94	0.062	0.043	2.23	2	1	32	< 0.01	3	< 2	< 10	12	< 10	2	13	0.44	1.99
1324022100	321	2.23	< 10	< 1	0.23	11	1.00	0.075	0.037	1.17	3	2	39	0.01	< 1	< 2	< 10	16	< 10	2	8	0.41	1.08
1324022087	184	2.90	< 10	< 1	0.21	13	0.86	0.103	0.039	1.70	2	< 1	78	0.03	< 1	< 2	< 10	10	< 10	3	10	0.25	1.57
1324021105	140	2.49	< 10	< 1	0.16	13	2.04	0.080	0.037	1.58	3	< 1	34	< 0.01	2	< 2	< 10	8	< 10	2	13	0.21	1.51
1333096065	137	3.75	< 10	< 1	0.09	< 10	1.34	0.550	0.023	0.23	3	5	56	0.17	< 1	< 2	< 10	114	< 10	5	5	0.20	0.26
1333096003	158	1.81	< 10	< 1	0.20	13	0.72	0.182	0.034	0.47	< 2	1	80	0.07	< 1	< 2	< 10	16	< 10	2	5	0.24	0.47
1333096024	136	2.23	< 10	< 1	0.28	16	1.00	0.184	0.040	0.70	< 2	2	90	0.06	< 1	< 2	< 10	24	< 10	3	4	0.49	0.71
1324027031	313	6.40	< 10	< 1	0.28	12	1.89	0.104	0.069	5.78	4	8	83	0.05	< 1	< 2	< 10	88	< 10	8	18	0.58	5.87
1324027028	193	4.12	< 10	< 1	0.22	10	0.90	0.067	0.049	4.03	3	2	38	< 0.01	< 1	< 2	< 10	17	< 10	5	22	0.33	3.68
1333096096	145	2.74	< 10	< 1	0.24	21	1.08	0.103	0.049	0.38	2	2	51	0.08	< 1	< 2	< 10	28	< 10	5	4	0.11	0.39
1230062084	179	1.71	< 10	< 1	0.33	15	0.52	0.059	0.039	1.18	3	< 1	66	0.02	< 1	< 2	< 10	14	< 10	2	7	0.92	1.00
1230062148	161	2.28	< 10	< 1	0.27	< 10	0.15	0.013	0.038	2.57	4	< 1	42	< 0.01	< 1	< 2	< 10	3	< 10	2	11	0.66	2.30

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230062203	137	1.49	< 10	< 1	0.27	14	0.46	0.015	0.043	1.42	< 2	< 1	43	< 0.01	< 1	< 2	< 10	4	< 10	2	6	0.84	1.28
F001579	11	1.96	< 10	< 1	0.24	11	0.42	0.212	0.034	0.03	< 2	2	29	0.33	8	< 2	< 10	46	< 10	16	14		
1324026001	161	2.09	< 10	< 1	0.13	15	0.84	0.080	0.038	0.60	2	< 1	78	< 0.01	< 1	< 2	< 10	11	< 10	2	8	0.25	0.60
1324026074	127	3.64	< 10	< 1	0.16	11	1.10	0.060	0.037	1.27	3	1	57	< 0.01	< 1	< 2	< 10	19	< 10	1	10	0.11	1.26
GC20-0898-017	171	2.45	< 10	< 1	0.32	12	0.05	0.010	0.038	2.68	2	< 1	38	< 0.01	< 1	< 2	< 10	5	< 10	2	24		
1323007124	164	2.85	< 10	< 1	0.18	16	1.46	0.101	0.043	2.42	< 2	< 1	28	< 0.01	2	< 2	< 10	11	< 10	3	15	0.24	2.38
1323006259	129	3.09	< 10	< 1	0.19	13	0.72	0.234	0.038	2.28	3	< 1	103	< 0.01	< 1	< 2	< 10	10	< 10	3	16	0.09	2.23
1323006021	215	2.84	< 10	< 1	0.16	18	1.04	0.180	0.048	2.20	2	2	62	0.05	< 1	< 2	< 10	26	< 10	4	13	0.24	2.16
1230064272	126	1.44	< 10	< 1	0.25	16	0.44	0.018	0.041	0.96	< 2	< 1	12	< 0.01	< 1	< 2	< 10	5	< 10	2	6	0.21	0.84
1230065108	218	1.88	< 10	< 1	0.23	14	0.62	0.048	0.041	1.19	2	1	28	0.02	< 1	< 2	< 10	11	< 10	2	11	0.24	1.10
GC20-0957-010	107	1.44	< 10	< 1	0.28	16	0.35	0.154	0.041	1.34	< 2	< 1	83	< 0.01	< 1	< 2	< 10	6	< 10	3	6		
GC20-0305-004	120	2.44	< 10	< 1	0.16	13	1.29	0.114	0.036	0.84	< 2	1	89	0.01	3	< 2	< 10	14	< 10	2	10		
1230065095	270	2.09	< 10	< 1	0.60	17	0.88	0.076	0.039	0.12	< 2	2	39	0.12	< 1	< 2	< 10	25	< 10	2	8	0.67	1.24
GC20-0958-001	237	1.38	< 10	< 1	0.64	15	0.28	0.081	0.038	1.16	3	1	34	0.02	< 1	< 2	< 10	10	< 10	2	9		
GC20-0955-001	132	2.54	< 10	< 1	0.18	15	1.07	0.150	0.039	2.28	3	< 1	148	< 0.01	3	< 2	< 10	8	< 10	3	17		
1230064345	141	1.35	< 10	< 1	0.26	13	0.20	0.015	0.040	1.30	< 2	< 1	30	< 0.01	4	< 2	< 10	3	< 10	2	6	0.66	1.19
GC20-0955-004	130	2.81	< 10	< 1	0.18	14	1.07	0.155	0.038	2.74	2	< 1	127	< 0.01	< 1	< 2	< 10	7	< 10	3	19		
1230065036	312	1.78	< 10	< 1	0.18	16	0.58	0.057	0.045	0.11	3	2	30	0.08	1	< 2	< 10	20	< 10	3	8	0.36	0.10
1323006007	257	2.43	< 10	< 1	0.26	13	0.77	0.134	0.039	1.80	3	1	70	0.06	< 1	< 2	< 10	16	< 10	3	17	0.24	1.68
1323006086	204	2.62	< 10	< 1	0.20	13	0.66	0.196	0.040	2.28	< 2	1	69	0.04	< 1	< 2	< 10	13	< 10	3	17	0.27	2.13
GC20-0955-010	113	2.75	< 10	< 1	0.20	15	1.05	0.150	0.040	2.56	< 2	1	110	< 0.01	3	< 2	< 10	10	< 10	3	22		
GC20-0885-023	135	1.09	< 10	< 1	0.27	18	0.17	0.018	0.036	1.13	3	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	< 1	10		
1324026059	146	3.34	< 10	< 1	0.15	13	1.06	0.100	0.036	0.96	3	2	71	< 0.01	< 1	< 2	< 10	19	< 10	3	12	0.18	0.92
F001586	11	1.98	< 10	< 1	0.24	12	0.42	0.213	0.035	0.03	< 2	2	29	0.34	< 1	< 2	< 10	47	< 10	16	20		
1230065231	191	1.80	< 10	< 1	0.38	14	1.30	0.264	0.038	0.71	3	2	109	0.04	< 1	< 2	< 10	18	< 10	2	7	0.60	0.70
1230065063	220	2.11	< 10	< 1	0.20	13	0.60	0.054	0.039	1.53	< 2	< 1	21	< 0.01	< 1	< 2	< 10	12	< 10	2	12	0.56	1.40
1230065188	191	1.88	< 10	< 1	0.30	17	0.83	0.080	0.041	0.03	< 2	1	76	0.09	< 1	< 2	< 10	18	< 10	2	6	0.80	0.03
1230065062	188	1.87	< 10	< 1	0.36	12	0.64	0.067	0.037	0.51	2	2	25	0.07	< 1	< 2	< 10	19	< 10	3	12	0.40	0.36
1324026022	100	2.53	< 10	< 1	0.23	11	1.39	0.035	0.035	1.57	< 2	< 1	21	< 0.01	< 1	< 2	< 10	9	< 10	2	19	0.16	1.45
GC20-0954-001	155	4.00	< 10	< 1	0.20	13	1.10	0.087	0.039	3.73	3	< 1	84	0.01	< 1	< 2	< 10	9	< 10	2	25		
1230065236	196	2.32	< 10	< 1	0.55	18	1.22	0.234	0.047	2.02	< 2	1	68	0.04	< 1	< 2	< 10	16	< 10	3	6	0.49	1.89
1323006118	289	2.77	< 10	< 1	0.20	13	0.73	0.067	0.039	2.24	2	1	29	0.05	2	< 2	< 10	17	< 10	3	18	0.31	2.15
1323006279	285	3.24	< 10	< 1	0.17	13	0.88	0.297	0.038	1.92	4	1	118	< 0.01	4	< 2	< 10	13	< 10	3	13	0.38	1.82
GC20-0953-005	113	3.66	< 10	< 1	0.19	15	1.26	0.076	0.041	3.46	2	< 1	60	0.02	< 1	< 2	< 10	8	< 10	3	22		
1323006121	208	2.46	< 10	< 1	0.23	12	0.73	0.180	0.038	1.90	3	< 1	71	0.02	< 1	< 2	< 10	12	< 10	3	15	0.35	1.76
1230065233	164	2.27	< 10	< 1	0.35	18	1.04	0.179	0.047	1.84	< 2	1	68	0.03	< 1	< 2	< 10	15	< 10	3	7	0.47	1.79
1323006068	315	2.40	< 10	< 1	0.18	13	0.90	0.201	0.038	1.23	2	1	74	0.04	< 1	< 2	< 10	18	< 10	3	12	0.31	1.15
1324026039	176	3.10	< 10	< 1	0.25	13	1.41	0.018	0.040	1.90	3	1	20	0.05	1	< 2	< 10	14	< 10	3	19	0.18	1.72
1323006133	253	2.94	< 10	< 1	0.24	13	0.71	0.074	0.038	2.43	2	1	28	0.05	< 1	< 2	< 10	17	< 10	3	18	0.36	2.23

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	64	1020	1	23	91	122	6.75	209	< 10	837	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.2	< 0.5	64	1000	< 1	23	91	118	6.74	196	< 10	849	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	64	1040	< 1	23	92	120	6.76	218	< 10	869	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1090	1	26	98	125	7.26	225	< 10	772	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1080	1	25	96	125	7.07	228	< 10	785	0.9	3	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.62																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.57																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.18																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.60																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.28																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz)		46.6																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							2960																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							515																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							519																
Oreas E1336 (Fire Assay) Cert							510																
1230062003 Orig								3.4	2.5	22	1080	< 1	12	228	609	1.00	53	< 10	25	< 0.5	< 2	1.91	8
1230062003 Dup								3.5	2.3	23	1060	< 1	11	223	589	0.97	52	< 10	25	< 0.5	3	1.88	8
1432197120 Orig						8.67																	
1432197120 Dup						8.65																	
GC20-0297-013 Orig							135																
GC20-0297-013 Dup							129																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1432097043 Orig																							
1432097043 Dup																							
1230065215 Orig							659																
1230065215 Dup							664																
1333096191 Orig								0.3	1.0	40	571	1	23	5	321	2.79	13	< 10	46	< 0.5	< 2	1.97	13
1333096191 Dup								0.3	1.0	37	566	2	24	5	328	2.77	9	< 10	46	< 0.5	< 2	1.95	13
1230062213 Orig	38.9	2.86	-36.1	43.8	0.0654																		
1230062213 Dup	38.9	2.87	-36.1	43.8	0.0656																		
1230061058 Orig																							
1230061058 Dup																							
1230062230 Orig							115																
1230062230 Dup							108																
GC20-0284-001 Orig								0.9	0.8	17	3610	< 1	9	21	226	0.87	47	< 10	23	< 0.5	< 2	0.47	8
GC20-0284-001 Dup								0.8	0.8	17	3660	< 1	8	21	232	0.89	48	< 10	23	< 0.5	< 2	0.48	8
1323005026 Orig																							
1323005026 Dup																							
1324027005 Orig							100																
1324027005 Dup							97																
GC20-0277-007 Orig								0.5	< 0.5	17	575	< 1	10	9	84	0.88	55	< 10	35	< 0.5	< 2	2.00	7
GC20-0277-007 Dup								0.4	< 0.5	17	585	< 1	12	8	82	0.87	55	< 10	35	< 0.5	< 2	2.02	7
1324022058 Orig							476																
1324022058 Dup							419																
1324022013 Orig							182																
1324022013 Dup							177																
1324024109 Orig								< 0.2	< 0.5	51	342	1	10	3	59	1.97	6	< 10	38	< 0.5	< 2	0.75	7
1324024109 Dup								0.2	< 0.5	54	352	1	11	3	61	2.01	5	< 10	39	< 0.5	< 2	0.76	7
1324028011 Orig																							
1324028011 Dup																							
1324028043 Orig	27.3	16.1	-11.2	30.9	0.520																		
1324028043 Dup	27.3	16.1	-11.2	30.9	0.520																		
1322001026 Orig							116																
1322001026 Dup							132																
1324027070 Orig							115																
1324027070 Dup							110																
GC20-0942-013 Orig								1.1	1.0	6	122	< 1	13	18	229	0.51	27	< 10	23	< 0.5	< 2	0.41	10
GC20-0942-013 Dup								1.1	1.0	6	124	< 1	14	17	234	0.50	27	< 10	20	< 0.5	< 2	0.42	10
1324021018 Orig							50	0.2	< 0.5	78	251	< 1	14	< 2	60	1.61	3	< 10	36	< 0.5	< 2	0.64	7
1324021018 Dup							45	0.3	< 0.5	77	258	< 1	14	< 2	60	1.65	4	< 10	36	< 0.5	< 2	0.65	7
1324028077 Orig																							
1324028077 Dup																							
1324024085 Orig							1920																
1324024085 Dup							1660																
1324021105 Orig							36																
1324021105 Dup							38																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1324027028 Orig																							
1324027028 Dup																							
1333096096 Orig						8.77		< 0.2	< 0.5	39	447	< 1	12	7	115	2.37	6	< 10	51	< 0.5	< 2	1.05	11
1333096096 Dup						8.77		< 0.2	< 0.5	38	449	< 1	14	7	109	2.39	7	< 10	52	< 0.5	< 2	1.06	11
1230065108 Orig																							
1230065108 Dup																							
GC20-0957-010 Orig								1.6	< 0.5	30	1130	1	11	8	59	1.41	32	< 10	40	< 0.5	< 2	2.60	7
GC20-0957-010 Dup								1.8	< 0.5	29	1140	1	10	8	62	1.36	31	< 10	39	< 0.5	< 2	2.61	7
1230065095 Orig							5																
1230065095 Dup							< 5																
1324026059 Orig							714																
1324026059 Dup							615																
1230065231 Orig								0.3	< 0.5	23	1050	< 1	14	10	58	2.57	6	< 10	52	< 0.5	< 2	2.43	7
1230065231 Dup								0.4	< 0.5	23	1060	2	14	9	56	2.56	5	< 10	52	< 0.5	< 2	2.44	7
1230065188 Orig	0.938	63.6	62.7	0.919	69.2		< 5																
1230065188 Dup	0.938	63.6	62.7	0.919	69.2		< 5																
1230065062 Orig																							
1230065062 Dup																							
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							5																
Method Blank							< 5																
Method Blank							6																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	5.22	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		3	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	74	5.27	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		< 1	< 2	< 10	157	< 10	7	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.31	20	< 1	1.11	11	0.38	0.079	0.032	0.01	5	24	33		< 1	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	6.03	20	2	1.13	< 10	0.40	0.143	0.034	0.01	5	19	29		< 1	< 2	< 10	171	< 10	5	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.94	20	3	1.15	< 10	0.40	0.141	0.034	0.01	4	19	29		< 1	2	< 10	172	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
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BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.05	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1230062003 Orig	163	2.03	< 10	< 1	0.22	14	0.54	0.017	0.040	1.48	3	< 1	20	< 0.01	4	< 2	< 10	5	< 10	1	6		
1230062003 Dup	165	2.03	< 10	< 1	0.23	14	0.54	0.017	0.039	1.41	< 2	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	1	6		
1432197120 Orig																							
1432197120 Dup																							
GC20-0297-013 Orig																							
GC20-0297-013 Dup																							
1432097043 Orig																						0.51	0.51
1432097043 Dup																						0.51	0.54
1230065215 Orig																							
1230065215 Dup																							
1333096191 Orig	192	2.80	< 10	< 1	0.27	12	0.94	0.233	0.037	1.10	< 2	2	104	0.07	< 1	< 2	< 10	26	< 10	4	5		
1333096191 Dup	192	2.79	< 10	< 1	0.26	12	0.93	0.231	0.038	1.08	3	2	102	0.07	< 1	< 2	< 10	26	< 10	4	5		
1230062213 Orig																							
1230062213 Dup																							
1230061058 Orig																						0.66	0.92
1230061058 Dup																						0.67	0.95
1230062230 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230062230 Dup																							
GC20-0284-001 Orig	119	2.28	< 10	< 1	0.21	16	0.41	0.024	0.045	1.07	< 2	< 1	11	< 0.01	< 1	< 2	< 10	6	16	1	5		
GC20-0284-001 Dup	125	2.33	< 10	< 1	0.22	16	0.43	0.025	0.045	1.09	3	< 1	11	< 0.01	< 1	< 2	< 10	6	16	1	5		
1323005026 Orig																						0.38	2.25
1323005026 Dup																						0.37	2.25
1324027005 Orig																							
1324027005 Dup																							
GC20-0277-007 Orig	117	1.41	< 10	< 1	0.27	14	0.46	0.027	0.039	1.09	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	5		
GC20-0277-007 Dup	118	1.44	< 10	< 1	0.26	14	0.46	0.026	0.039	1.11	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	2	6		
1324022058 Orig																							
1324022058 Dup																							
1324022013 Orig																						0.05	0.16
1324022013 Dup																						0.05	0.16
1324024109 Orig	165	3.33	< 10	< 1	0.19	12	1.11	0.038	0.036	0.72	3	< 1	24	< 0.01	5	< 2	< 10	11	< 10	2	6		
1324024109 Dup	170	3.41	< 10	< 1	0.19	12	1.14	0.039	0.037	0.73	< 2	< 1	24	< 0.01	5	< 2	< 10	11	< 10	2	7		
1324028011 Orig																						0.27	1.30
1324028011 Dup																						0.27	1.28
1324028043 Orig																							
1324028043 Dup																							
1322001026 Orig																							
1322001026 Dup																							
1324027070 Orig																							
1324027070 Dup																							
GC20-0942-013 Orig	122	2.49	< 10	< 1	0.30	11	0.03	0.012	0.042	2.82	< 2	< 1	35	< 0.01	< 1	< 2	< 10	4	< 10	2	23		
GC20-0942-013 Dup	128	2.53	< 10	< 1	0.30	11	0.03	0.012	0.043	2.83	< 2	< 1	34	< 0.01	< 1	< 2	< 10	4	< 10	2	23		
1324021018 Orig	249	2.15	< 10	< 1	0.13	15	0.95	0.107	0.040	1.41	3	< 1	49	< 0.01	2	< 2	< 10	10	< 10	2	10		
1324021018 Dup	254	2.21	< 10	< 1	0.13	16	0.98	0.110	0.041	1.43	4	< 1	50	< 0.01	5	< 2	< 10	10	< 10	2	9		
1324028077 Orig																						0.48	2.36
1324028077 Dup																						0.48	2.31
1324024085 Orig																							
1324024085 Dup																							
1324021105 Orig																							
1324021105 Dup																							
1324027028 Orig																						0.33	3.73
1324027028 Dup																						0.33	3.63
1333096096 Orig	145	2.74	< 10	< 1	0.24	21	1.08	0.102	0.048	0.39	2	2	51	0.08	< 1	< 2	< 10	28	< 10	5	3		
1333096096 Dup	146	2.73	< 10	< 1	0.24	21	1.08	0.104	0.050	0.38	3	2	52	0.08	< 1	< 2	< 10	28	< 10	5	4		
1230065108 Orig																						0.24	1.10
1230065108 Dup																						0.25	1.10
GC20-0957-010 Orig	106	1.43	< 10	< 1	0.29	15	0.35	0.156	0.041	1.34	2	< 1	83	< 0.01	< 1	< 2	< 10	7	< 10	3	5		
GC20-0957-010 Dup	107	1.44	< 10	< 1	0.27	17	0.35	0.152	0.042	1.34	< 2	< 1	82	< 0.01	3	< 2	< 10	6	< 10	3	7		
1230065095 Orig																							
1230065095 Dup																							
1324026059 Orig																							
1324026059 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230065231 Orig	192	1.81	< 10	< 1	0.38	14	1.30	0.265	0.038	0.72	3	2	108	0.04	2	< 2	< 10	18	< 10	2	7		
1230065231 Dup	190	1.79	< 10	< 1	0.38	14	1.30	0.264	0.038	0.70	3	2	110	0.04	< 1	< 2	< 10	18	< 10	3	7		
1230065188 Orig																							
1230065188 Dup																							
1230065062 Orig																						0.36	0.24
1230065062 Dup																						0.45	0.48
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-12879**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-11-30 10:10:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-04 18:00:25

REPORT **A20-12879**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001577 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.:	**A20-12879**
Report Date:	**18-Dec-20**
Date Submitted:	**16-Oct-20**
Your Reference:	**2020 September Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-12-01 21:43:27
4F-C, S	Infrared	2020-11-20 22:14:09

REPORT **A20-12879**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F001577 was insufficient for further analysis

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323006165	61.4	12.5	-49.0	67.1	0.186	8.46	330	1.0	< 0.5	146	532	3	20	6	98	1.86	12	< 10	28	< 0.5	< 2	1.34	10
1230065160	1.66	46.7	45.0	7.35	6.35	9.25	20	0.5	< 0.5	92	640	< 1	15	4	125	1.35	7	< 10	82	< 0.5	< 2	2.03	9
1323006090	51.6	12.2	-39.3	57.0	0.215	8.56	152	0.7	1.0	95	539	2	13	11	311	1.96	11	< 10	28	< 0.5	< 2	1.15	9
GC20-0300-021							414	0.4	< 0.5	100	401	< 1	11	3	90	2.08	14	< 10	39	< 0.5	< 2	1.13	8
GC20-0299-001							269	1.1	< 0.5	126	601	< 1	11	11	175	2.56	22	< 10	41	< 0.5	3	1.04	6
1432097332	22.2	31.4	9.26	28.2	1.12	8.50	55	0.5	1.2	53	761	< 1	27	3	372	3.51	7	< 10	53	< 0.5	< 2	2.29	21
1432097108	33.1	31.9	-1.24	42.3	0.754	8.80	36	0.7	< 0.5	249	981	2	361	3	195	3.02	21	< 10	25	< 0.5	< 2	1.89	41
1230065088	12.2	32.5	20.3	15.3	2.12	9.33	11	< 0.2	< 0.5	28	512	1	12	3	68	1.27	8	< 10	76	< 0.5	< 2	1.51	7
F001583							3550	2.6	< 0.5	38	245	15	13	14	41	1.30	3	< 10	48	< 0.5	< 2	0.84	8
GC20-0209-017							1770	1.0	< 0.5	604	219	< 1	11	3	21	1.88	17	< 10	11	< 0.5	28	0.68	6
1323007245	58.1	7.38	-50.7	64.0	0.115	8.59	224	1.1	< 0.5	254	416	< 1	23	3	123	2.19	5	< 10	28	< 0.5	4	0.96	8
1323008243	36.3	15.8	-20.5	40.1	0.394	8.79	150	0.5	2.5	63	622	< 1	14	3	724	2.59	11	< 10	31	< 0.5	< 2	1.65	7
1323007217	61.7	10.3	-51.3	68.0	0.152	8.54	371	0.7	< 0.5	179	443	2	16	3	141	1.93	16	< 10	21	< 0.5	< 2	0.91	9
1323007273	54.0	13.6	-40.4	58.2	0.234	8.65	104	0.7	1.1	183	484	3	21	3	294	1.32	6	< 10	33	< 0.5	< 2	0.86	9
GC20-0209-016							387	0.5	< 0.5	125	213	< 1	16	2	28	2.51	8	< 10	42	< 0.5	< 2	0.92	8
1323016002	32.6	8.59	-24.0	36.1	0.238	8.40	136	0.8	< 0.5	21	748	< 1	15	8	147	2.00	9	< 10	30	< 0.5	< 2	1.42	9
1323016105	61.4	21.3	-40.2	67.1	0.317	8.76	34	0.5	1.4	31	475	2	16	6	396	2.25	7	< 10	30	< 0.5	< 2	1.50	8
GC20-0304-013							84	0.7	< 0.5	59	508	1	16	4	99	2.23	24	< 10	30	< 0.5	< 2	1.28	9
1323007227	55.4	11.0	-44.5	59.4	0.184	8.41	101	0.5	1.0	138	453	1	18	3	257	1.25	5	< 10	33	< 0.5	< 2	0.98	8
1323007254	88.5	8.98	-79.6	94.0	0.0955	8.26	125	0.3	< 0.5	21	505	< 1	16	3	90	1.95	8	< 10	22	< 0.5	< 2	0.86	9
1323007001	50.4	13.7	-36.7	54.5	0.252	8.40	112	0.5	0.8	36	557	< 1	12	3	252	1.99	16	< 10	38	< 0.5	< 2	1.19	8
GC20-0972-026							100	0.9	0.6	23	861	1	12	25	205	0.75	70	< 10	40	< 0.5	< 2	1.40	9
1432097239	11.4	36.1	24.7	17.5	2.07	8.88	7	0.3	< 0.5	82	604	< 1	74	2	107	3.44	4	< 10	41	< 0.5	< 2	2.67	33
1323007085	17.6	24.8	7.17	23.0	1.08	8.72	62	1.9	< 0.5	79	507	< 1	12	4	152	2.15	3	< 10	27	< 0.5	< 2	0.48	9
1432097097	20.8	33.4	12.6	25.7	1.30	8.97	23	0.3	1.8	46	836	< 1	18	9	485	1.95	30	< 10	47	< 0.5	< 2	1.47	11
1230064079	7.50	18.9	11.4	7.35	2.58	9.31	12	0.8	< 0.5	12	388	< 1	8	13	48	2.80	17	< 10	55	< 0.5	< 2	1.79	6
1230064040	32.6	60.5	27.9	41.0	1.47	8.83	82	5.1	5.7	35	1490	< 1	13	235	1510	1.38	102	< 10	34	< 0.5	< 2	2.71	7
1230064005	31.8	57.8	26.1	36.4	1.59	8.72	76	3.8	< 0.5	22	1340	< 1	15	25	111	1.12	56	< 10	39	< 0.5	< 2	2.50	7
1323007027	78.1	6.60	-71.5	84.8	0.0778	8.48	183	0.9	< 0.5	210	332	2	18	3	87	1.98	8	< 10	23	< 0.5	4	0.67	8
1323007150	57.8	6.37	-51.4	63.7	0.1000	8.41	769	1.4	2.7	151	424	< 1	12	2	721	2.09	6	< 10	27	< 0.5	4	0.95	7
1323007275	48.7	13.3	-35.4	53.6	0.249	8.66	152	0.7	< 0.5	109	480	3	19	2	146	1.54	7	< 10	30	< 0.5	< 2	1.10	9
1230064071	31.3	53.8	22.5	36.4	1.48	9.01	70	5.3	1.2	20	1200	1	12	142	328	0.84	67	< 10	32	< 0.5	< 2	2.34	7
1230064028	43.8	38.5	-5.29	53.0	0.728	8.69	54	4.1	1.2	15	885	< 1	20	91	320	1.42	74	< 10	26	< 0.5	< 2	1.98	9
1323007041	105	6.48	-98.8	115	0.0566	8.42	320	2.3	< 0.5	523	316	< 1	14	4	158	1.87	20	< 10	14	< 0.5	13	0.58	12
1230064147	31.8	15.0	-16.7	37.1	0.405	8.98	35	8.2	< 0.5	16	539	< 1	12	26	111	1.19	47	< 10	36	< 0.5	< 2	0.91	8
1323007172	2.81	5.87	3.05	2.76	2.13	8.94	6	< 0.2	< 0.5	118	415	< 1	45	< 2	52	5.25	< 2	< 10	11	< 0.5	< 2	3.56	21
1230064210	25.3	53.3	28.0	29.7	1.79	8.59	63	3.2	< 0.5	25	1540	< 1	25	26	90	1.02	57	< 10	29	< 0.5	< 2	2.21	8
F001578							2030	4.5	< 0.5	24	208	17	8	22	39	1.23	< 2	< 10	40	< 0.5	< 2	0.78	5
1323007168	23.0	39.1	16.1	27.0	1.45	8.69	183	< 0.2	< 0.5	33	454	< 1	14	< 2	51	1.58	10	< 10	47	< 0.5	< 2	2.15	11
1230064239	10.3	17.8	7.50	10.1	1.76	8.67	27	0.5	< 0.5	12	581	< 1	74	14	120	1.40	40	< 10	34	< 0.5	< 2	1.28	13
1230064262	8.13	4.86	-3.26	7.96	0.611	8.69	8	0.5	< 0.5	16	270	< 1	10	7	119	1.57	4	< 10	32	< 0.5	< 2	0.52	6
1230064312	16.8	6.60	-10.2	19.9	0.332	8.92	26	5.9	< 0.5	14	810	< 1	11	19	81	0.80	23	< 10	33	< 0.5	< 2	0.36	6
1230064232	47.3	33.1	-14.2	54.5	0.608	8.66	225	4.4	< 0.5	21	571	1	15	65	151	0.71	43	< 10	27	< 0.5	< 2	1.47	10
1432097378	14.7	32.9	18.2	14.4	2.28	9.14	8	< 0.2	< 0.5	16	715	< 1	15	3	83	2.82	7	< 10	53	< 0.5	< 2	2.18	10
1323006088	62.5	8.36	-54.1	67.7	0.124	8.33	66	0.8	1.8	99	507	3	17	6	480	1.79	10	< 10	29	< 0.5	< 2	0.87	9
1432097249	16.3	24.3	7.97	21.1	1.15	8.76	11	0.2	< 0.5	25	706	< 1	30	3	107	2.86	9	< 10	54	< 0.5	< 2	1.85	14
1323006270	60.5	9.00	-51.5	64.9	0.139	8.34	291	0.7	< 0.5	171	443	3	14	6	63	3.00	9	< 10	33	< 0.5	< 2	1.61	8
1324026095	16.8	9.71	-7.06	19.9	0.488	9.03	153	1.2	< 0.5	271	304	1	12	4	118	1.92	9	< 10	48	< 0.5	< 2	0.71	11
1230064185	11.3	15.8	4.57	11.0	1.43	9.10	10	0.3	< 0.5	16	370	< 1	30	7	60	2.62	6	< 10	54	< 0.5	< 2	1.33	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323007139	61.7	13.8	-47.8	66.8	0.207	8.47	84	0.5	2.1	116	466	< 1	15	3	542	2.05	8	< 10	24	< 0.5	< 2	0.96	10
1323006001	52.4	11.1	-41.3	57.0	0.194	8.47	286	1.0	0.9	351	572	3	15	< 2	269	1.54	5	< 10	26	< 0.5	< 2	0.90	9
1230064215	12.5	8.22	-4.28	12.3	0.671	8.78	20	1.2	< 0.5	26	564	< 1	12	13	171	0.89	15	< 10	36	< 0.5	< 2	0.44	8
1230064325	7.81	0.623	-7.19	7.66	0.0813	8.39	< 5	< 0.2	< 0.5	10	164	< 1	9	3	28	1.96	5	< 10	39	0.5	< 2	0.39	6
1230064126	29.6	29.4	-0.163	34.3	0.857	8.52	149	3.4	1.9	30	1460	< 1	29	68	463	1.30	54	< 10	30	< 0.5	< 2	1.33	12
1230064110	41.3	38.5	-2.80	47.8	0.807	8.75	213	50.9	2.3	28	1040	1	11	392	675	0.81	112	< 10	23	< 0.5	< 2	1.69	7
1230064124	2.88	29.8	27.0	25.4	1.17	8.80	76	12.1	1.5	43	761	1	24	91	451	1.12	35	< 10	36	< 0.5	< 2	1.39	9
1323007135	67.3	11.2	-56.0	73.5	0.153	8.44	116	0.6	0.7	132	318	3	16	3	199	1.69	8	< 10	15	< 0.5	< 2	0.87	10
1230064167	18.3	12.5	-5.83	22.7	0.552	8.88	154	4.3	8.8	54	351	< 1	8	296	2210	1.01	29	< 10	29	< 0.5	< 2	0.88	7
F001577							2990	2.7	< 0.5	37	239	15	12	13	40	1.29	2	< 10	48	< 0.5	< 2	0.85	8
1230063407	16.6	19.1	2.54	16.2	1.18	9.29	36	0.2	< 0.5	7	430	< 1	18	5	72	2.00	14	< 10	49	< 0.5	< 2	0.92	8
1323011120	26.5	17.1	-9.37	30.3	0.563	8.92	60	0.6	< 0.5	162	302	6	18	3	73	2.75	4	< 10	31	< 0.5	< 2	1.50	7
1230063490	18.5	41.2	22.6	21.7	1.89	8.59	167	0.9	0.5	21	918	< 1	9	28	141	2.03	19	13	39	< 0.5	< 2	2.14	7
1323011103	28.8	6.98	-21.8	28.2	0.248	8.98	64	0.3	< 0.5	66	208	2	12	< 2	32	2.75	3	< 10	34	< 0.5	< 2	1.04	4
1323011123	36.7	8.86	-27.8	39.5	0.224	8.66	81	0.4	< 0.5	99	206	6	17	< 2	24	2.66	6	< 10	28	< 0.5	< 2	1.05	5
1323011013	38.8	14.7	-24.2	41.7	0.353	8.97	87	0.3	< 0.5	53	393	< 1	14	< 2	103	2.14	10	< 10	28	< 0.5	< 2	0.87	7
1323011012	33.0	9.62	-23.4	36.1	0.266	8.91	98	0.2	< 0.5	63	284	3	14	< 2	42	2.06	7	< 10	29	< 0.5	< 2	0.76	8
1323011036	27.0	10.9	-16.1	30.6	0.355	9.03	171	< 0.2	< 0.5	31	307	3	23	2	66	2.15	5	< 10	33	< 0.5	< 2	0.81	9
1323011056	40.1	10.9	-29.2	42.9	0.253	8.87	77	< 0.2	< 0.5	9	249	< 1	11	3	38	2.15	5	< 10	25	< 0.5	< 2	0.87	8
GC20-1039-008							487	2.8	< 0.5	617	468	2	13	5	59	2.95	17	< 10	18	< 0.5	< 2	1.52	8
1230063208	47.6	8.62	-39.0	53.9	0.160	8.68	6	< 0.2	< 0.5	109	469	< 1	49	< 2	41	5.12	< 2	< 10	28	< 0.5	< 2	3.71	22
1230063051	2.81	12.0	9.15	2.76	4.34	9.05	14	0.3	0.6	39	860	1	20	12	243	1.93	7	< 10	67	< 0.5	< 2	2.02	10
GC20-1040-003							308	0.7	< 0.5	200	606	2	10	5	54	3.29	7	< 10	17	< 0.5	< 2	1.73	6
1230063133	0.714	22.2	21.5	10.7	2.07	9.55	22	0.4	1.0	39	804	< 1	15	8	314	2.50	3	< 10	68	< 0.5	< 2	1.88	8
1230063149	15.9	22.0	6.06	20.8	1.06	9.14	59	0.5	1.1	27	645	1	22	4	329	2.86	7	< 10	52	< 0.5	< 2	2.11	9
1230063026	5.41	28.8	23.4	11.6	2.47	9.46	10	< 0.2	< 0.5	14	520	< 1	42	< 2	82	1.71	4	< 10	68	< 0.5	< 2	1.44	11
1230063191	12.3	43.8	31.5	16.8	2.60	9.63	54	0.4	< 0.5	11	606	< 1	14	5	111	2.11	5	< 10	73	< 0.5	< 2	2.33	11
GC20-1045-002							29	< 0.2	< 0.5	16	380	< 1	7	< 2	37	3.29	2	18	40	< 0.5	< 2	1.35	6
1230063221	24.1	5.49	-18.6	23.6	0.233	9.07	11	0.3	< 0.5	21	511	< 1	16	4	125	1.26	4	< 10	79	< 0.5	< 2	1.08	8
1323011098	37.4	6.73	-30.7	40.7	0.165	8.61	64	0.4	< 0.5	124	222	4	14	6	40	2.49	4	< 10	26	< 0.5	< 2	0.94	6
1323011001	77.2	12.3	-64.9	83.6	0.147	8.56	187	1.0	0.8	126	511	< 1	23	3	262	3.09	28	< 10	20	< 0.5	< 2	1.24	15
F001810							1040	1.8	< 0.5	56	231	11	9	20	42	1.32	< 2	< 10	42	< 0.5	< 2	0.87	7
GC20-0817-026							37	0.4	0.6	15	455	3	16	9	191	2.03	5	< 10	39	< 0.5	< 2	1.31	8
GC20-0153-014							261	0.2	< 0.5	68	313	6	12	< 2	33	3.40	6	< 10	29	< 0.5	< 2	1.13	7
GC20-0953-022							374	1.0	< 0.5	200	463	3	13	10	58	2.78	13	< 10	15	< 0.5	< 2	1.46	8
GC20-1020-001							1910	2.2	0.6	106	935	2	14	22	227	3.01	8	23	28	< 0.5	5	2.56	8
GC20-0157-016							191	< 0.2	< 0.5	15	174	2	10	< 2	56	2.57	3	< 10	36	< 0.5	< 2	0.90	10
GC20-1022-001							37	0.4	0.8	31	217	< 1	13	8	238	1.51	9	< 10	29	< 0.5	< 2	0.76	7
1323009118	66.8	12.5	-54.3	73.2	0.171	8.28	172	0.6	< 0.5	34	394	< 1	15	8	142	2.39	21	< 10	19	< 0.5	< 2	1.02	8
1323009372	41.2	14.8	-26.4	45.6	0.325	8.74	97	0.4	< 0.5	30	463	< 1	19	7	110	2.00	18	< 10	25	< 0.5	< 2	0.89	10
1323009334	8.85	45.1	36.2	12.6	3.59	9.31	21	< 0.2	< 0.5	12	487	< 1	10	6	41	1.07	< 2	< 10	84	< 0.5	< 2	2.03	5
1323012258	38.5	13.1	-25.4	42.6	0.308	8.76	98	0.4	< 0.5	118	372	4	21	16	67	3.28	7	< 10	30	< 0.5	< 2	1.58	10
GC20-0213-014							201	0.3	< 0.5	26	402	2	16	3	72	2.44	7	< 10	54	< 0.5	< 2	1.66	9
GC20-1024-002							180	0.3	< 0.5	36	504	2	18	6	59	3.15	6	< 10	35	< 0.5	< 2	1.76	8
GC20-1030-017							233	0.5	1.7	80	554	1	9	8	491	2.82	11	< 10	29	< 0.5	< 2	1.94	8
GC20-1028-001							1360	2.9	1.1	1410	490	< 1	12	7	251	1.50	30	< 10	16	< 0.5	8	0.89	8
GC20-1028-017							1050	0.6	< 0.5	89	467	1	11	5	47	3.39	14	< 10	24	< 0.5	< 2	2.16	8
GC20-1027-018							1000	1.0	< 0.5	59	429	1	14	10	105	2.80	16	10	22	< 0.5	5	1.34	8
GC20-0963-015							891	1.4	1.4	30	1200	< 1	10	50	396	0.66	61	< 10	29	< 0.5	< 2	2.64	6

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323012279	34.4	10.5	-23.9	38.6	0.272	8.74	99	0.7	< 0.5	215	366	1	15	< 2	80	2.92	8	< 10	29	< 0.5	< 2	1.06	8
1323012212	31.0	13.2	-17.8	34.0	0.389	8.69	214	0.5	0.6	60	691	< 1	17	7	208	1.88	12	< 10	36	< 0.5	< 2	0.62	9
1323009146	81.9	12.7	-69.1	87.6	0.145	8.36	99	0.5	0.5	22	752	< 1	21	8	223	2.91	26	< 10	17	< 0.5	2	1.39	13
GC20-1027-001							1300	3.3	< 0.5	1390	335	< 1	10	6	83	1.40	30	< 10	15	< 0.5	19	0.61	6
GC20-0196-014							113	< 0.2	< 0.5	38	381	< 1	13	< 2	57	2.90	6	13	29	< 0.5	< 2	1.15	6
1323009320	57.1	11.6	-45.4	63.1	0.184	8.55	360	2.6	6.2	36	805	< 1	11	2	1690	1.83	18	< 10	22	< 0.5	< 2	0.83	8
GC20-0207-018							252	0.5	< 0.5	32	219	< 1	10	< 2	67	2.65	28	< 10	11	< 0.5	< 2	0.81	10
1323012232	37.6	10.1	-27.5	40.4	0.250	8.64	58	0.3	< 0.5	30	292	< 1	15	34	66	3.06	9	< 10	30	< 0.5	< 2	1.44	8
F001807							785	4.7	< 0.5	29	236	< 1	7	11	40	1.30	< 2	< 10	41	< 0.5	< 2	0.75	8
GC20-0983-004							< 5	< 0.2	< 0.5	88	455	< 1	47	< 2	44	5.07	< 2	< 10	19	< 0.5	< 2	3.48	23
GC20-1000-001							80	0.6	< 0.5	16	284	2	16	6	44	1.49	11	< 10	15	< 0.5	< 2	0.67	11
GC20-0972-001							127	1.8	< 0.5	29	1180	< 1	12	43	98	0.41	114	< 10	18	< 0.5	< 2	3.51	7
GC20-1005-011							528	0.9	< 0.5	243	524	1	16	7	72	2.08	14	< 10	25	< 0.5	< 2	1.43	8
GC20-0990-001							270	2.7	0.5	19	1030	< 1	12	26	151	1.52	30	< 10	34	< 0.5	< 2	1.77	7
GC20-1003-001							456	0.8	< 0.5	89	382	1	14	8	83	1.93	17	< 10	21	< 0.5	2	0.82	7
GC20-1007-004							167	0.5	< 0.5	33	402	< 1	16	4	68	1.83	7	< 10	13	< 0.5	3	0.45	9
GC20-1006-008							488	0.5	< 0.5	120	631	< 1	14	5	99	2.62	4	< 10	34	< 0.5	< 2	1.16	6
1323009246	15.4	37.6	22.2	19.0	1.98	9.19	84	0.3	0.6	23	477	< 1	15	10	147	1.72	3	< 10	44	< 0.5	< 2	1.79	7
GC20-0999-001							53	0.3	< 0.5	15	578	< 1	10	11	67	1.93	27	10	33	< 0.5	< 2	1.77	6
1323008223	4.06	6.84	2.78	3.98	1.72	8.85	8	< 0.2	< 0.5	141	442	< 1	45	< 2	51	5.04	< 2	< 10	12	< 0.5	< 2	3.36	23
GC20-0982-003							10	< 0.2	< 0.5	126	471	< 1	44	< 2	47	5.28	< 2	< 10	13	< 0.5	< 2	3.60	21
GC20-0981-009FD							6	< 0.2	< 0.5	112	419	< 1	38	< 2	42	5.33	< 2	< 10	13	< 0.5	< 2	3.72	20
1323008007	30.6	12.5	-18.1	44.4	0.281	8.65	360	1.6	8.9	218	631	< 1	15	2	2330	2.50	16	< 10	33	< 0.5	3	0.95	10
GC20-0968-009							306	2.4	1.5	36	1310	< 1	12	41	393	0.62	88	< 10	26	< 0.5	< 2	2.23	7
1323008104	3.01	52.6	49.6	12.6	4.19	9.03	30	< 0.2	< 0.5	38	531	< 1	28	5	75	1.49	< 2	< 10	68	< 0.5	< 2	2.31	8
1323008297	35.4	10.5	-24.9	42.0	0.250	8.62	296	0.7	1.1	30	482	< 1	14	2	354	2.33	12	< 10	31	< 0.5	< 2	1.34	8
GC20-0971-001							145	4.0	1.9	31	640	< 1	28	272	456	0.51	118	< 10	13	< 0.5	< 2	1.79	18
GC20-0973-005							100	0.5	< 0.5	14	580	< 1	9	14	76	1.50	34	< 10	36	< 0.5	< 2	1.37	7
F001808							802	4.6	< 0.5	29	237	< 1	7	11	40	1.28	< 2	< 10	40	< 0.5	< 2	0.74	8
GC20-1041-007							58	0.3	< 0.5	16	272	< 1	11	4	36	2.29	20	< 10	29	< 0.5	< 2	1.39	7
GC20-0823-021							74	0.4	< 0.5	24	763	2	22	4	84	2.04	5	< 10	34	< 0.5	< 2	1.93	12
1323011085	50.4	11.8	-38.6	57.6	0.205	8.65	715	1.0	< 0.5	47	332	< 1	16	2	86	2.25	10	< 10	23	< 0.5	< 2	1.02	9
GC20-0314-001							242	1.9	8.8	13	358	< 1	12	87	2410	0.87	154	< 10	18	< 0.5	< 2	0.21	8
GC20-1042-003							78	0.2	< 0.5	20	353	< 1	13	4	53	2.65	16	16	22	< 0.5	2	1.07	8
GC20-1042-002							64	0.3	< 0.5	46	377	< 1	11	5	56	3.18	9	16	30	< 0.5	< 2	1.11	7
1323011091	49.1	9.08	-40.0	54.8	0.166	8.53	> 5000	0.6	< 0.5	202	189	5	14	< 2	25	2.65	6	< 10	23	< 0.5	< 2	1.13	5
1432089433	11.4	155	144	20.8	7.45	8.41	51	0.5	0.7	67	1680	< 1	54	< 2	231	3.20	35	< 10	24	< 0.5	< 2	4.59	30
1432089303	12.3	129	116	20.2	6.37	8.87	64	0.5	< 0.5	61	1170	< 1	75	5	172	4.27	17	< 10	74	< 0.5	< 2	4.50	27
1432089213	14.8	80.2	65.4	20.8	3.85	8.72	10	0.3	< 0.5	50	1020	< 1	44	5	157	3.58	6	< 10	36	< 0.5	< 2	3.72	30
1230063129	17.8	28.5	10.7	21.4	1.33	9.36	52	0.5	0.6	31	701	< 1	21	4	218	2.68	9	< 10	53	< 0.5	< 2	2.32	10
1230063018	18.8	36.4	17.6	23.3	1.56	9.18	23	0.4	0.9	42	684	< 1	26	9	317	1.88	7	< 10	58	< 0.5	< 2	1.81	12
1230063065	8.44	8.85	0.413	8.27	1.07	9.22	15	0.2	< 0.5	56	397	< 1	26	< 2	127	3.21	2	< 10	51	< 0.5	< 2	1.87	14
GC20-1047-008							87	0.3	< 0.5	18	370	< 1	11	4	64	1.58	9	< 10	14	< 0.5	< 2	0.62	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323006165	296	2.95	< 10	< 1	0.26	13	0.73	0.157	0.038	2.30	3	1	70	0.06	< 1	< 2	< 10	17	< 10	3	17	0.35	2.19
1230065160	267	2.08	< 10	< 1	0.38	17	0.87	0.062	0.039	0.25	< 2	2	36	0.09	< 1	< 2	< 10	21	< 10	2	6	0.61	0.24
1323006090	133	2.47	< 10	< 1	0.21	15	0.77	0.200	0.045	1.98	2	1	77	0.03	< 1	< 2	< 10	15	< 10	3	12	0.18	1.86
GC20-0300-021	150	2.63	< 10	< 1	0.26	12	0.91	0.115	0.036	1.77	< 2	1	57	0.03	< 1	< 2	< 10	11	< 10	2	15		
GC20-0299-001	153	2.97	< 10	< 1	0.25	13	1.50	0.113	0.032	1.43	2	1	48	0.01	2	< 2	< 10	13	< 10	2	15		
1432097332	107	4.98	< 10	< 1	0.26	< 10	1.82	0.155	0.050	0.88	2	7	68	0.14	< 1	< 2	< 10	107	< 10	7	12	0.35	0.92
1432097108	424	5.95	< 10	< 1	0.50	15	2.56	0.132	0.066	1.29	5	9	62	0.15	< 1	< 2	< 10	112	< 10	7	14	0.43	1.38
1230065088	239	1.92	< 10	< 1	0.45	14	0.63	0.079	0.040	0.51	2	2	31	0.08	< 1	< 2	< 10	20	< 10	3	9	0.50	0.50
F001583	14	1.97	< 10	< 1	0.26	12	0.51	0.200	0.048	0.06	< 2	3	29	0.25	7	< 2	< 10	57	< 10	18	10		
GC20-0209-017	244	4.88	< 10	< 1	0.40	10	0.61	0.054	0.030	3.52	3	< 1	30	0.03	< 1	< 2	< 10	8	< 10	2	23		
1323007245	305	2.93	< 10	< 1	0.22	< 10	1.14	0.188	0.031	2.22	4	2	54	0.03	5	< 2	< 10	16	< 10	2	18	0.23	2.09
1323008243	171	2.30	< 10	< 1	0.19	13	1.14	0.186	0.035	1.42	< 2	1	78	0.02	< 1	< 2	< 10	11	< 10	3	4	0.26	1.31
1323007217	212	2.73	< 10	< 1	0.34	15	0.87	0.116	0.045	2.30	< 2	1	41	0.04	2	< 2	< 10	15	< 10	3	12	0.15	2.22
1323007273	400	2.74	< 10	< 1	0.18	13	0.86	0.072	0.039	2.03	3	1	22	0.02	1	< 2	< 10	17	< 10	3	17	0.29	1.90
GC20-0209-016	142	2.91	< 10	< 1	0.28	10	0.75	0.074	0.038	1.30	3	1	49	0.04	< 1	< 2	< 10	10	< 10	2	9		
1323016002	199	2.41	< 10	< 1	0.17	16	1.29	0.183	0.041	2.15	2	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	3	12	0.08	1.18
1323016105	278	2.40	< 10	< 1	0.18	17	1.07	0.279	0.046	2.40	3	1	122	0.01	< 1	< 2	< 10	13	< 10	3	12	0.30	2.19
GC20-0304-013	181	2.84	< 10	< 1	0.19	12	0.85	0.217	0.033	2.07	3	1	86	0.03	< 1	< 2	< 10	16	< 10	2	14		
1323007227	339	2.37	< 10	< 1	0.18	13	0.72	0.092	0.039	1.69	< 2	1	36	0.03	< 1	< 2	< 10	17	< 10	3	12	0.14	1.94
1323007254	269	3.36	< 10	< 1	0.17	14	1.09	0.168	0.039	3.09	2	1	47	0.01	< 1	< 2	< 10	15	< 10	3	22	0.20	3.07
1323007001	239	2.68	< 10	< 1	0.23	12	1.03	0.102	0.037	1.89	3	1	43	0.05	1	< 2	< 10	12	< 10	3	18	0.30	1.78
GC20-0972-026	115	1.29	< 10	< 1	0.39	19	0.19	0.012	0.050	0.63	2	< 1	39	0.03	2	< 2	< 10	5	< 10	2	2		
1432097239	209	6.40	< 10	< 1	0.19	< 10	1.87	0.269	0.049	0.75	4	14	134	0.19	< 1	< 2	< 10	234	< 10	9	5	0.46	0.57
1323007085	149	3.41	< 10	< 1	0.23	17	1.83	0.059	0.042	2.51	< 2	1	19	< 0.01	< 1	< 2	< 10	13	< 10	3	18	0.33	0.75
1432097097	114	2.78	< 10	< 1	0.31	11	1.07	0.083	0.041	0.99	3	2	39	0.04	< 1	< 2	< 10	23	< 10	3	6	0.39	0.84
1230064079	152	1.05	< 10	< 1	0.30	16	0.58	0.282	0.040	0.25	2	1	115	< 0.01	< 1	< 2	< 10	10	< 10	2	1	0.20	0.24
1230064040	218	1.73	< 10	< 1	0.44	15	0.36	0.075	0.038	1.48	5	< 1	50	0.04	< 1	< 2	< 10	7	< 10	2	7	0.82	1.34
1230064005	200	1.59	< 10	< 1	0.37	16	0.38	0.060	0.042	1.34	3	< 1	37	0.02	< 1	< 2	< 10	8	< 10	2	4	0.72	1.19
1323007027	292	3.40	< 10	< 1	0.27	14	1.09	0.153	0.039	2.90	4	< 1	52	< 0.01	< 1	< 2	< 10	11	< 10	3	21	0.21	2.77
1323007150	242	2.57	< 10	< 1	0.18	17	1.02	0.198	0.044	2.31	3	< 1	57	< 0.01	< 1	< 2	< 10	8	< 10	3	10	0.23	2.08
1323007275	273	2.64	< 10	< 1	0.20	12	0.81	0.100	0.038	1.91	2	1	26	0.05	< 1	< 2	< 10	21	< 10	3	16	0.23	1.75
1230064071	177	1.53	< 10	< 1	0.32	14	0.27	0.023	0.039	1.31	3	< 1	44	0.03	< 1	< 2	< 10	6	< 10	2	6	0.69	1.19
1230064028	226	1.93	< 10	< 1	0.38	16	0.27	0.121	0.046	1.89	6	< 1	61	0.04	< 1	< 2	< 10	8	< 10	2	6	0.50	1.73
1323007041	165	4.14	< 10	< 1	0.21	13	0.93	0.111	0.036	3.92	3	< 1	35	< 0.01	1	< 2	< 10	11	< 10	3	16	0.10	3.74
1230064147	148	1.65	< 10	< 1	0.29	11	0.26	0.059	0.039	1.38	2	< 1	43	0.02	< 1	< 2	< 10	5	< 10	2	6	0.23	1.21
1323007172	214	4.20	< 10	< 1	0.02	< 10	1.48	0.649	0.019	0.08	< 2	5	60	0.20	< 1	< 2	< 10	125	< 10	5	2	0.17	0.09
1230064210	189	1.52	< 10	< 1	0.30	17	0.54	0.022	0.054	1.23	3	1	31	< 0.01	< 1	< 2	< 10	10	< 10	2	3	0.72	0.97
F001578	13	1.53	< 10	< 1	0.21	17	0.37	0.205	0.040	0.04	< 2	2	35	0.22	1	< 2	< 10	36	< 10	16	11		
1323007168	225	2.26	< 10	< 1	0.26	15	0.67	0.053	0.046	1.05	3	1	69	0.08	4	< 2	< 10	16	< 10	2	6	0.58	0.88
1230064239	359	1.69	< 10	< 1	0.15	21	1.15	0.040	0.099	0.34	2	3	48	0.05	2	< 2	< 10	22	< 10	3	1	0.26	0.33
1230064262	103	1.25	< 10	< 1	0.14	< 10	0.34	0.053	0.035	0.28	< 2	< 1	59	0.02	< 1	< 2	< 10	7	< 10	< 1	2	0.21	0.26
1230064312	137	1.21	< 10	< 1	0.25	15	0.42	0.018	0.048	0.72	2	< 1	12	< 0.01	< 1	< 2	< 10	5	< 10	1	3	0.18	0.65
1230064232	174	1.92	< 10	< 1	0.30	17	0.21	0.026	0.042	2.01	< 2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	2	9	0.42	1.78
1432097378	151	2.22	< 10	< 1	0.30	12	1.03	0.259	0.036	0.48	< 2	2	91	0.08	< 1	< 2	< 10	22	< 10	3	6	0.38	0.47
1323006088	252	2.64	< 10	< 1	0.19	13	0.81	0.195	0.042	2.32	2	1	67	0.02	< 1	< 2	< 10	13	< 10	3	14	0.22	2.21
1432097249	160	3.21	< 10	< 1	0.34	11	1.33	0.177	0.038	0.72	3	3	67	0.12	< 1	< 2	< 10	43	< 10	5	8	0.30	0.69
1323006270	230	3.08	< 10	< 1	0.17	13	0.94	0.174	0.038	2.09	2	< 1	124	< 0.01	< 1	< 2	< 10	10	< 10	3	12	0.20	2.12
1324026095	101	2.46	< 10	< 1	0.23	14	1.40	0.018	0.040	0.72	2	1	21	0.04	< 1	< 2	< 10	14	< 10	3	6	0.14	0.65
1230064185	140	1.84	< 10	< 1	0.15	< 10	0.85	0.129	0.034	0.38	< 2	1	97	0.02	4	< 2	< 10	16	< 10	2	2	0.24	0.36
1323007139	194	2.84	< 10	< 1	0.18	17	1.42	0.134	0.043	2.31	2	1	40	< 0.01	< 1	< 2	< 10	13	< 10	4	9	0.29	2.18
1323006001	265	2.68	< 10	< 1	0.22	12	0.86	0.097	0.037	2.02	< 2	1	34	0.04	2	< 2	< 10	17	10	3	14	0.19	1.86

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230064215	156	1.03	< 10	< 1	0.23	12	0.25	0.027	0.038	0.43	2	< 1	16	< 0.01	< 1	< 2	< 10	6	< 10	1	2	0.19	0.40
1230064325	110	1.23	< 10	< 1	0.12	< 10	0.36	0.054	0.032	0.24	2	< 1	51	< 0.01	< 1	< 2	< 10	7	< 10	< 1	3	0.09	0.25
1230064126	197	2.28	< 10	< 1	0.31	16	0.78	0.027	0.046	1.21	3	3	25	0.02	1	< 2	< 10	22	< 10	2	5	0.40	1.12
1230064110	177	1.80	< 10	< 1	0.33	14	0.23	0.020	0.036	1.80	6	< 1	280	0.03	< 1	< 2	< 10	5	< 10	2	9	0.55	1.56
1230064124	196	1.70	< 10	< 1	0.31	13	0.52	0.032	0.041	0.96	3	1	86	0.03	< 1	< 2	< 10	10	< 10	2	3	0.44	0.83
1323007135	294	2.87	< 10	< 1	0.20	14	0.94	0.162	0.039	2.48	3	1	68	0.02	1	< 2	< 10	13	< 10	3	16	0.27	2.40
1230064167	114	0.83	< 10	< 1	0.25	17	0.07	0.103	0.033	0.89	4	< 1	43	< 0.01	1	< 2	< 10	4	< 10	1	2	0.24	0.74
F001577	14	1.94	< 10	< 1	0.26	12	0.50	0.202	0.046	0.05	< 2	3	30	0.24	1	< 2	< 10	57	< 10	18	7		
1230063407	211	2.68	< 10	< 1	0.28	13	1.35	0.079	0.046	0.57	3	2	27	0.03	4	< 2	< 10	21	< 10	3	5	0.27	0.53
1323011120	319	1.98	< 10	< 1	0.20	12	1.00	0.235	0.036	1.20	3	1	139	< 0.01	3	< 2	< 10	12	< 10	3	6	0.32	0.99
1230063490	127	1.64	< 10	< 1	0.32	15	0.67	0.085	0.039	0.77	2	< 1	53	0.02	< 1	< 2	< 10	9	< 10	2	2	0.58	0.71
1323011103	134	1.52	< 10	< 1	0.17	13	0.90	0.215	0.037	1.09	3	1	120	< 0.01	< 1	< 2	< 10	12	< 10	3	9	0.09	0.92
1323011123	220	1.89	< 10	< 1	0.15	12	0.86	0.217	0.037	1.40	3	1	125	< 0.01	< 1	< 2	< 10	13	< 10	3	12	0.26	1.29
1323011013	206	2.41	< 10	< 1	0.18	13	1.60	0.100	0.034	1.44	3	< 1	55	< 0.01	< 1	< 2	< 10	10	< 10	3	10	0.30	1.36
1323011012	206	2.25	< 10	< 1	0.13	17	1.26	0.140	0.049	1.32	< 2	1	77	< 0.01	3	< 2	< 10	16	< 10	3	3	0.22	1.18
1323011036	271	2.28	< 10	< 1	0.17	17	1.21	0.138	0.044	1.15	3	1	78	< 0.01	< 1	< 2	< 10	16	< 10	3	3	0.26	1.00
1323011056	170	2.07	< 10	< 1	0.15	15	1.14	0.142	0.044	1.47	< 2	1	87	< 0.01	4	< 2	< 10	13	< 10	3	5	0.18	1.40
GC20-1039-008	176	2.74	< 10	< 1	0.30	14	0.66	0.249	0.042	1.92	3	1	130	0.02	4	< 2	< 10	11	< 10	3	12		
1230063208	186	4.30	< 10	< 1	0.07	< 10	1.78	0.645	0.019	0.08	3	8	71	0.18	< 1	< 2	< 10	132	< 10	6	3	0.15	1.76
1230063051	256	2.43	< 10	< 1	0.40	19	0.82	0.098	0.049	0.41	4	2	57	0.12	< 1	< 2	< 10	26	< 10	3	11	0.18	0.09
GC20-1040-003	136	2.51	< 10	< 1	0.22	12	0.85	0.268	0.039	1.44	< 2	1	124	0.03	< 1	< 2	< 10	13	< 10	3	3		
1230063133	162	2.05	< 10	< 1	0.42	16	0.87	0.166	0.043	0.37	< 2	2	79	0.10	< 1	< 2	< 10	22	< 10	3	7	0.25	0.35
1230063149	144	2.27	< 10	< 1	0.51	22	1.02	0.254	0.054	0.70	2	2	117	0.09	< 1	< 2	< 10	26	< 10	4	8	0.32	0.68
1230063026	338	2.57	< 10	< 1	0.29	18	1.26	0.103	0.051	0.38	2	3	37	0.10	< 1	< 2	< 10	41	< 10	4	10	0.37	0.38
1230063191	113	2.63	< 10	< 1	0.48	25	0.86	0.153	0.056	0.59	< 2	2	117	0.12	< 1	< 2	< 10	33	< 10	4	12	0.49	0.55
GC20-1045-002	156	2.02	< 10	< 1	0.23	13	1.21	0.100	0.036	0.83	< 2	< 1	108	0.01	< 1	< 2	< 10	11	< 10	3	4		
1230063221	260	1.95	< 10	< 1	0.40	13	0.72	0.075	0.040	0.26	3	2	32	0.10	< 1	< 2	< 10	23	< 10	3	13	0.07	0.77
1323011098	265	2.07	< 10	< 1	0.15	< 10	0.94	0.191	0.036	1.44	3	1	99	< 0.01	5	< 2	< 10	13	< 10	2	11	0.20	1.33
1323011001	139	4.09	< 10	< 1	0.22	12	2.01	0.149	0.045	2.76	< 2	3	82	0.07	< 1	< 2	< 10	37	< 10	5	18	0.20	2.73
F001810	14	1.86	< 10	< 1	0.24	14	0.46	0.207	0.045	0.05	< 2	3	33	0.24	2	< 2	< 10	53	< 10	19	8		
GC20-0817-026	215	1.88	< 10	< 1	0.28	18	1.07	0.116	0.042	0.92	< 2	1	70	0.05	1	< 2	< 10	18	< 10	3	4		
GC20-0153-014	182	3.08	< 10	< 1	0.13	13	0.97	0.166	0.039	1.08	3	1	104	< 0.01	1	< 2	< 10	15	< 10	2	6		
GC20-0953-022	215	2.59	< 10	< 1	0.43	14	0.85	0.316	0.040	1.73	2	2	120	0.04	< 1	< 2	< 10	17	< 10	3	9		
GC20-1020-001	204	2.45	< 10	< 1	0.18	13	1.36	0.130	0.040	2.14	< 2	1	110	0.05	4	< 2	< 10	13	< 10	3	14		
GC20-0157-016	87	1.52	< 10	< 1	0.15	14	0.77	0.116	0.041	0.92	< 2	< 1	69	< 0.01	2	< 2	< 10	9	< 10	2	3		
GC20-1022-001	219	1.38	< 10	< 1	0.26	11	0.57	0.067	0.042	1.12	< 2	< 1	61	< 0.01	< 1	< 2	< 10	7	< 10	2	5		
1323009118	180	3.19	< 10	< 1	0.23	14	1.35	0.129	0.037	2.51	3	< 1	56	< 0.01	< 1	< 2	< 10	10	< 10	3	20	0.17	2.39
1323009372	296	2.69	< 10	< 1	0.28	13	1.18	0.101	0.039	1.68	3	1	60	0.01	1	< 2	< 10	11	< 10	3	13	0.24	1.49
1323009334	227	1.43	< 10	< 1	0.28	49	0.41	0.066	0.069	0.43	< 2	< 1	120	< 0.01	2	< 2	< 10	6	< 10	5	1	0.63	0.41
1323012258	281	3.31	< 10	< 1	0.22	14	1.30	0.250	0.039	1.50	3	2	120	0.04	< 1	< 2	< 10	24	< 10	3	7	0.23	1.39
GC20-0213-014	190	1.87	< 10	< 1	0.27	15	1.31	0.130	0.038	0.44	< 2	1	70	0.02	< 1	< 2	< 10	14	< 10	4	3		
GC20-1024-002	276	2.36	< 10	< 1	0.19	14	0.62	0.271	0.040	1.32	3	< 1	153	0.04	4	< 2	< 10	10	< 10	3	4		
GC20-1030-017	180	2.13	< 10	< 1	0.22	10	0.66	0.344	0.033	1.23	2	1	170	0.03	< 1	< 2	< 10	12	< 10	2	6		
GC20-1028-001	145	3.52	< 10	< 1	0.20	< 10	0.79	0.036	0.034	2.96	< 2	< 1	31	0.02	< 1	< 2	< 10	7	< 10	2	21		
GC20-1028-017	194	2.44	< 10	< 1	0.24	13	0.62	0.299	0.037	1.83	2	1	219	0.02	< 1	< 2	< 10	12	< 10	3	10		
GC20-1027-018	213	3.10	< 10	< 1	0.24	13	0.80	0.122	0.041	2.46	2	< 1	90	< 0.01	< 1	< 2	< 10	10	< 10	3	12		
GC20-0963-015	148	1.74	< 10	< 1	0.29	11	0.40	0.020	0.041	1.69	3	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	2	5		
1323012279	207	3.09	< 10	< 1	0.22	17	1.59	0.167	0.040	1.37	3	1	76	< 0.01	4	< 2	< 10	12	< 10	3	5	0.17	1.26
1323012212	220	2.68	< 10	< 1	0.20	14	1.55	0.051	0.043	1.21	3	1	28	0.04	1	< 2	< 10	16	< 10	3	9	0.14	1.11
1323009146	231	3.85	< 10	< 1	0.25	14	1.53	0.187	0.045	2.88	< 2	2	66	0.03	< 1	< 2	< 10	24	< 10	5	15	0.25	2.86
GC20-1027-001	218	3.87	< 10	< 1	0.18	< 10	0.70	0.048	0.035	3.41	3	< 1	43	< 0.01	< 1	< 2	< 10	5	< 10	2	23		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0196-014	178	2.17	< 10	< 1	0.21	10	1.04	0.098	0.036	0.57	3	1	76	< 0.01	7	< 2	< 10	13	< 10	2	5		
1323009320	194	3.30	< 10	< 1	0.19	15	1.31	0.026	0.043	2.17	3	< 1	13	0.04	3	< 2	< 10	10	< 10	3	13	0.20	2.06
GC20-0207-018	91	3.17	< 10	< 1	0.25	12	1.28	0.163	0.037	2.87	2	1	106	< 0.01	4	< 2	< 10	11	< 10	3	19		
1323012232	233	2.44	< 10	< 1	0.15	13	1.23	0.238	0.036	1.36	5	< 1	146	< 0.01	4	< 2	< 10	10	< 10	3	4	0.15	1.32
F001807	12	2.05	< 10	< 1	0.25	12	0.44	0.243	0.034	0.03	< 2	2	33	0.34	3	< 2	< 10	46	< 10	17	12		
GC20-0983-004	168	4.18	< 10	< 1	0.08	< 10	1.87	0.574	0.019	0.07	< 2	7	65	0.19	< 1	< 2	< 10	102	< 10	5	2		
GC20-1000-001	163	3.76	< 10	< 1	0.16	12	0.65	0.036	0.064	3.62	2	1	32	0.01	2	< 2	< 10	8	< 10	2	15		
GC20-0972-001	188	1.86	< 10	< 1	0.19	< 10	0.41	0.014	0.037	1.83	3	< 1	26	< 0.01	< 1	< 2	< 10	3	< 10	2	6		
GC20-1005-011	232	2.98	< 10	< 1	0.16	14	1.11	0.133	0.040	1.81	3	1	61	0.01	4	< 2	< 10	13	< 10	2	12		
GC20-0990-001	227	1.85	< 10	< 1	0.29	16	0.77	0.037	0.039	1.14	2	< 1	36	< 0.01	< 1	< 2	< 10	8	< 10	1	6		
GC20-1003-001	155	2.79	< 10	< 1	0.25	11	0.98	0.125	0.038	2.15	3	< 1	54	0.02	< 1	< 2	< 10	9	< 10	2	13		
GC20-1007-004	186	4.64	< 10	< 1	0.23	15	1.40	0.028	0.043	4.31	2	< 1	24	< 0.01	7	< 2	< 10	9	< 10	3	20		
GC20-1006-008	257	2.59	< 10	< 1	0.15	13	1.33	0.197	0.036	0.79	2	1	81	0.02	< 1	< 2	< 10	15	< 10	2	7		
1323009246	259	1.86	< 10	< 1	0.34	38	0.77	0.108	0.062	0.68	< 2	1	122	< 0.01	< 1	< 2	< 10	11	< 10	5	3	0.55	0.62
GC20-0999-001	197	1.83	< 10	< 1	0.23	17	0.63	0.052	0.037	1.03	2	< 1	46	0.01	< 1	< 2	< 10	9	< 10	2	6		
1323008223	186	4.28	< 10	< 1	0.03	< 10	1.51	0.613	0.021	0.12	2	5	70	0.19	4	< 2	< 10	126	< 10	5	3	0.15	0.13
GC20-0982-003	131	4.22	< 10	< 1	0.05	< 10	1.50	0.685	0.019	0.11	< 2	6	61	0.17	3	< 2	< 10	124	< 10	5	3		
GC20-0981-009FD	131	4.12	< 10	< 1	0.05	< 10	1.50	0.719	0.018	0.08	3	6	60	0.17	3	< 2	< 10	123	< 10	5	3		
1323008007	106	3.27	< 10	< 1	0.23	12	1.91	0.109	0.038	2.20	< 2	1	42	0.03	6	< 2	< 10	18	< 10	3	26	0.16	1.45
GC20-0968-009	129	1.89	< 10	< 1	0.30	13	0.63	0.013	0.038	1.79	3	< 1	20	< 0.01	< 1	< 2	< 10	4	< 10	2	8		
1323008104	247	2.03	< 10	< 1	0.30	53	0.81	0.083	0.086	0.43	< 2	2	141	0.02	< 1	< 2	< 10	21	< 10	5	2	0.71	0.41
1323008297	239	2.29	< 10	< 1	0.17	16	1.02	0.176	0.048	1.51	< 2	< 1	74	0.03	1	< 2	< 10	11	< 10	3	3	0.21	1.37
GC20-0971-001	198	5.39	< 10	< 1	0.20	< 10	0.18	0.016	0.033	6.25	5	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	1	16		
GC20-0973-005	139	1.81	< 10	< 1	0.30	15	0.54	0.031	0.040	1.16	2	< 1	17	0.05	< 1	< 2	< 10	9	< 10	2	16		
F001808	12	2.06	< 10	< 1	0.25	12	0.44	0.240	0.035	0.03	< 2	2	33	0.35	4	< 2	< 10	48	< 10	17	14		
GC20-1041-007	103	2.35	< 10	< 1	0.22	15	0.87	0.096	0.036	1.97	2	< 1	101	< 0.01	2	< 2	< 10	8	< 10	3	18		
GC20-0823-021	133	2.38	< 10	< 1	0.27	20	1.21	0.080	0.047	1.54	< 2	2	59	0.06	1	< 2	< 10	21	< 10	4	9		
1323011085	184	2.94	< 10	< 1	0.17	12	1.43	0.118	0.038	2.03	< 2	1	56	0.03	< 1	< 2	< 10	15	< 10	3	11	0.22	1.88
GC20-0314-001	147	1.99	< 10	< 1	0.29	15	0.23	0.033	0.043	2.14	< 2	< 1	18	< 0.01	< 1	< 2	< 10	5	< 10	1	11		
GC20-1042-003	128	3.00	< 10	< 1	0.17	11	1.15	0.061	0.038	2.33	2	< 1	72	< 0.01	< 1	< 2	< 10	10	< 10	2	15		
GC20-1042-002	93	2.51	< 10	< 1	0.19	10	1.29	0.093	0.033	1.65	2	1	97	< 0.01	< 1	< 2	< 10	10	< 10	2	14		
1323011091	211	2.74	< 10	< 1	0.16	< 10	0.92	0.249	0.036	1.90	3	1	102	0.02	4	< 2	< 10	12	< 10	2	13	0.21	1.79
1432089433	103	8.01	< 10	< 1	0.17	< 10	2.18	0.049	0.057	0.64	5	10	56	0.09	< 1	< 2	< 10	122	< 10	9	7	2.34	0.68
1432089303	163	6.23	10	< 1	0.43	19	2.53	0.286	0.056	0.63	4	10	122	0.10	< 1	< 2	< 10	119	< 10	10	11	1.83	0.66
1432089213	140	7.81	10	< 1	0.18	< 10	2.17	0.186	0.071	0.64	5	16	76	0.15	< 1	< 2	< 10	182	< 10	13	6	1.20	0.68
1230063129	98	2.44	< 10	< 1	0.38	23	1.07	0.161	0.057	0.81	< 2	2	75	0.10	< 1	< 2	< 10	28	< 10	4	10	0.32	0.70
1230063018	354	2.95	< 10	< 1	0.44	33	1.19	0.102	0.072	0.82	3	4	50	0.13	1	< 2	< 10	44	< 10	5	12	0.49	0.76
1230063065	116	2.82	< 10	< 1	0.23	< 10	1.18	0.312	0.031	0.28	< 2	3	48	0.13	< 1	< 2	< 10	57	< 10	4	9	0.15	0.27
GC20-1047-008	135	3.40	< 10	< 1	0.27	16	1.14	0.031	0.044	3.10	2	< 1	23	< 0.01	1	< 2	< 10	8	< 10	3	19		

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323006165	
1230065160	
1323006090	
GC20-0300-021	
GC20-0299-001	
1432097332	
1432097108	
1230065088	
F001583	
GC20-0209-017	
1323007245	
1323008243	
1323007217	
1323007273	
GC20-0209-016	
1323016002	
1323016105	
GC20-0304-013	
1323007227	
1323007254	
1323007001	
GC20-0972-026	
1432097239	
1323007085	
1432097097	
1230064079	
1230064040	
1230064005	
1323007027	
1323007150	
1323007275	
1230064071	
1230064028	
1323007041	
1230064147	
1323007172	
1230064210	
F001578	
1323007168	
1230064239	
1230064262	
1230064312	
1230064232	
1432097378	
1323006088	
1432097249	
1323006270	
1324026095	
1230064185	
1323007139	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323006001	
1230064215	
1230064325	
1230064126	
1230064110	
1230064124	
1323007135	
1230064167	
F001577	
1230063407	
1323011120	
1230063490	
1323011103	
1323011123	
1323011013	
1323011012	
1323011036	
1323011056	
GC20-1039-008	
1230063208	
1230063051	
GC20-1040-003	
1230063133	
1230063149	
1230063026	
1230063191	
GC20-1045-002	
1230063221	
1323011098	
1323011001	
F001810	
GC20-0817-026	
GC20-0153-014	
GC20-0953-022	
GC20-1020-001	
GC20-0157-016	
GC20-1022-001	
1323009118	
1323009372	
1323009334	
1323012258	
GC20-0213-014	
GC20-1024-002	
GC20-1030-017	
GC20-1028-001	
GC20-1028-017	
GC20-1027-018	
GC20-0963-015	
1323012279	
1323012212	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323009146	
GC20-1027-001	
GC20-0196-014	
1323009320	
GC20-0207-018	
1323012232	
F001807	
GC20-0983-004	
GC20-1000-001	
GC20-0972-001	
GC20-1005-011	
GC20-0990-001	
GC20-1003-001	
GC20-1007-004	
GC20-1006-008	
1323009246	
GC20-0999-001	
1323008223	
GC20-0982-003	
GC20-0981-009FD	
1323008007	
GC20-0968-009	
1323008104	
1323008297	
GC20-0971-001	
GC20-0973-005	
F001808	
GC20-1041-007	
GC20-0823-021	
1323011085	
GC20-0314-001	
GC20-1042-003	
GC20-1042-002	
1323011091	29.1
1432089433	
1432089303	
1432089213	
1230063129	
1230063018	
1230063065	
GC20-1047-008	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	64	1020	1	23	91	122	6.75	209	< 10	837	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.2	< 0.5	64	1000	< 1	23	91	118	6.74	196	< 10	849	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	64	1040	< 1	23	92	120	6.76	218	< 10	869	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1090	1	26	98	125	7.26	225	< 10	772	0.9	3	0.13	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	71	1080	1	25	96	125	7.07	228	< 10	785	0.9	3	0.13	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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BaSO4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Meas																							
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GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.62																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.57																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.08																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.18																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.60																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.6				8.28																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz)		46.6																					

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		43.8																					
NBM-1 (slight fzz) Cert		46.6																					
NBM-1 (slight fzz) Meas		43.7																					
NBM-1 (slight fzz) Cert		46.6																					
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2230	754	< 1	36	58	252	2.88	4		75	0.6	5	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.0	< 0.5	2240	763	< 1	37	58	255	2.88	5		79	0.6	7	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2260	773	< 1	34	59	256	2.82	5		77	0.6	10	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2180	777	< 1	35	64	260	2.87	6		79	0.7	7	0.41	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2130	773	< 1	35	61	253	2.91	6		84	0.7	9	0.42	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4260	851	< 1	30	74	322	2.85	6		55	0.6	11	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.7	< 0.5	4380	858	< 1	33	78	322	2.86	6		60	0.6	16	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.5	< 0.5	4300	866	< 1	31	80	328	2.84	5		64	0.6	17	0.40	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923								2.3	< 0.5	4360	871	< 1	34	79	329	2.82	8		63	0.6	26	0.41	21

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.4	< 0.5	4330	872	< 1	31	78	329	2.91	6		70	0.7	22	0.42	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 621 (Aqua Regia) Meas								66.5	278	3620	529	12	24	> 5000	> 10000	1.79	74			0.5	< 2	1.66	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.6	279	3660	524	12	27	> 5000	> 10000	1.80	75			0.5	3	1.65	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.7	279	3690	531	12	27	> 5000	> 10000	1.73	74			< 0.5	< 2	1.64	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.5	283	3500	539	13	26	> 5000	> 10000	1.70	75			0.6	8	1.68	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								67.3	284	3480	548	13	28	> 5000	> 10000	1.82	76			0.6	8	1.72	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas							3040																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							523																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							511																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							491																
Oreas E1336 (Fire Assay) Cert							510																
1230065160 Orig								0.5	< 0.5	91	638	< 1	15	4	122	1.34	8	< 10	82	< 0.5	< 2	2.02	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1230065160 Dup								0.5	< 0.5	92	641	< 1	15	4	128	1.36	7	< 10	82	< 0.5	< 2	2.03	8
1230065088 Orig							11																
1230065088 Dup							11																
1323016002 Orig								0.8	< 0.5	22	749	1	15	8	147	1.98	10	< 10	29	< 0.5	< 2	1.43	9
1323016002 Dup								0.8	< 0.5	21	747	< 1	14	8	146	2.02	9	< 10	31	< 0.5	< 2	1.42	9
1323016105 Orig																							
1323016105 Dup																							
1230064079 Orig							12																
1230064079 Dup							11																
1323007027 Orig								0.9	< 0.5	212	336	2	19	3	90	2.01	9	< 10	21	< 0.5	4	0.68	8
1323007027 Dup								0.9	< 0.5	207	327	2	18	3	85	1.95	8	< 10	24	< 0.5	4	0.66	7
1323007150 Orig																							
1323007150 Dup																							
1230064147 Orig	31.8	15.3	-16.4	37.1	0.413																		
1230064147 Dup	31.8	14.7	-17.0	37.1	0.397																		
1230064262 Orig																							
1230064262 Dup																							
1230064232 Orig								4.2	< 0.5	21	567	1	15	64	147	0.71	42	< 10	26	< 0.5	< 2	1.46	10
1230064232 Dup								4.7	< 0.5	22	574	1	15	67	155	0.71	45	< 10	29	< 0.5	< 2	1.48	10
1432097378 Orig							8																
1432097378 Dup							8																
1230064185 Orig						9.10																	
1230064185 Dup						9.09																	
1230064215 Orig																							
1230064215 Dup																							
1230064110 Orig							199																
1230064110 Dup							226																
1323011103 Orig																							
1323011103 Dup																							
1323011012 Orig								0.2	< 0.5	61	281	3	15	2	42	2.04	8	< 10	29	< 0.5	< 2	0.76	8
1323011012 Dup								0.2	< 0.5	65	286	3	13	< 2	43	2.08	6	< 10	29	< 0.5	< 2	0.76	8
1230063191 Orig																							
1230063191 Dup																							
1230063221 Orig	24.1	5.50	-18.6	23.6	0.233																		
1230063221 Dup	24.1	5.48	-18.6	23.6	0.232																		
1323011098 Orig							67																
1323011098 Dup							61																
1323011001 Orig								1.1	0.9	127	512	< 1	23	3	271	3.10	27	< 10	21	< 0.5	< 2	1.24	15
1323011001 Dup								1.0	0.8	125	511	< 1	23	3	253	3.07	28	< 10	18	< 0.5	< 2	1.24	15
1323009372 Orig							101																
1323009372 Dup							93																
GC20-1024-002 Orig							155	0.4	< 0.5	35	504	2	14	6	60	3.15	6	< 10	35	< 0.5	< 2	1.77	8
GC20-1024-002 Dup							205	0.3	< 0.5	36	504	2	22	6	58	3.15	7	< 10	35	< 0.5	< 2	1.76	8
1323009146 Orig																							
1323009146 Dup																							
F001807 Orig								4.7	< 0.5	29	236	1	7	10	41	1.29	< 2	< 10	41	< 0.5	< 2	0.75	8
F001807 Dup								4.7	< 0.5	29	236	< 1	8	11	40	1.31	< 2	< 10	40	< 0.5	< 2	0.75	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-1007-004 Orig							178																
GC20-1007-004 Dup							156																
1323008223 Orig						8.83																	
1323008223 Dup						8.87																	
1323008104 Orig								< 0.2	< 0.5	37	530	< 1	27	4	75	1.47	< 2	< 10	52	< 0.5	< 2	2.32	8
1323008104 Dup								< 0.2	< 0.5	38	532	< 1	29	5	74	1.51	2	< 10	84	< 0.5	< 2	2.31	9
1323008297 Orig							285																
1323008297 Dup							307																
1432089303 Orig																							
1432089303 Dup																							
1432089213 Orig								0.3	< 0.5	50	1020	< 1	45	5	158	3.56	8	< 10	36	< 0.5	< 2	3.70	30
1432089213 Dup								0.3	< 0.5	50	1020	< 1	43	5	157	3.61	4	< 10	37	< 0.5	< 2	3.73	30
1230063018 Orig						9.18																	
1230063018 Dup						9.19																	
1230063065 Orig	8.44	8.84	0.402	8.27	1.07																		
1230063065 Dup	8.44	8.86	0.424	8.27	1.07																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank							< 5																
Method Blank							< 5																
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	74	5.22	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		3	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	74	5.27	20	< 1	1.12	11	0.38	0.079	0.032	0.01	4	24	34		< 1	< 2	< 10	157	< 10	7	7		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	75	5.31	20	< 1	1.11	11	0.38	0.079	0.032	0.01	5	24	33		< 1	< 2	< 10	161	< 10	7	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	6.03	20	2	1.13	< 10	0.40	0.143	0.034	0.01	5	19	29		< 1	< 2	< 10	171	< 10	5	6		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	79	5.94	20	3	1.15	< 10	0.40	0.141	0.034	0.01	4	19	29		< 1	2	< 10	172	< 10	5	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
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BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.05	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.52
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.53
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
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NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	43	5.06	< 10		0.48	36	1.30	0.023	0.061	0.37	< 2	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.12	< 10		0.48	36	1.31	0.025	0.061	0.37	3	4	16			< 2	< 10	34	< 10	20	16		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	43	5.13	< 10		0.44	36	1.31	0.023	0.062	0.37	< 2	4	16			< 2	< 10	34	< 10	19	23		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.31	< 10		0.46	36	1.33	0.032	0.062	0.38	< 2	4	16			< 2	< 10	35	< 10	20	24		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.16	< 10		0.48	36	1.30	0.034	0.059	0.38	2	4	16			< 2	< 10	35	< 10	21	19		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	40	5.79	< 10		0.40	32	1.37		0.057	0.67	< 2	4	14			< 2	< 10	33	< 10	18	24		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.83	< 10		0.41	33	1.38		0.058	0.68	< 2	4	14			< 2	< 10	34	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	5.86	< 10		0.39	32	1.39		0.058	0.65	3	4	14			< 2	< 10	33	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	40	6.05	< 10		0.39	32	1.41		0.058	0.69	4	4	14			< 2	< 10	34	< 10	18	29		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.96	< 10		0.42	33	1.40		0.057	0.69	3	4	14			< 2	< 10	35	< 10	19	24		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 621 (Aqua Regia) Meas	28	3.42	< 10	3	0.39	19	0.43	0.185	0.032	4.62	97	2	18			< 2	< 10	13	< 10	8	52		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	4	0.39	20	0.43	0.185	0.032	4.57	107	2	18			< 2	< 10	13	< 10	8	61		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	33	3.42	< 10	3	0.36	20	0.43	0.181	0.033	4.59	103	2	18			< 2	< 10	12	< 10	7	67		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	31	3.44	< 10	4	0.37	18	0.43	0.173	0.033	4.69	114	2	18			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	35	3.40	10	4	0.39	20	0.43	0.188	0.033	4.78	121	2	20			5	< 10	13	< 10	8	68		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.05	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
1230065160 Orig	265	2.08	< 10	< 1	0.38	17	0.88	0.062	0.039	0.25	< 2	2	36	0.09	< 1	< 2	< 10	21	< 10	2	6	0.60	0.24
1230065160 Dup	268	2.08	< 10	< 1	0.38	17	0.87	0.063	0.038	0.25	< 2	2	36	0.10	< 1	< 2	< 10	21	< 10	2	6	0.61	0.25
1230065088 Orig																							
1230065088 Dup																							
1323016002 Orig	201	2.41	< 10	< 1	0.17	16	1.28	0.181	0.041	2.16	3	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	3	11		
1323016002 Dup	197	2.41	< 10	< 1	0.18	16	1.29	0.185	0.041	2.15	2	< 1	58	< 0.01	< 1	< 2	< 10	11	< 10	3	14		
1323016105 Orig																						0.30	2.19
1323016105 Dup																						0.30	2.19
1230064079 Orig																							
1230064079 Dup																							
1323007027 Orig	296	3.43	< 10	< 1	0.27	14	1.11	0.154	0.039	2.92	4	< 1	52	< 0.01	< 1	< 2	< 10	11	< 10	3	20		
1323007027 Dup	287	3.37	< 10	< 1	0.26	14	1.08	0.152	0.039	2.88	3	< 1	51	< 0.01	2	< 2	< 10	11	< 10	3	23		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1323007150 Orig																						0.22	2.11
1323007150 Dup																						0.23	2.06
1230064147 Orig																							
1230064147 Dup																							
1230064262 Orig																						0.21	0.26
1230064262 Dup																						0.21	0.25
1230064232 Orig	171	1.90	< 10	< 1	0.30	17	0.21	0.026	0.041	2.01	2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	2	9		
1230064232 Dup	177	1.94	< 10	< 1	0.30	18	0.21	0.027	0.043	2.02	< 2	< 1	20	< 0.01	< 1	< 2	< 10	5	< 10	2	10		
1432097378 Orig																							
1432097378 Dup																							
1230064185 Orig																							
1230064185 Dup																							
1230064215 Orig																						0.18	0.40
1230064215 Dup																						0.19	0.39
1230064110 Orig																							
1230064110 Dup																							
1323011103 Orig																						0.09	0.93
1323011103 Dup																						0.09	0.92
1323011012 Orig	203	2.24	< 10	< 1	0.13	17	1.25	0.140	0.048	1.31	3	1	78	< 0.01	1	< 2	< 10	16	< 10	3	3		
1323011012 Dup	209	2.27	< 10	< 1	0.13	17	1.26	0.141	0.049	1.32	< 2	1	77	< 0.01	4	< 2	< 10	16	< 10	3	2		
1230063191 Orig																						0.49	0.54
1230063191 Dup																						0.49	0.55
1230063221 Orig																							
1230063221 Dup																							
1323011098 Orig																							
1323011098 Dup																							
1323011001 Orig	141	4.13	< 10	< 1	0.22	12	2.01	0.150	0.045	2.78	3	3	83	0.07	< 1	< 2	< 10	37	< 10	5	18		
1323011001 Dup	137	4.05	< 10	< 1	0.21	12	2.00	0.149	0.045	2.74	< 2	3	82	0.07	< 1	< 2	< 10	36	< 10	5	19		
1323009372 Orig																							
1323009372 Dup																							
GC20-1024-002 Orig	276	2.35	< 10	< 1	0.19	14	0.62	0.271	0.040	1.31	3	< 1	153	0.04	4	< 2	< 10	10	< 10	3	4		
GC20-1024-002 Dup	277	2.37	< 10	< 1	0.18	14	0.62	0.271	0.040	1.33	3	< 1	154	0.04	3	< 2	< 10	10	< 10	3	5		
1323009146 Orig																						0.24	2.81
1323009146 Dup																						0.25	2.91
F001807 Orig	12	2.04	< 10	< 1	0.25	12	0.44	0.242	0.034	0.03	< 2	2	33	0.34	4	< 2	< 10	46	< 10	17	10		
F001807 Dup	12	2.06	< 10	< 1	0.25	12	0.44	0.244	0.034	0.03	< 2	2	33	0.34	3	< 2	< 10	47	< 10	17	13		
GC20-1007-004 Orig																							
GC20-1007-004 Dup																							
1323008223 Orig																							
1323008223 Dup																							
1323008104 Orig	245	2.03	< 10	< 1	0.30	52	0.81	0.081	0.086	0.43	< 2	2	140	0.02	< 1	< 2	< 10	20	< 10	5	2		
1323008104 Dup	249	2.03	< 10	< 1	0.31	53	0.81	0.084	0.086	0.43	< 2	2	142	0.03	< 1	< 2	< 10	21	< 10	5	2		
1323008297 Orig																							
1323008297 Dup																							
1432089303 Orig																						1.83	0.66
1432089303 Dup																						1.84	0.67
1432089213 Orig	139	7.77	10	< 1	0.18	< 10	2.16	0.184	0.070	0.64	5	16	76	0.15	< 1	< 2	< 10	182	< 10	13	6		
1432089213 Dup	141	7.84	10	< 1	0.18	< 10	2.19	0.189	0.071	0.64	5	16	76	0.15	2	< 2	< 10	183	< 10	13	6		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1230063018 Orig																							
1230063018 Dup																							
1230063065 Orig																							
1230063065 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
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BaSO4 Meas	
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BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
BaSO4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
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GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
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NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 923 (AQUA REGIA) Meas	
OREAS 923 (AQUA REGIA) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.1
OREAS 229b (Fire Assay) Cert	11.9
OREAS 229b (Fire Assay) Meas	11.6
OREAS 229b (Fire Assay) Cert	11.9
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
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GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	14.3
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
1230065160 Orig	
1230065160 Dup	
1230065088 Orig	
1230065088 Dup	
1323016002 Orig	
1323016002 Dup	
1323016105 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323016105 Dup	
1230064079 Orig	
1230064079 Dup	
1323007027 Orig	
1323007027 Dup	
1323007150 Orig	
1323007150 Dup	
1230064147 Orig	
1230064147 Dup	
1230064262 Orig	
1230064262 Dup	
1230064232 Orig	
1230064232 Dup	
1432097378 Orig	
1432097378 Dup	
1230064185 Orig	
1230064185 Dup	
1230064215 Orig	
1230064215 Dup	
1230064110 Orig	
1230064110 Dup	
1323011103 Orig	
1323011103 Dup	
1323011012 Orig	
1323011012 Dup	
1230063191 Orig	
1230063191 Dup	
1230063221 Orig	
1230063221 Dup	
1323011098 Orig	
1323011098 Dup	
1323011001 Orig	
1323011001 Dup	
1323009372 Orig	
1323009372 Dup	
GC20-1024-002 Orig	
GC20-1024-002 Dup	
1323009146 Orig	
1323009146 Dup	
F001807 Orig	
F001807 Dup	
GC20-1007-004 Orig	
GC20-1007-004 Dup	
1323008223 Orig	
1323008223 Dup	
1323008104 Orig	
1323008104 Dup	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1323008297 Orig	
1323008297 Dup	
1432089303 Orig	
1432089303 Dup	
1432089213 Orig	
1432089213 Dup	
1230063018 Orig	
1230063018 Dup	
1230063065 Orig	
1230063065 Dup	
Method Blank	
Method Blank	
Method Blank	
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Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02
Method Blank	< 0.02

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-16161**
Report Date:	**03-Feb-21**
Date Submitted:	**16-Dec-20**
Your Reference:	**2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

192 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-18 15:01:35
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2021-01-20 14:30:02
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-25 15:02:51

REPORT **A20-16161**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F002933 is insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-16161**
Report Date: **03-Feb-21**
Date Submitted: **16-Dec-20**
Your Reference: **2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

192 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-13 21:49:46
4F-C, S	Infrared	2021-01-05 21:28:08

REPORT **A20-16161**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample F002933 is insufficient

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1321001004	3.12	9.46	6.35	8.57	1.10	8.57	12	< 0.2	< 0.5	109	466	< 1	46	< 2	58	4.59	< 2	< 10	13	< 0.5	< 2	2.96	24
GC20-0458-001							138	0.8	< 0.5	159	471	3	18	3	141	1.62	12	< 10	33	< 0.5	< 2	1.02	9
GC20-0456-011							253	0.9	< 0.5	93	438	3	14	< 2	100	1.26	15	< 10	16	< 0.5	< 2	0.80	9
1321001168	50.1	10.2	-39.9	58.5	0.175	8.36	371	0.6	3.2	89	692	1	14	< 2	892	2.18	7	< 10	31	< 0.5	< 2	0.94	9
GC20-0457-008							99	0.7	< 0.5	172	474	4	14	< 2	133	1.56	11	< 10	21	< 0.5	< 2	0.81	9
GC20-0452-019							145	0.4	4.6	125	715	2	18	< 2	1100	1.23	5	< 10	32	< 0.5	< 2	2.75	10
1321001108	66.8	6.36	-60.4	72.3	0.0880	8.26	64	0.4	< 0.5	64	361	< 1	15	< 2	111	2.77	11	< 10	26	< 0.5	< 2	1.37	10
1321001156	60.1	14.9	-45.2	68.3	0.218	8.29	163	0.6	0.6	53	469	< 1	18	4	196	2.64	11	< 10	29	< 0.5	< 2	1.42	12
GC20-0460-001							172	0.3	< 0.5	29	872	4	15	5	51	0.75	11	< 10	38	< 0.5	< 2	4.93	10
GC20-0460-018							36	0.2	4.0	54	795	< 1	25	< 2	997	2.46	5	< 10	25	< 0.5	< 2	1.73	12
1322015233	30.7	9.86	-20.9	34.6	0.285	8.37	117	0.9	< 0.5	178	411	1	10	12	106	2.67	6	< 10	44	< 0.5	3	1.19	7
F002934							1060	3.3	< 0.5	34	269	< 1	8	17	46	1.40	< 2	< 10	47	< 0.5	< 2	0.83	9
1322015289	21.9	30.6	8.74	21.4	1.43	8.64	14	< 0.2	< 0.5	31	662	< 1	12	53	157	1.96	7	< 10	54	< 0.5	< 2	1.52	7
1432003001	36.8	78.9	42.2	42.3	1.87	8.57	85	0.4	0.6	14	835	< 1	18	3	150	1.63	15	< 10	40	< 0.5	< 2	2.81	10
1432003058	11.4	164	153	20.5	7.99	8.24	19	0.3	< 0.5	228	1310	< 1	45	< 2	184	3.85	8	< 10	23	< 0.5	< 2	4.89	39
1432003247	14.6	87.1	72.6	20.2	4.31	8.92	12	< 0.2	< 0.5	35	925	< 1	43	27	127	2.26	7	< 10	80	< 0.5	< 2	3.46	20
1432005093	13.7	22.5	8.73	17.8	1.27	8.75	14	0.3	< 0.5	38	701	1	24	5	149	4.80	9	< 10	100	< 0.5	< 2	2.79	13
1322012009	3.13	4.86	1.73	3.06	1.59	8.70	< 5	< 0.2	< 0.5	114	517	< 1	44	< 2	49	5.22	< 2	< 10	< 10	< 0.5	< 2	3.38	24
1322012032	2.50	6.35	3.85	2.45	2.59	8.57	< 5	< 0.2	< 0.5	112	482	< 1	46	< 2	44	5.18	< 2	< 10	< 10	< 0.5	< 2	3.29	24
1331002074	9.26	55.6	46.3	13.8	4.03	8.50	24	0.3	< 0.5	20	630	< 1	29	< 2	94	2.16	5	< 10	49	< 0.5	< 2	2.48	11
1229075248	5.93	29.9	23.9	11.6	2.57	9.06	6	0.3	< 0.5	28	579	2	17	5	112	1.36	8	< 10	86	< 0.5	< 2	1.51	8
1331002412	12.1	67.0	54.9	20.8	3.22	8.85	58	0.3	1.2	15	943	< 1	17	2	301	2.16	43	< 10	48	< 0.5	< 2	2.60	9
1331002061	38.9	94.8	55.9	53.6	1.77	8.26	25	0.5	< 0.5	119	1090	< 1	73	4	168	3.20	9	< 10	47	< 0.5	< 2	3.89	42
1322012069	32.0	7.61	-24.4	36.8	0.207	8.34	833	0.5	< 0.5	97	432	< 1	10	5	85	3.43	7	< 10	44	< 0.5	< 2	1.49	9
1432003017	36.3	120	83.9	55.4	2.17	8.22	74	0.6	0.7	45	1780	< 1	12	3	228	3.13	18	< 10	24	< 0.5	< 2	4.38	32
1322012006	4.06	8.97	4.91	3.98	2.25	8.75	< 5	< 0.2	< 0.5	116	507	< 1	43	< 2	75	5.56	< 2	< 10	18	< 0.5	< 2	3.56	21
1331002417	13.2	50.5	37.2	17.1	2.94	9.02	23	0.2	< 0.5	20	788	< 1	21	3	129	2.40	14	< 10	55	< 0.5	< 2	2.27	11
1432005139	7.49	26.8	19.3	10.7	2.50	8.93	7	< 0.2	< 0.5	21	557	< 1	30	4	120	3.94	4	< 10	107	< 0.5	< 2	2.64	12
1331002114	14.1	47.2	33.1	13.8	3.42	8.88	6	< 0.2	< 0.5	20	756	< 1	26	< 2	79	1.76	6	< 10	89	< 0.5	< 2	2.09	12
1331002349	8.64	45.4	36.7	12.6	3.61	8.99	15	0.2	< 0.5	24	675	< 1	20	3	121	2.62	9	< 10	45	< 0.5	< 2	2.23	11
1331002001	13.1	93.5	80.4	22.4	4.18	8.50	119	0.4	< 0.5	74	1020	< 1	56	5	151	3.68	9	< 10	67	< 0.5	< 2	3.75	32
1432003301	32.4	140	108	44.4	3.16	8.46	272	0.7	0.5	62	1480	< 1	185	11	160	4.02	53	< 10	40	< 0.5	< 2	4.50	53
1331002170	13.0	48.9	35.9	16.2	3.01	8.63	11	< 0.2	0.8	19	811	< 1	21	5	237	2.46	10	< 10	59	< 0.5	< 2	2.39	10
F002933							774																
1331003167	1.88	93.3	91.4	1.84	50.8	8.48	< 5	< 0.2	< 0.5	48	725	< 1	130	< 2	75	3.69	3	< 10	23	< 0.5	< 2	3.45	43
1331013406	7.08	29.3	22.2	10.1	2.90	9.09	12	0.2	< 0.5	19	499	< 1	31	< 2	119	1.60	6	< 10	106	< 0.5	< 2	1.33	10
1432098067	101	69.8	-31.1	122	0.573	8.30	639	2.8	2.5	163	2020	< 1	46	4	505	2.66	73	< 10	29	< 0.5	< 2	3.73	33
1331003003	25.4	70.7	45.3	41.0	1.72	8.14	49	0.6	< 0.5	64	1480	< 1	11	9	219	3.65	36	< 10	12	< 0.5	< 2	2.94	31
GC20-0474-009FD							342	0.9	< 0.5	150	450	4	14	3	71	1.66	39	< 10	19	< 0.5	< 2	0.68	11
1331003217	1.24	106	105	7.04	15.0	8.50	< 5	< 0.2	< 0.5	70	882	< 1	177	< 2	89	4.18	4	< 10	60	< 0.5	< 2	3.79	46
1331013374	0.000	40.4	40.4	3.06	13.2	8.85	156	0.3	< 0.5	22	768	< 1	6	2	187	2.89	6	< 10	73	< 0.5	< 2	2.67	14
1229074617	28.7	48.0	19.2	35.8	1.34	8.67	49	2.2	< 0.5	19	1080	1	18	22	55	1.70	43	< 10	36	< 0.5	< 2	2.38	9
GC20-0471-015							867	1.1	< 0.5	155	500	3	12	3	68	2.56	10	< 10	34	< 0.5	< 2	1.84	9
GC20-0475-002							3760	2.5	< 0.5	380	554	3	15	3	126	2.53	15	< 10	25	< 0.5	< 2	1.53	10
GC20-0562-005							963	0.7	< 0.5	142	438	1	10	< 2	35	2.01	8	< 10	40	0.6	4	0.74	8
1331013631	2.50	46.6	44.1	2.45	19.0	8.92	11	< 0.2	< 0.5	27	867	< 1	14	4	147	2.22	3	< 10	102	< 0.5	< 2	2.33	11
GC20-0562-006							444	0.4	< 0.5	20	378	< 1	6	10	29	2.68	7	< 10	43	< 0.5	< 2	0.97	8
GC20-0471-001							288	0.8	< 0.5	163	528	3	13	4	96	2.42	15	< 10	42	< 0.5	< 2	1.67	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1331013271	0.202	64.6	64.4	4.59	14.1	8.87	15	< 0.2	< 0.5	27	881	< 1	28	4	202	2.92	3	< 10	127	< 0.5	< 2	3.13	22
GC20-0563-001							361	1.2	< 0.5	441	406	< 1	8	3	48	2.33	5	< 10	40	< 0.5	< 2	1.25	7
1432098063	94.7	82.2	-12.4	111	0.742	8.11	326	1.7	< 0.5	80	1690	< 1	62	3	186	3.98	29	< 10	35	< 0.5	< 2	3.66	35
1432098003	41.0	48.8	7.80	46.9	1.04	8.60	100	0.7	< 0.5	9	752	2	20	3	91	2.40	18	< 10	31	< 0.5	< 2	2.20	9
1331013274	12.5	30.6	18.1	12.3	2.50	8.91	20	< 0.2	2.6	62	637	< 1	26	6	544	1.58	3	< 10	116	< 0.5	< 2	1.44	9
1331013518	20.9	19.2	-1.73	29.4	0.653	8.40	396	0.5	< 0.5	100	900	3	24	< 2	168	3.26	8	< 10	47	< 0.5	< 2	2.39	30
F002932							3330	2.7	< 0.5	41	259	15	14	14	41	1.41	4	< 10	52	< 0.5	< 2	0.85	8
1432098036	200	66.1	-134	244	0.271	7.91	1010	3.5	< 0.5	64	1530	3	67	5	187	2.90	78	< 10	< 10	< 0.5	< 2	2.59	42
1331013579	5.82	19.9	14.1	14.4	1.38	9.06	52	0.9	< 0.5	356	464	< 1	974	< 2	50	3.53	7	< 10	135	< 0.5	< 2	1.15	63
1331013535	15.9	40.5	24.5	27.9	1.45	8.61	82	0.5	0.8	31	821	< 1	16	5	245	2.21	15	< 10	42	< 0.5	< 2	2.18	11
GC20-0569-008							122	< 0.2	< 0.5	61	280	< 1	9	< 2	24	2.98	3	< 10	32	< 0.5	< 2	1.27	5
1331013265	13.4	54.6	41.2	16.5	3.30	8.91	18	< 0.2	1.3	18	914	< 1	18	3	367	2.77	4	< 10	68	< 0.5	< 2	2.65	8
1331013292	15.8	42.2	26.4	19.0	2.22	8.97	88	0.3	0.8	20	808	< 1	22	2	256	2.78	5	< 10	75	< 0.5	< 2	2.31	10
1331003472	22.9	132	109	38.0	3.48	8.26	270	1.2	3.1	69	1770	< 1	47	10	629	2.73	58	< 10	33	< 0.5	< 2	4.40	31
1331003433	35.8	127	91.7	50.5	2.52	8.35	53	0.5	< 0.5	98	1140	< 1	57	3	138	3.28	17	< 10	51	< 0.5	< 2	4.73	38
1331003442	1.55	126	125	7.96	15.9	8.32	124	0.3	< 0.5	84	919	< 1	57	< 2	101	3.33	11	< 10	29	< 0.5	< 2	4.46	33
1331013256	0.620	50.8	50.1	3.98	12.7	8.95	21	< 0.2	1.0	29	812	< 1	17	6	283	1.98	3	< 10	120	< 0.5	< 2	2.48	10
1331013214	0.406	27.1	26.7	7.35	3.68	8.86	17	< 0.2	< 0.5	30	552	< 1	18	< 2	174	2.43	< 2	< 10	52	< 0.5	< 2	1.75	10
1331013573	9.99	33.1	23.1	16.2	2.04	8.73	500	0.4	< 0.5	69	796	3	25	< 2	129	2.54	3	< 10	22	< 0.5	< 2	2.92	27
1331003042	3.85	97.2	93.4	8.27	11.8	8.32	8	< 0.2	< 0.5	32	1190	< 1	11	< 2	98	2.95	11	< 10	11	< 0.5	< 2	3.67	36
1331003459	5.41	85.7	80.3	11.6	7.36	8.69	43	0.2	< 0.5	86	936	< 1	59	< 2	141	2.84	13	< 10	90	< 0.5	< 2	3.58	37
1331003106	4.78	130	125	10.1	12.8	8.50	40	0.5	< 0.5	189	1000	< 1	41	3	130	3.88	7	< 10	23	< 0.5	< 2	4.89	31
1229074013	25.5	49.5	24.0	30.3	1.63	9.01	26	2.1	0.7	21	745	< 1	11	31	174	1.02	47	< 10	38	< 0.5	< 2	2.33	7
1229074087	48.3	11.5	-36.8	52.4	0.219	8.55	335	6.8	< 0.5	39	1090	< 1	70	33	168	3.27	36	< 10	23	0.9	< 2	1.21	23
1331013232	0.620	42.1	41.5	3.67	11.5	8.89	26	< 0.2	0.6	27	927	< 1	5	4	248	2.03	< 2	< 10	103	< 0.5	< 2	2.29	7
GC20-0570-008							204	0.3	< 0.5	202	273	3	8	< 2	57	2.23	4	< 10	31	< 0.5	< 2	1.19	3
1331003254	0.290	154	154	15.0	10.3	8.46	< 5	0.2	< 0.5	57	1300	< 1	210	4	116	4.21	28	< 10	18	< 0.5	< 2	5.28	54
1331003207	1.88	61.2	59.3	1.84	33.3	8.50	5	< 0.2	< 0.5	60	774	< 1	104	< 2	89	4.06	4	< 10	< 10	< 0.5	< 2	3.06	39
GC20-0567-001							65	0.3	< 0.5	29	416	< 1	13	4	51	2.71	5	< 10	42	< 0.5	< 2	1.27	8
GC20-0588-002							301	0.3	< 0.5	134	265	5	9	< 2	29	3.10	6	< 10	30	< 0.5	< 2	0.95	10
1331003108	4.16	148	144	10.7	13.8	8.42	21	0.5	< 0.5	263	928	< 1	59	< 2	132	3.95	9	< 10	18	< 0.5	< 2	5.42	36
F002931							3400	2.5	< 0.5	42	263	15	14	13	44	1.47	7	< 10	46	< 0.5	< 2	0.91	8
1322012054	11.9	12.2	0.354	11.6	1.05	8.63	46	< 0.2	< 0.5	102	601	< 1	47	3	61	4.55	4	< 10	25	< 0.5	< 2	2.88	21
1331002138	7.39	42.1	34.7	10.7	3.93	8.73	20	< 0.2	< 0.5	43	742	< 1	44	< 2	154	2.54	4	< 10	61	< 0.5	< 2	2.48	12
1331002067	15.4	54.1	38.7	18.7	2.90	8.94	20	< 0.2	< 0.5	15	1050	< 1	30	< 2	89	1.83	5	< 10	83	< 0.5	< 2	2.47	12
1229075178	5.63	21.3	15.7	5.51	3.87	9.31	16	0.2	< 0.5	14	513	< 1	14	< 2	140	2.04	4	< 10	102	< 0.5	< 2	1.49	11
1331002047	25.0	52.8	27.8	28.5	1.85	8.73	13	< 0.2	0.6	17	650	< 1	19	9	225	1.99	8	< 10	51	< 0.5	< 2	2.48	10
1229075559	5.31	17.8	12.5	5.21	3.42	9.16	13	< 0.2	< 0.5	31	497	< 1	20	111	134	1.77	< 2	< 10	56	< 0.5	< 2	1.28	10
1229075545	13.5	25.6	12.1	17.5	1.47	8.77	20	1.0	0.5	27	639	< 1	17	8	183	2.15	11	< 10	45	< 0.5	< 2	1.83	8
GC20-1049-014							477	0.8	< 0.5	179	519	2	14	< 2	64	2.48	7	< 10	30	< 0.5	< 2	1.35	9
1331002200	4.99	22.0	17.0	9.80	2.25	8.95	11	< 0.2	< 0.5	27	533	< 1	16	3	189	1.28	3	< 10	93	< 0.5	< 2	1.23	7
1229075579	15.0	17.6	2.62	18.7	0.943	9.20	30	0.3	< 0.5	31	796	< 1	19	4	189	3.35	8	< 10	82	< 0.5	< 2	2.07	11
1229075525	5.62	25.5	19.9	9.49	2.69	9.16	8	0.2	0.6	12	526	< 1	18	3	205	1.47	4	< 10	60	< 0.5	< 2	1.56	7
1331002240	35.2	80.8	45.6	42.3	1.91	8.54	30	0.3	< 0.5	105	844	< 1	60	< 2	170	2.80	9	< 10	39	< 0.5	< 2	3.54	35
1432003009	111	120	9.06	138	0.873	7.96	370	1.8	1.3	82	1830	< 1	15	4	385	2.59	32	< 10	14	< 0.5	< 2	4.28	24
1432003246	8.44	57.2	48.8	8.27	6.92	9.03	16	< 0.2	< 0.5	43	494	< 1	36	114	127	1.78	< 2	< 10	144	< 0.5	< 2	2.41	12
1229075220	12.9	32.8	19.9	15.9	2.06	8.59	62	0.5	0.8	15	579	< 1	17	5	227	2.12	5	< 10	44	< 0.5	< 2	2.26	7
1331002004	39.4	87.5	48.2	47.2	1.86	8.43	19	0.3	< 0.5	66	1050	< 1	50	7	144	2.45	8	< 10	36	< 0.5	< 2	3.65	29
1331002164	18.6	40.1	21.5	21.4	1.87	8.57	16	< 0.2	< 0.5	39	668	< 1	24	3	210	2.05	5	< 10	45	< 0.5	< 2	2.14	12

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1432006213	68.7	67.9	-0.878	78.7	0.862	8.51	224	0.9	0.6	81	1360	< 1	35	2	191	3.84	14	< 10	24	< 0.5	< 2	3.72	22
1432006201	57.1	114	57.0	68.6	1.66	8.60	316	1.8	2.7	95	1420	< 1	31	5	757	3.23	15	< 10	26	< 0.5	< 2	3.79	21
1229075541	11.6	27.2	15.6	14.7	1.85	8.92	28	1.2	< 0.5	13	514	< 1	15	15	56	2.99	16	< 10	39	< 0.5	< 2	1.85	6
GC20-1048-001							98	0.4	< 0.5	40	327	< 1	11	4	75	2.37	13	< 10	14	< 0.5	< 2	0.88	8
GC20-1048-018							377	0.7	< 0.5	144	516	4	11	< 2	63	1.93	10	< 10	28	< 0.5	< 2	1.10	9
F002930							769	4.9	< 0.5	29	235	< 1	8	11	39	1.27	< 2	< 10	43	< 0.5	< 2	0.67	8
1331004400	4.89	62.6	57.7	8.88	7.05	8.47	32	0.2	< 0.5	48	860	< 1	76	< 2	149	3.90	7	14	20	< 0.5	< 2	3.18	29
1331002258	9.38	41.1	31.7	9.19	4.47	9.03	28	< 0.2	< 0.5	27	992	< 1	20	2	179	2.54	< 2	< 10	65	< 0.5	< 2	2.18	15
GC20-0506-002							1600	0.7	< 0.5	293	255	2	8	< 2	27	2.70	10	< 10	31	< 0.5	4	1.19	6
GC20-0507-006							1080	0.5	< 0.5	219	218	< 1	6	< 2	22	2.81	8	< 10	29	< 0.5	2	1.07	6
GC20-0511-002							714	0.3	< 0.5	105	284	< 1	7	< 2	25	3.38	5	< 10	36	< 0.5	3	2.08	6
1331004366	10.5	43.5	33.0	14.1	3.09	8.80	14	0.3	< 0.5	77	805	< 1	67	5	166	3.55	6	14	29	< 0.5	< 2	2.31	25
1331004001	14.1	96.9	82.9	20.2	4.80	8.73	31	0.3	< 0.5	133	781	< 1	52	7	148	3.40	5	< 10	38	< 0.5	< 2	3.83	30
1331004220	16.3	38.7	22.4	15.9	2.43	9.00	21	< 0.2	< 0.5	59	736	< 1	15	5	118	2.13	8	< 10	51	< 0.5	< 2	2.10	9
1331004351	17.8	135	117	24.8	5.45	8.60	8	< 0.2	< 0.5	66	1110	< 1	123	< 2	154	3.88	9	< 10	25	< 0.5	< 2	4.12	39
GC20-0518-005							107	1.2	< 0.5	102	543	2	13	10	193	2.76	48	< 10	25	< 0.5	3	0.61	12
1331004350	20.6	123	102	27.3	4.51	8.62	12	0.3	< 0.5	65	1060	< 1	93	3	109	3.59	9	< 10	59	< 0.5	< 2	3.93	36
1229075160	38.7	41.3	2.59	42.6	0.971	8.75	136	17.0	0.9	25	1070	< 1	10	100	245	0.87	80	< 10	34	< 0.5	< 2	1.73	7
1229075259	37.7	22.7	-15.0	42.0	0.541	8.91	39	0.7	< 0.5	17	326	< 1	15	18	85	1.20	31	< 10	33	< 0.5	< 2	1.08	9
GC20-0512-009FD							242	0.6	< 0.5	226	288	1	15	3	33	2.99	10	< 10	40	< 0.5	< 2	0.69	6
GC20-0508-013							286	0.4	< 0.5	106	244	< 1	5	< 2	22	2.61	10	< 10	27	< 0.5	< 2	0.85	5
GC20-0509-009FD							759	0.5	< 0.5	180	256	< 1	7	2	28	2.36	15	< 10	19	< 0.5	5	1.02	6
1331004005	5.51	83.8	78.3	10.1	8.30	8.96	10	0.2	< 0.5	69	711	< 1	41	4	87	3.57	7	< 10	60	< 0.5	< 2	3.71	27
1229075188	2.50	9.34	6.84	2.45	3.81	9.09	6	< 0.2	< 0.5	106	378	< 1	42	< 2	40	5.35	< 2	< 10	12	< 0.5	< 2	3.50	20
F002929							1050	3.3	< 0.5	42	268	< 1	8	15	44	1.37	< 2	< 10	43	< 0.5	< 2	0.78	9
GC20-1050-010							628	0.7	< 0.5	131	588	3	9	3	106	2.25	6	< 10	31	< 0.5	< 2	1.33	10
1432006091	148	61.6	-86.6	165	0.374	8.32	263	2.3	< 0.5	38	1400	< 1	49	3	156	3.02	31	< 10	16	< 0.5	< 2	3.33	28
GC20-1053-010							590	0.8	< 0.5	179	326	3	11	3	50	1.48	19	< 10	20	< 0.5	< 2	0.72	9
GC20-1054-007							167	0.5	< 0.5	82	480	3	11	< 2	61	1.19	19	< 10	28	< 0.5	< 2	1.60	9
1432006148	43.1	49.8	6.73	58.5	0.852	8.46	141	1.1	0.9	89	1620	< 1	49	6	286	4.89	16	< 10	38	< 0.5	< 2	4.17	30
GC20-1051-001							423	1.0	< 0.5	140	450	3	13	< 2	62	1.59	11	< 10	32	< 0.5	2	1.29	9
GC20-1051-018							470	1.1	< 0.5	312	499	3	22	< 2	71	1.46	9	< 10	18	< 0.5	< 2	0.98	11
GC20-1052-014							992	1.2	< 0.5	179	354	3	12	3	38	1.35	37	< 10	19	< 0.5	2	0.75	9
GC20-0436-010							450	0.8	< 0.5	213	471	3	12	3	86	2.44	8	< 10	25	< 0.5	< 2	1.11	9
GC20-0435-014							818	0.7	< 0.5	117	417	3	10	2	65	1.80	13	< 10	27	< 0.5	< 2	1.54	8
1432006121	69.2	103	33.6	84.8	1.21	8.26	470	2.8	2.0	150	2010	< 1	61	51	556	3.60	50	< 10	30	< 0.5	< 2	3.43	36
GC20-1055-018							423	1.5	< 0.5	313	535	3	13	3	89	1.19	11	< 10	19	< 0.5	< 2	1.91	10
1432006183	31.2	60.3	29.1	48.7	1.24	8.16	34	0.6	< 0.5	51	1640	< 1	5	3	196	3.60	10	< 10	14	< 0.5	< 2	3.59	29
GC20-1055-012							207	1.4	< 0.5	350	544	3	13	2	59	1.78	17	< 10	21	< 0.5	< 2	1.32	10
GC20-0439-018							296	0.8	< 0.5	164	463	3	12	3	107	2.38	13	< 10	29	< 0.5	< 2	1.26	8
GC20-0439-001							78	0.4	< 0.5	21	287	< 1	14	4	56	2.16	7	< 10	18	< 0.5	< 2	0.69	9
1321001228	70.5	13.0	-57.5	75.6	0.172	8.27	162	1.1	< 0.5	429	442	< 1	11	10	80	2.32	11	< 10	24	< 0.5	10	1.26	8
1321001024	69.6	15.1	-54.4	73.8	0.205	8.11	193	0.4	< 0.5	78	347	1	18	5	83	2.69	12	< 10	26	< 0.5	2	1.37	11
GC20-0437-001							208	0.9	< 0.5	112	390	2	12	4	75	3.09	14	< 10	24	< 0.5	< 2	1.55	7
1432006185	30.1	65.5	35.4	42.3	1.55	8.14	51	0.4	< 0.5	44	1910	< 1	7	< 2	178	3.16	10	< 10	11	< 0.5	< 2	3.41	26
F002928							1030	3.2	< 0.5	33	263	< 1	7	16	44	1.32	< 2	< 10	43	< 0.5	< 2	0.75	9
GC20-0438-010							161	0.7	< 0.5	100	562	3	12	3	57	1.40	8	< 10	26	< 0.5	< 2	1.18	9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0444-009FD							120	0.4	< 0.5	27	603	3	13	< 2	72	1.27	13	< 10	19	< 0.5	< 2	0.87	11
GC20-0441-007							554	17.7	< 0.5	307	449	3	15	4	69	2.87	13	< 10	21	< 0.5	< 2	1.37	9
GC20-0442-001							509	0.5	< 0.5	116	468	3	11	3	70	2.32	9	< 10	25	< 0.5	< 2	1.13	9
GC20-0440-021							187	0.8	< 0.5	220	538	4	13	< 2	58	1.43	10	< 10	15	< 0.5	< 2	0.75	9
GC20-0450-010							990	1.3	< 0.5	271	522	3	13	< 2	72	1.08	11	< 10	33	< 0.5	< 2	1.42	9
1432006076	20.2	96.5	76.3	27.6	3.50	8.39	54	0.6	< 0.5	59	1290	< 1	117	3	182	4.39	14	< 10	17	< 0.5	< 2	3.80	32
GC20-0448-001							311	0.7	< 0.5	97	613	3	13	3	138	1.72	11	< 10	15	< 0.5	< 2	1.08	9
GC20-0445-018							104	0.6	5.9	143	665	3	13	< 2	1430	1.61	14	< 10	17	< 0.5	< 2	1.34	9
1321001225	65.9	8.24	-57.7	71.4	0.115	8.41	428	1.8	< 0.5	707	491	1	14	5	96	2.24	23	< 10	19	< 0.5	18	0.77	9
1432006152	27.0	71.5	44.5	34.9	2.05	8.58	198	0.7	0.9	58	1100	< 1	45	8	228	3.26	23	< 10	53	< 0.5	< 2	3.66	29
1321001026	111	15.1	-96.2	121	0.125	8.06	820	0.8	< 0.5	131	465	< 1	28	4	176	2.92	21	< 10	14	< 0.5	4	1.28	15
GC20-0446-014							74	0.6	1.8	132	450	4	12	4	437	1.79	9	< 10	15	< 0.5	< 2	0.94	9
GC20-0448-018							105	0.8	1.4	121	641	3	13	2	339	2.16	11	< 10	16	< 0.5	< 2	1.68	9
GC20-0443-013							291	0.6	< 0.5	81	525	3	16	< 2	137	1.53	8	< 10	17	< 0.5	< 2	1.08	8
GC20-0440-003							218	1.1	< 0.5	293	430	3	13	3	53	2.96	11	< 10	17	< 0.5	2	1.38	9
1432006087	132	82.1	-49.8	165	0.497	8.25	452	3.8	2.2	79	1640	< 1	58	7	492	3.72	38	< 10	15	< 0.5	< 2	3.28	34
1321001171	67.8	6.75	-61.1	72.3	0.0934	8.21	148	1.1	1.7	313	431	< 1	14	4	447	1.90	32	< 10	21	< 0.5	3	0.74	12
1321001066	84.5	9.86	-74.6	89.7	0.110	8.18	69	0.3	1.7	39	438	2	12	4	403	2.06	7	< 10	12	< 0.5	< 2	1.03	9
GC20-0445-001							370	0.7	< 0.5	122	565	3	14	2	80	1.81	10	< 10	17	< 0.5	< 2	1.39	10
1432006098	126	57.7	-68.3	162	0.356	8.04	634	5.7	1.5	279	1750	< 1	64	< 2	355	4.55	23	< 10	< 10	< 0.5	< 2	3.10	35
1432006042	62.2	71.8	9.65	72.9	0.985	8.36	201	1.3	< 0.5	38	1200	< 1	43	4	162	3.34	16	< 10	26	< 0.5	< 2	3.84	22
GC20-0449-021							58	0.4	0.8	66	519	< 1	12	7	254	2.95	7	< 10	23	< 0.5	< 2	1.30	11
1321001016	74.9	19.3	-55.6	79.6	0.243	8.23	86	0.4	< 0.5	62	266	2	17	< 2	61	1.76	7	< 10	13	< 0.5	2	0.91	11
F002927							766	4.9	< 0.5	30	241	< 1	7	11	41	1.33	< 2	< 10	41	< 0.5	< 2	0.69	8
1321005234	66.1	6.62	-59.5	72.0	0.0920	8.54	136	1.0	4.1	144	885	< 1	14	15	1110	2.59	59	< 10	17	< 0.5	2	0.41	11
1229074604	30.7	48.9	18.2	34.6	1.41	8.91	94	5.4	0.8	42	810	< 1	25	102	256	1.01	49	< 10	32	< 0.5	< 2	2.03	10
1229074688	55.0	34.6	-20.4	60.3	0.573	8.82	192	8.3	2.1	41	920	1	15	188	552	0.73	119	< 10	13	< 0.5	< 2	1.41	10
1321005250	15.1	65.0	49.9	19.3	3.37	8.83	35	< 0.2	< 0.5	36	800	< 1	56	10	145	2.40	7	< 10	37	< 0.5	< 2	3.04	14
GC20-0561-001							191	0.7	< 0.5	306	255	7	9	4	36	3.20	13	< 10	28	< 0.5	2	1.31	7
GC20-0560-001							507	0.4	< 0.5	307	233	< 1	9	< 2	25	2.90	4	< 10	33	< 0.5	< 2	1.21	5
1321005303	44.2	11.7	-32.4	50.8	0.230	8.51	178	0.2	< 0.5	74	285	< 1	11	< 2	56	3.04	11	< 10	22	< 0.5	< 2	1.07	10
1321005225	19.7	26.9	7.19	23.3	1.15	8.90	56	0.3	1.5	40	587	< 1	8	5	272	1.44	7	< 10	32	< 0.5	< 2	1.24	6
1432098092	55.2	86.7	31.5	69.8	1.24	8.28	279	1.3	0.7	73	1970	< 1	7	5	220	3.75	32	< 10	26	< 0.5	< 2	3.68	30
1331013431	15.6	32.5	16.8	18.4	1.77	8.96	19	0.4	0.9	28	535	1	43	5	317	1.91	6	< 10	53	< 0.5	< 2	1.63	12
1432098094	86.5	82.5	-4.08	104	0.794	8.32	507	2.0	0.7	84	1720	5	22	2	219	2.91	39	< 10	21	< 0.5	3	3.38	33
1321005255	61.6	9.36	-52.2	65.5	0.143	8.57	142	0.5	1.4	29	567	< 1	13	3	392	2.39	16	< 10	15	< 0.5	< 2	0.93	11
GC20-0559-010							414	0.5	< 0.5	286	289	< 1	6	2	24	2.82	6	< 10	30	< 0.5	2	1.28	4
GC20-0557-005							951	0.4	< 0.5	172	258	1	6	2	24	2.46	8	< 10	26	< 0.5	7	0.92	7
GC20-0537-005							296	1.1	< 0.5	164	327	< 1	13	11	38	3.02	3	< 10	46	< 0.5	2	0.82	9
GC20-0537-005							315	1.2	< 0.5	168	324	< 1	12	10	41	2.97	5	< 10	42	< 0.5	2	0.81	8
1432098116	95.7	116	20.4	115	1.01	8.42	705	1.8	0.7	162	1330	< 1	31	8	187	2.94	56	< 10	19	< 0.5	< 2	3.99	43
GC20-0468-011							479	0.8	< 0.5	221	409	3	13	4	57	3.62	11	< 10	14	< 0.5	< 2	1.70	10
1432098155	38.6	118	79.0	47.8	2.46	8.67	223	1.2	< 0.5	315	1020	< 1	67	< 2	139	3.17	15	< 10	13	< 0.5	< 2	3.75	40
1229074075	33.8	32.6	-1.27	38.3	0.851	8.69	28	0.4	< 0.5	19	874	< 1	16	10	65	2.17	17	< 10	24	< 0.5	< 2	1.73	8
1331013323	3.85	40.5	36.6	7.35	5.51	8.96	36	0.2	3.1	59	836	< 1	33	7	510	1.85	3	< 10	111	< 0.5	< 2	1.77	9
1321005304	34.4	8.24	-26.1	37.1	0.222	8.50	358	0.4	< 0.5	151	282	< 1	11	< 2	29	3.20	7	< 10	27	< 0.5	< 2	1.06	7
1229074658	31.1	18.8	-12.3	34.0	0.553	8.86	26	0.4	< 0.5	19	655	1	12	9	72	1.97	10	< 10	24	< 0.5	< 2	1.24	8
F002926							3230	2.6	< 0.5	40	252	14	12	15	41	1.43	6	< 10	49	< 0.5	< 2	0.85	8

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1321001004	203	4.24	< 10	< 1	0.04	< 10	1.73	0.463	0.021	0.24	3	5	62	0.24	< 1	< 2	< 10	131	< 10	5	5	0.32	0.28
GC20-0458-001	327	2.65	< 10	< 1	0.27	14	0.74	0.143	0.040	2.05	< 2	1	52	0.05	< 1	< 2	< 10	18	< 10	3	19		
GC20-0456-011	224	2.84	< 10	< 1	0.28	14	0.64	0.127	0.039	2.55	3	1	43	0.05	< 1	< 2	< 10	16	< 10	3	20		
1321001168	164	2.63	< 10	< 1	0.15	18	1.48	0.129	0.044	1.98	2	1	60	0.03	< 1	< 2	< 10	15	< 10	4	17	0.14	1.91
GC20-0457-008	194	2.69	< 10	< 1	0.34	14	0.75	0.167	0.039	2.29	3	1	60	0.06	< 1	< 2	< 10	19	< 10	3	20		
GC20-0452-019	116	2.70	< 10	< 1	0.09	18	1.10	0.094	0.047	2.08	2	2	48	< 0.01	3	< 2	< 10	12	< 10	3	12		
1321001108	199	2.68	< 10	< 1	0.16	17	1.07	0.277	0.045	2.40	2	1	78	0.01	< 1	< 2	< 10	12	< 10	4	17	0.14	2.36
1321001156	179	2.84	< 10	< 1	0.18	16	1.18	0.268	0.044	2.34	2	1	74	0.02	2	< 2	< 10	20	11	4	18	0.25	2.23
GC20-0460-001	194	3.54	< 10	< 1	0.13	13	1.71	0.088	0.038	1.76	2	2	82	< 0.01	< 1	< 2	< 10	7	< 10	5	6		
GC20-0460-018	193	3.14	< 10	< 1	0.09	27	1.45	0.214	0.057	2.13	3	3	77	0.03	3	< 2	< 10	37	< 10	5	15		
1322015233	201	2.96	< 10	< 1	0.19	11	0.68	0.195	0.036	1.17	2	< 1	89	0.04	3	< 2	< 10	10	< 10	2	11	0.11	1.13
F002934	15	2.24	< 10	< 1	0.20	15	0.43	0.242	0.039	0.03	< 2	2	37	0.38	8	< 2	< 10	57	< 10	16	21		
1322015289	174	1.99	< 10	< 1	0.23	14	0.95	0.152	0.039	0.74	3	1	99	0.01	< 1	< 2	< 10	17	< 10	2	8	0.44	0.70
1432003001	90	2.71	< 10	< 1	0.22	16	1.12	0.080	0.044	1.45	2	1	41	< 0.01	2	< 2	< 10	11	< 10	3	6	1.26	1.38
1432003058	92	9.84	10	< 1	0.06	< 10	2.74	0.042	0.047	0.57	5	28	105	0.12	2	< 2	< 10	520	< 10	10	5	2.26	0.67
1432003247	129	3.81	< 10	< 1	0.43	40	2.10	0.094	0.074	0.69	4	5	102	0.05	< 1	< 2	< 10	56	< 10	7	6	1.61	0.66
1432005093	186	2.96	10	< 1	0.77	24	1.51	0.477	0.066	0.63	2	3	216	0.12	< 1	< 2	< 10	55	< 10	5	3	0.31	0.58
1322012009	138	4.31	< 10	< 1	0.04	< 10	1.85	0.586	0.020	0.09	< 2	7	70	0.23	4	< 2	< 10	142	< 10	5	4	0.13	0.10
1322012032	105	4.14	< 10	< 1	0.03	< 10	1.88	0.579	0.019	0.08	< 2	7	68	0.21	< 1	< 2	< 10	135	< 10	5	3	0.11	0.08
1331002074	145	2.52	< 10	< 1	0.24	15	1.41	0.049	0.050	0.47	2	2	37	0.04	< 1	< 2	< 10	39	< 10	3	5	0.78	0.45
1229075248	258	2.10	< 10	< 1	0.37	16	0.79	0.072	0.045	0.39	2	2	30	0.11	< 1	< 2	< 10	30	< 10	4	19	0.45	0.38
1331002412	147	2.72	< 10	< 1	0.22	18	1.40	0.084	0.047	0.72	3	2	44	< 0.01	5	< 2	< 10	20	< 10	4	5	0.96	0.68
1331002061	246	7.40	< 10	< 1	0.19	< 10	1.29	0.181	0.052	1.62	5	10	65	0.17	3	< 2	< 10	171	< 10	11	4	1.28	1.75
1322012069	94	2.81	< 10	< 1	0.16	15	1.01	0.145	0.040	1.26	3	1	185	0.02	< 1	< 2	< 10	16	< 10	3	9	0.08	1.20
1432003017	191	9.02	10	< 1	0.08	< 10	2.38	0.136	0.062	1.53	6	18	74	0.16	2	< 2	< 10	214	< 10	11	9	2.65	1.81
1322012006	140	3.94	< 10	< 1	0.06	< 10	1.60	0.683	0.022	0.12	6	6	81	0.20	< 1	< 2	< 10	126	< 10	5	5	0.16	0.13
1331002417	94	2.55	< 10	< 1	0.24	21	1.26	0.150	0.054	0.57	3	2	52	0.02	< 1	< 2	< 10	24	< 10	4	4	0.66	0.56
1432005139	178	2.51	< 10	< 1	0.49	23	1.38	0.375	0.060	0.32	< 2	3	165	0.11	< 1	< 2	< 10	47	< 10	5	3	0.40	0.35
1331002114	191	2.49	< 10	< 1	0.31	18	1.02	0.078	0.049	0.47	2	2	43	0.09	1	< 2	< 10	32	< 10	4	7	0.66	0.45
1331002349	180	2.67	< 10	< 1	0.22	15	1.18	0.179	0.044	0.39	3	3	59	0.04	1	< 2	< 10	32	< 10	4	8	0.69	0.41
1331002001	187	6.34	10	< 1	0.40	< 10	1.93	0.209	0.051	0.67	4	13	94	0.16	< 1	< 2	< 10	154	< 10	11	7	1.50	0.73
1432003301	144	8.53	< 10	< 1	0.40	< 10	3.65	0.132	0.035	1.13	6	12	75	0.10	< 1	< 2	< 10	156	< 10	7	5	2.66	1.45
1331002170	193	2.52	< 10	< 1	0.30	17	1.31	0.152	0.045	0.54	< 2	2	64	0.04	< 1	< 2	< 10	32	< 10	4	5	0.68	0.53
F002933																							
1331003167	216	6.96	10	< 1	0.07	< 10	3.19	0.077	0.040	0.06	4	9	34	0.14	< 1	< 2	< 10	150	< 10	8	3	1.12	0.06
1331013406	235	2.34	< 10	< 1	0.57	23	1.10	0.076	0.055	0.35	2	3	25	0.11	1	< 2	< 10	38	< 10	3	15	0.39	0.33
1432098067	101	9.30	< 10	< 1	0.12	13	2.73	0.033	0.110	3.24	9	11	89	0.07	< 1	< 2	< 10	105	< 10	9	10	2.49	3.98
1331003003	135	10.1	20	< 1	0.10	< 10	1.88	0.172	0.117	1.17	8	15	52	0.13	< 1	< 2	< 10	130	< 10	18	9	1.13	1.34
GC20-0474-009FD	135	3.04	< 10	< 1	0.24	14	0.62	0.165	0.040	2.69	2	1	58	0.01	< 1	< 2	< 10	13	16	3	19		
1331003217	145	7.92	10	< 1	0.10	< 10	3.60	0.074	0.046	0.20	3	13	45	0.16	< 1	< 2	< 10	183	< 10	12	3	1.40	0.23
1331013374	158	4.39	< 10	< 1	0.18	34	1.55	0.066	0.151	0.11	< 2	8	211	0.17	5	< 2	< 10	58	< 10	10	4	0.64	0.10
1229074617	162	1.74	< 10	< 1	0.30	17	0.93	0.108	0.044	1.26	2	1	43	0.03	2	< 2	< 10	14	< 10	5	8	0.64	1.17
GC20-0471-015	136	2.33	< 10	< 1	0.21	14	0.69	0.326	0.039	1.60	3	1	158	0.03	< 1	< 2	< 10	17	12	3	15		
GC20-0475-002	202	3.23	< 10	< 1	0.20	15	0.86	0.238	0.041	2.30	3	1	134	0.04	< 1	< 2	< 10	19	< 10	3	20		
GC20-0562-005	98	2.80	< 10	< 1	0.24	20	1.07	0.032	0.040	1.40	< 2	< 1	27	0.04	< 1	< 2	< 10	10	< 10	2	15		
1331013631	130	4.36	< 10	< 1	0.23	40	1.24	0.067	0.172	0.09	3	5	99	0.12	< 1	< 2	< 10	33	< 10	11	3	0.59	0.08
GC20-0562-006	129	2.25	< 10	< 1	0.21	14	0.78	0.168	0.038	1.11	< 2	< 1	78	0.01	< 1	< 2	< 10	8	< 10	2	15		
GC20-0471-001	184	2.70	< 10	< 1	0.27	15	0.74	0.232	0.043	1.76	3	1	152	0.03	3	< 2	< 10	18	< 10	3	18		
1331013271	143	5.07	< 10	< 1	0.34	26	1.96	0.110	0.108	0.15	3	8	141	0.17	2	< 2	< 10	104	< 10	8	7	0.79	0.15
GC20-0563-001	159	2.75	< 10	< 1	0.18	11	0.91	0.095	0.041	1.18	< 2	< 1	45	0.03	< 1	< 2	< 10	12	< 10	2	11		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1432098063	124	9.08	10	< 1	0.19	< 10	2.75	0.204	0.062	3.05	4	15	69	0.16	< 1	< 2	< 10	208	< 10	11	8	1.80	3.62
1432098003	323	2.88	< 10	< 1	0.33	16	1.10	0.197	0.042	1.60	3	1	52	< 0.01	3	< 2	< 10	14	< 10	3	11	0.78	1.53
1331013274	250	2.69	< 10	< 1	0.22	52	1.00	0.069	0.073	0.42	2	2	68	0.06	< 1	< 2	< 10	28	< 10	7	4	0.40	0.40
1331013518	257	7.97	10	< 1	0.16	< 10	1.64	0.261	0.119	0.86	6	17	50	0.19	6	< 2	< 10	117	< 10	21	8	0.46	0.96
F002932	14	2.06	< 10	< 1	0.27	14	0.53	0.209	0.052	0.06	< 2	3	31	0.27	2	< 2	< 10	64	< 10	18	14		
1432098036	108	10.3	< 10	< 1	0.26	< 10	2.36	0.082	0.063	7.53	6	9	42	0.14	< 1	< 2	< 10	135	< 10	11	8	1.31	7.97
1331013579	880	4.55	< 10	< 1	0.63	< 10	4.79	0.097	0.038	0.40	7	5	41	0.13	5	< 2	< 10	76	< 10	3	7	0.23	0.47
1331013535	111	2.68	< 10	< 1	0.22	17	0.80	0.175	0.046	0.95	< 2	1	63	0.04	< 1	< 2	< 10	16	< 10	3	9	0.50	0.91
GC20-0569-008	99	2.51	< 10	< 1	0.13	14	1.02	0.136	0.035	0.49	< 2	1	105	0.01	< 1	< 2	< 10	16	< 10	2	8		
1331013265	131	2.27	< 10	< 1	0.37	23	1.36	0.239	0.051	0.50	2	2	134	0.05	< 1	< 2	< 10	23	< 10	4	5	0.69	0.54
1331013292	146	2.58	< 10	< 1	0.49	19	1.41	0.188	0.052	0.63	< 2	2	97	0.07	< 1	< 2	< 10	25	< 10	3	10	0.53	0.62
1331003472	151	6.33	< 10	< 1	0.56	< 10	1.58	0.151	0.051	2.05	6	10	54	0.14	< 1	< 2	< 10	126	< 10	9	6	1.25	1.24
1331003433	265	7.35	< 10	< 1	0.31	< 10	1.31	0.171	0.061	2.15	4	8	81	0.16	3	< 2	< 10	136	< 10	10	7	1.39	1.65
1331003442	151	6.50	10	< 1	0.13	< 10	1.92	0.101	0.053	0.22	3	15	56	0.14	3	< 2	< 10	163	< 10	12	4	1.64	0.26
1331013256	166	3.60	< 10	< 1	0.25	44	1.18	0.096	0.147	0.12	2	4	124	0.10	< 1	< 2	< 10	31	< 10	10	3	0.67	0.13
1331013214	137	2.27	< 10	< 1	0.22	24	1.14	0.159	0.049	0.23	2	2	94	0.08	< 1	< 2	< 10	28	< 10	4	4	0.39	0.24
1331013573	172	5.86	< 10	< 1	0.08	< 10	1.53	0.273	0.081	0.48	3	18	54	0.19	3	< 2	< 10	180	< 10	17	7	0.49	0.53
1331003042	252	9.58	20	< 1	0.04	< 10	2.13	0.083	0.076	0.23	6	25	42	0.19	3	< 2	< 10	268	< 10	14	7	1.50	0.27
1331003459	199	6.16	10	< 1	0.41	< 10	0.96	0.179	0.058	0.34	3	16	38	0.21	< 1	< 2	< 10	179	< 10	14	4	0.92	0.38
1331003106	67	8.09	10	< 1	0.15	< 10	2.46	0.159	0.046	0.30	3	19	63	0.19	< 1	< 2	< 10	370	< 10	9	4	1.67	0.33
1229074013	114	1.40	< 10	< 1	0.38	16	0.32	0.050	0.043	1.12	< 2	< 1	23	0.01	< 1	< 2	< 10	7	< 10	2	5	0.62	0.99
1229074087	253	4.61	< 10	< 1	2.02	46	3.12	0.039	0.349	1.79	4	8	64	0.20	< 1	< 2	< 10	73	< 10	12	5	0.14	1.71
1331013232	117	3.99	< 10	< 1	0.24	41	0.96	0.116	0.153	0.12	3	3	84	0.09	7	< 2	< 10	17	< 10	11	3	0.67	0.12
GC20-0570-008	116	1.24	< 10	< 1	0.21	< 10	0.56	0.165	0.042	0.30	< 2	< 1	78	0.02	2	< 2	< 10	9	< 10	2	8		
1331003254	113	9.03	< 10	< 1	0.09	< 10	4.32	0.024	0.035	0.45	4	9	72	0.05	< 1	< 2	< 10	114	< 10	6	3	2.95	0.49
1331003207	156	7.01	< 10	< 1	0.02	< 10	3.41	0.096	0.043	0.07	4	7	49	0.18	1	< 2	< 10	124	< 10	6	3	0.77	0.06
GC20-0567-001	102	2.87	< 10	< 1	0.22	14	0.96	0.155	0.048	1.30	2	1	65	0.03	4	< 2	< 10	13	< 10	2	12		
GC20-0588-002	81	2.96	< 10	< 1	0.15	13	0.97	0.155	0.039	1.39	< 2	1	94	< 0.01	< 1	< 2	< 10	13	< 10	2	13		
1331003108	83	8.55	10	< 1	0.07	< 10	2.84	0.093	0.042	0.31	4	17	50	0.19	2	< 2	< 10	411	< 10	8	3	1.91	0.35
F002931	14	2.15	< 10	< 1	0.28	12	0.57	0.221	0.055	0.06	3	3	28	0.26	5	< 2	< 10	60	< 10	16	13		
1322012054	126	4.14	< 10	< 1	0.09	< 10	2.25	0.392	0.024	0.38	2	7	83	0.16	< 1	< 2	< 10	96	< 10	4	8	0.20	0.38
1331002138	232	2.83	< 10	< 1	0.29	16	1.71	0.113	0.063	0.37	2	4	80	0.08	< 1	< 2	< 10	43	< 10	4	4	0.79	0.35
1331002067	228	2.85	< 10	< 1	0.38	16	1.20	0.085	0.054	0.63	2	2	45	0.08	< 1	< 2	< 10	32	< 10	4	13	0.74	0.61
1229075178	209	2.80	< 10	< 1	0.52	21	0.95	0.127	0.060	0.20	2	2	70	0.14	< 1	< 2	< 10	37	< 10	4	14	0.33	0.18
1331002047	110	2.59	< 10	< 1	0.29	29	1.26	0.041	0.086	1.06	2	1	32	0.01	< 1	< 2	< 10	17	< 10	3	3	0.65	0.93
1229075559	230	2.58	< 10	< 1	0.23	20	1.13	0.066	0.058	0.19	< 2	2	99	0.13	1	< 2	< 10	35	< 10	3	9	0.32	0.17
1229075545	209	2.04	< 10	< 1	0.24	14	0.75	0.181	0.044	0.58	2	1	67	0.06	< 1	< 2	< 10	19	< 10	3	7	0.60	0.57
GC20-1049-014	226	2.73	< 10	< 1	0.23	12	0.86	0.253	0.043	1.47	2	1	86	0.01	< 1	< 2	< 10	15	10	3	15		
1331002200	201	2.64	< 10	< 1	0.17	42	0.68	0.064	0.082	0.33	< 2	1	66	0.06	1	< 2	< 10	14	< 10	7	5	0.29	0.32
1229075579	211	2.75	< 10	< 1	0.61	23	1.08	0.324	0.058	0.62	2	2	136	0.12	< 1	< 2	< 10	32	< 10	4	14	0.30	0.61
1229075525	294	2.12	< 10	< 1	0.30	14	0.77	0.081	0.044	0.33	< 2	2	27	0.10	< 1	< 2	< 10	26	< 10	3	13	0.43	0.31
1331002240	132	6.98	< 10	< 1	0.25	< 10	1.32	0.157	0.063	1.31	4	6	96	0.15	< 1	< 2	< 10	136	< 10	9	6	1.05	1.38
1432003009	101	8.77	< 10	< 1	0.23	< 10	2.43	0.054	0.087	4.27	5	11	79	0.12	< 1	< 2	< 10	106	< 10	10	12	2.22	4.50
1432003246	175	2.70	< 10	< 1	0.45	21	1.43	0.054	0.072	0.25	2	3	63	0.06	< 1	< 2	< 10	36	< 10	4	9	0.80	0.27
1229075220	158	1.90	< 10	< 1	0.28	17	0.87	0.096	0.049	0.51	3	1	51	0.06	< 1	< 2	< 10	17	< 10	2	8	0.43	0.52
1331002004	139	5.88	< 10	< 1	0.20	< 10	1.44	0.116	0.053	1.53	3	8	57	0.14	< 1	< 2	< 10	133	< 10	8	9	1.22	1.54
1331002164	139	2.76	< 10	< 1	0.20	17	1.46	0.063	0.056	0.66	< 2	3	57	0.08	< 1	< 2	< 10	40	< 10	3	10	0.53	0.70
1432006213	111	6.45	< 10	< 1	0.50	< 10	2.38	0.270	0.061	2.45	4	10	87	0.14	3	< 2	< 10	144	< 10	7	15	1.40	2.57
1432006201	245	6.44	< 10	< 1	0.40	17	2.27	0.127	0.081	2.09	4	7	67	0.12	< 1	< 2	< 10	92	< 10	9	19	1.42	2.24
1229075541	328	1.41	< 10	< 1	0.19	18	0.55	0.312	0.040	0.45	2	1	115	0.02	2	< 2	< 10	12	< 10	3	2	0.43	0.48
GC20-1048-001	132	2.69	< 10	< 1	0.14	17	1.00	0.199	0.042	2.59	< 2	< 1	92	< 0.01	2	< 2	< 10	8	< 10	2	20		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-1048-018	66	2.62	< 10	< 1	0.12	13	0.80	0.182	0.038	1.51	< 2	1	73	0.02	5	< 2	< 10	14	14	3	13		
F002930	11	1.98	< 10	< 1	0.24	12	0.42	0.227	0.036	0.03	< 2	2	30	0.35	< 1	< 2	< 10	50	< 10	15	26		
1331004400	120	5.77	< 10	< 1	0.15	< 10	2.66	0.107	0.039	0.23	3	10	75	0.20	< 1	< 2	< 10	138	< 10	8	4	0.86	0.29
1331002258	140	3.37	< 10	< 1	0.20	20	1.60	0.086	0.064	0.29	3	5	114	0.13	< 1	< 2	< 10	66	< 10	6	11	0.53	0.30
GC20-0506-002	129	2.66	< 10	< 1	0.16	12	0.99	0.142	0.033	1.22	3	1	107	< 0.01	3	< 2	< 10	11	< 10	2	17		
GC20-0507-006	121	3.49	< 10	< 1	0.23	< 10	0.70	0.184	0.032	2.13	4	< 1	101	0.01	2	< 2	< 10	8	< 10	2	22		
GC20-0511-002	137	2.76	< 10	< 1	0.20	< 10	0.79	0.325	0.030	1.67	3	< 1	178	< 0.01	< 1	< 2	< 10	9	< 10	2	16		
1331004366	115	4.98	< 10	< 1	0.19	< 10	2.23	0.134	0.035	0.39	4	7	68	0.19	< 1	< 2	< 10	119	< 10	6	4	0.46	0.46
1331004001	148	6.74	10	< 1	0.20	< 10	2.11	0.153	0.043	0.53	3	17	38	0.20	4	< 2	< 10	299	< 10	9	3	1.25	0.66
1331004220	111	2.18	< 10	< 1	0.18	21	1.01	0.107	0.051	0.50	2	2	50	0.09	1	< 2	< 10	23	< 10	3	11	0.49	0.52
1331004351	111	8.25	10	< 1	0.14	< 10	2.90	0.089	0.048	0.65	4	16	62	0.14	< 1	< 2	< 10	199	< 10	11	4	1.93	0.81
GC20-0518-005	112	3.63	< 10	< 1	0.20	18	1.95	0.085	0.048	2.18	3	1	50	< 0.01	< 1	< 2	< 10	15	< 10	4	22		
1331004350	119	7.35	10	< 1	0.23	< 10	2.74	0.112	0.051	0.71	5	14	63	0.14	< 1	< 2	< 10	187	< 10	11	5	1.80	0.89
1229075160	116	1.58	< 10	< 1	0.31	17	0.24	0.037	0.036	1.42	3	< 1	28	0.02	< 1	< 2	< 10	6	< 10	2	10	0.56	1.39
1229075259	157	1.83	< 10	< 1	0.31	16	0.39	0.095	0.044	1.41	< 2	< 1	40	< 0.01	< 1	< 2	< 10	10	< 10	2	11	0.31	1.37
GC20-0512-009FD	181	2.83	< 10	< 1	0.27	16	0.92	0.132	0.048	1.19	3	2	101	< 0.01	< 1	< 2	< 10	18	< 10	3	11		
GC20-0508-013	93	2.61	< 10	< 1	0.21	12	0.55	0.112	0.033	1.38	< 2	< 1	69	0.02	2	< 2	< 10	7	< 10	2	20		
GC20-0509-009FD	121	3.25	< 10	< 1	0.19	10	0.58	0.111	0.032	1.93	3	< 1	69	0.01	< 1	< 2	< 10	8	< 10	2	21		
1331004005	177	5.33	< 10	< 1	0.16	18	1.67	0.193	0.059	0.30	3	6	57	0.14	< 1	< 2	< 10	129	< 10	7	13	1.04	0.33
1229075188	171	3.68	< 10	< 1	0.07	< 10	1.44	0.642	0.016	0.08	3	5	62	0.18	3	< 2	< 10	118	< 10	4	3	0.07	0.08
F002929	14	2.23	< 10	< 1	0.20	14	0.41	0.237	0.038	0.03	< 2	2	35	0.36	1	< 2	< 10	55	< 10	15	27		
GC20-1050-010	104	2.64	< 10	< 1	0.17	13	0.87	0.221	0.038	1.40	2	1	86	0.02	< 1	< 2	< 10	15	14	3	14		
1432006091	146	7.21	< 10	< 1	0.61	20	2.04	0.169	0.068	4.75	4	9	66	0.14	< 1	< 2	< 10	116	< 10	9	23	1.56	5.38
GC20-1053-010	127	2.82	< 10	< 1	0.15	15	0.52	0.130	0.038	2.24	3	< 1	49	< 0.01	< 1	< 2	< 10	9	< 10	3	15		
GC20-1054-007	139	2.70	< 10	< 1	0.18	13	0.59	0.065	0.038	1.99	< 2	< 1	37	< 0.01	< 1	< 2	< 10	8	< 10	3	17		
1432006148	179	7.56	10	< 1	0.81	< 10	2.53	0.331	0.059	1.67	6	16	119	0.18	2	< 2	< 10	221	< 10	9	10	1.80	1.91
GC20-1051-001	172	2.75	< 10	< 1	0.12	13	0.76	0.115	0.040	1.66	2	< 1	49	< 0.01	< 1	< 2	< 10	12	< 10	3	16		
GC20-1051-018	489	3.59	< 10	< 1	0.23	12	0.79	0.102	0.038	2.70	4	1	38	0.03	4	< 2	< 10	17	11	3	20		
GC20-1052-014	158	2.95	< 10	< 1	0.19	15	0.51	0.127	0.040	2.46	< 2	< 1	39	0.01	5	< 2	< 10	9	< 10	3	18		
GC20-0436-010	154	2.86	< 10	< 1	0.17	14	0.75	0.289	0.038	1.75	2	1	122	0.05	< 1	< 2	< 10	15	11	3	18		
GC20-0435-014	101	2.77	< 10	< 1	0.16	13	0.74	0.157	0.038	1.68	3	< 1	72	< 0.01	2	< 2	< 10	12	< 10	3	15		
1432006121	139	8.81	10	< 1	0.64	< 10	2.30	0.096	0.059	2.34	7	12	45	0.18	4	< 2	< 10	198	< 10	10	5	1.77	2.77
GC20-1055-018	144	2.61	< 10	< 1	0.22	13	0.64	0.119	0.039	1.99	2	< 1	52	< 0.01	5	< 2	< 10	10	11	3	15		
1432006183	91	9.77	20	< 1	0.07	< 10	1.89	0.221	0.110	1.32	5	14	72	0.15	< 1	< 2	< 10	112	< 10	16	9	1.78	1.59
GC20-1055-012	266	3.16	< 10	< 1	0.19	13	0.60	0.199	0.039	2.44	4	< 1	88	< 0.01	3	< 2	< 10	12	20	3	19		
GC20-0439-018	182	2.64	< 10	< 1	0.20	13	0.80	0.272	0.038	1.68	3	1	126	0.02	< 1	< 2	< 10	16	< 10	3	18		
GC20-0439-001	205	3.03	< 10	< 1	0.13	16	0.86	0.146	0.043	2.63	3	< 1	94	< 0.01	< 1	< 2	< 10	7	< 10	3	21		
1321001228	226	2.66	< 10	< 1	0.13	16	0.95	0.218	0.041	2.38	3	< 1	83	0.02	3	< 2	< 10	10	< 10	3	19	0.24	2.47
1321001024	152	3.49	< 10	< 1	0.15	22	1.07	0.223	0.049	2.47	3	1	167	< 0.01	1	< 2	< 10	15	< 10	4	18	0.23	2.41
GC20-0437-001	194	2.88	< 10	< 1	0.13	14	0.78	0.306	0.041	1.85	2	< 1	147	< 0.01	2	< 2	< 10	9	< 10	3	14		
1432006185	127	9.64	10	< 1	0.04	< 10	1.61	0.210	0.117	1.11	6	12	78	0.15	< 1	< 2	< 10	92	< 10	16	8	1.76	1.38
F002928	14	2.21	< 10	< 1	0.20	14	0.41	0.227	0.038	0.03	< 2	2	33	0.36	4	< 2	< 10	55	< 10	15	27		
GC20-0438-010	186	2.50	< 10	< 1	0.31	13	0.65	0.100	0.038	1.43	< 2	1	45	0.07	5	< 2	< 10	19	< 10	3	17		
GC20-0444-009FD	146	3.02	< 10	< 1	0.20	13	0.82	0.074	0.038	2.35	2	1	24	0.01	< 1	< 2	< 10	19	19	3	19		
GC20-0441-007	276	3.13	< 10	< 1	0.29	14	0.78	0.335	0.038	2.16	3	1	155	0.03	3	< 2	< 10	20	< 10	3	22		
GC20-0442-001	127	2.83	< 10	< 1	0.15	13	0.77	0.269	0.038	1.90	2	< 1	116	0.03	< 1	< 2	< 10	16	< 10	3	15		
GC20-0440-021	155	2.90	< 10	< 1	0.33	13	0.69	0.098	0.039	2.09	< 2	1	39	0.06	4	< 2	< 10	20	< 10	3	23		
GC20-0450-010	191	2.59	< 10	< 1	0.17	14	0.68	0.054	0.039	1.77	2	< 1	25	< 0.01	< 1	< 2	< 10	13	< 10	3	18		
1432006076	233	7.09	< 10	< 1	0.08	< 10	2.73	0.239	0.036	0.71	4	10	77	0.07	1	< 2	< 10	129	< 10	7	6	1.75	0.90

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0448-001	210	2.79	< 10	< 1	0.34	15	0.75	0.121	0.040	1.95	2	1	44	0.06	< 1	< 2	< 10	21	< 10	3	18		
GC20-0445-018	148	2.53	< 10	< 1	0.17	17	0.81	0.085	0.044	2.20	2	1	29	0.02	< 1	< 2	< 10	12	< 10	3	14		
1321001225	193	3.01	< 10	< 1	0.12	17	1.08	0.130	0.042	2.41	3	1	60	0.01	< 1	< 2	< 10	13	< 10	3	12	0.17	2.33
1432006152	116	6.23	< 10	< 1	0.34	14	2.15	0.218	0.060	1.04	4	10	106	0.12	< 1	< 2	< 10	144	< 10	8	13	1.88	1.14
1321001026	217	5.23	< 10	< 1	0.18	29	1.33	0.173	0.060	3.74	3	2	147	0.02	< 1	< 2	< 10	23	< 10	5	20	0.22	3.95
GC20-0446-014	168	2.50	< 10	< 1	0.20	15	0.73	0.185	0.041	2.21	< 2	< 1	49	0.02	< 1	< 2	< 10	10	< 10	3	14		
GC20-0448-018	135	2.56	< 10	< 1	0.23	13	0.80	0.229	0.040	2.06	2	< 1	80	0.02	1	< 2	< 10	12	< 10	3	11		
GC20-0443-013	398	2.61	< 10	< 1	0.31	13	0.68	0.115	0.038	1.76	3	1	28	0.02	< 1	< 2	< 10	18	< 10	3	14		
GC20-0440-003	143	3.26	< 10	< 1	0.16	14	0.79	0.221	0.042	2.14	< 2	< 1	127	< 0.01	1	< 2	< 10	11	< 10	3	12		
1432006087	261	8.54	10	< 1	0.75	< 10	2.07	0.184	0.058	4.61	6	13	69	0.17	4	< 2	< 10	170	< 10	10	11	1.46	5.39
1321001171	264	2.56	< 10	< 1	0.12	17	0.86	0.147	0.043	2.40	5	< 1	56	0.01	5	< 2	< 10	9	42	3	18	0.15	2.36
1321001066	155	2.94	< 10	< 1	0.17	19	0.92	0.211	0.049	2.87	3	< 1	61	0.01	< 1	< 2	< 10	10	< 10	3	14	0.22	2.93
GC20-0445-001	232	2.52	< 10	< 1	0.18	14	0.64	0.200	0.038	1.78	< 2	< 1	107	0.02	< 1	< 2	< 10	14	< 10	3	12		
1432006098	219	9.32	10	< 1	0.52	< 10	3.14	0.215	0.061	4.53	5	18	88	0.17	< 1	< 2	< 10	226	< 10	14	6	1.64	5.29
1432006042	109	5.17	< 10	< 1	0.52	34	2.11	0.257	0.074	2.32	3	7	90	0.08	< 1	< 2	< 10	87	< 10	9	12	1.49	2.38
GC20-0449-021	125	2.79	< 10	< 1	0.20	21	1.40	0.277	0.047	2.37	2	1	70	0.04	< 1	< 2	< 10	13	< 10	4	19		
1321001016	220	3.39	< 10	< 1	0.22	17	1.01	0.106	0.044	2.69	3	1	45	0.02	3	< 2	< 10	16	< 10	3	18	0.26	2.60
F002927	12	2.07	< 10	< 1	0.25	13	0.44	0.237	0.036	0.03	< 2	2	31	0.33	6	< 2	< 10	50	< 10	16	18		
1321005234	99	3.73	< 10	< 1	0.22	19	2.00	0.065	0.051	2.34	3	1	27	< 0.01	< 1	< 2	< 10	16	< 10	5	5	0.14	2.35
1229074604	200	1.58	< 10	< 1	0.37	19	0.45	0.020	0.053	1.14	3	1	63	0.03	< 1	< 2	< 10	11	< 10	2	2	0.60	1.13
1229074688	146	2.10	< 10	< 1	0.38	16	0.10	0.017	0.039	2.18	4	< 1	60	0.01	< 1	< 2	< 10	5	< 10	2	10	0.46	1.97
1321005250	235	3.22	< 10	< 1	0.48	63	2.04	0.050	0.142	0.73	3	5	151	0.04	< 1	< 2	< 10	40	< 10	6	2	0.80	0.63
GC20-0561-001	149	2.98	< 10	< 1	0.16	30	1.00	0.177	0.041	1.43	5	1	115	< 0.01	< 1	3	< 10	13	< 10	4	9		
GC20-0560-001	180	2.61	< 10	< 1	0.20	13	0.60	0.238	0.039	1.12	3	< 1	129	0.02	< 1	< 2	< 10	8	< 10	2	5		
1321005303	157	3.57	< 10	< 1	0.14	14	1.35	0.151	0.038	1.74	2	1	97	< 0.01	5	< 2	< 10	15	< 10	3	11	0.22	1.66
1321005225	110	1.88	< 10	< 1	0.31	39	0.96	0.050	0.058	0.84	< 2	< 1	109	0.01	< 1	< 2	< 10	8	< 10	4	4	0.44	0.76
1432098092	40	9.73	20	< 1	0.26	< 10	2.09	0.161	0.111	2.84	5	13	72	0.11	3	< 2	< 10	126	< 10	14	7	1.36	2.28
1331013431	222	2.45	< 10	< 1	0.45	23	1.32	0.089	0.058	0.60	2	3	60	0.10	< 1	< 2	< 10	41	< 10	4	10	0.41	0.60
1432098094	109	8.81	10	< 1	0.22	11	2.33	0.031	0.111	3.13	4	13	69	0.09	7	< 2	< 10	122	< 10	12	9	1.65	3.39
1321005255	81	2.83	< 10	< 1	0.31	14	1.46	0.131	0.037	2.18	< 2	1	59	0.03	< 1	< 2	< 10	12	< 10	3	4	0.21	2.14
GC20-0559-010	122	2.52	< 10	< 1	0.21	13	0.60	0.161	0.033	1.07	2	< 1	124	0.02	2	< 2	< 10	8	< 10	2	4		
GC20-0557-005	112	3.51	< 10	< 1	0.24	10	0.89	0.109	0.032	1.67	< 2	< 1	74	0.03	< 1	< 2	< 10	9	< 10	2	19		
GC20-0537-005	76	3.07	< 10	< 1	0.17	11	0.94	0.094	0.034	0.76	2	1	60	0.03	< 1	< 2	< 10	14	< 10	3	5		
GC20-0537-005	74	3.08	< 10	< 1	0.17	11	0.94	0.092	0.033	0.75	2	1	59	0.03	3	< 2	< 10	14	< 10	2	3		
1432098116	51	9.69	10	< 1	0.19	< 10	2.57	0.071	0.044	3.45	6	17	51	0.14	2	< 2	< 10	448	< 10	8	5	1.73	3.74
GC20-0468-011	192	3.24	< 10	< 1	0.20	14	0.84	0.404	0.037	2.15	3	< 1	186	< 0.01	4	< 2	< 10	12	11	3	13		
1432098155	73	9.39	10	< 1	0.06	< 10	2.67	0.031	0.039	1.28	5	16	38	0.07	3	< 2	< 10	468	< 10	7	3	1.44	1.56
1229074075	144	2.31	< 10	< 1	0.32	15	1.24	0.138	0.038	1.28	< 2	2	48	0.05	< 1	< 2	< 10	22	< 10	3	10	0.35	1.25
1331013323	192	2.48	< 10	< 1	0.41	48	1.09	0.091	0.068	0.24	< 2	2	82	0.07	< 1	< 2	< 10	23	< 10	6	3	0.58	0.24
1321005304	135	2.89	< 10	< 1	0.15	14	0.98	0.185	0.035	1.24	3	1	125	< 0.01	3	< 2	< 10	12	< 10	3	6	0.15	1.21
1229074658	158	1.81	< 10	< 1	0.24	18	1.11	0.094	0.048	1.14	2	2	36	0.02	< 1	< 2	< 10	17	< 10	3	4	0.28	1.11
F002926	14	2.03	< 10	< 1	0.27	14	0.51	0.217	0.049	0.05	6	3	30	0.25	3	< 2	< 10	61	< 10	17	9		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	66	1030	1	26	88	125	6.61	212	< 10	784	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1000	< 1	25	97	126	6.49	201	< 10	785	0.7	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	72	1040	< 1	22	92	115	7.18	206	< 10	919	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	67	1040	< 1	22	95	120	7.13	200	< 10	825	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas										66				88	125								
GXR-6 Cert										66.0				101	118								
BaSO4 Meas																							
BaSO4 Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
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GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.0				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.11																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.1				8.36																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430						52		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395						50		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3090																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3160																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas 237 (fire Assay) Meas							2190																
Oreas 237 (fire Assay) Cert							2210																
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							511																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							522																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
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GS317-5 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GC20-0457-008 Orig								0.6	< 0.5	175	476	4	14	< 2	130	1.56	10	< 10	21	< 0.5	< 2	0.81	9
GC20-0457-008 Dup								0.8	< 0.5	169	473	4	14	< 2	136	1.55	11	< 10	21	< 0.5	< 2	0.81	9
GC20-0460-018 Orig							34																
GC20-0460-018 Dup							37																
1432005093 Orig																							
1432005093 Dup																							
1322012032 Orig								< 0.2	< 0.5	112	480	< 1	45	< 2	43	5.17	< 2	< 10	< 10	< 0.5	< 2	3.29	24
1322012032 Dup								< 0.2	< 0.5	113	484	< 1	48	< 2	45	5.19	< 2	< 10	< 10	< 0.5	< 2	3.29	24
1331002074 Orig							25																
1331002074 Dup							22																
1331002417 Orig																							
1331002417 Dup																							
1331002349 Orig							15																
1331002349 Dup							14																
1331002170 Orig								0.2	0.8	19	823	< 1	20	5	234	2.48	9	< 10	59	< 0.5	< 2	2.42	10
1331002170 Dup								< 0.2	0.7	20	799	< 1	22	6	240	2.44	11	< 10	58	< 0.5	< 2	2.36	10
1331003217 Orig																							
1331003217 Dup																							
1229074617 Orig								2.2	< 0.5	19	1070	1	17	21	56	1.68	42	< 10	35	< 0.5	< 2	2.35	9
1229074617 Dup								2.1	< 0.5	19	1090	1	19	23	53	1.73	44	< 10	36	< 0.5	< 2	2.40	10
GC20-0562-005 Orig							1000																
GC20-0562-005 Dup							921																
1331013274 Orig	12.5	30.5	18.0	12.3	2.49																		
1331013274 Dup	12.5	30.6	18.1	12.3	2.50																		
1432098036 Orig							1000	3.5	< 0.5	65	1520	3	65	4	186	2.90	80	< 10	< 10	< 0.5	< 2	2.60	41
1432098036 Dup							1010	3.5	< 0.5	63	1540	4	69	5	187	2.91	75	< 10	< 10	< 0.5	< 2	2.58	42
1331013579 Orig																							
1331013579 Dup																							
1331013256 Orig							19																
1331013256 Dup							22																
1331003459 Orig								0.2	< 0.5	86	930	< 1	61	2	142	2.83	13	< 10	88	< 0.5	< 2	3.57	36
1331003459 Dup								0.2	< 0.5	86	941	< 1	57	< 2	140	2.84	12	< 10	91	< 0.5	< 2	3.59	37

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322012054 Orig							48																
1322012054 Dup							44																
1331002067 Orig								< 0.2	< 0.5	15	1050	< 1	30	< 2	89	1.83	5	< 10	78	< 0.5	< 2	2.48	12
1331002067 Dup								< 0.2	< 0.5	15	1050	< 1	30	< 2	88	1.83	4	< 10	89	< 0.5	< 2	2.46	11
1229075579 Orig							29																
1229075579 Dup							30																
1331002240 Orig						8.54																	
1331002240 Dup						8.54																	
1229075220 Orig																							
1229075220 Dup																							
1432006213 Orig	68.7	68.0	-0.756	78.7	0.864																		
1432006213 Dup	68.7	67.7	-1.00	78.7	0.861																		
1432006201 Orig								1.8	2.7	94	1400	< 1	31	6	741	3.20	14	< 10	27	< 0.5	< 2	3.76	21
1432006201 Dup								1.8	2.8	95	1430	< 1	31	5	773	3.25	16	< 10	26	< 0.5	< 2	3.82	22
1229075541 Orig							28																
1229075541 Dup							28																
1331004400 Orig							31																
1331004400 Dup							32																
1331004220 Orig																							
1331004220 Dup																							
GC20-0518-005 Orig								1.2	0.5	100	539	2	13	9	192	2.73	49	< 10	24	< 0.5	3	0.61	12
GC20-0518-005 Dup								1.2	< 0.5	104	548	2	13	10	194	2.79	48	< 10	27	< 0.5	3	0.62	12
1229075160 Orig							136																
1229075160 Dup							135																
GC20-1053-010 Orig							611																
GC20-1053-010 Dup							568																
GC20-1054-007 Orig								0.6	< 0.5	82	479	3	11	< 2	60	1.20	19	< 10	26	< 0.5	< 2	1.59	8
GC20-1054-007 Dup								0.4	< 0.5	82	480	3	10	< 2	62	1.17	19	< 10	29	< 0.5	< 2	1.61	9
1432006183 Orig							33																
1432006183 Dup							35																
1321001228 Orig																							
1321001228 Dup																							
1321001024 Orig								0.4	< 0.5	78	349	1	18	6	84	2.70	10	< 10	26	< 0.5	2	1.37	11
1321001024 Dup								0.4	< 0.5	78	345	1	18	5	82	2.68	14	< 10	26	< 0.5	2	1.37	11
1432006076 Orig							53																
1432006076 Dup							55																
GC20-0445-001 Orig								0.7	< 0.5	121	569	3	14	2	80	1.79	10	< 10	17	< 0.5	< 2	1.39	9
GC20-0445-001 Dup								0.7	< 0.5	123	561	3	14	3	79	1.83	9	< 10	16	< 0.5	< 2	1.39	10
1432006098 Orig																							
1432006098 Dup																							
1229074604 Orig							94																
1229074604 Dup							94																
1432098092 Orig								1.3	0.7	73	1960	< 1	6	5	220	3.73	34	< 10	27	< 0.5	< 2	3.66	30

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1432098092 Dup								1.2	0.6	73	1980	< 1	8	5	219	3.77	29	< 10	25	< 0.5	< 2	3.71	30
1331013431 Orig	15.6	32.5	16.8	18.4	1.77																		
1331013431 Dup	15.6	32.4	16.8	18.4	1.77																		
1432098094 Orig																							
1432098094 Dup																							
1432098116 Orig							704																
1432098116 Dup							705																
1321005304 Orig								0.4	< 0.5	156	282	< 1	11	2	29	3.24	6	< 10	27	< 0.5	< 2	1.07	7
1321005304 Dup								0.4	< 0.5	146	282	1	12	< 2	30	3.17	8	< 10	26	< 0.5	< 2	1.05	7
1229074658 Orig	31.1	18.8	-12.3	34.0	0.553																		
1229074658 Dup	31.1	18.8	-12.3	34.0	0.554																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	79	5.95	20	3	1.17	< 10	0.39	0.134	0.036	0.01	3	17	31		< 1	< 2	< 10	177	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.85	20	2	1.14	< 10	0.38	0.125	0.033	0.01	3	17	29		< 1	< 2	< 10	168	< 10	4	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.37	20	< 1	1.14	12	0.39	0.080	0.033	0.01	5	23	35		< 1	< 2	< 10	170	< 10	7	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	71	5.40	10	< 1	1.13	10	0.40	0.079	0.035	0.01	4	21	32		< 1	< 2	< 10	158	< 10	6	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas																							
GXR-6 Cert																							
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200		6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203		6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
Oreas 237 (fire Assay) Meas																							
Oreas 237 (fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.08	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.56	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.13	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.06	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.21	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.12	15.3
GS317-5 Cert																						8.46	15.5

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0457-008 Orig	191	2.68	< 10	< 1	0.34	13	0.74	0.170	0.039	2.24	2	1	60	0.06	< 1	< 2	< 10	19	< 10	3	20		
GC20-0457-008 Dup	197	2.70	< 10	< 1	0.34	14	0.75	0.164	0.040	2.33	5	1	60	0.06	< 1	< 2	< 10	19	< 10	3	21		
GC20-0460-018 Orig																							
GC20-0460-018 Dup																							
1432005093 Orig																						0.30	0.55
1432005093 Dup																						0.32	0.62
1322012032 Orig	104	4.13	< 10	< 1	0.03	< 10	1.87	0.580	0.019	0.09	< 2	7	68	0.21	< 1	< 2	< 10	136	< 10	5	3		
1322012032 Dup	105	4.16	< 10	< 1	0.03	< 10	1.88	0.579	0.019	0.07	3	7	68	0.21	2	< 2	< 10	134	< 10	5	3		
1331002074 Orig																							
1331002074 Dup																							
1331002417 Orig																						0.67	0.55
1331002417 Dup																						0.65	0.57
1331002349 Orig																							
1331002349 Dup																							
1331002170 Orig	195	2.55	< 10	< 1	0.31	17	1.33	0.154	0.046	0.55	< 2	2	64	0.04	< 1	< 2	< 10	32	< 10	4	6		
1331002170 Dup	190	2.48	< 10	< 1	0.30	17	1.29	0.151	0.045	0.54	2	2	64	0.04	< 1	< 2	< 10	31	< 10	4	5		
1331003217 Orig																						1.41	0.23
1331003217 Dup																						1.39	0.23
1229074617 Orig	161	1.73	< 10	< 1	0.30	17	0.92	0.106	0.044	1.25	2	1	42	0.03	3	< 2	< 10	14	< 10	5	7		
1229074617 Dup	163	1.75	< 10	< 1	0.30	17	0.93	0.110	0.045	1.27	2	1	43	0.03	1	< 2	< 10	14	< 10	5	8		
GC20-0562-005 Orig																							
GC20-0562-005 Dup																							
1331013274 Orig																							
1331013274 Dup																							
1432098036 Orig	107	10.3	< 10	< 1	0.26	< 10	2.37	0.081	0.064	7.46	6	9	42	0.13	< 1	< 2	< 10	134	< 10	11	8		
1432098036 Dup	110	10.3	< 10	< 1	0.26	< 10	2.35	0.082	0.063	7.60	5	9	41	0.14	< 1	< 2	< 10	136	< 10	11	8		
1331013579 Orig																						0.23	0.46
1331013579 Dup																						0.23	0.47
1331013256 Orig																							
1331013256 Dup																							
1331003459 Orig	196	6.16	10	< 1	0.41	< 10	0.95	0.180	0.057	0.34	3	16	37	0.20	2	< 2	< 10	179	< 10	14	4	0.92	0.37
1331003459 Dup	201	6.17	10	< 1	0.41	< 10	0.97	0.178	0.058	0.34	3	16	38	0.22	< 1	< 2	< 10	180	< 10	14	4	0.92	0.38
1322012054 Orig																							
1322012054 Dup																							
1331002067 Orig	231	2.86	< 10	< 1	0.38	17	1.21	0.084	0.054	0.65	3	2	46	0.08	< 1	< 2	< 10	32	< 10	4	9	0.73	0.62
1331002067 Dup	224	2.84	< 10	< 1	0.38	16	1.20	0.087	0.053	0.62	2	2	45	0.08	2	< 2	< 10	32	< 10	4	16	0.74	0.59
1229075579 Orig																							
1229075579 Dup																							
1331002240 Orig																							
1331002240 Dup																							
1229075220 Orig																						0.43	0.53
1229075220 Dup																						0.44	0.52
1432006213 Orig																							
1432006213 Dup																							
1432006201 Orig	240	6.36	< 10	< 1	0.40	17	2.26	0.127	0.080	2.06	4	7	67	0.13	< 1	< 2	< 10	92	< 10	9	19		
1432006201 Dup	250	6.53	< 10	< 1	0.40	17	2.28	0.127	0.082	2.12	5	7	67	0.12	< 1	< 2	< 10	93	< 10	9	19		
1229075541 Orig																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1229075541 Dup																							
1331004400 Orig																							
1331004400 Dup																							
1331004220 Orig																						0.49	0.52
1331004220 Dup																						0.50	0.52
GC20-0518-005 Orig	112	3.62	< 10	< 1	0.20	18	1.93	0.084	0.048	2.17	4	1	50	< 0.01	5	< 2	< 10	15	< 10	4	21		
GC20-0518-005 Dup	112	3.64	< 10	< 1	0.21	18	1.98	0.085	0.048	2.20	3	1	51	< 0.01	< 1	< 2	< 10	16	< 10	4	22		
1229075160 Orig																							
1229075160 Dup																							
GC20-1053-010 Orig																							
GC20-1053-010 Dup																							
GC20-1054-007 Orig	137	2.70	< 10	< 1	0.19	12	0.59	0.066	0.037	1.97	< 2	< 1	37	< 0.01	< 1	< 2	< 10	9	< 10	3	16		
GC20-1054-007 Dup	141	2.70	< 10	< 1	0.18	13	0.59	0.063	0.039	2.00	2	< 1	36	< 0.01	< 1	< 2	< 10	8	< 10	3	17		
1432006183 Orig																							
1432006183 Dup																							
1321001228 Orig																						0.23	2.45
1321001228 Dup																						0.24	2.48
1321001024 Orig	155	3.50	< 10	< 1	0.15	22	1.07	0.223	0.049	2.47	3	1	166	< 0.01	2	< 2	< 10	15	< 10	4	18		
1321001024 Dup	149	3.48	< 10	< 1	0.15	22	1.06	0.224	0.048	2.47	4	1	167	< 0.01	1	< 2	< 10	15	< 10	4	18		
1432006076 Orig																							
1432006076 Dup																							
GC20-0445-001 Orig	233	2.53	< 10	< 1	0.18	14	0.65	0.195	0.039	1.80	< 2	< 1	105	0.02	< 1	< 2	< 10	14	< 10	3	11		
GC20-0445-001 Dup	231	2.51	< 10	< 1	0.18	13	0.64	0.206	0.038	1.77	2	< 1	109	0.02	< 1	< 2	< 10	14	< 10	3	13		
1432006098 Orig																						1.64	5.26
1432006098 Dup																						1.64	5.32
1229074604 Orig																							
1229074604 Dup																							
1432098092 Orig	37	9.71	10	< 1	0.26	< 10	2.06	0.161	0.112	2.80	5	13	72	0.11	4	< 2	< 10	125	< 10	13	8		
1432098092 Dup	43	9.74	20	< 1	0.27	< 10	2.12	0.162	0.111	2.88	5	14	73	0.10	2	< 2	< 10	127	< 10	14	7		
1331013431 Orig																							
1331013431 Dup																							
1432098094 Orig																						1.65	3.37
1432098094 Dup																						1.64	3.42
1432098116 Orig																							
1432098116 Dup																							
1321005304 Orig	135	2.91	< 10	< 1	0.15	14	0.99	0.187	0.035	1.25	2	1	127	< 0.01	5	< 2	< 10	13	< 10	3	4		
1321005304 Dup	136	2.87	< 10	< 1	0.15	14	0.98	0.183	0.035	1.23	3	1	123	< 0.01	1	< 2	< 10	12	< 10	3	7		
1229074658 Orig																							
1229074658 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-16162**
Report Date:	**09-Feb-21**
Date Submitted:	**16-Dec-20**
Your Reference:	**2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-15 18:17:42
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2021-01-19 13:27:02
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-25 15:02:51

REPORT **A20-16162**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Report No.: **A20-16162**
Report Date: **09-Feb-21**
Date Submitted: **16-Dec-20**
Your Reference: **2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-20 21:42:43
4F-C, S	Infrared	2021-01-07 21:39:52

REPORT **A20-16162**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1321004043	22.3	6.23	-16.1	25.4	0.245	8.65	982	2.6	< 0.5	315	389	< 1	10	< 2	126	2.82	3	< 10	39	< 0.5	3	0.92	7
1321004081	10.6	45.1	34.4	10.4	4.33	8.40	64	0.3	< 0.5	95	643	< 1	30	4	80	2.43	4	< 10	61	< 0.5	< 2	2.09	15
1325001054	26.9	58.4	31.5	30.6	1.91	8.66	60	1.5	< 0.5	15	648	< 1	12	8	137	1.46	77	< 10	31	< 0.5	< 2	2.19	7
1325001163	24.7	40.7	16.0	28.2	1.44	8.73	47	0.9	< 0.5	26	460	1	16	10	147	1.65	38	< 10	35	< 0.5	< 2	1.87	8
1321007185	38.8	16.6	-22.3	42.0	0.395	8.59	154	< 0.2	< 0.5	43	311	< 1	15	< 2	47	2.38	9	< 10	25	< 0.5	< 2	1.27	9
1325001187	47.0	52.6	5.64	51.8	1.02	8.77	126	0.4	< 0.5	34	412	< 1	15	11	75	1.69	18	< 10	17	< 0.5	< 2	1.96	9
1325001742	45.1	51.6	6.50	49.9	1.03	8.72	485	1.3	1.3	57	1260	1	13	57	296	1.06	38	< 10	22	< 0.5	< 2	2.45	8
1328070130	10.6	4.61	-6.02	10.4	0.442	8.56	16	1.0	< 0.5	10	292	< 1	11	13	42	1.70	15	< 10	32	< 0.5	< 2	0.40	7
GC20-0650-005							1310	5.1	0.5	2120	262	13	12	< 2	64	2.37	15	< 10	15	< 0.5	2	1.32	6
GC20-0647-001							409	0.3	< 0.5	54	228	2	13	< 2	60	1.98	7	< 10	19	< 0.5	< 2	0.72	8
1325001776	43.1	60.7	17.5	49.0	1.24	8.81	224	0.9	1.9	57	1290	< 1	12	26	457	1.26	84	< 10	23	< 0.5	< 2	2.66	8
1321007068	22.2	27.7	5.55	24.8	1.12	8.90	54	< 0.2	< 0.5	52	386	< 1	6	5	39	1.49	7	< 10	26	< 0.5	< 2	1.46	6
1325001759	61.1	56.0	-5.15	68.6	0.816	8.77	148	5.6	1.6	43	1560	< 1	17	101	371	0.80	25	< 10	15	< 0.5	< 2	2.51	8
1325001035	49.6	53.5	3.90	54.2	0.986	8.69	124	1.1	0.6	32	536	< 1	13	48	147	1.36	27	< 10	21	< 0.5	< 2	1.99	8
1321007221	43.6	10.7	-32.9	47.2	0.227	8.40	240	0.5	< 0.5	225	261	2	11	5	38	2.50	9	< 10	23	< 0.5	< 2	0.88	11
1328070076	6.88	4.37	-2.51	6.74	0.648	8.39	6	< 0.2	< 0.5	3	144	< 1	10	2	17	2.21	3	< 10	22	< 0.5	3	0.63	5
1325001701	52.0	26.4	-25.6	58.5	0.452	8.86	> 5000	2.6	3.1	69	1420	< 1	13	303	702	0.66	67	< 10	11	< 0.5	< 2	2.22	10
GC20-06749-001							42	0.6	< 0.5	121	307	9	10	< 2	56	2.42	3	< 10	22	< 0.5	3	1.23	8
1321007018	40.7	11.2	-29.5	43.8	0.256	8.70	137	0.3	0.6	59	489	1	11	8	205	2.57	16	< 10	19	< 0.5	3	1.00	9
1328070047	37.9	39.8	1.86	41.7	0.955	8.90	224	16.0	0.7	23	1070	< 1	12	113	264	0.96	44	< 10	22	< 0.5	< 2	1.95	9
1328070158	27.9	53.6	25.7	32.8	1.64	8.52	63	3.3	2.5	22	1120	< 1	53	66	682	1.36	42	< 10	27	< 0.5	< 2	2.50	14
F002949							722	4.5	< 0.5	28	228	< 1	8	12	39	1.08	< 2	< 10	40	< 0.5	< 2	0.68	8
1229070261	9.69	10.6	0.885	9.49	1.11	8.91	12	0.4	< 0.5	13	277	< 1	10	7	48	2.63	6	< 10	46	< 0.5	< 2	1.39	8
1322012051	7.50	7.36	-0.141	7.35	1.00	8.50	26	< 0.2	< 0.5	94	500	< 1	37	< 2	48	4.60	< 2	< 10	59	< 0.5	< 2	2.81	18
1322015020	51.5	18.3	-33.1	56.0	0.327	8.34	152	0.7	< 0.5	85	417	< 1	20	7	61	1.89	18	12	15	< 0.5	3	1.11	8
1322013122	42.9	5.86	-37.0	46.5	0.126	8.32	390	1.5	< 0.5	559	296	3	14	4	37	2.10	11	< 10	22	< 0.5	6	0.72	9
1322015023	34.8	26.9	-7.86	38.3	0.703	8.58	216	1.2	0.8	43	585	< 1	13	8	210	2.04	21	15	25	< 0.5	3	1.64	8
1432003065	12.0	159	147	19.3	8.25	8.54	16	0.6	< 0.5	259	1300	< 1	59	< 2	155	4.00	9	< 10	< 10	< 0.5	< 2	5.16	37
1322015107	23.8	18.1	-5.66	23.3	0.777	8.73	38	0.3	< 0.5	71	397	2	13	< 2	44	3.48	3	< 10	37	< 0.5	3	1.76	8
1322015189	32.3	28.3	-4.03	36.4	0.775	8.57	43	0.5	0.7	39	642	1	18	8	214	2.31	9	< 10	23	< 0.5	< 2	2.01	8
1432003186	29.6	83.8	54.3	36.4	2.30	8.61	23	0.3	< 0.5	61	987	< 1	53	13	137	3.74	18	< 10	36	< 0.5	< 2	3.54	24
1432005234	10.3	42.2	31.9	13.8	3.06	9.06	13	< 0.2	< 0.5	18	587	< 1	35	< 2	129	2.87	3	< 10	65	< 0.5	< 2	2.79	16
1322015297	42.5	21.3	-21.2	46.5	0.458	8.70	108	2.9	1.5	50	569	< 1	15	6	364	1.82	37	11	20	< 0.5	4	1.39	10
1432003160	7.18	120	112	14.4	8.30	8.79	16	0.4	< 0.5	112	992	< 1	60	7	105	4.11	8	< 10	22	< 0.5	< 2	4.58	30
1432003091	17.9	135	117	26.0	5.18	8.78	8	0.5	< 0.5	216	895	< 1	60	28	104	3.16	13	< 10	44	< 0.5	< 2	4.66	30
1432003313	5.51	135	130	11.0	12.3	8.57	67	0.3	< 0.5	54	1260	< 1	264	< 2	91	4.66	6	< 10	50	< 0.5	< 2	4.17	54
1322012112	39.6	7.59	-32.0	43.8	0.173	8.47	220	0.3	< 0.5	94	432	< 1	15	3	60	2.82	9	< 10	28	< 0.5	4	0.99	9
1322012153	74.9	9.47	-65.4	80.8	0.117	8.56	103	0.4	< 0.5	57	575	< 1	25	10	85	2.85	17	< 10	13	< 0.5	2	1.46	11
1322015341	17.2	28.2	11.0	16.8	1.67	9.10	56	0.4	0.7	41	633	3	23	4	190	1.50	7	< 10	49	< 0.5	< 2	1.23	9
1432003237	12.3	93.3	81.0	19.6	4.76	8.60	40	0.3	< 0.5	71	1290	< 1	112	< 2	117	4.33	9	< 10	15	< 0.5	< 2	4.42	41
1322012082	51.0	7.34	-43.7	53.9	0.136	8.43	390	0.8	< 0.5	295	341	< 1	14	3	48	2.70	10	< 10	19	< 0.5	4	1.03	8
F002938							1020	3.0	< 0.5	32	267	< 1	9	17	45	1.29	< 2	< 10	42	< 0.5	< 2	0.87	10
GC20-0539-002							228	0.3	< 0.5	154	216	< 1	4	< 2	19	2.80	6	< 10	30	< 0.5	3	1.08	6
1321005187	35.3	11.1	-24.2	38.9	0.285	8.81	121	0.9	1.1	86	818	< 1	13	4	328	2.80	12	< 10	17	< 0.5	< 2	1.38	10
GC20-0543-006							3880	0.9	< 0.5	419	285	< 1	5	2	22	2.24	7	< 10	15	< 0.5	49	0.78	6
GC20-0540-007							3360	1.2	< 0.5	91	253	< 1	9	2	24	2.29	7	< 10	16	< 0.5	10	1.01	7
1229075065	9.38	34.7	25.3	9.19	3.78	9.49	11	< 0.2	< 0.5	5	538	< 1	15	< 2	139	1.19	5	< 10	91	< 0.5	< 2	1.54	9
GC20-0528-004							> 5000	15.6	< 0.5	312	381	< 1	11	141	137	1.54	27	< 10	11	< 0.5	9	0.57	8
GC20-0545-011							210	< 0.2	< 0.5	51	275	< 1	5	6	27	2.93	2	< 10	42	< 0.5	3	1.43	5

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1321005105	33.1	19.0	-14.1	36.1	0.525	8.85	61	0.3	< 0.5	28	444	< 1	11	< 2	160	1.99	8	< 10	32	< 0.5	2	1.23	10
1321005072	48.7	10.4	-38.4	52.7	0.197	8.65	232	1.0	2.9	51	675	< 1	12	3	808	2.22	14	< 10	22	< 0.5	< 2	0.95	10
GC20-0542-003							4460	0.8	< 0.5	320	292	< 1	5	3	26	2.66	4	< 10	27	< 0.5	101	0.99	4
1432098112	33.1	10.3	-22.8	35.5	0.291	8.88	431	1.5	0.7	178	1760	< 1	28	< 2	203	2.77	20	< 10	16	< 0.5	< 2	3.97	38
GC20-0549-011							2370	3.3	< 0.5	1150	231	< 1	7	9	33	2.24	20	< 10	< 10	< 0.5	11	1.20	6
1321005030	58.3	12.5	-45.9	61.3	0.204	8.71	240	0.6	1.5	52	628	< 1	12	4	399	2.22	13	< 10	17	< 0.5	3	1.04	10
1229074081	63.0	28.1	-34.9	67.1	0.419	8.69	226	8.6	1.5	30	1550	< 1	20	232	404	1.61	97	< 10	18	< 0.5	< 2	1.25	11
GC20-0553-006							405	0.6	< 0.5	580	289	< 1	6	< 2	28	2.65	5	< 10	23	< 0.5	12	1.17	5
1432098140	33.2	103	69.7	39.2	2.63	8.85	95	0.9	1.0	177	1130	< 1	63	< 2	206	3.28	13	< 10	19	< 0.5	< 2	3.74	35
GC20-0554-005							370	0.9	< 0.5	547	288	1	6	< 2	28	3.14	4	< 10	25	< 0.5	12	1.68	6
F002937							3260	2.6	< 0.5	39	245	18	13	14	40	1.26	3	< 10	48	< 0.5	< 2	0.88	9
1322013397	39.8	12.5	-27.3	42.6	0.293	8.81	44	0.5	< 0.5	138	245	4	15	< 2	35	2.83	4	< 10	22	< 0.5	2	1.31	6
1322013393	37.8	11.1	-26.7	40.1	0.276	8.68	304	0.5	< 0.5	88	352	2	12	< 2	62	2.43	8	< 10	20	< 0.5	3	0.82	10
1229073016	8.43	38.8	30.4	11.3	3.43	9.13	86	0.8	1.2	17	753	< 1	16	20	332	2.36	15	< 10	40	< 0.5	< 2	2.46	9
1229073021	19.5	31.0	11.5	22.7	1.37	9.04	76	0.6	< 0.5	25	679	< 1	17	17	154	2.90	10	< 10	46	< 0.5	< 2	2.39	10
GC20-0850-014							6	< 0.2	< 0.5	15	466	1	11	3	56	1.74	4	< 10	48	< 0.5	< 2	1.68	9
1322013517	38.3	12.0	-26.3	41.7	0.288	8.73	378	0.9	< 0.5	211	303	< 1	11	3	34	3.08	14	< 10	21	< 0.5	4	1.41	8
GC20-0980-014							5	< 0.2	< 0.5	127	482	< 1	48	< 2	44	5.42	< 2	< 10	13	< 0.5	< 2	3.87	20
1229073070	32.4	72.0	39.6	36.8	1.96	8.90	162	1.2	3.5	43	1270	< 1	8	54	848	0.67	44	< 10	25	< 0.5	3	2.30	7
1322013462	41.3	19.1	-22.3	43.8	0.436	8.58	159	0.4	< 0.5	133	241	< 1	12	4	41	2.21	12	< 10	23	< 0.5	3	1.25	9
1229073001	5.63	26.8	21.2	5.51	4.86	9.33	10	< 0.2	< 0.5	18	417	< 1	22	3	98	2.00	3	< 10	87	< 0.5	< 2	1.58	11
GC20-0373-019							10	< 0.2	< 0.5	7	183	< 1	12	4	37	1.70	16	< 10	19	< 0.5	< 2	0.29	7
1229073396	116	21.8	-93.8	121	0.180	8.51	133	1.5	1.8	26	339	< 1	14	283	503	0.47	32	< 10	< 10	< 0.5	< 2	0.91	11
1322013185	45.9	15.7	-30.3	49.9	0.314	8.62	115	0.2	< 0.5	32	369	< 1	21	4	95	2.98	9	< 10	12	< 0.5	3	1.28	11
1432003185	35.5	109	73.2	43.2	2.52	8.41	69	0.7	< 0.5	78	1220	< 1	58	< 2	129	4.15	20	< 10	40	< 0.5	< 2	4.14	29
1322013119	25.5	9.59	-15.9	29.1	0.330	8.77	128	0.7	< 0.5	225	363	4	15	< 2	70	3.04	10	< 10	20	< 0.5	4	1.15	9
1322013193	30.6	13.1	-17.5	33.7	0.389	8.52	143	1.1	< 0.5	418	304	10	16	2	62	1.79	7	< 10	17	< 0.5	3	0.91	8
1322015004	24.0	14.9	-9.09	27.6	0.539	8.58	169	0.6	< 0.5	279	363	< 1	15	< 2	37	3.27	7	11	28	< 0.5	4	1.26	9
1322013389	51.0	13.8	-37.2	55.7	0.248	8.56	120	0.5	< 0.5	39	266	1	18	4	58	2.55	11	< 10	11	< 0.5	4	0.90	10
1322015083	42.2	17.4	-24.7	46.9	0.372	8.57	62	0.8	0.6	52	533	3	19	8	227	2.03	14	< 10	15	< 0.5	< 2	1.19	9
1322015028	30.7	31.5	0.814	35.5	0.888	8.80	31	0.3	1.3	46	670	1	21	4	395	1.29	13	< 10	25	< 0.5	3	1.21	9
1322015134	35.4	12.2	-23.2	38.6	0.317	8.30	567	1.3	< 0.5	333	497	< 1	13	5	104	1.91	10	10	20	< 0.5	6	0.88	9
1322013335	56.9	9.34	-47.5	60.3	0.155	8.26	260	0.3	< 0.5	114	221	4	13	3	28	2.65	6	< 10	16	< 0.5	5	1.36	15
F002936							738	4.5	< 0.5	28	231	< 1	8	12	38	1.19	< 2	< 10	40	< 0.5	< 2	0.74	9
GC20-0463-018							241	0.8	< 0.5	156	412	3	13	< 2	67	1.96	11	< 10	17	< 0.5	2	1.01	9
GC20-0461-014							84	0.5	7.9	137	888	< 1	22	< 2	1770	1.39	7	< 10	17	< 0.5	< 2	2.91	11
GC20-0459-001							168	0.6	< 0.5	107	598	3	14	3	97	2.21	10	< 10	27	< 0.5	2	1.25	9
GC20-0463-001							149	1.3	< 0.5	53	599	1	12	4	149	2.28	18	< 10	21	< 0.5	4	1.68	8
1432004079	27.8	145	117	38.6	3.75	8.33	178	1.8	1.0	397	1450	< 1	68	< 2	275	3.59	15	< 10	< 10	< 0.5	< 2	4.62	41
GC20-0467-001							132	1.0	1.3	126	527	< 1	11	4	347	2.76	7	< 10	19	< 0.5	3	1.62	8
1331004285	29.2	156	127	37.7	4.14	8.62	103	0.6	< 0.5	91	1360	< 1	80	7	142	3.07	28	< 10	57	< 0.5	< 2	4.60	29
1331004109	0.828	82.8	81.9	3.98	20.8	8.76	6	0.2	< 0.5	76	729	< 1	76	< 2	89	3.40	3	< 10	18	< 0.5	< 2	3.55	33
1331004155	25.9	56.3	30.4	34.3	1.64	8.70	58	0.7	0.8	242	938	< 1	70	< 2	287	3.20	7	< 10	23	< 0.5	< 2	3.53	34
1331004241	24.2	56.4	32.3	27.0	2.09	8.94	46	0.3	< 0.5	22	674	< 1	25	3	150	1.85	9	< 10	40	< 0.5	< 2	2.74	11
GC20-0505-001							274	0.7	< 0.5	91	300	2	11	< 2	37	3.22	4	< 10	23	< 0.5	10	1.43	6
GC20-0502-005							225	0.4	< 0.5	190	215	< 1	8	< 2	20	1.70	7	< 10	13	< 0.5	3	1.05	9
1331004039	11.7	95.4	83.8	18.7	5.11	8.98	41	0.3	< 0.5	44	1060	< 1	89	< 2	142	4.06	12	< 10	55	< 0.5	< 2	4.30	33
1432004076	39.5	179	140	51.1	3.51	8.93	211	2.2	0.8	345	1500	< 1	76	< 2	285	3.68	15	< 10	12	< 0.5	< 2	5.32	38
GC20-0464-014							574	1.0	< 0.5	214	423	3	12	3	108	2.11	16	< 10	11	< 0.5	4	1.18	8

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0465-011							93	0.8	< 0.5	162	414	3	12	4	59	3.02	8	< 10	10	< 0.5	4	1.43	8
GC20-0466-007							563	1.6	< 0.5	374	348	3	12	5	59	3.50	11	< 10	13	< 0.5	5	1.49	8
1331004103	2.50	39.9	37.4	2.45	16.3	8.92	< 5	< 0.2	< 0.5	27	651	< 1	106	< 2	104	3.16	4	< 10	< 10	< 0.5	< 2	2.53	34
1432004113	0.000	99.3	99.3	9.80	10.1	8.33	36	0.5	< 0.5	67	1930	< 1	7	< 2	262	3.86	9	< 10	< 10	< 0.5	< 2	4.02	29
GC20-0467-018							620	1.4	< 0.5	300	531	3	13	4	90	2.75	10	< 10	17	< 0.5	3	1.44	10
GC20-0503-012							252	2.4	< 0.5	646	343	19	9	7	88	2.09	18	< 10	19	< 0.5	4	0.60	11
GC20-0501-001							238	0.6	< 0.5	222	353	8	15	< 2	39	2.07	5	< 10	23	< 0.5	4	1.19	10
1331002287	14.7	57.3	42.6	14.4	3.98	8.87	18	< 0.2	< 0.5	18	787	< 1	22	< 2	92	2.31	14	12	40	< 0.5	< 2	2.63	9
F002935							1030	3.1	< 0.5	32	264	< 1	9	17	44	1.27	< 2	< 10	43	< 0.5	< 2	0.85	9
GC20-0521-006							195	0.4	< 0.5	58	444	4	19	3	66	3.00	14	< 10	22	< 0.5	3	1.57	13
GC20-0517-001							98	0.4	< 0.5	83	315	< 1	11	3	56	2.96	10	< 10	27	< 0.5	3	1.20	8
GC20-0515-006							164	0.4	< 0.5	85	245	< 1	16	3	32	3.06	11	< 10	15	< 0.5	4	1.38	9
GC20-0522-009FD							361	0.9	0.7	144	519	2	20	9	249	2.35	29	< 10	19	< 0.5	4	0.85	13
1229075050	4.69	10.5	5.78	4.59	2.28	8.99	5	< 0.2	< 0.5	115	417	< 1	42	< 2	54	4.94	< 2	< 10	19	< 0.5	< 2	3.44	19
GC20-0516-005							522	2.0	< 0.5	47	584	< 1	21	5	229	2.66	36	< 10	12	< 0.5	5	1.07	16
GC20-0514-001							109	0.6	< 0.5	42	415	1	14	4	124	2.24	10	< 10	28	< 0.5	4	0.94	10
1229075077	32.2	19.2	-13.0	36.1	0.532	8.76	35	1.3	0.5	20	464	< 1	10	18	165	1.47	38	< 10	23	< 0.5	< 2	1.20	7
1321005177	27.3	10.1	-17.2	31.9	0.317	8.89	98	0.5	1.1	42	867	< 1	12	3	274	3.21	12	< 10	33	< 0.5	2	1.73	9
1321005015	54.6	6.49	-48.1	62.8	0.103	8.50	360	1.4	5.5	179	510	< 1	6	4	1430	1.78	13	< 10	15	< 0.5	4	0.81	8
1229075048	3.75	10.2	6.50	3.67	2.79	8.93	5	< 0.2	< 0.5	121	431	< 1	49	< 2	49	4.74	< 2	< 10	11	< 0.5	< 2	3.43	21
1229075001	15.9	10.3	-5.60	20.5	0.503	8.90	20	1.1	< 0.5	19	508	< 1	9	11	50	2.61	34	< 10	36	< 0.5	< 2	1.75	5
1229075014	8.22	25.8	17.6	12.6	2.06	9.29	13	0.4	< 0.5	14	478	< 1	17	29	130	1.16	6	< 10	60	< 0.5	< 2	1.32	10
GC20-0524-009							63	0.3	< 0.5	72	309	< 1	12	3	39	2.74	9	< 10	27	< 0.5	3	0.85	11
GC20-0531-013							390	0.5	< 0.5	65	333	2	13	4	41	2.04	14	< 10	19	< 0.5	4	0.53	10
1321005180	44.8	13.4	-31.4	48.1	0.279	8.58	219	0.6	0.8	72	500	< 1	12	3	261	2.00	11	< 10	16	< 0.5	< 2	1.02	10
1321005142	45.7	9.37	-36.4	49.3	0.190	8.56	123	0.6	1.0	91	574	< 1	11	< 2	309	2.05	6	< 10	16	< 0.5	2	0.82	8
GC20-0525-003							124	0.4	< 0.5	14	428	< 1	9	4	89	2.17	18	< 10	14	< 0.5	2	0.56	8
1321005145	42.5	11.1	-31.4	45.9	0.242	9.49	188	0.6	2.3	67	591	< 1	12	2	484	2.09	11	< 10	15	< 0.5	< 2	1.00	10
1229075016	14.1	31.9	17.8	13.8	2.31	8.65	17	0.3	< 0.5	6	602	3	15	3	135	1.19	5	< 10	72	< 0.5	< 2	1.48	9
1322016106	44.1	9.48	-34.6	47.2	0.201	8.64	325	0.8	< 0.5	95	288	< 1	11	5	59	2.31	12	< 10	21	< 0.5	7	0.99	9
F002925							1040	3.0	< 0.5	31	254	< 1	9	17	43	1.17	< 2	< 10	39	< 0.5	< 2	0.79	10
1321001061	89.8	7.84	-81.9	95.6	0.0821	8.05	164	0.7	< 0.5	209	326	6	15	< 2	110	1.67	7	< 10	< 10	< 0.5	8	0.89	12
GC20-0451-001							235	1.1	< 0.5	134	426	2	13	3	61	1.61	10	< 10	14	< 0.5	2	0.89	10
GC20-0453-018							71	0.5	0.5	90	468	4	11	< 2	152	1.43	6	< 10	24	< 0.5	< 2	1.99	9
GC20-0454-001							82	0.4	< 0.5	67	501	3	14	3	106	1.02	10	< 10	13	< 0.5	< 2	0.75	10
GC20-0455-015							660	1.6	0.5	473	507	3	11	3	203	1.14	12	< 10	15	< 0.5	< 2	1.18	9
GC20-0453-001							463	0.5	< 0.5	50	530	2	12	4	74	1.44	10	< 10	15	< 0.5	< 2	0.87	11
GC20-0454-018							332	1.0	2.2	113	438	4	12	2	547	1.04	18	< 10	19	< 0.5	< 2	1.96	10
GC20-0459-018							35	0.3	< 0.5	75	423	2	13	2	71	1.95	9	< 10	50	< 0.5	< 2	1.15	10
1321001100	87.2	11.7	-75.5	92.2	0.127	8.37	98	0.4	< 0.5	57	360	3	13	2	97	1.60	7	< 10	31	< 0.5	4	0.98	10
1432004071	43.0	83.3	40.3	53.0	1.57	8.24	194	1.4	0.5	260	1270	< 1	63	< 2	178	3.48	19	< 10	40	< 0.5	< 2	4.27	36
1432004094	79.7	87.4	7.71	96.5	0.906	8.24	357	2.1	0.6	257	1670	< 1	55	< 2	241	3.45	30	< 10	31	< 0.5	< 2	3.83	32
1432004039	14.0	56.1	42.1	18.7	3.00	8.94	46	0.4	2.8	53	800	< 1	42	7	502	3.63	6	< 10	88	< 0.5	< 2	3.09	17

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1321004043	149	2.59	< 10	< 1	0.19	11	0.61	0.167	0.034	0.86	< 2	1	74	0.04	4	< 2	< 10	11	< 10	2	6	0.18	0.83
1321004081	173	3.51	< 10	< 1	0.93	55	1.62	0.074	0.144	0.31	2	7	185	0.13	2	< 2	< 10	67	< 10	7	5	0.50	0.34
1325001054	126	2.00	< 10	< 1	0.18	10	0.86	0.069	0.041	1.12	2	< 1	39	< 0.01	< 1	< 2	< 10	6	< 10	2	6	0.79	1.00
1325001163	243	2.01	< 10	< 1	0.17	13	0.77	0.145	0.037	1.12	3	< 1	61	< 0.01	< 1	< 2	< 10	10	< 10	2	6	0.53	0.92
1321007185	254	2.43	< 10	< 1	0.12	19	1.26	0.212	0.050	1.42	3	1	125	< 0.01	2	< 2	< 10	18	< 10	3	1	0.26	1.37
1325001187	182	2.30	< 10	< 1	0.22	12	0.93	0.113	0.035	1.69	2	< 1	61	< 0.01	< 1	< 2	< 10	13	< 10	2	7	0.67	1.69
1325001742	158	2.13	< 10	< 1	0.21	< 10	1.06	0.037	0.041	1.64	2	< 1	31	< 0.01	< 1	< 2	< 10	6	< 10	2	6	1.20	1.63
1328070130	177	1.28	< 10	< 1	0.16	< 10	0.38	0.045	0.033	0.33	< 2	< 1	41	< 0.01	< 1	< 2	< 10	7	< 10	< 1	3	0.15	0.34
GC20-0650-005	171	3.42	< 10	< 1	0.28	12	1.02	0.138	0.031	2.36	4	2	100	< 0.01	5	< 2	< 10	13	12	3	19		
GC20-0647-001	221	2.26	< 10	< 1	0.12	< 10	0.86	0.123	0.040	1.63	3	1	86	0.01	< 1	< 2	< 10	17	< 10	3	10		
1325001776	127	2.19	< 10	< 1	0.25	< 10	1.18	0.035	0.040	1.61	< 2	< 1	32	< 0.01	< 1	< 2	< 10	6	< 10	2	5	1.33	1.60
1321007068	82	1.64	< 10	< 1	0.21	41	0.47	0.095	0.068	0.89	< 2	< 1	141	< 0.01	< 1	< 2	< 10	7	< 10	4	2	0.45	0.81
1325001759	239	2.37	< 10	< 1	0.24	< 10	0.88	0.036	0.040	2.31	7	< 1	27	< 0.01	< 1	< 2	< 10	5	< 10	2	7	1.32	2.24
1325001035	140	2.15	< 10	< 1	0.22	13	0.87	0.080	0.040	1.82	2	< 1	54	< 0.01	< 1	< 2	< 10	11	< 10	2	8	0.77	1.77
1321007221	145	2.37	< 10	< 1	0.14	16	1.15	0.163	0.053	1.52	2	1	102	< 0.01	4	< 2	< 10	15	< 10	3	2	0.21	1.54
1328070076	132	1.26	< 10	< 1	0.06	< 10	0.41	0.081	0.032	0.21	< 2	< 1	57	< 0.01	< 1	< 2	< 10	11	< 10	< 1	2	0.10	0.22
1325001701	138	2.03	< 10	< 1	0.24	< 10	0.97	0.036	0.046	2.04	3	< 1	23	< 0.01	< 1	< 2	< 10	4	< 10	2	4	1.16	1.91
GC20-06749-001	140	2.15	< 10	< 1	0.11	17	1.09	0.288	0.039	1.21	< 2	1	155	< 0.01	< 1	< 2	< 10	19	< 10	3	7		
1321007018	131	2.46	< 10	< 1	0.22	12	1.61	0.162	0.035	1.42	< 2	< 1	82	< 0.01	< 1	< 2	< 10	10	< 10	2	4	0.20	1.43
1328070047	122	1.37	< 10	< 1	0.32	16	0.23	0.060	0.041	1.42	3	< 1	52	0.04	1	< 2	< 10	5	< 10	3	2	0.54	1.36
1328070158	257	2.02	< 10	< 1	0.39	21	1.00	0.035	0.085	1.06	< 2	2	79	0.06	< 1	< 2	< 10	25	< 10	3	4	0.64	1.07
F002949	11	1.92	< 10	< 1	0.25	12	0.41	0.211	0.034	0.03	< 2	2	30	0.29	2	< 2	< 10	49	< 10	17	7		
1229070261	78	1.65	< 10	< 1	0.21	< 10	0.59	0.167	0.030	0.29	< 2	< 1	146	0.01	2	< 2	< 10	9	< 10	1	2	0.15	0.31
1322012051	113	4.02	< 10	1	0.15	< 10	1.65	0.474	0.029	0.23	< 2	4	85	0.15	< 1	< 2	< 10	96	< 10	3	4	0.08	0.24
1322015020	364	2.97	< 10	< 1	0.31	15	0.64	0.116	0.044	1.86	< 2	1	52	0.01	2	< 2	< 10	12	< 10	2	8	0.27	1.83
1322013122	133	3.01	< 10	2	0.22	11	0.83	0.116	0.037	1.49	< 2	< 1	98	< 0.01	2	< 2	< 10	10	< 10	2	7	0.17	1.52
1322015023	155	2.15	< 10	< 1	0.31	12	0.89	0.190	0.038	1.27	< 2	1	102	0.01	< 1	< 2	< 10	17	< 10	2	3	0.33	1.25
1432003065	41	11.4	10	< 1	0.04	< 10	2.83	0.038	0.048	0.52	3	22	68	0.11	< 1	< 2	< 10	487	< 10	7	3	2.26	0.63
1322015107	264	3.12	< 10	1	0.21	12	1.20	0.224	0.037	0.75	3	1	151	0.01	< 1	< 2	< 10	16	< 10	2	2	0.24	0.76
1322015189	428	2.23	< 10	< 1	0.27	13	0.64	0.257	0.040	1.18	2	1	162	0.02	< 1	< 2	< 10	16	< 10	2	2	0.35	1.19
1432003186	167	6.46	10	1	0.20	< 10	2.03	0.258	0.050	1.11	3	6	57	0.07	< 1	< 2	< 10	116	< 10	6	6	1.25	1.19
1432005234	174	2.86	< 10	2	0.41	22	1.53	0.192	0.075	0.39	< 2	3	154	0.10	1	< 2	< 10	50	< 10	4	4	0.50	0.45
1322015297	155	2.20	< 10	< 1	0.25	15	0.93	0.147	0.043	1.56	< 2	1	74	< 0.01	3	< 2	< 10	13	< 10	2	3	0.30	1.52
1432003160	219	8.57	10	2	0.13	< 10	2.43	0.185	0.046	0.39	3	9	48	0.11	< 1	< 2	< 10	219	< 10	7	3	1.65	0.47
1432003091	102	7.78	10	2	0.23	< 10	2.35	0.084	0.045	0.78	2	16	58	0.12	< 1	< 2	< 10	367	< 10	6	5	1.95	0.85
1432003313	158	10.4	10	< 1	0.25	< 10	4.57	0.023	0.037	0.30	4	11	57	0.08	< 1	< 2	< 10	150	< 10	6	3	2.00	0.36
1322012112	277	3.04	< 10	< 1	0.25	14	1.10	0.105	0.037	1.37	< 2	1	85	0.02	< 1	< 2	< 10	16	< 10	2	7	0.13	1.43
1322012153	329	3.75	< 10	2	0.28	20	1.33	0.124	0.053	2.69	2	2	105	0.03	< 1	< 2	< 10	21	< 10	3	9	0.18	2.64
1322015341	247	2.13	< 10	< 1	0.44	13	1.10	0.054	0.042	0.54	< 2	2	32	0.04	< 1	< 2	< 10	21	< 10	2	3	0.43	0.55
1432003237	183	9.07	10	1	0.10	< 10	3.06	0.212	0.043	0.54	4	9	67	0.07	< 1	< 2	< 10	163	11	6	3	2.24	0.64
1322012082	108	3.22	< 10	1	0.16	11	0.78	0.092	0.036	1.76	< 2	< 1	137	< 0.01	< 1	< 2	< 10	11	< 10	2	4	0.18	1.76
F002938	14	2.15	< 10	< 1	0.21	14	0.40	0.241	0.039	0.03	< 2	2	39	0.33	3	< 2	< 10	56	< 10	17	12		
GC20-0539-002	68	2.87	< 10	< 1	0.17	10	0.65	0.175	0.033	0.98	< 2	< 1	110	0.02	< 1	< 2	< 10	10	< 10	2	3		
1321005187	152	2.58	< 10	1	0.32	12	1.51	0.198	0.039	1.22	< 2	1	102	0.05	< 1	< 2	< 10	16	< 10	3	2	0.29	1.27
GC20-0543-006	81	4.09	< 10	2	0.22	< 10	0.61	0.095	0.032	2.14	2	< 1	67	0.03	< 1	< 2	< 10	8	< 10	2	14		
GC20-0540-007	83	3.50	< 10	2	0.24	< 10	0.66	0.105	0.035	1.72	< 2	< 1	70	0.01	< 1	< 2	< 10	9	< 10	3	10		
1229075065	188	1.95	< 10	< 1	0.42	14	0.72	0.067	0.042	0.30	< 2	2	34	0.10	2	< 2	< 10	25	< 10	3	13	0.39	0.30
GC20-0528-004	138	4.08	< 10	2	0.25	17	0.84	0.020	0.040	2.94	2	< 1	24	0.05	1	< 2	< 10	10	< 10	2	19		
GC20-0545-011	93	2.67	< 10	2	0.27	< 10	0.90	0.152	0.031	0.72	< 2	< 1	102	0.03	< 1	< 2	< 10	9	< 10	2	5		
1321005105	183	2.44	< 10	< 1	0.15	16	1.11	0.177	0.051	1.14	< 2	1	125	0.02	< 1	< 2	< 10	21	< 10	3	2	0.24	1.18
1321005072	150	2.83	< 10	< 1	0.23	14	1.19	0.134	0.043	1.74	< 2	< 1	62	0.03	< 1	< 2	< 10	12	< 10	3	8	0.16	1.72

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0542-003	101	3.86	< 10	2	0.27	< 10	0.69	0.125	0.033	1.17	2	< 1	81	0.03	< 1	< 2	< 10	11	< 10	2	7		
1432098112	40	11.4	10	< 1	0.16	< 10	2.60	0.070	0.052	1.58	4	21	49	0.12	< 1	< 2	< 10	469	< 10	8	4	0.14	1.16
GC20-0549-011	119	4.11	< 10	2	0.23	11	0.61	0.138	0.037	3.47	< 2	< 1	87	0.01	< 1	< 2	< 10	7	< 10	2	15		
1321005030	149	3.10	< 10	< 1	0.19	16	1.30	0.124	0.047	1.96	< 2	< 1	55	0.02	< 1	< 2	< 10	13	< 10	3	6	0.18	2.00
1229074081	92	2.49	< 10	< 1	0.61	17	1.06	0.033	0.053	2.17	2	1	12	0.03	< 1	< 2	< 10	13	< 10	2	7	0.29	2.19
GC20-0553-006	89	3.34	< 10	1	0.20	11	0.73	0.134	0.034	1.51	< 2	< 1	104	0.02	< 1	< 2	< 10	11	< 10	2	9		
1432098140	155	8.73	< 10	1	0.16	< 10	2.54	0.050	0.045	1.12	2	9	29	0.10	< 1	< 2	< 10	285	< 10	5	3	1.26	1.28
GC20-0554-005	110	2.88	< 10	2	0.18	< 10	0.75	0.217	0.032	1.13	< 2	< 1	155	0.02	< 1	< 2	< 10	10	< 10	2	2		
F002937	14	1.95	< 10	< 1	0.27	13	0.49	0.204	0.050	0.05	< 2	3	32	0.22	2	< 2	< 10	62	< 10	18	6		
1322013397	283	1.97	< 10	< 1	0.19	11	0.90	0.258	0.039	1.32	< 2	1	156	< 0.01	< 1	< 2	< 10	12	< 10	2	3	0.19	1.39
1322013393	140	2.78	< 10	2	0.21	13	1.54	0.131	0.038	1.36	< 2	< 1	67	< 0.01	< 1	< 2	< 10	11	< 10	2	3	0.25	1.31
1229073016	149	2.14	< 10	< 1	0.31	19	0.91	0.175	0.051	0.75	< 2	1	79	0.07	< 1	< 2	< 10	20	< 10	2	2	0.26	0.37
1229073021	107	2.30	< 10	< 1	0.36	19	0.98	0.271	0.053	0.70	4	2	136	0.08	< 1	3	< 10	24	< 10	3	2	0.34	0.74
GC20-0850-014	136	1.98	< 10	< 1	0.23	17	1.25	0.102	0.045	0.34	< 2	2	34	0.05	< 1	< 2	< 10	21	< 10	2	2		
1322013517	123	2.65	< 10	1	0.15	12	1.07	0.193	0.035	1.39	< 2	< 1	116	< 0.01	< 1	< 2	< 10	10	< 10	2	4	0.25	1.36
GC20-0980-014	196	4.87	< 10	2	0.05	< 10	1.60	0.712	0.020	0.09	2	6	62	0.21	< 1	< 2	< 10	143	< 10	4	2		
1229073070	94	1.43	< 10	< 1	0.27	< 10	0.59	0.024	0.039	1.27	< 2	< 1	19	< 0.01	< 1	< 2	< 10	3	< 10	2	4	0.97	1.20
1322013462	168	2.51	< 10	< 1	0.15	11	0.93	0.101	0.038	1.42	< 2	< 1	83	< 0.01	< 1	< 2	< 10	10	< 10	2	5	0.31	1.43
1229073001	321	2.63	< 10	< 1	0.38	20	1.02	0.135	0.053	0.15	< 2	3	92	0.12	2	< 2	< 10	38	< 10	4	7	0.31	0.18
GC20-0373-019	181	1.11	< 10	< 1	0.06	< 10	0.32	0.051	0.033	0.18	< 2	< 1	31	< 0.01	2	< 2	< 10	10	< 10	< 1	2		
1229073396	122	3.40	< 10	< 1	0.30	< 10	0.05	0.011	0.030	4.28	3	< 1	56	< 0.01	1	< 2	< 10	4	< 10	1	14	0.30	3.96
1322013185	454	3.18	< 10	2	0.27	13	1.05	0.203	0.037	1.55	3	1	135	< 0.01	2	< 2	< 10	15	< 10	2	1	0.40	1.63
1432003185	206	7.20	10	1	0.32	11	2.21	0.339	0.053	1.26	4	6	74	0.07	< 1	< 2	< 10	133	< 10	6	6	1.58	1.41
1322013119	228	2.83	< 10	1	0.30	11	1.17	0.168	0.033	1.01	< 2	1	135	< 0.01	< 1	2	< 10	15	< 10	2	1	0.18	0.95
1322013193	235	2.26	< 10	< 1	0.10	13	0.85	0.139	0.038	1.16	< 2	1	86	< 0.01	< 1	< 2	< 10	14	< 10	2	2	0.46	1.10
1322015004	327	3.34	< 10	1	0.24	13	1.08	0.170	0.038	0.96	3	1	123	< 0.01	< 1	< 2	< 10	16	< 10	2	2	0.19	0.90
1322013389	389	3.03	< 10	2	0.31	13	1.67	0.106	0.040	1.87	< 2	< 1	63	0.02	1	< 2	< 10	14	< 10	2	2	0.25	1.82
1322015083	423	2.42	< 10	< 1	0.27	15	0.77	0.208	0.044	1.61	< 2	1	125	< 0.01	< 1	< 2	< 10	17	< 10	2	7	0.23	1.53
1322015028	516	2.24	< 10	< 1	0.27	12	0.90	0.081	0.040	1.16	2	2	43	< 0.01	1	< 2	< 10	18	< 10	2	6	0.40	1.16
1322015134	165	2.83	< 10	< 1	0.17	13	0.72	0.128	0.037	1.24	2	< 1	58	0.02	< 1	< 2	< 10	12	< 10	2	3	0.16	1.26
1322013335	181	2.99	< 10	1	0.14	12	1.01	0.166	0.037	2.04	< 2	< 1	104	< 0.01	< 1	2	< 10	11	< 10	2	6	0.19	1.97
F002936	12	1.96	< 10	< 1	0.25	12	0.41	0.231	0.035	0.03	< 2	2	34	0.30	3	< 2	< 10	50	< 10	17	12		
GC20-0463-018	142	2.90	< 10	< 1	0.18	14	0.74	0.195	0.044	1.78	< 2	< 1	91	0.01	< 1	< 2	< 10	12	< 10	3	9		
GC20-0461-014	108	2.98	< 10	< 1	0.10	22	1.05	0.139	0.056	2.13	< 2	2	56	< 0.01	< 1	< 2	< 10	15	< 10	4	5		
GC20-0459-001	220	2.75	< 10	< 1	0.14	13	0.83	0.262	0.041	1.57	< 2	1	96	0.04	< 1	< 2	< 10	19	< 10	3	10		
GC20-0463-001	196	2.08	< 10	< 1	0.10	12	1.01	0.212	0.049	1.99	2	< 1	108	< 0.01	2	< 2	< 10	9	< 10	2	8		
1432004079	37	11.4	10	< 1	0.02	< 10	3.41	0.028	0.044	1.07	4	16	35	0.15	< 1	< 2	< 10	536	< 10	6	4	1.83	1.26
GC20-0467-001	166	2.16	< 10	< 1	0.10	12	1.10	0.194	0.042	1.92	< 2	< 1	142	< 0.01	1	< 2	< 10	11	16	2	6		
1331004285	140	7.41	< 10	< 1	0.34	< 10	2.46	0.173	0.056	1.14	2	10	94	0.16	< 1	< 2	< 10	148	< 10	8	6	2.21	1.23
1331004109	231	7.75	10	1	0.10	< 10	2.34	0.087	0.047	0.10	3	7	43	0.13	< 1	< 2	< 10	180	< 10	5	2	1.16	0.13
1331004155	140	7.31	< 10	< 1	0.14	< 10	2.13	0.206	0.048	1.03	< 2	15	70	0.16	< 1	< 2	< 10	305	< 10	7	3	0.64	1.12
1331004241	127	2.49	< 10	< 1	0.28	19	1.14	0.059	0.057	0.89	< 2	2	45	0.05	1	< 2	< 10	35	< 10	3	1	0.64	0.88
GC20-0505-001	137	3.52	< 10	2	0.17	14	1.37	0.174	0.039	1.34	< 2	1	112	0.01	< 1	< 2	< 10	20	< 10	2	5		
GC20-0502-005	118	3.60	< 10	1	0.19	13	0.71	0.063	0.034	2.71	< 2	< 1	45	0.04	< 1	< 2	< 10	10	< 10	2	15		
1331004039	162	7.03	< 10	2	0.42	< 10	2.42	0.207	0.043	0.55	3	6	60	0.18	< 1	< 2	< 10	137	< 10	6	3	1.18	0.61
1432004076	31	11.3	10	< 1	0.09	< 10	3.19	0.024	0.043	1.41	3	16	47	0.16	< 1	< 2	< 10	531	< 10	7	3	2.25	1.67
GC20-0464-014	106	3.44	< 10	< 1	0.22	13	0.69	0.181	0.044	2.59	2	1	88	0.02	1	< 2	< 10	14	< 10	3	11		
GC20-0465-011	137	3.33	< 10	2	0.17	12	0.91	0.300	0.041	2.15	2	< 1	168	< 0.01	< 1	< 2	< 10	11	< 10	2	6		
GC20-0466-007	138	3.44	< 10	1	0.18	13	1.00	0.266	0.046	2.57	< 2	< 1	204	< 0.01	< 1	< 2	< 10	12	< 10	2	8		
1331004103	169	6.30	< 10	1	0.05	< 10	2.54	0.161	0.046	0.07	2	7	18	0.15	< 1	< 2	< 10	118	< 10	6	2	0.49	0.08
1432004113	95	11.7	10	< 1	0.06	< 10	2.10	0.230	0.096	0.62	4	14	110	0.12	< 1	< 2	< 10	201	< 10	12	4	1.15	0.32

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0467-018	157	3.07	< 10	1	0.17	12	0.92	0.305	0.039	1.77	2	< 1	150	< 0.01	< 1	< 2	< 10	13	< 10	2	9		
GC20-0503-012	74	3.08	< 10	< 1	0.11	12	0.68	0.072	0.040	1.92	< 2	< 1	75	< 0.01	1	< 2	< 10	11	< 10	2	10		
GC20-0501-001	318	2.98	< 10	< 1	0.08	14	0.91	0.186	0.038	1.34	< 2	2	120	< 0.01	< 1	< 2	< 10	17	< 10	3	9		
1331002287	120	2.15	< 10	< 1	0.24	17	1.34	0.096	0.049	0.44	< 2	1	55	0.03	< 1	< 2	< 10	20	< 10	3	< 1	0.61	0.47
F002935	14	2.11	< 10	< 1	0.21	14	0.40	0.237	0.038	0.03	< 2	2	38	0.32	4	2	< 10	56	< 10	16	16		
GC20-0521-006	60	4.92	< 10	2	0.15	16	1.96	0.092	0.045	1.65	< 2	3	65	< 0.01	< 1	< 2	< 10	38	< 10	4	6		
GC20-0517-001	152	2.65	< 10	2	0.13	14	1.03	0.180	0.041	1.50	< 2	< 1	136	< 0.01	< 1	< 2	< 10	10	< 10	3	7		
GC20-0515-006	339	3.13	< 10	2	0.18	14	0.89	0.181	0.038	2.05	< 2	< 1	139	< 0.01	1	< 2	< 10	11	< 10	3	8		
GC20-0522-009FD	159	4.98	< 10	2	0.22	16	1.87	0.032	0.060	2.47	2	2	36	< 0.01	< 1	< 2	< 10	24	< 10	4	15		
1229075050	142	4.16	< 10	3	0.07	< 10	1.37	0.615	0.023	0.12	< 2	4	65	0.17	< 1	< 2	< 10	111	< 10	3	2	0.11	0.15
GC20-0516-005	156	4.61	< 10	1	0.19	11	1.59	0.145	0.047	3.36	3	2	91	0.01	3	< 2	< 10	22	< 10	5	15		
GC20-0514-001	227	2.30	< 10	< 1	0.26	12	1.24	0.141	0.035	1.09	< 2	< 1	90	< 0.01	1	< 2	< 10	13	< 10	2	6		
1229075077	168	1.77	< 10	< 1	0.29	16	0.50	0.135	0.040	1.23	< 2	< 1	54	0.01	< 1	< 2	< 10	14	< 10	2	5	0.27	1.18
1321005177	130	2.62	< 10	2	0.57	13	1.58	0.280	0.042	1.06	< 2	1	251	0.08	< 1	< 2	< 10	22	< 10	3	5	0.20	1.04
1321005015	107	2.60	< 10	< 1	0.21	18	0.93	0.094	0.047	2.12	< 2	< 1	39	0.02	2	< 2	< 10	9	< 10	3	9	0.15	2.05
1229075048	92	4.40	< 10	2	0.06	< 10	1.60	0.516	0.019	0.11	< 2	4	74	0.19	< 1	< 2	< 10	120	< 10	3	2	0.14	0.12
1229075001	185	1.53	< 10	< 1	0.21	16	0.50	0.305	0.041	0.65	< 2	< 1	125	0.02	< 1	< 2	< 10	12	< 10	2	< 1	0.20	0.67
1229075014	243	2.05	< 10	< 1	0.36	17	0.65	0.073	0.048	0.40	< 2	2	39	0.10	< 1	< 2	< 10	28	< 10	3	9	0.36	0.41
GC20-0524-009	87	3.00	< 10	2	0.17	13	1.18	0.094	0.045	1.28	< 2	1	74	< 0.01	1	< 2	< 10	13	< 10	2	2		
GC20-0531-013	97	4.20	< 10	< 1	0.26	14	1.07	0.045	0.043	1.93	< 2	1	42	0.03	< 1	< 2	< 10	15	< 10	3	15		
1321005180	120	2.57	< 10	< 1	0.30	15	1.37	0.126	0.045	1.63	< 2	1	101	0.03	3	< 2	< 10	15	< 10	3	6	0.24	1.57
1321005142	124	2.43	< 10	< 1	0.31	13	1.43	0.138	0.041	1.61	< 2	< 1	101	0.04	1	< 2	< 10	14	< 10	4	9	0.17	1.61
GC20-0525-003	87	3.45	< 10	2	0.23	20	1.54	0.040	0.041	2.21	< 2	< 1	28	0.02	1	< 2	< 10	11	< 10	2	12		
1321005145	130	2.48	< 10	< 1	0.23	14	1.49	0.136	0.040	1.52	< 2	1	95	0.04	< 1	< 2	< 10	15	< 10	3	7	0.20	1.50
1229075016	129	2.11	< 10	< 1	0.47	14	0.76	0.066	0.044	0.46	< 2	2	28	0.09	< 1	< 2	< 10	26	< 10	4	11	0.38	0.45
1322016106	140	2.58	< 10	< 1	0.25	12	1.04	0.156	0.039	1.55	< 2	< 1	86	< 0.01	1	< 2	< 10	10	< 10	3	9	0.17	1.54
F002925	13	2.07	< 10	< 1	0.20	14	0.38	0.219	0.038	0.03	< 2	2	35	0.32	4	< 2	< 10	54	< 10	16	18		
1321001061	114	3.44	< 10	2	0.17	14	1.05	0.102	0.042	3.23	3	1	30	0.04	1	< 2	< 10	16	< 10	3	18	0.18	3.12
GC20-0451-001	228	2.73	< 10	< 1	0.16	12	0.66	0.164	0.041	1.83	< 2	1	69	< 0.01	< 1	< 2	< 10	14	< 10	3	11		
GC20-0453-018	134	2.30	< 10	< 1	0.15	13	0.71	0.153	0.042	1.80	< 2	1	88	< 0.01	3	< 2	< 10	13	< 10	3	10		
GC20-0454-001	241	2.52	< 10	< 1	0.41	13	0.74	0.061	0.041	1.92	< 2	1	23	0.05	1	< 2	< 10	21	< 10	3	18		
GC20-0455-015	154	2.38	< 10	< 1	0.16	12	0.73	0.090	0.041	1.97	< 2	< 1	35	< 0.01	< 1	< 2	< 10	13	< 10	3	13		
GC20-0453-001	164	2.60	< 10	< 1	0.19	14	0.72	0.122	0.044	2.10	< 2	1	54	0.04	1	< 2	< 10	16	14	3	14		
GC20-0454-018	134	2.52	< 10	< 1	0.16	14	0.70	0.061	0.046	2.10	< 2	< 1	32	< 0.01	< 1	< 2	< 10	10	< 10	3	12		
GC20-0459-018	184	2.29	< 10	< 1	0.15	12	0.67	0.283	0.037	1.61	< 2	1	121	0.03	< 1	< 2	< 10	16	18	2	12		
1321001100	153	2.98	< 10	< 1	0.17	14	0.90	0.140	0.044	2.97	< 2	< 1	46	< 0.01	1	< 2	< 10	11	< 10	3	22	0.22	3.01
1432004071	116	9.65	10	1	0.26	< 10	2.57	0.121	0.051	1.50	3	12	64	0.17	< 1	< 2	< 10	388	< 10	6	4	1.78	1.73
1432004094	72	9.95	10	< 1	0.47	< 10	2.92	0.115	0.055	2.62	3	16	68	0.18	< 1	< 2	< 10	421	< 10	6	5	2.00	3.15
1432004039	208	4.51	< 10	2	0.45	13	1.73	0.367	0.052	0.53	< 2	5	121	0.09	< 1	< 2	< 10	78	< 10	4	11	0.97	0.61

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1321004043	
1321004081	
1325001054	
1325001163	
1321007185	
1325001187	
1325001742	
1328070130	
GC20-0650-005	
GC20-0647-001	
1325001776	
1321007068	
1325001759	
1325001035	
1321007221	
1328070076	
1325001701	42.9
GC20-06749-001	
1321007018	
1328070047	
1328070158	
F002949	
1229070261	
1322012051	
1322015020	
1322013122	
1322015023	
1432003065	
1322015107	
1322015189	
1432003186	
1432005234	
1322015297	
1432003160	
1432003091	
1432003313	
1322012112	
1322012153	
1322015341	
1432003237	
1322012082	
F002938	
GC20-0539-002	
1321005187	
GC20-0543-006	
GC20-0540-007	
1229075065	
GC20-0528-004	4.72
GC20-0545-011	
1321005105	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1321005072	
GC20-0542-003	
1432098112	
GC20-0549-011	
1321005030	
1229074081	
GC20-0553-006	
1432098140	
GC20-0554-005	
F002937	
1322013397	
1322013393	
1229073016	
1229073021	
GC20-0850-014	
1322013517	
GC20-0980-014	
1229073070	
1322013462	
1229073001	
GC20-0373-019	
1229073396	
1322013185	
1432003185	
1322013119	
1322013193	
1322015004	
1322013389	
1322015083	
1322015028	
1322015134	
1322013335	
F002936	
GC20-0463-018	
GC20-0461-014	
GC20-0459-001	
GC20-0463-001	
1432004079	
GC20-0467-001	
1331004285	
1331004109	
1331004155	
1331004241	
GC20-0505-001	
GC20-0502-005	
1331004039	
1432004076	
GC20-0464-014	
GC20-0465-011	
GC20-0466-007	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1331004103	
1432004113	
GC20-0467-018	
GC20-0503-012	
GC20-0501-001	
1331002287	
F002935	
GC20-0521-006	
GC20-0517-001	
GC20-0515-006	
GC20-0522-009FD	
1229075050	
GC20-0516-005	
GC20-0514-001	
1229075077	
1321005177	
1321005015	
1229075048	
1229075001	
1229075014	
GC20-0524-009	
GC20-0531-013	
1321005180	
1321005142	
GC20-0525-003	
1321005145	
1229075016	
1322016106	
F002925	
1321001061	
GC20-0451-001	
GC20-0453-018	
GC20-0454-001	
GC20-0455-015	
GC20-0453-001	
GC20-0454-018	
GC20-0459-018	
1321001100	
1432004071	
1432004094	
1432004039	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	66	1030	1	26	88	125	6.61	212	< 10	784	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1000	< 1	25	97	126	6.49	201	< 10	785	0.7	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	72	1040	< 1	22	92	115	7.18	206	< 10	919	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	67	1040	< 1	22	95	120	7.13	200	< 10	825	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas										66				88	125								
GXR-6 Cert										66.0				101	118								
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
BaSO4 Cert																							
BaSO4 Meas																							
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GS311-4 Meas																							
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GS311-4 Meas																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
GS311-4 Meas																							
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GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.0				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		42.8				8.11																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						8.36																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430						52		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395						50		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas							3120																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3070																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Meas																							
GS316-3 Cert																							
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas							520																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							501																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							512																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							495																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							509																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							491																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
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GS317-5 Meas																							
GS317-5 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
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GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
1325001054 Orig																							
1325001054 Dup																							
1321007068 Orig								< 0.2	< 0.5	51	382	< 1	6	5	38	1.50	6	< 10	28	< 0.5	< 2	1.46	6
1321007068 Dup								< 0.2	< 0.5	53	389	< 1	6	5	40	1.47	7	< 10	23	< 0.5	< 2	1.46	6
1328070076 Orig																							
1328070076 Dup																							
1325001701 Orig																							
1325001701 Dup																							
1321007018 Orig							142																
1321007018 Dup							131																
1229070261 Orig						8.91	12																
1229070261 Dup						8.91	11																
1432003065 Orig								0.5	< 0.5	255	1300	< 1	58	< 2	155	4.00	12	< 10	< 10	< 0.5	< 2	5.18	37
1432003065 Dup								0.6	< 0.5	263	1290	< 1	60	< 2	154	4.00	6	< 10	< 10	< 0.5	< 2	5.14	37
1322015341 Orig																							
1322015341 Dup																							
F002938 Orig								3.0	< 0.5	32	264	< 1	9	17	45	1.27	< 2	< 10	42	< 0.5	< 2	0.85	11
F002938 Dup								3.1	< 0.5	33	270	< 1	9	17	45	1.31	< 2	< 10	43	< 0.5	< 2	0.88	9
1321005187 Orig	35.3	11.1	-24.2	38.9	0.285		120																
1321005187 Dup	35.3	11.1	-24.2	38.9	0.285		122																
1321005030 Orig								0.6	1.5	54	632	< 1	12	4	405	2.25	14	< 10	15	< 0.5	3	1.05	9
1321005030 Dup								0.6	1.5	51	624	< 1	12	4	393	2.19	13	< 10	19	< 0.5	3	1.03	10
1432098140 Orig							94																
1432098140 Dup							95																
1322013393 Orig							308																
1322013393 Dup							300																
1432003185 Orig																							
1432003185 Dup																							
1322015083 Orig							50																
1322015083 Dup							73																
GC20-0467-001 Orig							128																
GC20-0467-001 Dup							135																
1331004285 Orig																							
1331004285 Dup																							
1331004155 Orig								0.7	0.9	245	953	< 1	73	5	291	3.22	7	< 10	23	< 0.5	< 2	3.57	34

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1331004155 Dup								0.7	0.8	239	924	< 1	67	< 2	283	3.18	7	< 10	23	< 0.5	< 2	3.50	35
1331004241 Orig							47																
1331004241 Dup							44																
1331002287 Orig								< 0.2	< 0.5	17	784	< 1	21	< 2	92	2.31	14	12	41	< 0.5	< 2	2.62	8
1331002287 Dup								< 0.2	< 0.5	18	789	< 1	22	< 2	92	2.32	13	11	40	< 0.5	< 2	2.63	9
GC20-0514-001 Orig							124																
GC20-0514-001 Dup							94																
1229075077 Orig	32.2	19.2	-13.0	36.1	0.531																		
1229075077 Dup	32.2	19.2	-13.0	36.1	0.532																		
1321005177 Orig																							
1321005177 Dup																							
1229075001 Orig								1.0	< 0.5	19	511	< 1	9	11	50	2.63	35	< 10	36	< 0.5	< 2	1.76	5
1229075001 Dup								1.1	< 0.5	19	505	< 1	10	11	51	2.59	33	< 10	36	< 0.5	< 2	1.75	6
1321005142 Orig							122																
1321005142 Dup							124																
1321001061 Orig																							
1321001061 Dup																							
GC20-0454-001 Orig								0.4	< 0.5	68	503	3	14	3	107	1.02	10	< 10	12	< 0.5	< 2	0.75	9
GC20-0454-001 Dup								0.4	< 0.5	66	499	3	14	3	105	1.02	9	< 10	14	< 0.5	< 2	0.76	10
1432004071 Orig						8.24																	
1432004071 Dup						8.24																	
1432004039 Orig	14.0	56.1	42.2	18.7	3.00																		
1432004039 Dup	14.0	56.1	42.1	18.7	3.00																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank																							
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	79	5.95	20	3	1.17	< 10	0.39	0.134	0.036	0.01	3	17	31		< 1	< 2	< 10	177	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.85	20	2	1.14	< 10	0.38	0.125	0.033	0.01	3	17	29		< 1	< 2	< 10	168	< 10	4	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.37	20	< 1	1.14	12	0.39	0.080	0.033	0.01	5	23	35		< 1	< 2	< 10	170	< 10	7	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	71	5.40	10	< 1	1.13	10	0.40	0.079	0.035	0.01	4	21	32		< 1	< 2	< 10	158	< 10	6	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas																							
GXR-6 Cert																							
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 229b (Fire Assay) Meas																							
OREAS 229b (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200		6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203		6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
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OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS316-3 Cert																						0.0600	0.340
OREAS 257b (Fire Assay) Meas																							
OREAS 257b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.08	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.56	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.13	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.06	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.21	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.12	15.3
GS317-5 Cert																						8.46	15.5

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1325001054 Orig																						0.78	0.99
1325001054 Dup																						0.79	1.00
1321007068 Orig	81	1.59	< 10	< 1	0.21	41	0.48	0.096	0.069	0.86	< 2	< 1	144	< 0.01	< 1	< 2	< 10	7	< 10	4	2		
1321007068 Dup	82	1.68	< 10	< 1	0.20	41	0.47	0.094	0.068	0.92	< 2	< 1	138	< 0.01	2	< 2	< 10	7	< 10	4	2		
1328070076 Orig																						0.11	0.21
1328070076 Dup																						0.10	0.23
1325001701 Orig																							
1325001701 Dup																							
1321007018 Orig																							
1321007018 Dup																							
1229070261 Orig																							
1229070261 Dup																							
1432003065 Orig	40	11.4	10	< 1	0.04	< 10	2.82	0.038	0.047	0.53	3	23	68	0.12	< 1	2	< 10	490	< 10	7	3	2.25	0.65
1432003065 Dup	42	11.4	10	< 1	0.04	< 10	2.84	0.039	0.048	0.52	3	22	68	0.10	< 1	< 2	< 10	484	< 10	7	3	2.27	0.62
1322015341 Orig																						0.43	0.56
1322015341 Dup																						0.43	0.53
F002938 Orig	14	2.14	< 10	< 1	0.21	14	0.40	0.238	0.039	0.03	< 2	2	38	0.32	4	3	< 10	56	< 10	17	11		
F002938 Dup	14	2.16	< 10	< 1	0.21	14	0.40	0.245	0.039	0.03	< 2	2	39	0.33	1	< 2	< 10	56	< 10	17	14		
1321005187 Orig																							
1321005187 Dup																							
1321005030 Orig	148	3.12	< 10	1	0.19	16	1.31	0.126	0.047	1.96	< 2	< 1	56	0.02	< 1	< 2	< 10	13	< 10	3	6		
1321005030 Dup	150	3.08	< 10	< 1	0.19	16	1.29	0.122	0.048	1.95	< 2	< 1	54	0.02	2	< 2	< 10	13	< 10	3	7		
1432098140 Orig																						1.25	1.31
1432098140 Dup																						1.26	1.26
1322013393 Orig																							
1322013393 Dup																							
1432003185 Orig																						1.58	1.42
1432003185 Dup																						1.58	1.40
1322015083 Orig																							
1322015083 Dup																							
GC20-0467-001 Orig																							
GC20-0467-001 Dup																							
1331004285 Orig																						2.19	1.24
1331004285 Dup																						2.23	1.22
1331004155 Orig	138	7.33	< 10	< 1	0.14	< 10	2.15	0.206	0.048	1.03	3	15	70	0.17	< 1	< 2	< 10	306	< 10	7	3		
1331004155 Dup	143	7.28	< 10	1	0.14	< 10	2.12	0.206	0.048	1.04	< 2	14	69	0.15	2	< 2	< 10	303	< 10	7	3		
1331004241 Orig																							
1331004241 Dup																							
1331002287 Orig	120	2.14	< 10	< 1	0.24	16	1.33	0.096	0.049	0.43	< 2	1	54	0.03	< 1	< 2	< 10	20	< 10	3	1		
1331002287 Dup	121	2.17	< 10	< 1	0.24	17	1.35	0.096	0.049	0.44	< 2	1	55	0.03	< 1	< 2	< 10	20	< 10	3	< 1		
GC20-0514-001 Orig																							
GC20-0514-001 Dup																							
1229075077 Orig																							
1229075077 Dup																							
1321005177 Orig																						0.20	1.02
1321005177 Dup																						0.20	1.05
1229075001 Orig	184	1.51	< 10	< 1	0.21	16	0.50	0.307	0.040	0.64	< 2	< 1	125	0.02	1	< 2	< 10	12	< 10	2	< 1		
1229075001 Dup	186	1.54	< 10	< 1	0.20	16	0.50	0.303	0.041	0.65	< 2	< 1	124	0.02	< 1	< 2	< 10	12	< 10	2	2		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1321005142 Orig																							
1321005142 Dup																							
1321001061 Orig																						0.18	3.11
1321001061 Dup																						0.18	3.13
GC20-0454-001 Orig	238	2.53	< 10	< 1	0.41	13	0.74	0.061	0.041	1.93	< 2	1	23	0.05	1	< 2	< 10	20	< 10	3	18		
GC20-0454-001 Dup	243	2.51	< 10	< 1	0.41	13	0.74	0.060	0.041	1.92	< 2	1	23	0.05	2	< 2	< 10	21	< 10	3	19		
1432004071 Orig																							
1432004071 Dup																							
1432004039 Orig																							
1432004039 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
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Method Blank																							

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
GXR-6 Meas	
GXR-6 Cert	
BaSO4 Meas	
BaSO4 Cert	
BaSO4 Meas	
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GS311-4 Meas	
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Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
GS311-4 Meas	
GS311-4 Cert	
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NBM-1 (slight fzz) Meas	
NBM-1 (slight fzz) Cert	
NBM-1 (slight fzz) Meas	
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OREAS 922 (AQUA REGIA) Meas	
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OREAS 922 (AQUA REGIA) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
OREAS 922 (AQUA REGIA) Meas	
OREAS 922 (AQUA REGIA) Cert	
OREAS 923 (AQUA REGIA) Meas	
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OREAS 923 (AQUA REGIA) Cert	
Oreas 96 (Aqua Regia) Meas	
Oreas 96 (Aqua Regia) Cert	
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Oreas 96 (Aqua Regia) Cert	
Oreas 621 (Aqua Regia) Meas	
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Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
Oreas 621 (Aqua Regia) Meas	
Oreas 621 (Aqua Regia) Cert	
OREAS 229b (Fire Assay) Meas	12.2
OREAS 229b (Fire Assay) Cert	11.9
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 45f (Aqua Regia) Meas	
OREAS 45f (Aqua Regia) Cert	
OREAS 238 (Fire Assay) Meas	
OREAS 238 (Fire Assay) Cert	
OREAS 238 (Fire Assay) Meas	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
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GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS316-3 Meas	
GS316-3 Cert	
GS316-3 Meas	
GS316-3 Cert	
OREAS 257b (Fire Assay) Meas	14.5
OREAS 257b (Fire Assay) Cert	14.2
Oreas E1336 (Fire Assay) Meas	
Oreas E1336 (Fire Assay) Cert	
Oreas E1336 (Fire Assay) Meas	
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GS317-5 Meas	
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GS317-5 Meas	
GS317-5 Cert	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
GS317-5 Meas	
GS317-5 Cert	
GS317-5 Meas	
GS317-5 Cert	
1325001054 Orig	
1325001054 Dup	
1321007068 Orig	
1321007068 Dup	
1328070076 Orig	
1328070076 Dup	
1325001701 Orig	43.3
1325001701 Dup	42.5
1321007018 Orig	
1321007018 Dup	
1229070261 Orig	
1229070261 Dup	
1432003065 Orig	
1432003065 Dup	
1322015341 Orig	
1322015341 Dup	
F002938 Orig	
F002938 Dup	
1321005187 Orig	
1321005187 Dup	
1321005030 Orig	
1321005030 Dup	
1432098140 Orig	
1432098140 Dup	
1322013393 Orig	
1322013393 Dup	
1432003185 Orig	
1432003185 Dup	
1322015083 Orig	
1322015083 Dup	
GC20-0467-001 Orig	
GC20-0467-001 Dup	
1331004285 Orig	
1331004285 Dup	
1331004155 Orig	
1331004155 Dup	
1331004241 Orig	
1331004241 Dup	
1331002287 Orig	
1331002287 Dup	
GC20-0514-001 Orig	
GC20-0514-001 Dup	
1229075077 Orig	

Analyte Symbol	Au
Unit Symbol	g/tonne
Lower Limit	0.02
Method Code	FA-GRA
1229075077 Dup	
1321005177 Orig	
1321005177 Dup	
1229075001 Orig	
1229075001 Dup	
1321005142 Orig	
1321005142 Dup	
1321001061 Orig	
1321001061 Dup	
GC20-0454-001 Orig	
GC20-0454-001 Dup	
1432004071 Orig	
1432004071 Dup	
1432004039 Orig	
1432004039 Dup	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	
Method Blank	< 0.02
Method Blank	
Method Blank	

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-16165**
Report Date:	**10-Feb-21**
Date Submitted:	**16-Dec-20**
Your Reference:	**2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

118 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-28 15:09:41
4F-C, S	Infrared	2021-01-08 21:46:28

REPORT **A20-16165**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-16165**
Report Date: **10-Feb-21**
Date Submitted: **16-Dec-20**
Your Reference: **2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

118 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-17 22:26:44
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-26 14:49:58

REPORT **A20-16165**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-1007-015							149	0.7	< 0.5	135	404	3	15	7	49	2.31	12	< 10	38	< 0.5	7	0.95	9
1322009005	30.7	28.3	-2.41	34.3	0.825	9.24	100	0.6	0.8	101	559	< 1	11	6	177	1.68	7	< 10	67	< 0.5	< 2	1.40	9
1322009022	54.9	8.24	-46.6	58.8	0.140	8.79	102	0.6	0.6	70	413	< 1	8	< 2	202	1.52	10	< 10	28	< 0.5	6	0.69	7
1322009050	33.1	12.0	-21.1	36.1	0.332	8.89	143	0.9	2.0	89	685	< 1	12	3	551	2.42	10	< 10	50	< 0.5	< 2	1.37	8
1229070131	46.3	26.3	-20.0	49.6	0.530	8.83	40	13.4	0.7	27	774	1	10	93	189	0.87	49	< 10	36	< 0.5	< 2	1.42	8
1322009502	57.0	14.9	-42.1	61.3	0.243	8.76	92	0.3	< 0.5	38	542	< 1	11	7	141	2.79	5	< 10	47	< 0.5	4	1.74	8
1229070053	44.7	31.6	-13.1	49.6	0.636	9.01	294	23.8	1.8	49	1200	< 1	13	318	524	0.76	239	< 10	47	< 0.5	< 2	1.38	8
1322011151	44.9	13.7	-31.2	48.1	0.286	8.83	103	1.8	< 0.5	45	459	1	13	4	61	1.69	25	< 10	37	< 0.5	6	1.28	9
1322011050	10.6	28.7	18.0	10.4	2.75	9.40	33	< 0.2	0.5	25	656	1	22	3	120	1.56	6	< 10	66	< 0.5	< 2	1.19	8
1322011149	17.9	22.2	4.29	21.7	1.02	9.05	516	1.8	< 0.5	413	647	< 1	13	7	117	1.72	11	< 10	49	< 0.5	5	1.43	7
1229070214	48.3	35.4	-12.9	53.9	0.657	8.85	92	1.0	< 0.5	19	453	< 1	16	11	57	1.05	48	< 10	40	< 0.5	2	1.41	8
1229070390	8.64	34.9	26.3	13.5	2.59	9.32	42	0.6	0.7	15	601	< 1	25	11	168	3.40	6	< 10	102	< 0.5	< 2	2.94	9
F002698							1060	3.0	< 0.5	31	262	< 1	9	16	43	1.23	< 2	< 10	44	< 0.5	< 2	0.82	10
1322007015	68.6	37.2	-31.4	74.4	0.500	8.66	269	0.5	2.2	63	648	< 1	24	7	597	1.87	7	< 10	28	< 0.5	3	1.39	9
GC20-0411-001							250	2.1	0.7	53	603	1	16	36	158	1.52	86	< 10	43	< 0.5	3	0.81	7
1322008109	31.2	11.9	-19.4	34.9	0.340	8.54	213	0.3	< 0.5	7	386	< 1	9	< 2	86	1.84	10	< 10	38	< 0.5	4	0.95	10
GC20-0918-025							33	0.3	< 0.5	16	473	< 1	10	2	104	2.51	11	< 10	34	< 0.5	6	1.21	8
1322004212	78.5	10.7	-67.8	85.1	0.126	8.61	118	0.6	< 0.5	44	412	< 1	19	6	149	2.70	7	< 10	41	< 0.5	4	0.86	11
GC20-0920-016							135	0.4	< 0.5	72	336	< 1	13	< 2	71	1.88	7	< 10	41	< 0.5	3	0.79	8
GC20-0920-017							180	0.4	< 0.5	27	511	< 1	11	2	123	2.23	19	< 10	30	< 0.5	4	0.49	7
1322009071	58.5	6.99	-51.5	61.6	0.114	8.39	204	0.6	0.6	35	622	< 1	15	< 2	180	2.90	12	< 10	54	< 0.5	2	1.57	9
1322009131	56.3	9.11	-47.2	60.3	0.151	8.73	3230	4.7	0.7	152	413	< 1	7	31	194	1.91	14	< 10	44	< 0.5	12	0.83	9
1322009113	39.9	9.50	-30.4	42.9	0.221	8.65	140	0.9	1.1	170	600	1	14	4	295	2.20	13	< 10	38	< 0.5	< 2	1.17	8
1322009093	50.6	12.2	-38.4	55.7	0.219	8.55	145	0.5	2.5	89	626	< 1	19	3	569	2.59	14	< 10	49	< 0.5	3	1.54	10
1322008040	10.6	8.12	-2.50	10.4	0.780	8.84	18	0.2	< 0.5	143	494	< 1	51	4	95	4.31	< 2	< 10	18	< 0.5	< 2	2.99	21
1322008174	33.8	28.2	-5.63	37.4	0.755	8.86	141	0.5	< 0.5	102	387	< 1	14	7	66	1.84	8	< 10	70	< 0.5	< 2	1.56	8
GC20-0904-022							321	0.8	4.6	68	994	< 1	17	6	1240	2.97	23	< 10	53	< 0.5	2	1.25	10
1322009272	61.4	8.24	-53.2	71.4	0.116	8.70	190	1.3	12.7	70	1080	1	23	166	2870	3.07	56	< 10	41	< 0.5	2	0.85	14
1322007125	50.0	13.7	-36.3	54.8	0.251	8.87	189	1.0	1.1	114	567	3	17	7	309	2.26	11	< 10	50	< 0.5	< 2	1.34	9
1322009156	15.0	42.8	27.8	14.7	2.91	9.20	32	< 0.2	< 0.5	26	544	< 1	9	8	92	1.06	< 2	< 10	161	< 0.5	< 2	1.91	6
GC20-0904-016							730	1.0	< 0.5	506	403	1	10	7	60	2.86	24	< 10	34	< 0.5	7	0.69	8
F002706							994	1.6	< 0.5	48	233	12	10	22	39	1.27	< 2	< 10	43	< 0.5	< 2	0.91	8
1229071051	59.9	58.5	-1.42	67.7	0.864	8.83	243	3.7	0.7	54	1700	1	26	40	211	1.44	98	< 10	37	< 0.5	< 2	2.40	11
1322007039	34.8	15.4	-19.3	38.0	0.407	8.78	116	0.4	2.4	93	602	3	10	3	630	2.21	8	< 10	59	< 0.5	< 2	1.60	9
GC20-0409-001							66	1.7	< 0.5	28	1220	< 1	11	46	143	0.82	98	< 10	35	< 0.5	< 2	3.60	6
1229071007	60.1	56.9	-3.24	66.8	0.852	9.00	118	1.8	< 0.5	31	1470	< 1	25	19	100	1.47	86	< 10	40	< 0.5	< 2	2.42	11
1229071054	64.6	52.7	-11.9	70.4	0.748	8.79	223	3.3	0.7	36	1220	< 1	21	47	154	1.55	68	< 10	32	< 0.5	< 2	2.29	11
1322007146	61.1	13.6	-47.5	64.9	0.210	8.71	134	0.6	< 0.5	76	461	3	17	3	78	1.28	10	< 10	47	< 0.5	< 2	0.73	10
1229071014	41.7	45.9	4.26	45.6	1.01	9.01	21	0.4	< 0.5	17	523	< 1	12	5	54	0.99	20	< 10	47	< 0.5	< 2	2.04	8
1322007026	65.0	8.48	-56.5	69.5	0.122	8.65	60	0.7	< 0.5	90	431	4	20	2	73	1.22	10	< 10	26	< 0.5	3	0.73	11
1322007098	49.0	15.3	-33.6	53.0	0.289	8.62	170	1.0	< 0.5	170	589	3	20	41	124	1.83	9	< 10	52	< 0.5	< 2	1.39	9
1229071149	24.4	23.2	-1.15	28.2	0.824	9.11	132	0.6	< 0.5	25	575	< 1	13	6	63	2.08	22	< 10	65	< 0.5	2	1.72	8
1229071131	0.625	24.8	24.2	0.613	40.6	9.74	< 5	< 0.2	< 0.5	5	245	< 1	17	< 2	47	1.12	2	< 10	96	< 0.5	< 2	1.26	9
1322007017	39.3	35.3	-3.92	43.8	0.807	8.91	365	0.3	< 0.5	125	481	2	18	< 2	92	1.32	5	< 10	47	< 0.5	< 2	1.52	7
1322005182	74.6	7.62	-67.0	79.9	0.0953	8.70	406	1.4	< 0.5	459	274	1	14	5	46	2.19	36	< 10	39	< 0.5	5	0.69	8
1322005061	62.1	7.00	-55.1	66.8	0.105	8.57	661	1.3	< 0.5	206	302	1	16	8	61	2.32	16	< 10	42	< 0.5	7	0.70	8
F002707							2050	4.1	< 0.5	24	210	16	7	20	37	1.22	< 2	< 10	41	< 0.5	< 2	0.81	6
GC20-0399-017							204	1.6	2.8	39	1300	< 1	17	183	705	2.08	103	< 10	43	< 0.5	< 2	1.48	9
GC20-0401-021							981	16.7	5.2	1340	564	< 1	20	190	1100	1.24	515	< 10	14	< 0.5	9	0.16	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0411-019							285	5.2	3.3	63	694	< 1	30	346	614	1.66	184	< 10	< 10	1.1	6	1.78	15
GC20-0305-016							33	0.4	0.5	18	400	< 1	14	4	219	1.76	8	< 10	28	< 0.5	4	0.91	8
GC20-0410-021							359	7.8	5.1	227	692	< 1	27	294	1050	1.43	180	< 10	< 10	< 0.5	3	1.08	13
GC20-0417-014							46	1.1	< 0.5	21	603	< 1	13	23	86	2.46	35	< 10	41	< 0.5	< 2	1.75	9
1229073252	65.2	23.2	-42.0	71.4	0.326	8.66	467	3.8	2.8	48	949	1	8	500	788	0.47	93	< 10	32	< 0.5	4	1.35	8
GC20-0339-017							72	1.6	< 0.5	11	1590	< 1	22	28	137	2.47	48	< 10	33	< 0.5	< 2	1.82	11
GC20-0407-003							163	1.1	< 0.5	11	1450	< 1	12	34	69	1.65	26	< 10	43	< 0.5	< 2	2.51	8
1322010018	66.8	12.5	-54.3	73.5	0.170	8.84	47	0.4	1.1	40	693	2	15	5	228	3.01	10	< 10	44	< 0.5	3	1.03	11
1322013475	39.6	18.1	-21.5	43.8	0.414	8.90	80	0.3	< 0.5	13	309	2	14	< 2	39	2.55	9	< 10	50	< 0.5	5	1.47	8
1229073034	20.5	28.7	8.18	23.3	1.23	8.84	115	0.6	< 0.5	16	639	< 1	14	16	180	2.02	22	< 10	45	< 0.5	< 2	1.85	8
GC20-0358-020							< 5	< 0.2	< 0.5	15	269	< 1	14	3	54	1.03	3	< 10	55	< 0.5	< 2	1.85	10
1322011185	14.1	24.4	10.3	13.8	1.77	9.31	50	0.3	< 0.5	47	545	< 1	14	3	90	1.51	7	< 10	66	< 0.5	2	1.14	8
1322013322	28.8	11.2	-17.5	28.2	0.398	8.90	32	0.6	< 0.5	131	284	6	15	< 2	64	2.99	4	< 10	59	< 0.5	< 2	1.77	8
1322013491	23.0	11.1	-11.9	26.0	0.426	9.06	62	< 0.2	< 0.5	27	304	< 1	15	< 2	107	2.96	9	< 10	60	< 0.5	3	1.09	9
1322010164	4.38	7.59	3.22	4.29	1.77	8.92	8	< 0.2	< 0.5	119	410	< 1	46	< 2	63	5.05	< 2	< 10	12	< 0.5	< 2	3.56	18
GC20-0402-014							636	1.8	4.1	170	866	< 1	11	21	893	1.59	181	< 10	21	< 0.5	3	0.35	7
GC20-0265-016							202	5.3	0.8	16	1920	< 1	20	45	226	1.77	55	< 10	25	< 0.5	2	2.67	10
GC20-0343-020							547	5.0	8.2	51	1100	< 1	20	322	1840	1.39	123	< 10	24	< 0.5	< 2	1.37	12
GC20-0419-017							52	0.9	0.6	13	962	< 1	9	25	171	0.57	38	< 10	23	< 0.5	< 2	2.26	7
GC20-0422-014							534	0.9	3.3	19	783	< 1	11	114	820	0.64	142	< 10	24	< 0.5	2	1.99	10
GC20-0293-015							249	2.2	7.0	121	929	< 1	15	145	1560	1.88	148	< 10	25	< 0.5	2	0.36	9
F002907							754	4.4	< 0.5	28	233	< 1	8	11	38	1.23	< 2	< 10	44	< 0.5	< 2	0.76	9
1328070019	59.7	28.9	-30.8	62.8	0.460	8.91	187	2.3	0.7	18	744	< 1	11	160	265	1.22	61	< 10	30	< 0.5	< 2	1.69	8
1328070021	51.6	39.8	-11.8	55.7	0.714	8.73	79	3.5	< 0.5	13	913	< 1	13	37	101	0.80	38	< 10	32	< 0.5	2	1.88	9
1328070185	21.9	53.8	31.9	27.0	2.00	9.98	50	2.2	0.6	18	1160	< 1	9	23	158	1.09	55	< 10	35	< 0.5	2	2.41	8
1328070017	39.5	22.9	-16.5	43.8	0.524	9.01	74	1.1	< 0.5	17	701	< 1	12	30	107	1.87	53	< 10	38	< 0.5	2	1.82	8
1321007054	22.5	9.59	-12.9	25.1	0.382	8.96	172	0.6	< 0.5	199	334	4	11	< 2	50	3.34	8	< 10	37	< 0.5	3	1.56	7
1330050353	11.3	31.1	19.8	11.0	2.82	9.24	12	< 0.2	< 0.5	11	394	< 1	9	< 2	73	1.19	< 2	< 10	39	< 0.5	< 2	1.55	7
1328070218	23.4	37.0	13.6	27.6	1.34	8.80	66	1.6	1.0	22	630	< 1	24	43	260	1.72	25	< 10	48	< 0.5	< 2	2.26	10
1321007164	29.4	10.1	-19.3	28.8	0.352	8.89	34	< 0.2	< 0.5	6	133	2	8	2	21	1.57	4	< 10	47	< 0.5	3	0.84	6
1330050167	16.9	47.3	30.5	16.5	2.86	9.22	21	0.3	0.6	9	753	< 1	32	< 2	134	2.61	6	< 10	59	< 0.5	< 2	2.43	11
1330050333	20.8	27.5	6.64	23.9	1.15	8.92	23	0.2	0.6	33	508	2	19	3	269	1.53	3	< 10	53	< 0.5	< 2	1.69	10
GC20-0648-001							131	0.3	< 0.5	53	289	2	12	< 2	52	2.15	8	< 10	40	< 0.5	4	0.85	10
1330050368	4.69	30.8	26.1	4.59	6.70	9.28	< 5	< 0.2	< 0.5	11	424	< 1	9	3	68	1.34	4	< 10	49	< 0.5	< 2	1.45	7
1330050361	10.3	37.0	26.7	10.1	3.66	9.11	13	< 0.2	< 0.5	14	392	< 1	12	< 2	88	1.24	< 2	< 10	36	< 0.5	< 2	1.58	9
1330050123	11.6	42.0	30.4	11.3	3.70	9.25	13	< 0.2	< 0.5	3	762	< 1	17	4	68	2.60	5	< 10	48	< 0.5	< 2	2.34	7
1330050130	11.3	43.1	31.8	11.0	3.91	9.21	27	< 0.2	< 0.5	6	813	< 1	17	3	89	2.64	9	11	50	< 0.5	3	2.43	8
1330050282	18.4	29.8	11.3	18.1	1.65	9.17	16	< 0.2	< 0.5	39	721	1	16	< 2	142	1.53	< 2	< 10	70	< 0.5	< 2	1.59	9
1330050211	18.7	46.8	28.0	21.7	2.15	8.99	24	0.3	< 0.5	9	933	< 1	22	< 2	147	2.32	7	14	65	< 0.5	< 2	2.52	13
1330050338	21.8	39.8	18.1	24.8	1.61	8.87	22	0.3	0.5	40	721	1	20	< 2	251	1.77	2	< 10	47	< 0.5	< 2	2.04	11
1325001033	13.3	55.0	41.6	16.2	3.39	9.02	106	0.2	< 0.5	21	419	< 1	11	45	116	1.67	57	< 10	54	< 0.5	2	2.29	9
1321007009	78.8	5.25	-73.6	84.2	0.0623	8.16	76	0.6	< 0.5	142	367	< 1	16	< 2	204	2.01	11	< 10	33	< 0.5	6	0.40	11
1330050289	11.3	47.5	36.1	14.4	3.30	8.89	8	< 0.2	0.7	16	707	< 1	23	< 2	211	1.94	7	< 10	60	< 0.5	< 2	2.17	11
1330050241	24.8	49.6	24.8	28.2	1.76	8.98	24	0.5	0.9	20	777	< 1	15	3	227	1.55	10	< 10	63	< 0.5	< 2	2.20	12
1321005201	55.1	11.6	-43.5	59.1	0.196	8.50	64	0.6	< 0.5	48	486	< 1	12	4	68	2.49	27	< 10	43	< 0.5	5	1.54	8
1322015251	26.0	19.7	-6.30	28.8	0.686	8.35	34	0.5	< 0.5	44	644	2	14	10	127	2.37	8	< 10	52	< 0.5	2	1.67	9
GC20-0375-014							366	8.1	4.7	152	404	1	28	52	1100	2.27	185	< 10	32	0.6	< 2	0.64	13
F002950							1050	3.0	< 0.5	32	264	< 1	9	17	43	1.33	< 2	< 10	41	< 0.5	< 2	0.89	10
GC20-0644-009							58	0.2	< 0.5	37	342	< 1	12	< 2	70	2.58	10	< 10	41	< 0.5	2	0.58	11

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0641-001							152	0.9	< 0.5	330	190	15	7	< 2	38	1.66	2	< 10	40	< 0.5	< 2	0.37	7

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-1007-015	284	3.18	< 10	2	0.27	13	1.04	0.123	0.040	2.21	< 2	< 1	62	0.03	1	< 2	< 10	12	< 10	2	15		
1322009005	203	2.15	< 10	< 1	0.44	32	0.99	0.101	0.058	1.10	< 2	1	138	0.03	< 1	< 2	< 10	13	< 10	4	12	0.39	1.12
1322009022	187	2.26	< 10	< 1	0.13	18	0.95	0.132	0.049	1.95	< 2	< 1	42	0.01	< 1	< 2	< 10	8	< 10	3	16	0.15	1.92
1322009050	165	2.28	< 10	< 1	0.41	13	1.19	0.218	0.041	1.14	< 2	1	154	0.06	1	< 2	< 10	16	< 10	3	13	0.17	1.18
1229070131	134	1.64	< 10	1	0.24	15	0.23	0.047	0.041	1.63	2	< 1	69	0.03	< 1	< 2	< 10	5	< 10	2	16	0.36	1.62
1322009502	176	2.31	< 10	< 1	0.27	14	1.02	0.160	0.041	2.05	< 2	< 1	122	< 0.01	1	< 2	< 10	9	< 10	2	16	0.23	2.00
1229070053	260	1.73	< 10	< 1	0.50	15	0.13	0.020	0.041	1.76	6	< 1	178	0.04	1	< 2	< 10	7	< 10	2	17	0.42	1.62
1322011151	155	1.96	< 10	< 1	0.25	15	0.77	0.136	0.043	1.56	< 2	< 1	60	0.03	1	< 2	< 10	11	< 10	2	16	0.24	1.57
1322011050	530	2.16	< 10	< 1	0.40	13	1.14	0.070	0.041	0.32	< 2	2	36	0.04	4	< 2	< 10	21	< 10	2	13	0.45	0.34
1322011149	153	2.20	< 10	< 1	0.27	11	0.96	0.106	0.038	0.71	< 2	2	49	0.07	< 1	< 2	< 10	18	< 10	2	14	0.37	0.71
1229070214	282	2.02	< 10	< 1	0.42	16	0.35	0.053	0.047	1.82	< 2	< 1	24	< 0.01	< 1	< 2	< 10	8	< 10	2	13	0.46	1.76
1229070390	399	2.56	< 10	< 1	0.51	18	0.95	0.380	0.053	0.40	< 2	2	199	0.10	< 1	< 2	< 10	34	< 10	3	11	0.60	0.44
F002698	14	2.07	< 10	< 1	0.20	14	0.39	0.230	0.038	0.03	< 2	2	37	0.34	3	< 2	< 10	56	< 10	17	21		
1322007015	317	3.52	< 10	2	0.14	18	0.94	0.157	0.048	2.38	3	2	55	< 0.01	< 1	< 2	< 10	20	< 10	4	18	0.39	2.43
GC20-0411-001	364	1.80	< 10	< 1	0.39	17	0.41	0.050	0.044	1.25	< 2	< 1	33	< 0.01	2	< 2	< 10	10	< 10	2	11		
1322008109	86	2.25	< 10	< 1	0.18	17	1.23	0.149	0.053	1.60	< 2	1	61	< 0.01	1	< 2	< 10	15	< 10	3	18	0.18	1.14
GC20-0918-025	89	2.08	< 10	< 1	0.19	13	1.25	0.237	0.040	0.94	< 2	< 1	100	< 0.01	< 1	< 2	< 10	12	< 10	2	10		
1322004212	254	3.30	< 10	2	0.33	21	1.27	0.103	0.060	2.68	< 2	2	78	0.01	< 1	< 2	< 10	21	< 10	3	20	0.21	2.78
GC20-0920-016	245	3.00	< 10	< 1	0.26	13	1.19	0.070	0.043	1.88	< 2	1	30	< 0.01	2	< 2	< 10	11	< 10	3	17		
GC20-0920-017	100	3.75	< 10	1	0.17	13	1.72	0.067	0.038	1.96	< 2	< 1	27	< 0.01	1	< 2	< 10	11	< 10	2	16		
1322009071	263	2.82	< 10	1	0.35	14	1.17	0.234	0.043	1.67	< 2	1	93	0.03	< 1	< 2	< 10	19	< 10	3	14	0.11	2.01
1322009131	175	2.39	< 10	< 1	0.33	17	0.88	0.147	0.048	1.96	< 2	< 1	53	< 0.01	9	< 2	< 10	8	< 10	3	16	0.16	1.97
1322009113	117	2.38	< 10	< 1	0.18	12	1.02	0.185	0.040	1.42	< 2	1	78	0.02	< 1	< 2	< 10	13	< 10	3	16	0.16	1.40
1322009093	317	2.99	< 10	1	0.25	13	1.07	0.193	0.041	1.79	< 2	1	80	0.02	2	< 2	< 10	15	< 10	3	15	0.34	1.82
1322008040	144	4.37	< 10	< 1	0.05	< 10	1.73	0.397	0.024	0.27	< 2	4	69	0.18	1	< 2	< 10	108	< 10	3	5	0.20	0.34
1322008174	298	2.27	< 10	< 1	0.24	32	0.78	0.129	0.060	1.24	< 2	1	105	0.01	1	< 2	< 10	13	< 10	3	9	0.39	1.22
GC20-0904-022	156	3.36	< 10	< 1	0.27	13	1.53	0.163	0.046	1.64	< 2	1	66	0.03	< 1	< 2	< 10	22	< 10	3	16		
1322009272	174	4.31	< 10	1	0.41	13	1.86	0.091	0.052	2.29	2	3	40	0.06	< 1	< 2	< 10	44	< 10	5	17	0.17	2.33
1322007125	352	2.53	< 10	< 1	0.33	12	0.74	0.261	0.041	1.83	2	1	106	0.02	3	< 2	< 10	17	< 10	2	16	0.20	1.79
1322009156	231	1.55	< 10	< 1	0.33	52	0.42	0.066	0.072	0.45	< 2	< 1	127	< 0.01	< 1	< 2	< 10	7	< 10	5	2	0.62	0.48
GC20-0904-016	124	3.44	< 10	< 1	0.38	14	1.06	0.155	0.038	2.64	< 2	1	74	0.02	< 1	< 2	< 10	15	< 10	2	20		
F002706	14	1.84	< 10	< 1	0.25	14	0.43	0.214	0.049	0.05	< 2	3	35	0.26	2	< 2	< 10	60	< 10	19	17		
1229071051	343	2.62	< 10	< 1	0.41	18	1.03	0.077	0.058	2.28	2	1	34	< 0.01	< 1	< 2	< 10	14	< 10	3	14	0.90	2.21
1322007039	106	2.13	< 10	< 1	0.22	12	0.78	0.268	0.041	1.25	< 2	1	148	0.05	< 1	< 2	< 10	19	< 10	3	12	0.16	1.24
GC20-0409-001	152	1.20	< 10	< 1	0.32	15	0.40	0.027	0.043	1.12	< 2	< 1	34	< 0.01	< 1	< 2	< 10	5	< 10	2	6		
1229071007	224	2.68	< 10	< 1	0.42	21	1.10	0.079	0.059	2.20	2	2	32	0.03	< 1	< 2	< 10	19	< 10	3	18	0.72	2.18
1229071054	103	2.35	< 10	< 1	0.34	21	1.14	0.103	0.060	2.31	< 2	1	47	0.01	< 1	< 2	< 10	14	< 10	3	15	0.67	2.30
1322007146	355	2.80	< 10	< 1	0.30	14	0.75	0.106	0.042	2.13	< 2	1	44	0.05	2	< 2	< 10	19	< 10	3	21	0.20	2.12
1229071014	264	1.96	< 10	< 1	0.24	14	0.56	0.060	0.044	1.55	< 2	1	23	< 0.01	1	< 2	< 10	11	< 10	3	12	0.57	1.49
1322007026	492	2.89	< 10	< 1	0.27	13	0.74	0.092	0.042	2.20	< 2	1	30	0.03	1	< 2	< 10	20	< 10	3	21	0.21	2.27
1322007098	470	2.70	< 10	< 1	0.24	13	0.72	0.173	0.041	1.74	< 2	1	93	0.05	2	< 2	< 10	19	< 10	3	15	0.31	1.73
1229071149	277	1.94	< 10	< 1	0.32	12	0.68	0.224	0.039	0.98	< 2	1	85	0.03	< 1	< 2	< 10	17	< 10	2	10	0.29	0.92
1229071131	445	1.96	< 10	< 1	0.48	18	0.58	0.085	0.043	0.03	< 2	2	55	0.11	< 1	< 2	< 10	25	11	3	13	0.34	0.02
1322007017	470	2.48	< 10	< 1	0.13	11	0.70	0.111	0.033	1.43	2	1	38	< 0.01	< 1	< 2	< 10	12	< 10	2	13	0.49	1.43
1322005182	233	3.48	< 10	2	0.32	14	1.01	0.140	0.044	2.54	< 2	< 1	70	< 0.01	< 1	< 2	< 10	12	< 10	2	20	0.16	2.61
1322005061	306	3.53	< 10	1	0.28	16	1.24	0.143	0.044	2.13	2	1	78	0.01	< 1	< 2	< 10	13	< 10	3	19	0.21	2.18
F002707	13	1.50	< 10	< 1	0.22	18	0.35	0.217	0.041	0.04	< 2	2	38	0.23	3	< 2	< 10	40	< 10	17	16		
GC20-0399-017	256	2.40	< 10	< 1	0.64	15	1.23	0.071	0.045	2.10	< 2	1	27	0.03	2	< 2	< 10	16	< 10	2	16		
GC20-0401-021	224	5.57	< 10	2	0.38	14	0.65	0.033	0.044	6.47	9	< 1	8	< 0.01	< 1	< 2	< 10	10	< 10	2	11		
GC20-0411-019	232	5.75	< 10	2	0.94	38	1.27	0.046	0.186	5.12	3	5	245	0.12	< 1	< 2	< 10	46	< 10	13	28		
GC20-0305-016	127	2.37	< 10	< 1	0.14	10	0.72	0.205	0.036	1.71	< 2	1	87	< 0.01	< 1	< 2	< 10	14	12	2	18		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0410-021	150	5.12	< 10	< 1	0.50	32	1.07	0.026	0.127	5.41	7	3	52	0.05	< 1	< 2	< 10	26	< 10	7	27		
GC20-0417-014	124	2.08	< 10	< 1	0.26	19	0.81	0.113	0.051	0.91	< 2	1	82	0.02	< 1	< 2	< 10	13	< 10	2	7		
1229073252	109	2.05	< 10	< 1	0.29	14	0.32	0.016	0.041	2.45	3	< 1	57	< 0.01	< 1	< 2	< 10	4	< 10	2	12	0.61	2.33
GC20-0339-017	81	2.82	< 10	< 1	0.37	18	1.57	0.207	0.052	1.78	< 2	2	51	0.07	< 1	< 2	< 10	27	< 10	3	17		
GC20-0407-003	202	1.59	< 10	< 1	0.35	14	0.34	0.088	0.042	1.23	< 2	< 1	43	< 0.01	1	< 2	< 10	6	< 10	2	8		
1322010018	256	2.88	< 10	1	0.37	17	1.92	0.176	0.046	2.41	< 2	1	67	0.01	< 1	< 2	< 10	15	< 10	3	18	0.22	2.40
1322013475	307	2.46	< 10	< 1	0.20	15	1.19	0.278	0.049	1.45	< 2	1	216	< 0.01	2	< 2	< 10	20	< 10	3	13	0.22	1.43
1229073034	164	2.06	< 10	< 1	0.29	13	0.83	0.137	0.040	0.81	< 2	1	63	0.06	1	< 2	< 10	19	< 10	2	9	0.37	0.76
GC20-0358-020	278	2.03	< 10	< 1	0.23	17	0.63	0.055	0.045	0.06	< 2	1	35	0.05	< 1	< 2	< 10	16	< 10	2	6		
1322011185	219	2.08	< 10	< 1	0.47	13	1.12	0.066	0.040	0.43	< 2	2	32	0.06	< 1	< 2	< 10	22	< 10	2	14	0.34	0.45
1322013322	223	1.99	< 10	< 1	0.34	11	1.20	0.368	0.036	0.98	< 2	< 1	296	0.03	< 1	< 2	< 10	15	< 10	2	16	0.22	0.92
1322013491	253	2.48	< 10	1	0.33	12	1.69	0.179	0.038	0.88	< 2	< 1	86	< 0.01	< 1	< 2	< 10	13	< 10	2	11	0.21	0.85
1322010164	161	4.17	< 10	< 1	0.04	< 10	1.43	0.632	0.023	0.13	< 2	4	72	0.18	1	< 2	< 10	120	< 10	3	3	0.11	0.14
GC20-0402-014	116	4.12	< 10	2	0.26	12	1.37	0.025	0.038	3.56	2	< 1	7	< 0.01	1	< 2	< 10	10	< 10	2	13		
GC20-0265-016	91	2.35	< 10	< 1	0.35	18	1.33	0.072	0.051	1.65	< 2	< 1	32	< 0.01	1	< 2	< 10	10	< 10	3	10		
GC20-0343-020	125	2.97	< 10	< 1	0.38	22	0.81	0.042	0.059	3.22	5	< 1	26	0.02	< 1	< 2	< 10	11	< 10	3	25		
GC20-0419-017	91	0.98	< 10	< 1	0.27	16	0.21	0.022	0.044	0.98	< 2	< 1	23	< 0.01	2	< 2	< 10	3	< 10	2	5		
GC20-0422-014	134	1.63	< 10	< 1	0.24	13	0.22	0.023	0.044	1.75	< 2	< 1	23	< 0.01	1	< 2	< 10	3	< 10	2	7		
GC20-0293-015	157	4.16	< 10	1	0.38	14	1.41	0.030	0.046	3.61	3	< 1	9	< 0.01	< 1	< 2	< 10	12	< 10	2	17		
F002907	12	1.99	< 10	< 1	0.26	12	0.41	0.246	0.037	0.03	< 2	2	35	0.31	4	< 2	< 10	50	< 10	17	19		
1328070019	162	2.06	< 10	< 1	0.31	16	0.23	0.122	0.042	2.14	3	< 1	48	0.02	< 1	< 2	< 10	5	< 10	2	15	0.47	2.05
1328070021	142	1.71	< 10	< 1	0.33	17	0.17	0.052	0.043	1.87	< 2	< 1	49	0.04	< 1	< 2	< 10	4	< 10	2	14	0.59	1.82
1328070185	135	1.42	< 10	< 1	0.39	16	0.33	0.050	0.044	0.98	< 2	< 1	38	0.03	< 1	< 2	< 10	7	< 10	2	7	0.69	0.88
1328070017	228	1.94	< 10	< 1	0.31	15	0.40	0.210	0.044	1.49	< 2	< 1	89	0.02	< 1	< 2	< 10	8	< 10	2	11	0.42	1.43
1321007054	142	2.71	< 10	2	0.19	10	1.24	0.204	0.036	0.84	< 2	< 1	145	< 0.01	< 1	< 2	< 10	14	< 10	2	9	0.16	0.82
1330050353	157	1.66	< 10	< 1	0.24	18	0.61	0.047	0.048	0.36	< 2	1	50	0.03	< 1	< 2	< 10	14	< 10	2	6	0.37	0.36
1328070218	287	1.31	< 10	< 1	0.33	17	0.28	0.228	0.042	0.93	2	1	131	0.03	2	< 2	< 10	10	< 10	2	6	0.65	0.90
1321007164	88	1.40	< 10	< 1	0.30	< 10	0.55	0.123	0.036	1.02	< 2	< 1	66	< 0.01	2	< 2	< 10	8	< 10	2	14	0.18	0.94
1330050167	92	2.43	< 10	< 1	0.43	20	1.43	0.217	0.057	0.50	< 2	2	98	0.04	< 1	< 2	< 10	27	< 10	3	7	0.60	0.54
1330050333	199	2.16	< 10	< 1	0.25	21	0.90	0.060	0.054	0.82	< 2	2	60	0.03	< 1	< 2	< 10	21	< 10	3	7	0.44	0.78
GC20-0648-001	149	2.25	< 10	< 1	0.22	11	1.21	0.128	0.040	1.21	< 2	< 1	62	0.01	1	< 2	< 10	11	< 10	2	16		
1330050368	142	1.91	< 10	< 1	0.24	17	0.63	0.053	0.051	0.15	< 2	1	27	0.05	1	< 2	< 10	18	< 10	2	7	0.36	0.15
1330050361	133	1.74	< 10	< 1	0.22	17	0.69	0.036	0.047	0.34	< 2	1	36	0.02	3	< 2	< 10	13	< 10	2	7	0.41	0.33
1330050123	102	2.18	< 10	< 1	0.32	17	1.28	0.197	0.051	0.36	< 2	1	68	0.05	< 1	< 2	< 10	22	< 10	3	7	0.55	0.37
1330050130	102	2.28	< 10	< 1	0.29	16	1.35	0.192	0.048	0.39	< 2	1	79	0.03	< 1	< 2	< 10	21	< 10	3	6	0.56	0.36
1330050282	155	2.00	< 10	< 1	0.29	16	0.87	0.065	0.050	0.59	< 2	2	56	0.07	< 1	< 2	< 10	22	< 10	3	11	0.38	0.59
1330050211	159	2.86	< 10	< 1	0.29	21	1.29	0.106	0.069	0.72	< 2	3	85	0.07	2	< 2	< 10	39	< 10	3	7	0.60	0.71
1330050338	151	2.72	< 10	< 1	0.29	21	1.01	0.053	0.062	0.80	< 2	2	79	0.08	< 1	< 2	< 10	33	< 10	4	8	0.50	0.81
1325001033	99	1.91	< 10	< 1	0.25	12	0.98	0.095	0.039	0.55	< 2	< 1	55	< 0.01	1	< 2	< 10	9	< 10	2	5	0.69	0.53
1321007009	140	3.65	< 10	2	0.26	16	1.52	0.060	0.045	2.79	< 2	< 1	26	0.02	1	3	< 10	13	< 10	4	22	0.14	2.75
1330050289	105	2.41	< 10	< 1	0.31	14	1.09	0.092	0.046	0.44	< 2	2	54	0.05	< 1	< 2	< 10	30	< 10	3	9	0.55	0.47
1330050241	96	2.78	< 10	< 1	0.35	24	1.03	0.058	0.057	1.01	< 2	2	32	0.08	< 1	< 2	< 10	27	< 10	5	14	0.60	0.92
1321005201	129	2.56	< 10	< 1	0.37	14	1.02	0.193	0.042	1.92	< 2	1	80	0.04	< 1	< 2	< 10	13	< 10	2	17	0.21	1.93
1322015251	233	2.20	< 10	< 1	0.24	13	0.85	0.265	0.045	1.04	< 2	1	164	0.03	< 1	< 2	< 10	20	< 10	2	9	0.28	0.94
GC20-0375-014	217	3.15	< 10	2	0.36	17	0.47	0.071	0.050	2.13	3	< 1	48	< 0.01	< 1	2	< 10	11	< 10	1	9		
F002950	14	2.14	< 10	< 1	0.21	14	0.40	0.253	0.039	0.03	< 2	2	40	0.34	3	2	< 10	56	< 10	17	20		
GC20-0644-009	90	2.88	< 10	2	0.24	12	1.24	0.129	0.047	1.35	2	1	72	< 0.01	< 1	< 2	< 10	15	< 10	2	13		
GC20-0641-001	142	1.38	< 10	< 1	0.14	14	0.51	0.174	0.038	0.67	< 2	1	102	< 0.01	< 1	< 2	< 10	11	< 10	3	11		

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	66	1030	1	26	88	125	6.61	212	< 10	784	0.8	2	0.15	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	73	1000	< 1	25	97	126	6.49	201	< 10	785	0.7	< 2	0.13	12
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	< 0.5	72	1040	< 1	22	92	115	7.18	206	< 10	919	0.9	< 2	0.15	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.3	0.6	67	1040	< 1	22	95	120	7.13	200	< 10	825	0.8	< 2	0.16	13
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas										66				88	125								
GXR-6 Cert										66.0				101	118								
BaSO4 Meas																							
BaSO4 Cert																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
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GS311-4 Meas																							
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.7				8.45																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.7				8.32																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						8.11																	
NBM-1 (slight fzz) Cert						8.53																	
NBM-1 (slight fzz) Meas						8.36																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.2	< 0.5	2270	770	< 1	38	58	259	2.79	6		84	0.7	10	0.45	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2270	749	< 1	35	61	264	2.69	5		71	0.7	6	0.40	18
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.9	< 0.5	2310	767	< 1	32	60	253	2.97	6		78	0.7	6	0.39	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.7	< 0.5	2220	785	< 1	32	58	251	3.05	7		80	0.6	10	0.41	19

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas										2270				58	259								
OREAS 922 (AQUA REGIA) Cert										2176				60	256								
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4380	864	< 1	34	77	337	2.78	7		67	0.6	22	0.45	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.8	< 0.5	4560	875	< 1	36	80	344	2.82	8		53	0.6	21	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								2.1	< 0.5	4560	880	< 1	30	81	330	2.99	5		37	0.6	15	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4440	883	< 1	31	82	330	3.02	7		64	0.6	15	0.41	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas										4380				77	337								
OREAS 923 (AQUA REGIA) Cert										4248				81	335								
Oreas 96 (Aqua Regia) Meas								11.8		> 10000				89	430						52		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.3		> 10000				85	395						50		44
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								68.5	300	3840	534	14	27	> 5000	> 10000	1.69	75			0.6	5	1.77	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.5	294	3580	528	13	24	> 5000	> 10000	1.67	76			0.6	3	1.70	28
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								69.2	293	3620	542	13	25	> 5000	> 10000	1.87	78			0.5	2	1.60	30
Oreas 621 (Aqua								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								65.5	276	3720	557	12	27	> 5000	> 10000	1.89	72			0.5	< 2	1.69	29
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas										3840				> 5000	> 10000								
Oreas 621 (Aqua Regia) Cert										3660				13600	51700								
OREAS 45f (Aqua Regia) Meas										346	158	< 1	221	7	29	7.13			152	1.0	< 2	0.07	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										329	176	< 1	222	9	26	7.69			146	1.0	< 2	0.08	40
OREAS 45f (Aqua Regia) Cert										336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2
OREAS 45f (Aqua Regia) Meas										346				7	29								
OREAS 45f (Aqua Regia) Cert										336				12.4	22.2								
OREAS 238 (Fire Assay) Meas							3170																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3150																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3130																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
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GS316-3 Cert																							
GS316-3 Meas																							
GS316-3 Cert																							
Oreas E1336 (Fire Assay) Meas							512																
Oreas E1336 (Fire Assay) Cert							510																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							513																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							514																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
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GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
1322011151 Orig								1.7	< 0.5	45	457	1	13	4	63	1.67	26	< 10	37	< 0.5	6	1.28	9
1322011151 Dup								1.9	< 0.5	44	462	1	13	5	60	1.71	24	< 10	38	< 0.5	7	1.27	10
1322011050 Orig							31																
1322011050 Dup							34																
GC20-0920-016 Orig							127																
GC20-0920-016 Dup							143																
1322009131 Orig								4.6	0.7	151	409	< 1	7	30	191	1.88	14	< 10	43	< 0.5	12	0.81	8
1322009131 Dup								4.8	0.7	153	416	< 1	8	32	197	1.93	15	< 10	45	< 0.5	12	0.84	9
1322009113 Orig							143																
1322009113 Dup							137																
GC20-0409-001 Orig								1.8	0.5	28	1220	< 1	11	47	148	0.85	104	< 10	35	< 0.5	< 2	3.61	6
GC20-0409-001 Dup								1.6	< 0.5	28	1220	< 1	10	45	138	0.80	92	< 10	34	< 0.5	3	3.58	6
1322007146 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322007146 Dup																							
1322007017 Orig							310																
1322007017 Dup							420																
GC20-0401-021 Orig								17.9	5.2	1350	569	< 1	20	190	1100	1.25	518	< 10	16	< 0.5	9	0.16	10
GC20-0401-021 Dup								15.5	5.2	1330	559	< 1	21	190	1110	1.23	511	< 10	12	< 0.5	10	0.16	10
1229073252 Orig							475																
1229073252 Dup							458																
1322010018 Orig	66.8	12.5	-54.3	73.5	0.170																		
1322010018 Dup	66.8	12.5	-54.3	73.5	0.170																		
1322013475 Orig							80																
1322013475 Dup							80																
1328070019 Orig								2.3	0.8	19	744	< 1	11	163	267	1.23	56	< 10	31	< 0.5	< 2	1.69	8
1328070019 Dup								2.4	0.7	17	745	< 1	11	157	262	1.21	65	< 10	28	< 0.5	< 2	1.69	8
1321007054 Orig																							
1321007054 Dup																							
1321007164 Orig							35																
1321007164 Dup							32																
1330050130 Orig								< 0.2	< 0.5	6	812	< 1	16	2	89	2.64	7	11	51	< 0.5	3	2.44	8
1330050130 Dup								0.2	< 0.5	5	813	< 1	17	3	89	2.63	11	10	50	< 0.5	2	2.42	7
1330050282 Orig																							
1330050282 Dup																							
1330050338 Orig							22																
1330050338 Dup							22																
1330050241 Orig							24																
1330050241 Dup							24																
1321005201 Orig	55.1	11.6	-43.5	59.1	0.196																		
1321005201 Dup	55.1	11.6	-43.5	59.1	0.197																		
1322015251 Orig						8.35																	
1322015251 Dup						8.35																	
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	79	5.95	20	3	1.17	< 10	0.39	0.134	0.036	0.01	3	17	31		< 1	< 2	< 10	177	< 10	4	8		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.85	20	2	1.14	< 10	0.38	0.125	0.033	0.01	3	17	29		< 1	< 2	< 10	168	< 10	4	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.37	20	< 1	1.14	12	0.39	0.080	0.033	0.01	5	23	35		< 1	< 2	< 10	170	< 10	7	9		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	71	5.40	10	< 1	1.13	10	0.40	0.079	0.035	0.01	4	21	32		< 1	< 2	< 10	158	< 10	6	10		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas																							
GXR-6 Cert																							
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							14.3
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
BaSO4 Meas																							14.1
BaSO4 Cert																							14.0
GS311-4 Meas																						1.10	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.57
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.06	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	47	5.28	< 10		0.53	37	1.26	0.032	0.068	0.36	3	4	17			< 2	< 10	39	< 10	23	18		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	5.25	< 10		0.47	35	1.25	0.028	0.065	0.35	2	3	16			< 2	< 10	37	< 10	18	13		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.03	< 10		0.48	38	1.29	0.025	0.062	0.36	< 2	4	16			< 2	< 10	36	< 10	20	17		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	41	5.17	< 10		0.50	36	1.38	0.027	0.066	0.37	3	3	14			< 2	< 10	34	< 10	19	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	43	6.15	< 10		0.45	34	1.35		0.065	0.64	< 2	4	15			< 2	< 10	38	< 10	20	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	42	6.14	< 10		0.42	33	1.36		0.062	0.64	3	4	15			< 2	< 10	37	< 10	17	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.75	< 10		0.41	35	1.40		0.059	0.66	3	4	14			< 2	< 10	36	< 10	18	28		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	38	5.80	< 10		0.42	33	1.49		0.062	0.68	3	3	13			< 2	< 10	33	< 10	17	10		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas										3.92	8												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.80	6												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	31	3.31	10	6	0.39	19	0.41	0.176	0.036	4.59	112	2	19			< 2	< 10	14	< 10	8	69		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	28	3.37	10	5	0.38	19	0.41	0.177	0.033	4.64	92	2	19			< 2	< 10	13	< 10	8	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.42	< 10	4	0.39	21	0.44	0.182	0.033	4.57	103	2	18			< 2	< 10	14	< 10	8	53		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.57	< 10	4	0.38	19	0.47	0.187	0.037	4.86	108	2	16			< 2	< 10	13	< 10	7	64		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Cert																							
OREAS 45f (Aqua Regia) Meas	345	12.9	20	< 1	0.10	12	0.17	0.040	0.020	0.02		31	15	0.07		< 2	< 10	200		6	10		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas	329	13.5	20	< 1	0.11	12	0.19	0.042	0.023	0.02		29	14	0.13		< 2	< 10	203		6	22		
OREAS 45f (Aqua Regia) Cert	341	13.7	20.3	0.0310	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970		0.120	1.09	217		6.74	30.0		
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.35
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.08	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.56	14.9

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.13	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.06	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.21	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.41	15.4
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	15.1
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.12	15.3
GS317-5 Cert																						8.46	15.5
1322011151 Orig	155	1.95	< 10	< 1	0.25	15	0.76	0.134	0.043	1.53	< 2	< 1	60	0.03	1	< 2	< 10	11	< 10	2	16	0.24	1.59
1322011151 Dup	155	1.98	< 10	< 1	0.25	15	0.77	0.139	0.044	1.59	< 2	< 1	60	0.03	1	< 2	< 10	11	< 10	2	16	0.24	1.56
1322011050 Orig																							
1322011050 Dup																							
GC20-0920-016 Orig																							
GC20-0920-016 Dup																							
1322009131 Orig	174	2.38	< 10	< 1	0.32	16	0.87	0.144	0.047	1.96	< 2	< 1	52	< 0.01	10	< 2	< 10	8	< 10	3	16		
1322009131 Dup	177	2.40	< 10	< 1	0.33	17	0.89	0.149	0.048	1.97	< 2	< 1	54	< 0.01	9	< 2	< 10	8	< 10	3	16		
1322009113 Orig																						0.16	1.43
1322009113 Dup																						0.17	1.38
GC20-0409-001 Orig	152	1.21	< 10	< 1	0.33	14	0.41	0.028	0.043	1.12	< 2	< 1	34	< 0.01	< 1	< 2	< 10	5	< 10	2	6		
GC20-0409-001 Dup	151	1.20	< 10	< 1	0.31	15	0.40	0.026	0.043	1.12	< 2	< 1	34	< 0.01	< 1	< 2	< 10	5	< 10	2	7		
1322007146 Orig																						0.20	2.12
1322007146 Dup																						0.20	2.13
1322007017 Orig																							
1322007017 Dup																							
GC20-0401-021 Orig	226	5.58	< 10	2	0.39	14	0.66	0.033	0.044	6.50	9	< 1	8	< 0.01	1	< 2	< 10	10	< 10	2	11		
GC20-0401-021 Dup	222	5.55	< 10	2	0.38	14	0.65	0.033	0.044	6.45	9	< 1	8	< 0.01	< 1	< 2	< 10	10	< 10	2	11		
1229073252 Orig																							
1229073252 Dup																							
1322010018 Orig																						0.22	2.40
1322010018 Dup																						0.22	2.41
1322013475 Orig																							
1322013475 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1328070019 Orig	161	2.06	< 10	< 1	0.32	17	0.23	0.123	0.042	2.15	3	< 1	49	0.02	< 1	< 2	< 10	5	< 10	2	15		
1328070019 Dup	163	2.06	< 10	< 1	0.31	16	0.23	0.120	0.042	2.13	3	< 1	48	0.02	< 1	< 2	< 10	5	< 10	2	15		
1321007054 Orig																						0.16	0.82
1321007054 Dup																						0.16	0.82
1321007164 Orig																							
1321007164 Dup																							
1330050130 Orig	101	2.26	< 10	< 1	0.29	16	1.36	0.192	0.047	0.39	< 2	1	80	0.03	< 1	< 2	< 10	21	< 10	3	7		
1330050130 Dup	102	2.29	< 10	< 1	0.29	15	1.35	0.192	0.048	0.39	< 2	1	79	0.03	< 1	< 2	< 10	20	< 10	3	6		
1330050282 Orig																						0.38	0.59
1330050282 Dup																						0.39	0.59
1330050338 Orig																							
1330050338 Dup																							
1330050241 Orig																							
1330050241 Dup																							
1321005201 Orig																							
1321005201 Dup																							
1322015251 Orig																						0.28	0.94
1322015251 Dup																						0.28	0.94
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-16166**
Report Date:	**18-Feb-21**
Date Submitted:	**16-Dec-20**
Your Reference:	**2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2020-12-28 21:29:53
4F-C, S	Infrared	2020-12-28 21:29:20

REPORT **A20-16166**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-16166**
Report Date: **18-Feb-21**
Date Submitted: **16-Dec-20**
Your Reference: **2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

141 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-15 20:30:46
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-29 11:00:48

REPORT **A20-16166**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322005246	49.8	6.96	-42.8	56.0	0.124	8.52	484	3.7	0.5	732	201	< 1	10	6	141	0.94	11	< 10	21	< 0.5	24	0.33	3
1229068166	56.2	31.8	-24.4	77.8	0.409	8.55	2390	5.1	44.2	124	827	2	16	262	> 10000	0.71	196	< 10	< 10	< 0.5	< 2	1.31	8
1322005072	3.44	7.06	3.62	3.37	2.10	9.01	8	< 0.2	< 0.5	140	403	< 1	53	< 2	46	5.66	< 2	< 10	13	< 0.5	< 2	3.76	21
GC20-1013-016							1490	2.0	< 0.5	665	477	2	13	6	56	2.68	14	< 10	14	< 0.5	9	1.34	9
GC20-0356-005							454	3.6	10.6	57	690	< 1	10	72	2520	0.81	102	< 10	16	< 0.5	< 2	1.22	7
1322003192	62.3	25.2	-37.1	70.4	0.358	8.90	102	0.7	3.8	98	623	2	14	7	911	2.57	13	< 10	17	< 0.5	3	1.42	10
GC20-0352-001							12	0.4	< 0.5	18	272	< 1	14	11	101	2.19	10	< 10	35	< 0.5	2	0.92	8
GC20-0359-006							6	< 0.2	< 0.5	5	142	< 1	12	3	30	2.99	10	< 10	59	0.5	< 2	0.71	7
GC20-0358-008							210	20.7	< 0.5	38	1450	1	12	65	174	0.84	90	< 10	27	< 0.5	< 2	2.50	7
1229068085	25.7	54.5	28.8	30.6	1.78	8.89	69	0.8	0.7	39	822	< 1	19	24	195	1.58	70	< 10	39	< 0.5	2	2.71	13
1229068044	24.0	16.5	-7.50	27.6	0.597	8.62	25	0.2	1.4	49	437	< 1	28	9	302	2.49	15	< 10	41	< 0.5	< 2	1.75	14
GC20-1011-024							65	< 0.2	< 0.5	12	710	< 1	11	2	95	1.66	12	< 10	50	< 0.5	< 2	1.00	9
GC20-0941-020							313	1.1	10.1	24	601	< 1	17	16	2350	0.89	116	< 10	22	< 0.5	< 2	1.02	12
GC20-0943-025							636	1.6	13.0	28	638	< 1	15	23	2980	1.13	134	< 10	21	< 0.5	< 2	1.01	12
GC20-0357-001							588	8.1	8.2	61	825	1	12	485	2160	0.58	132	< 10	15	< 0.5	< 2	1.31	10
GC20-0387-006							6	< 0.2	< 0.5	123	420	< 1	45	< 2	50	5.64	< 2	< 10	13	< 0.5	< 2	3.72	21
GC20-0396-001							237	1.0	0.7	29	1730	< 1	13	37	194	1.07	45	< 10	31	< 0.5	< 2	2.78	7
GC20-0397-006							161	2.0	< 0.5	15	1330	< 1	26	21	92	2.32	73	< 10	22	< 0.5	2	2.24	12
1229071146	31.9	22.8	-9.06	37.1	0.615	9.07	19	0.8	< 0.5	38	661	< 1	13	9	114	2.83	12	< 10	28	< 0.5	< 2	1.84	10
F002439							1050	3.0	< 0.5	32	261	1	9	19	45	1.36	< 2	< 10	45	< 0.5	< 2	0.84	10
1432090045	22.5	31.6	9.09	27.3	1.16	8.84	17	0.2	< 0.5	40	637	< 1	73	3	225	4.72	7	< 10	56	< 0.5	< 2	3.38	18
1432090110	64.6	28.7	-35.9	72.9	0.393	8.46	43	0.8	< 0.5	34	708	1	22	7	151	2.87	18	< 10	23	< 0.5	< 2	2.26	13
1322003034	42.3	41.2	-1.10	47.2	0.873	8.74	159	1.0	0.9	26	663	< 1	12	25	202	2.09	40	< 10	29	< 0.5	< 2	2.16	10
1432090201	33.7	30.2	-3.50	39.8	0.759	8.56	99	0.2	< 0.5	20	880	1	52	< 2	116	3.57	12	< 10	27	< 0.5	< 2	2.23	17
1322006149	56.2	14.0	-42.2	61.3	0.229	8.50	106	0.6	< 0.5	124	385	3	20	3	190	1.84	10	< 10	22	< 0.5	2	1.04	11
1322006051	44.4	17.4	-27.0	49.3	0.352	8.91	148	0.6	1.2	102	530	3	14	3	324	1.39	9	< 10	16	< 0.5	< 2	0.97	10
1432090249	55.2	37.2	-17.9	64.6	0.576	8.49	34	0.4	< 0.5	74	761	< 1	64	3	129	4.32	17	< 10	19	< 0.5	< 2	3.08	22
1432090170	17.4	19.2	1.80	21.7	0.882	8.93	38	0.4	0.9	25	839	1	27	7	257	3.86	11	< 10	59	< 0.5	< 2	2.58	14
1432090142	22.0	18.6	-3.34	27.6	0.676	8.55	10	0.4	< 0.5	95	764	2	77	16	142	4.46	8	< 10	57	< 0.5	2	2.57	27
1432090194	43.5	37.0	-6.54	52.4	0.706	8.58	22	0.5	< 0.5	90	791	< 1	54	< 2	138	3.77	6	< 10	29	< 0.5	< 2	2.64	28
1323024063	61.7	13.3	-48.3	67.7	0.197	8.74	154	0.4	< 0.5	14	390	< 1	16	< 2	93	3.38	20	< 10	22	< 0.5	5	1.69	11
1322003017	34.2	26.4	-7.71	38.3	0.691	8.83	196	0.8	< 0.5	27	766	< 1	20	25	171	2.70	20	< 10	32	< 0.5	4	1.77	10
1322006193	63.2	7.79	-55.4	68.9	0.113	8.45	72	0.6	< 0.5	86	319	3	19	2	108	1.61	8	< 10	16	< 0.5	6	0.59	11
1322005211	39.8	10.5	-29.3	44.1	0.239	8.70	90	1.0	< 0.5	340	414	1	20	< 2	95	3.17	11	< 10	32	< 0.5	5	1.09	10
1322005031	50.8	10.9	-39.9	56.7	0.192	8.65	92	0.6	< 0.5	116	437	2	21	< 2	134	3.49	8	< 10	25	< 0.5	5	1.25	8
1322005150	18.4	9.53	-8.90	22.4	0.426	8.98	106	0.7	< 0.5	174	389	3	13	< 2	86	3.15	9	< 10	44	< 0.5	4	0.60	10
1322005091	40.4	8.87	-31.5	44.7	0.198	8.66	109	1.1	< 0.5	196	384	3	17	2	75	2.98	9	< 10	34	< 0.5	8	1.01	10
1322003103	62.0	48.9	-13.1	68.9	0.710	8.61	114	2.0	1.9	50	705	1	17	37	449	1.41	33	< 10	16	< 0.5	3	2.13	9
1322004168	63.5	15.1	-48.5	70.1	0.215	8.53	142	1.0	2.8	75	514	1	16	6	697	3.62	15	< 10	18	< 0.5	5	1.52	9
1322006241	66.7	11.9	-54.8	75.3	0.157	8.74	240	0.6	5.1	112	343	2	16	4	1170	2.21	9	< 10	< 10	< 0.5	3	0.84	9
1322003086	77.0	22.5	-54.5	83.0	0.271	8.43	92	1.0	2.7	45	634	< 1	16	11	647	2.29	19	< 10	18	< 0.5	3	1.64	12
1322006125	47.0	38.5	-8.49	53.9	0.714	8.85	214	0.7	1.1	104	395	3	17	3	260	1.38	10	< 10	19	< 0.5	< 2	1.37	11
1322004107	80.6	10.5	-70.1	87.3	0.120	8.55	1290	1.2	< 0.5	262	408	3	18	6	114	2.49	18	< 10	13	< 0.5	5	1.13	11
1322006039	45.4	24.0	-21.4	53.0	0.453	8.48	653	1.2	6.4	410	706	1	21	< 2	1600	1.38	7	< 10	22	< 0.5	< 2	1.19	9
F002440							948	1.7	< 0.5	101	222	15	10	28	63	1.31	< 2	< 10	42	< 0.5	< 2	0.84	8
GC20-0424-006							268	1.6	2.8	19	492	1	15	246	771	0.76	58	< 10	16	< 0.5	< 2	1.38	10
GC20-0421-009FD							7	0.3	< 0.5	16	165	< 1	13	3	41	1.81	16	< 10	22	< 0.5	< 2	0.28	6
1322002076	19.0	15.9	-3.05	22.4	0.711	8.97	38	0.3	< 0.5	68	565	2	12	11	162	2.66	11	< 10	37	< 0.5	2	1.47	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322006142	2.50	5.44	2.94	2.45	2.22	8.91	7	0.2	< 0.5	131	366	< 1	49	< 2	41	5.74	< 2	< 10	< 10	< 0.5	< 2	3.58	21
1322006173	3.13	6.30	3.17	3.06	2.06	8.77	5	< 0.2	< 0.5	115	394	< 1	51	< 2	45	5.41	< 2	< 10	< 10	< 0.5	< 2	3.47	22
GC20-0421-0013							24	0.4	< 0.5	35	205	< 1	17	5	76	1.33	28	< 10	64	< 0.5	< 2	0.69	11
1323024095	29.2	10.7	-18.5	34.9	0.306	8.54	138	0.7	< 0.5	343	378	2	15	2	56	3.70	5	14	46	< 0.5	5	1.17	10
GC20-0432-005							1420	1.5	24.6	38	710	< 1	17	29	5640	0.93	108	< 10	18	< 0.5	< 2	1.52	12
GC20-0434-009FD							79	< 0.2	< 0.5	18	1120	< 1	14	22	107	2.58	14	< 10	58	< 0.5	< 2	2.73	10
1432090054	33.8	33.0	-0.859	41.0	0.804	8.82	172	0.6	2.1	82	643	1	19	8	480	1.97	39	< 10	32	< 0.5	< 2	1.97	11
1432090121	14.1	35.7	21.7	21.7	1.64	9.01	32	0.3	< 0.5	31	829	< 1	23	4	162	3.44	18	< 10	60	< 0.5	< 2	2.68	13
1322006254	79.2	4.37	-74.8	86.4	0.0506	8.62	280	0.8	< 0.5	166	270	2	16	5	76	1.67	17	< 10	18	< 0.5	6	0.48	11
1432090172	22.0	44.3	22.4	27.9	1.59	8.83	26	0.3	< 0.5	40	709	1	34	7	154	3.27	19	< 10	52	< 0.5	< 2	2.78	15
1432090017	29.8	32.8	3.06	36.4	0.901	8.57	34	0.4	< 0.5	38	784	1	28	12	130	4.12	15	< 10	40	< 0.5	< 2	2.66	14
1432090240	16.9	29.9	13.1	22.0	1.36	9.16	10	0.3	< 0.5	29	662	< 1	34	4	108	4.47	4	< 10	64	< 0.5	< 2	3.08	16
1432090038	36.3	23.5	-12.9	42.0	0.560	8.78	7	0.2	0.8	28	949	< 1	31	2	486	4.93	5	< 10	32	< 0.5	2	3.00	14
1432090086	32.0	59.0	27.0	39.5	1.49	8.40	12	0.4	< 0.5	75	754	< 1	69	< 2	110	3.76	8	< 10	45	< 0.5	< 2	3.47	28
1432090255	2.60	29.5	26.9	5.82	5.06	9.35	< 5	< 0.2	< 0.5	21	363	< 1	40	4	50	2.38	< 2	< 10	151	< 0.5	< 2	1.45	12
1432090278	9.79	13.0	3.21	13.8	0.943	8.84	16	0.2	< 0.5	36	704	< 1	20	5	98	2.24	7	< 10	60	< 0.5	< 2	0.91	10
1322003119	53.9	49.0	-4.95	67.7	0.724	8.82	160	2.7	2.2	52	818	1	16	52	576	1.57	37	< 10	15	< 0.5	2	1.95	9
1322003145	70.8	21.0	-49.8	81.5	0.258	8.44	106	1.2	0.7	31	537	1	20	23	168	2.51	20	< 10	17	< 0.5	5	1.69	13
1432090465	9.37	22.0	12.7	15.0	1.47	8.97	5	< 0.2	< 0.5	49	692	2	36	41	126	3.86	4	< 10	73	< 0.5	< 2	2.07	13
1322003185	61.6	30.3	-31.4	72.6	0.417	8.59	91	1.2	1.2	40	636	< 1	19	24	207	2.22	24	< 10	16	< 0.5	4	1.86	11
1322006112	59.0	10.3	-48.7	70.1	0.147	8.55	212	1.6	1.0	444	409	4	20	3	253	1.57	12	< 10	18	< 0.5	3	0.80	11
1322003166	66.6	25.9	-40.8	76.9	0.337	8.60	113	0.8	2.5	70	615	< 1	13	7	596	2.47	15	< 10	18	< 0.5	5	1.45	10
F002441							3260	2.7	< 0.5	38	245	16	13	14	39	1.40	4	< 10	48	< 0.5	< 2	0.90	9
1322013311	38.1	10.6	-27.5	49.9	0.212	8.45	472	0.4	< 0.5	205	179	2	12	< 2	25	3.10	3	< 10	28	< 0.5	4	1.45	5
1322010077	61.4	11.2	-50.2	69.2	0.162	8.35	57	0.2	0.8	53	294	2	17	3	183	1.87	3	< 10	12	< 0.5	4	1.08	12
1433092047	6.56	12.4	5.79	6.43	1.92	8.98	< 5	< 0.2	< 0.5	93	532	< 1	40	< 2	41	5.03	3	< 10	44	< 0.5	< 2	3.27	18
1229070134	30.7	45.4	14.6	36.1	1.26	8.86	109	7.1	1.2	30	1180	< 1	22	52	307	1.43	55	< 10	31	< 0.5	< 2	2.06	12
1229070097	13.1	9.42	-3.70	17.8	0.530	9.23	12	0.8	0.6	33	575	< 1	137	10	113	2.62	36	< 10	45	< 0.5	< 2	1.49	29
1322009004	16.0	40.9	24.9	19.9	2.05	9.27	43	0.2	< 0.5	60	477	< 1	11	6	88	1.56	4	< 10	33	< 0.5	3	1.86	7
1322010101	85.1	8.68	-76.4	90.7	0.0958	8.29	100	0.4	< 0.5	33	306	2	20	7	55	2.99	11	< 10	16	< 0.5	4	1.31	9
1433092037	0.000	29.1	29.1	3.06	9.51	9.05	< 5	0.3	0.7	19	475	< 1	11	19	151	1.93	8	< 10	38	< 0.5	< 2	1.91	9
1322009064	83.2	8.65	-74.6	89.1	0.0971	8.45	59	0.5	< 0.5	67	360	4	15	4	71	1.88	7	< 10	10	< 0.5	5	0.84	11
1229070046	17.7	57.3	39.6	23.3	2.46	8.91	34	1.6	< 0.5	21	979	< 1	13	13	65	1.40	42	< 10	37	< 0.5	4	2.62	7
1229069017	65.2	52.0	-13.2	72.3	0.719	8.77	140	3.0	2.3	44	1620	1	24	70	561	1.75	71	< 10	19	< 0.5	< 2	2.11	11
1433092167	19.9	23.4	3.50	22.7	1.03	8.93	6	< 0.2	< 0.5	19	425	< 1	14	6	119	1.95	20	< 10	39	< 0.5	< 2	1.76	8
1322010200	73.2	15.1	-58.2	79.0	0.191	8.40	92	0.3	< 0.5	192	512	2	23	3	209	2.08	7	< 10	12	< 0.5	3	1.49	14
1322009208	65.3	6.62	-58.7	70.4	0.0940	8.34	160	0.7	0.9	140	339	1	17	3	291	1.91	14	< 10	14	< 0.5	3	0.73	12
1322010096	84.0	10.6	-73.5	91.6	0.115	8.26	538	0.6	< 0.5	72	300	3	22	6	49	2.26	12	< 10	12	< 0.5	6	1.04	10
1322009001	71.9	8.62	-63.2	80.2	0.107	8.43	465	1.4	4.5	151	1070	1	24	5	1140	2.93	24	< 10	15	< 0.5	2	0.87	16
1433092178	15.0	15.4	0.443	14.7	1.05	8.84	39	0.2	< 0.5	86	521	< 1	33	< 2	113	4.22	5	< 10	48	< 0.5	< 2	2.75	18
1433092224	4.06	7.63	3.57	3.98	1.92	8.81	10	< 0.2	< 0.5	149	447	< 1	44	< 2	43	5.70	< 2	< 10	18	< 0.5	< 2	3.63	22
1322013308	86.2	8.92	-77.3	92.5	0.0964	8.34	1910	2.4	< 0.5	998	235	14	10	3	30	1.99	13	< 10	16	< 0.5	14	0.77	13
1229073064	30.0	24.0	-5.95	33.1	0.727	8.14	139	0.8	< 0.5	19	675	< 1	10	44	135	2.33	23	< 10	40	< 0.5	2	1.83	8
1322010029	11.2	39.9	28.7	14.1	2.83	7.92	58	0.3	< 0.5	24	486	< 1	15	5	100	1.98	9	< 10	11	< 0.5	4	1.14	11
1433092051	66.2	10.3	-55.9	71.1	0.145	7.76	15	0.4	< 0.5	26	553	1	18	6	107	2.68	6	< 10	46	< 0.5	< 2	2.74	12
F001615							3250	2.4	< 0.5	38	245	15	13	14	39	1.43	3	< 10	45	< 0.5	< 2	0.92	10
1229070153	21.9	26.4	4.55	21.4	1.23	8.12	541	2.6	2.4	72	777	< 1	7	392	550	1.23	51	< 10	39	< 0.5	< 2	1.32	4
GC20-1001-014							396	1.6	< 0.5	330	324	3	13	6	64	1.97	9	< 10	< 10	< 0.5	7	0.69	10

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322010125	53.9	32.8	-21.2	59.7	0.549	8.18	130	1.5	< 0.5	92	451	< 1	16	6	37	2.31	22	< 10	18	< 0.5	4	1.82	7
1322010001	78.8	12.5	-66.3	83.0	0.151	7.98	210	0.3	< 0.5	51	414	1	14	4	63	2.54	13	< 10	19	< 0.5	3	1.51	11
1433092166	13.8	34.2	20.3	17.5	1.96	8.85	15	0.4	< 0.5	36	596	< 1	18	7	83	2.99	9	< 10	70	< 0.5	< 2	2.43	10
GC20-1044-026							331	1.2	< 0.5	261	490	< 1	14	6	67	2.20	8	< 10	21	< 0.5	5	1.41	10
GC20-1000-023							118	0.5	< 0.5	79	585	1	12	< 2	109	1.83	4	< 10	72	< 0.5	< 2	0.75	9
GC20-0937-023							172	0.8	< 0.5	56	176	1	12	7	25	1.17	19	< 10	< 10	< 0.5	5	0.33	9
GC20-0938-024							228	1.0	< 0.5	208	446	3	15	9	75	2.78	11	< 10	16	< 0.5	4	1.30	11
GC20-0927-019							134	0.7	1.4	14	496	1	15	3	404	3.22	30	< 10	20	< 0.5	2	1.76	10
GC20-1003-025							5	< 0.2	< 0.5	129	459	< 1	47	20	53	5.49	< 2	< 10	13	< 0.5	< 2	3.63	22
1322009171	81.6	10.00	-71.6	87.0	0.115	8.21	91	0.6	1.0	217	410	7	21	7	256	2.19	9	< 10	13	< 0.5	4	1.07	13
GC20-0396-015							100	1.1	< 0.5	10	757	< 1	22	30	140	2.65	40	< 10	28	< 0.5	3	1.49	11
1322013400	37.8	23.7	-14.1	37.1	0.640	8.38	52	1.1	< 0.5	257	277	13	14	< 2	81	2.86	6	< 10	38	< 0.5	3	2.09	8
1322010173	22.2	5.01	-17.2	21.7	0.231	8.69	245	0.5	< 0.5	95	351	< 1	13	3	69	3.51	4	< 10	52	< 0.5	2	1.15	10
1322010163	24.7	5.89	-18.8	24.2	0.243	8.45	48	1.6	< 0.5	45	484	< 1	11	3	132	3.42	6	< 10	45	< 0.5	4	1.36	9
1322010123	52.2	12.9	-39.3	55.7	0.231	8.32	269	0.2	< 0.5	75	248	3	14	9	20	1.91	4	< 10	16	< 0.5	< 2	1.13	12
1322011226	27.4	23.5	-3.85	30.0	0.784	8.56	160	0.9	< 0.5	214	612	2	16	6	105	2.01	6	< 10	42	< 0.5	2	1.46	10
1229073047	2.91	42.6	39.7	6.13	6.96	8.63	7	0.3	< 0.5	14	631	< 1	15	4	141	2.41	6	< 10	50	< 0.5	< 2	2.52	12
F001616							967	1.7	< 0.5	61	225	12	10	21	43	1.31	< 2	< 10	45	< 0.5	< 2	0.82	9
1229071079	6.25	35.6	29.3	6.13	5.81	8.44	7	< 0.2	< 0.5	18	354	1	17	< 2	48	1.46	5	< 10	107	< 0.5	< 2	1.59	9
1322004018	64.2	12.6	-51.6	68.9	0.182	8.53	74	0.3	< 0.5	41	371	3	21	3	53	1.18	9	< 10	12	< 0.5	3	0.75	10
GC20-0353-014							18	1.2	< 0.5	32	321	1	22	12	118	0.97	26	< 10	46	< 0.5	< 2	1.51	16
1322008003	19.6	33.0	13.4	22.4	1.48	8.88	12	0.3	< 0.5	123	527	1	54	< 2	70	5.17	< 2	< 10	30	< 0.5	< 2	3.15	24
1322007174	48.3	15.1	-33.2	53.3	0.283	8.49	130	0.5	< 0.5	82	420	3	22	4	63	1.60	8	< 10	22	< 0.5	2	0.96	11
1322008020	43.4	11.7	-31.7	49.9	0.235	8.53	287	0.5	1.8	55	518	1	19	4	417	2.75	26	< 10	32	< 0.5	4	1.65	9
1322008044	52.2	9.90	-42.3	57.3	0.173	8.58	91	0.5	< 0.5	59	364	< 1	14	6	131	2.25	8	< 10	16	< 0.5	6	0.71	9
1229069015	78.2	21.2	-56.9	98.6	0.215	8.59	178	3.0	11.9	39	1190	1	24	73	2720	1.91	115	< 10	14	< 0.5	< 2	1.17	11
GC20-0357-017							188	2.2	< 0.5	24	1720	< 1	12	21	69	1.14	61	< 10	35	< 0.5	< 2	3.24	6
1322008051	47.0	17.1	-29.8	53.0	0.323	8.63	265	0.8	2.6	75	560	< 1	20	< 2	626	2.96	16	< 10	17	< 0.5	4	1.75	12
GC20-0413-009FD							606	12.7	1.2	114	217	< 1	20	303	277	1.27	373	< 10	< 10	< 0.5	19	0.19	14
GC20-0412-008							165	3.0	1.5	50	1240	< 1	14	144	329	1.29	150	< 10	19	< 0.5	5	2.48	9
1322008126	83.8	19.8	-64.1	89.7	0.220	8.43	119	0.6	0.6	90	242	1	15	6	153	1.83	13	< 10	10	< 0.5	5	1.20	12
1322008143	33.1	22.0	-11.1	37.4	0.589	8.56	258	0.4	< 0.5	138	316	< 1	12	3	55	1.62	6	< 10	17	< 0.5	3	1.14	8
1322008096	48.5	11.6	-36.9	54.2	0.214	8.63	55	0.6	< 0.5	152	291	< 1	16	< 2	157	2.57	6	< 10	21	< 0.5	3	1.23	10
1322004222	70.6	13.5	-57.1	75.9	0.178	8.38	84	0.9	1.0	37	481	< 1	13	7	244	3.18	9	< 10	19	< 0.5	3	1.65	10
1322008160	21.6	34.9	13.4	25.7	1.36	8.82	154	0.4	< 0.5	165	419	< 1	13	7	57	1.57	5	< 10	29	< 0.5	3	1.69	8
1322008173	20.2	33.5	13.3	25.1	1.33	8.91	130	0.3	< 0.5	93	411	< 1	10	4	56	2.15	6	< 10	25	< 0.5	2	1.69	8
F001617							749	4.5	< 0.5	29	233	< 1	8	12	39	1.31	< 2	< 10	40	< 0.5	< 2	0.74	10
1322009287	61.3	0.989	-60.4	66.2	0.0149	8.48	73	0.7	< 0.5	79	367	< 1	10	4	101	3.05	23	< 10	13	< 0.5	4	1.12	9
1322009198	62.1	6.20	-55.9	75.6	0.0820	8.44	539	3.2	27.8	200	1050	< 1	20	307	6140	3.19	48	< 10	12	< 0.5	4	0.76	12
1322009394	50.3	9.25	-41.0	56.0	0.165	8.51	63	0.3	0.6	102	497	< 1	12	10	219	3.13	8	< 10	16	< 0.5	3	1.61	9
GC20-0408-007							212	3.5	8.6	68	540	< 1	26	85	2140	1.28	160	< 10	14	< 0.5	< 2	0.31	16
1229071101	39.6	60.7	21.1	45.9	1.32	8.75	78	1.6	< 0.5	16	1530	< 1	22	17	78	2.03	61	< 10	30	< 0.5	3	2.07	10
1229070226	8.13	27.3	19.2	7.96	3.43	8.79	< 5	0.3	< 0.5	13	296	< 1	14	55	62	3.65	5	< 10	66	< 0.5	3	1.70	7
1322009395	62.0	76.2	14.2	67.7	1.13	8.30	378	0.3	< 0.5	34	426	< 1	11	10	63	3.18	7	< 10	15	< 0.5	4	1.41	9
1229070179	15.8	16.6	0.815	18.7	0.891	8.90	88	3.0	0.6	27	381	1	15	19	181	1.55	32	< 10	56	< 0.5	< 2	0.73	7

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1322005246	179	2.45	< 10	< 1	0.18	20	0.52	0.021	0.044	1.91	< 2	< 1	11	< 0.01	3	< 2	< 10	5	< 10	2	14	0.11	1.83
1229068166	320	2.02	< 10	< 1	0.39	10	0.06	0.016	0.044	2.82	4	< 1	199	< 0.01	2	< 2	< 10	6	< 10	2	12	0.45	2.54
1322005072	300	4.47	< 10	3	0.05	< 10	1.51	0.626	0.021	0.10	< 2	5	61	0.19	< 1	< 2	< 10	130	< 10	4	2	0.15	0.11
GC20-1013-016	188	3.01	< 10	2	0.33	13	0.89	0.152	0.041	2.20	< 2	< 1	78	< 0.01	< 1	< 2	< 10	12	< 10	2	9		
GC20-0356-005	162	1.89	< 10	< 1	0.33	17	0.23	0.025	0.038	2.18	< 2	< 1	19	< 0.01	< 1	< 2	< 10	5	< 10	1	10		
1322003192	184	2.54	< 10	< 1	0.26	16	1.07	0.113	0.051	2.40	< 2	< 1	76	< 0.01	1	3	< 10	12	< 10	3	5	0.31	2.30
GC20-0352-001	127	1.39	< 10	< 1	0.17	10	0.37	0.115	0.033	0.34	< 2	< 1	118	0.03	< 1	< 2	< 10	10	< 10	1	2		
GC20-0359-006	180	1.41	< 10	< 1	0.12	< 10	0.38	0.122	0.032	0.30	< 2	< 1	87	< 0.01	< 1	< 2	< 10	12	< 10	< 1	5		
GC20-0358-008	184	1.14	< 10	< 1	0.29	16	0.22	0.028	0.042	1.01	3	< 1	28	< 0.01	2	< 2	< 10	4	< 10	2	3		
1229068085	275	2.01	< 10	< 1	0.30	11	0.51	0.117	0.039	1.15	< 2	1	38	0.03	< 1	< 2	< 10	28	< 10	2	6	0.81	1.00
1229068044	362	2.76	< 10	< 1	0.26	10	0.92	0.195	0.037	0.98	< 2	3	43	0.06	< 1	< 2	< 10	49	< 10	3	6	0.25	0.90
GC20-1011-024	105	1.96	< 10	< 1	0.29	13	1.17	0.056	0.041	0.33	< 2	2	23	0.06	2	< 2	< 10	22	< 10	2	6		
GC20-0941-020	181	1.97	< 10	< 1	0.43	14	0.15	0.017	0.046	2.05	< 2	< 1	34	< 0.01	2	< 2	< 10	6	< 10	2	14		
GC20-0943-025	134	1.82	< 10	< 1	0.46	14	0.20	0.032	0.046	1.74	2	< 1	20	< 0.01	< 1	< 2	< 10	7	< 10	2	10		
GC20-0357-001	125	2.03	< 10	< 1	0.21	14	0.20	0.020	0.048	2.35	4	< 1	15	< 0.01	1	< 2	< 10	4	17	1	7		
GC20-0387-006	107	4.55	< 10	2	0.05	< 10	1.50	0.655	0.019	0.07	< 2	5	59	0.16	< 1	< 2	< 10	134	< 10	3	2		
GC20-0396-001	228	1.17	< 10	< 1	0.29	14	0.26	0.047	0.044	0.90	< 2	< 1	30	< 0.01	2	< 2	< 10	5	< 10	2	3		
GC20-0397-006	172	2.84	< 10	< 1	0.48	25	1.09	0.079	0.066	2.66	< 2	1	39	0.04	3	< 2	< 10	17	< 10	3	5		
1229071146	239	2.20	< 10	< 1	0.49	14	0.94	0.270	0.042	1.26	< 2	2	100	0.03	2	< 2	< 10	20	< 10	2	6	0.38	1.21
F002439	14	2.11	< 10	< 1	0.20	14	0.40	0.234	0.039	0.03	< 2	2	37	0.32	3	< 2	< 10	55	< 10	16	9		
1432090045	385	3.28	10	2	0.48	19	1.74	0.219	0.066	0.91	< 2	3	165	0.09	< 1	< 2	< 10	54	< 10	4	9	0.47	0.89
1432090110	259	3.87	< 10	3	0.35	12	1.01	0.199	0.044	2.48	2	2	125	0.08	< 1	< 2	< 10	23	< 10	3	16	0.46	2.38
1322003034	192	2.27	< 10	< 1	0.19	26	1.08	0.186	0.059	1.55	< 2	< 1	111	< 0.01	2	< 2	< 10	12	< 10	3	2	0.55	1.54
1432090201	312	4.42	< 10	< 1	0.52	< 10	1.58	0.211	0.045	1.31	2	4	111	0.13	< 1	< 2	< 10	72	< 10	5	10	0.38	1.30
1322006149	472	2.66	< 10	< 1	0.20	15	0.85	0.181	0.044	2.06	< 2	1	82	0.02	< 1	< 2	< 10	16	< 10	3	15	0.29	2.00
1322006051	250	2.18	< 10	< 1	0.31	14	0.79	0.083	0.042	1.62	< 2	1	34	0.03	1	< 2	< 10	18	< 10	3	13	0.27	1.61
1432090249	394	5.10	< 10	< 1	0.65	13	1.86	0.280	0.055	2.02	< 2	5	199	0.17	2	< 2	< 10	104	< 10	5	13	0.57	2.11
1432090170	394	2.96	< 10	2	0.44	13	1.22	0.220	0.042	0.73	< 2	2	151	0.11	< 1	< 2	< 10	38	< 10	3	10	0.37	0.71
1432090142	427	6.22	10	2	0.56	< 10	1.90	0.280	0.050	0.90	2	8	145	0.20	2	< 2	< 10	171	< 10	7	7	0.50	0.90
1432090194	229	7.13	< 10	2	0.36	< 10	2.11	0.181	0.075	1.53	3	9	150	0.18	< 1	< 2	< 10	147	< 10	10	10	0.48	1.71
1323024063	344	3.03	< 10	2	0.21	13	1.16	0.303	0.041	2.17	< 2	< 1	133	0.01	< 1	< 2	< 10	13	< 10	2	10	0.29	2.21
1322003017	328	2.47	< 10	< 1	0.17	21	1.41	0.216	0.054	1.27	< 2	1	90	< 0.01	2	< 2	< 10	20	< 10	3	3	0.37	1.25
1322006193	421	2.75	< 10	< 1	0.21	16	0.90	0.125	0.045	2.32	< 2	< 1	43	0.02	2	< 2	< 10	12	< 10	3	9	0.18	2.25
1322005211	353	3.53	< 10	2	0.27	14	1.51	0.185	0.043	1.45	2	1	82	0.01	< 1	< 2	< 10	19	< 10	2	6	0.18	1.44
1322005031	403	3.64	< 10	2	0.33	11	1.08	0.212	0.037	1.89	< 2	1	92	0.01	< 1	< 2	< 10	14	< 10	2	10	0.23	1.85
1322005150	140	3.27	< 10	2	0.29	15	2.08	0.086	0.040	0.78	< 2	1	34	0.02	< 1	< 2	< 10	17	< 10	2	6	0.14	0.73
1322005091	326	3.63	< 10	4	0.27	14	1.42	0.147	0.037	1.43	< 2	1	63	0.03	2	< 2	< 10	16	< 10	3	9	0.13	1.46
1322003103	291	2.31	< 10	< 1	0.29	15	0.75	0.080	0.047	2.38	3	< 1	40	< 0.01	2	< 2	< 10	8	< 10	3	4	0.72	2.25
1322004168	320	2.51	< 10	< 1	0.19	15	1.13	0.268	0.050	2.32	< 2	1	151	< 0.01	< 1	< 2	< 10	14	< 10	2	4	0.26	2.29
1322006241	323	2.92	< 10	< 1	0.37	16	0.97	0.190	0.043	2.57	3	1	77	0.02	< 1	< 2	< 10	15	< 10	3	12	0.15	2.46
1322003086	265	2.71	< 10	< 1	0.15	23	1.00	0.259	0.059	2.75	2	< 1	102	< 0.01	4	< 2	< 10	10	< 10	3	7	0.37	2.71
1322006125	392	2.51	< 10	< 1	0.27	14	0.72	0.104	0.042	1.76	< 2	1	39	< 0.01	1	< 2	< 10	16	< 10	3	13	0.49	1.76
1322004107	317	3.72	< 10	3	0.30	13	0.65	0.195	0.041	2.88	2	1	90	< 0.01	< 1	< 2	< 10	13	< 10	3	15	0.16	2.85
1322006039	546	2.63	< 10	< 1	0.27	14	0.74	0.103	0.041	1.76	< 2	1	41	0.03	< 1	< 2	< 10	19	< 10	3	11	0.38	1.73
F002440	14	1.78	< 10	< 1	0.25	15	0.44	0.196	0.049	0.05	< 2	2	32	0.21	3	< 2	< 10	55	< 10	18	3		
GC20-0424-006	182	2.03	< 10	< 1	0.35	16	0.12	0.024	0.046	2.45	< 2	< 1	22	< 0.01	2	< 2	< 10	5	< 10	1	8		
GC20-0421-009FD	222	1.12	< 10	< 1	0.09	< 10	0.27	0.040	0.034	0.27	< 2	< 1	31	< 0.01	< 1	< 2	< 10	8	< 10	< 1	2		
1322002076	282	2.33	< 10	< 1	0.17	16	0.61	0.159	0.048	0.75	< 2	< 1	149	0.01	< 1	< 2	< 10	10	< 10	2	2	0.31	0.73
1322006142	194	4.42	< 10	3	0.03	< 10	1.46	0.626	0.021	0.08	< 2	4	60	0.15	< 1	< 2	< 10	130	< 10	3	1	0.13	0.08
1322006173	285	4.66	< 10	< 1	0.03	< 10	1.58	0.562	0.022	0.09	< 2	4	58	0.18	< 1	< 2	< 10	130	< 10	4	2	0.20	0.10

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0421-0013	229	1.52	< 10	< 1	0.18	< 10	0.37	0.078	0.030	0.42	< 2	1	31	0.01	< 1	< 2	< 10	14	< 10	1	4		
1323024095	291	3.41	< 10	< 1	0.27	11	1.11	0.166	0.040	1.09	< 2	1	124	0.01	< 1	< 2	< 10	18	< 10	2	7	0.14	1.14
GC20-0432-005	225	2.92	< 10	< 1	0.43	14	0.14	0.022	0.046	3.53	2	< 1	25	< 0.01	< 1	< 2	< 10	7	< 10	2	14		
GC20-0434-009FD	182	2.21	< 10	< 1	0.41	25	0.90	0.113	0.056	0.69	< 2	1	64	0.08	2	< 2	< 10	20	< 10	3	6		
1432090054	306	2.45	< 10	< 1	0.31	15	0.79	0.128	0.043	1.34	< 2	2	69	0.04	< 1	< 2	< 10	17	< 10	3	6	0.51	1.34
1432090121	222	3.07	< 10	< 1	0.46	15	1.20	0.224	0.049	0.74	< 2	2	137	0.11	< 1	< 2	< 10	41	< 10	3	14	0.56	0.71
1322006254	310	3.39	< 10	< 1	0.23	15	0.89	0.083	0.044	2.97	< 2	< 1	38	< 0.01	1	< 2	< 10	11	< 10	3	25	0.11	2.82
1432090172	391	3.35	< 10	2	0.42	18	1.26	0.205	0.055	0.97	< 2	3	131	0.08	< 1	< 2	< 10	47	< 10	4	11	0.53	0.91
1432090017	268	3.65	< 10	2	0.52	15	1.39	0.193	0.050	1.17	< 2	3	140	0.10	1	< 2	< 10	53	< 10	4	11	0.50	1.19
1432090240	386	3.42	10	2	0.53	23	1.45	0.340	0.072	0.72	3	3	227	0.11	< 1	< 2	< 10	58	< 10	4	17	0.44	0.72
1432090038	366	3.30	10	2	0.57	21	1.49	0.404	0.075	1.44	2	3	223	0.07	< 1	< 2	< 10	46	< 10	3	12	0.25	1.37
1432090086	187	6.42	< 10	1	0.32	< 10	1.87	0.260	0.056	1.20	4	11	163	0.18	2	< 2	< 10	173	< 10	9	7	0.68	1.29
1432090255	296	2.28	< 10	< 1	0.38	25	0.99	0.166	0.065	0.18	< 2	3	119	0.05	< 1	< 2	< 10	29	< 10	3	2	0.43	0.19
1432090278	297	2.14	< 10	< 1	0.30	14	0.91	0.135	0.045	0.46	< 2	1	43	0.05	< 1	< 2	< 10	22	< 10	3	2	0.16	0.45
1322003119	258	2.18	< 10	< 1	0.44	15	0.62	0.074	0.048	2.35	2	< 1	43	< 0.01	1	< 2	< 10	9	< 10	3	5	0.80	2.21
1322003145	319	2.80	< 10	< 1	0.28	18	0.85	0.238	0.056	2.85	3	1	100	0.02	< 1	< 2	< 10	14	< 10	3	11	0.34	2.66
1432090465	445	3.33	< 10	2	0.48	13	1.20	0.312	0.044	0.47	2	3	122	0.10	2	< 2	< 10	45	< 10	3	8	0.42	0.49
1322003185	318	2.52	< 10	< 1	0.27	16	0.91	0.131	0.052	2.48	3	< 1	55	< 0.01	< 1	< 2	< 10	10	< 10	3	8	0.47	2.37
1322006112	512	2.78	< 10	< 1	0.21	15	0.79	0.122	0.046	2.37	2	1	43	0.01	< 1	< 2	< 10	16	< 10	3	13	0.35	2.29
1322003166	136	2.59	< 10	< 1	0.18	20	1.25	0.107	0.052	2.60	2	< 1	64	< 0.01	< 1	< 2	< 10	10	< 10	3	9	0.31	2.51
F002441	14	1.95	< 10	< 1	0.26	14	0.50	0.212	0.052	0.05	< 2	3	32	0.25	2	< 2	< 10	63	< 10	17	8		
1322013311	234	2.64	< 10	< 1	0.18	< 10	0.84	0.234	0.040	1.64	< 2	< 1	144	< 0.01	2	< 2	< 10	11	< 10	2	7	0.26	1.63
1322010077	276	2.73	< 10	< 1	0.28	17	0.96	0.110	0.050	2.39	< 2	2	31	0.04	2	< 2	< 10	18	< 10	3	12	0.28	2.26
1433092047	197	4.13	< 10	2	0.16	11	1.39	0.500	0.037	0.18	2	4	76	0.18	< 1	< 2	< 10	94	< 10	3	6	0.19	0.21
1229070134	228	1.97	< 10	< 1	0.37	18	0.73	0.040	0.056	1.18	< 2	2	48	0.03	< 1	< 2	< 10	15	< 10	2	3	0.57	1.18
1229070097	456	2.94	< 10	1	0.69	26	1.69	0.177	0.089	0.58	2	6	121	0.11	< 1	< 2	< 10	62	< 10	2	8	0.11	0.58
1322009004	285	1.75	< 10	< 1	0.48	44	0.57	0.091	0.070	0.68	< 2	< 1	134	0.02	1	< 2	< 10	10	< 10	5	1	0.54	0.65
1322010101	442	3.66	< 10	3	0.30	14	0.99	0.264	0.043	3.01	3	1	179	0.01	< 1	< 2	< 10	13	< 10	3	19	0.22	2.96
1433092037	168	1.84	< 10	< 1	0.20	12	0.70	0.144	0.038	0.48	< 2	1	58	0.08	1	< 2	< 10	18	< 10	2	4	0.13	0.10
1322009064	209	3.05	< 10	< 1	0.22	15	0.94	0.156	0.044	2.99	2	1	45	0.01	2	< 2	< 10	15	< 10	3	19	0.17	2.91
1229070046	244	1.41	< 10	< 1	0.45	16	0.34	0.064	0.041	0.84	2	< 1	43	0.02	< 1	< 2	< 10	8	< 10	2	2	0.76	0.76
1229069017	185	2.54	< 10	< 1	0.49	18	1.11	0.047	0.054	2.43	< 2	< 1	20	0.01	< 1	< 2	< 10	11	< 10	2	6	0.62	2.36
1433092167	184	1.87	< 10	< 1	0.23	15	0.63	0.144	0.044	0.82	< 2	1	56	0.03	< 1	< 2	< 10	14	< 10	3	4	0.31	0.74
1322010200	145	3.46	< 10	2	0.18	23	1.21	0.079	0.059	2.61	< 2	3	38	0.07	< 1	< 2	< 10	34	< 10	4	15	0.23	2.58
1322009208	387	2.58	< 10	< 1	0.20	15	0.81	0.182	0.045	2.45	< 2	1	66	0.02	3	< 2	< 10	13	< 10	3	12	0.15	2.30
1322010096	533	3.78	< 10	< 1	0.29	15	0.95	0.203	0.045	3.17	3	1	109	0.03	< 1	< 2	< 10	19	< 10	3	21	0.29	2.99
1322009001	121	4.56	< 10	2	0.38	13	1.98	0.101	0.054	2.67	< 2	3	57	0.08	5	< 2	< 10	43	< 10	6	20	0.18	2.62
1433092178	144	3.60	< 10	< 1	0.21	10	1.24	0.379	0.039	0.48	3	3	59	0.16	1	< 2	< 10	80	< 10	3	8	0.21	0.48
1433092224	141	4.38	< 10	2	0.05	< 10	1.39	0.680	0.023	0.11	3	4	73	0.18	< 1	< 2	< 10	121	< 10	3	2	0.15	0.13
1322013308	175	4.38	< 10	2	0.17	25	0.77	0.092	0.037	3.10	2	< 1	57	< 0.01	< 1	< 2	< 10	10	< 10	3	20	0.18	3.02
1229073064	113	1.86	< 10	< 1	0.35	17	0.68	0.152	0.044	1.07	< 2	< 1	54	0.04	< 1	< 2	< 10	12	< 10	2	2	0.33	1.08
1322010029	186	2.72	< 10	< 1	0.15	14	0.97	0.180	0.042	2.45	< 2	1	52	0.02	2	< 2	< 10	17	< 10	3	9	0.57	0.46
1433092051	176	2.43	< 10	< 1	0.24	15	0.95	0.174	0.042	0.44	< 2	2	119	0.10	3	< 2	< 10	31	< 10	3	10	0.34	2.32
F001615	14	1.95	< 10	< 1	0.27	14	0.49	0.214	0.050	0.05	< 2	3	33	0.25	3	< 2	< 10	63	< 10	17	5		
1229070153	140	0.83	< 10	< 1	0.33	19	0.16	0.079	0.039	0.74	< 2	< 1	44	< 0.01	< 1	< 2	< 10	5	< 10	1	3	0.35	0.70
GC20-1001-014	222	3.19	< 10	< 1	0.38	14	0.69	0.125	0.050	2.83	< 2	1	53	0.02	< 1	< 2	< 10	14	< 10	2	17		
1322010125	185	2.80	< 10	< 1	0.44	16	0.66	0.176	0.045	2.06	< 2	1	66	0.02	1	< 2	< 10	13	< 10	2	9	0.36	1.95
1322010001	163	3.13	< 10	< 1	0.19	15	1.01	0.165	0.045	2.77	2	1	104	0.01	2	< 2	< 10	10	< 10	3	14	0.23	2.71
1433092166	273	2.18	< 10	< 1	0.38	15	0.87	0.249	0.042	0.56	3	1	115	0.06	1	< 2	< 10	21	< 10	3	8	0.44	0.57
GC20-1044-026	177	3.10	< 10	< 1	0.24	12	0.85	0.154	0.036	1.66	< 2	1	52	0.04	2	< 2	< 10	16	< 10	2	13		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-1000-023	135	2.55	< 10	< 1	0.38	14	1.25	0.068	0.042	0.39	< 2	2	36	0.07	3	< 2	< 10	23	< 10	3	12		
GC20-0937-023	150	2.62	< 10	< 1	0.31	11	0.53	0.027	0.035	2.63	< 2	< 1	15	< 0.01	< 1	< 2	< 10	7	< 10	2	20		
GC20-0938-024	253	2.94	< 10	1	0.33	13	0.95	0.241	0.041	2.18	< 2	1	107	0.03	< 1	2	< 10	18	10	2	10		
GC20-0927-019	186	2.47	< 10	< 1	0.35	14	1.02	0.351	0.042	1.82	< 2	1	174	0.05	1	< 2	< 10	17	< 10	2	8		
GC20-1003-025	115	4.42	< 10	1	0.03	< 10	1.52	0.585	0.022	0.10	< 2	4	65	0.19	< 1	< 2	< 10	131	< 10	3	2		
1322009171	450	3.13	< 10	< 1	0.26	15	0.95	0.198	0.045	2.91	< 2	1	83	0.03	3	< 2	< 10	17	< 10	3	17	0.34	2.84
GC20-0396-015	98	2.12	< 10	< 1	0.63	22	1.36	0.101	0.055	1.60	< 2	2	40	0.05	< 1	< 2	< 10	19	< 10	3	4		
1322013400	233	1.99	< 10	< 1	0.26	13	1.11	0.261	0.039	1.18	< 2	< 1	225	0.03	2	< 2	< 10	12	< 10	2	6	0.34	1.21
1322010173	189	2.94	< 10	2	0.35	17	0.93	0.213	0.050	0.71	< 2	2	151	0.01	< 1	< 2	< 10	24	< 10	3	2	0.08	0.71
1322010163	168	3.01	< 10	2	0.14	17	1.05	0.131	0.049	0.82	< 2	1	163	0.04	2	3	< 10	18	< 10	3	3	0.15	0.79
1322010123	202	3.07	< 10	< 1	0.23	14	0.87	0.118	0.043	1.89	< 2	2	59	0.05	1	< 2	< 10	23	< 10	3	16	0.28	1.82
1322011226	270	2.69	< 10	< 1	0.33	14	1.10	0.115	0.044	1.10	< 2	2	68	0.06	< 1	< 2	< 10	23	< 10	3	12	0.38	0.98
1229073047	236	3.16	< 10	< 1	0.23	31	1.10	0.106	0.070	0.20	< 2	3	108	0.15	2	< 2	< 10	45	< 10	5	9	0.58	0.20
F001616	14	1.77	< 10	< 1	0.25	15	0.43	0.196	0.048	0.05	< 2	2	32	0.20	2	< 2	< 10	54	< 10	18	4		
1229071079	398	2.10	< 10	< 1	0.49	18	0.70	0.123	0.043	0.20	< 2	2	48	0.11	< 1	< 2	< 10	27	< 10	3	10	0.41	0.20
1322004018	492	2.87	< 10	< 1	0.14	13	0.75	0.078	0.043	2.38	2	1	28	< 0.01	1	< 2	< 10	15	< 10	3	15	0.27	2.25
GC20-0353-014	191	0.79	< 10	< 1	0.41	20	0.05	0.056	0.043	0.75	< 2	< 1	38	0.01	2	< 2	< 10	6	< 10	2	3		
1322008003	325	4.72	< 10	3	0.12	< 10	1.96	0.519	0.024	0.41	2	6	65	0.14	< 1	4	< 10	112	< 10	4	2	0.41	0.73
1322007174	593	2.75	< 10	< 1	0.18	13	0.74	0.146	0.040	1.85	3	1	66	0.01	< 1	< 2	< 10	17	< 10	3	9	0.28	1.74
1322008020	472	2.50	< 10	< 1	0.28	18	0.81	0.209	0.054	1.68	2	< 1	106	0.04	< 1	< 2	< 10	14	< 10	3	6	0.36	1.63
1322008044	187	2.74	< 10	< 1	0.23	15	1.46	0.086	0.043	1.94	< 2	1	37	< 0.01	2	< 2	< 10	13	< 10	3	8	0.14	1.87
1229069015	268	3.22	< 10	< 1	0.45	17	1.10	0.081	0.054	3.18	2	1	22	0.01	< 1	< 2	< 10	14	< 10	2	16	0.28	3.22
GC20-0357-017	222	1.10	< 10	< 1	0.43	15	0.28	0.035	0.041	0.88	< 2	< 1	32	< 0.01	< 1	< 2	< 10	5	< 10	2	2		
1322008051	408	3.10	< 10	1	0.25	16	1.14	0.179	0.050	1.72	< 2	2	81	0.03	< 1	< 2	< 10	29	< 10	3	9	0.34	1.73
GC20-0413-009FD	150	5.46	< 10	2	0.46	27	0.30	0.032	0.066	6.96	5	1	11	< 0.01	4	< 2	< 10	13	< 10	2	20		
GC20-0412-008	238	2.63	< 10	< 1	0.45	20	0.72	0.029	0.050	2.83	3	< 1	26	< 0.01	< 1	< 2	< 10	9	< 10	2	11		
1322008126	239	3.02	< 10	< 1	0.32	20	0.80	0.134	0.055	2.94	< 2	1	87	0.02	1	< 2	< 10	13	< 10	4	14	0.35	2.93
1322008143	268	2.04	< 10	< 1	0.22	30	0.75	0.089	0.056	1.25	< 2	< 1	83	< 0.01	2	< 2	< 10	10	< 10	3	2	0.39	1.22
1322008096	254	2.65	< 10	< 1	0.34	15	0.98	0.199	0.040	1.83	< 2	1	80	0.05	< 1	< 2	< 10	21	< 10	2	9	0.18	1.77
1322004222	139	2.52	< 10	< 1	0.12	24	1.13	0.271	0.061	2.61	< 2	1	134	< 0.01	< 1	< 2	< 10	12	< 10	3	6	0.24	2.48
1322008160	349	1.96	< 10	< 1	0.27	44	0.57	0.104	0.067	0.90	< 2	< 1	133	< 0.01	1	< 2	< 10	9	< 10	4	1	0.62	0.84
1322008173	229	1.96	< 10	< 1	0.35	37	0.75	0.176	0.065	0.88	< 2	1	120	0.01	2	< 2	< 10	14	< 10	4	2	0.40	0.82
F001617	12	1.95	< 10	< 1	0.25	13	0.41	0.233	0.037	0.03	< 2	2	33	0.31	4	< 2	< 10	50	< 10	16	10		
1322009287	158	2.25	< 10	< 1	0.30	15	0.80	0.184	0.044	2.35	3	< 1	90	< 0.01	< 1	< 2	< 10	10	< 10	2	11	0.12	2.16
1322009198	291	4.01	< 10	3	0.36	14	1.90	0.102	0.049	2.55	3	2	45	0.02	< 1	< 2	< 10	29	< 10	4	14	0.15	2.47
1322009394	211	2.16	< 10	< 1	0.20	15	0.90	0.230	0.044	1.97	< 2	< 1	126	0.02	1	< 2	< 10	11	< 10	2	4	0.15	1.83
GC20-0408-007	171	3.62	< 10	< 1	0.34	35	0.61	0.018	0.087	4.10	4	1	12	< 0.01	3	< 2	< 10	14	< 10	3	16		
1229071101	221	2.14	< 10	< 1	0.44	14	1.25	0.143	0.045	1.57	< 2	2	42	0.02	1	< 2	< 10	18	< 10	2	6	0.62	1.50
1229070226	280	1.63	< 10	< 1	0.21	< 10	0.45	0.228	0.031	0.24	< 2	< 1	186	0.02	2	< 2	< 10	9	< 10	1	1	0.17	0.26
1322009395	194	2.48	< 10	< 1	0.25	15	0.90	0.198	0.044	2.28	< 2	< 1	124	0.01	< 1	< 2	< 10	11	< 10	2	7	0.15	2.21
1229070179	314	1.50	< 10	< 1	0.42	12	0.36	0.048	0.033	0.65	< 2	< 1	29	< 0.01	< 1	< 2	< 10	8	< 10	1	7	0.23	0.61

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	72	985	< 1	24	94	114	7.09	188	< 10	780	0.7	2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	73	997	1	25	95	116	7.16	198	< 10	809	0.7	2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1000	< 1	24	94	115	7.07	191	< 10	792	0.7	3	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
BaSO4 Meas																							
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NBM-1 (slight fzz) Meas		41.8				8.03																	
NBM-1 (slight fzz)		46.6				8.53																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
NBM-1 (slight fzz) Meas		41.9				7.55																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas		43.0				8.03																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2280	724	< 1	35	60	245	2.95	5		80	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2210	727	< 1	36	59	251	2.89	5		78	0.7	8	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2300	738	< 1	37	62	253	2.88	7		69	0.6	9	0.38	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4400	821	< 1	34	82	309	2.90	7		60	0.6	24	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.6	< 0.5	4400	817	< 1	33	80	312	2.89	9		60	0.6	23	0.39	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4640	855	< 1	34	83	330	2.97	8		57	0.6	25	0.39	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.8		> 10000				85	388						63		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				85	395						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								11.5		> 10000				86	401						69		49
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua								67.0	290	3710	521	13	25	> 5000	> 10000	1.86	76			0.5	5	1.63	31

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.2	286	3560	515	12	25	> 5000	> 10000	1.76	73			0.5	8	1.62	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.8	293	3560	526	11	26	> 5000	> 10000	1.79	75			0.5	11	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3100																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3140																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3050																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3060																
OREAS 238 (Fire Assay) Cert							3030																
GS316-3 Meas																							
GS316-3 Cert																							
GS316-3 Meas																							
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GS316-3 Cert																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							501																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							516																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							530																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							517																
Oreas E1336 (Fire Assay) Cert							510																
GS317-5 Meas																							
GS317-5 Cert																							
GS317-5 Meas																							
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GS317-5 Cert																							
GS317-5 Meas																							
GS317-5 Cert																							
GC20-0359-006 Orig								< 0.2	< 0.5	5	141	< 1	12	3	30	2.96	11	10	59	0.5	4	0.70	8
GC20-0359-006 Dup								0.2	< 0.5	5	144	< 1	12	3	31	3.01	9	< 10	59	0.5	< 2	0.71	7
GC20-0358-008 Orig							206																
GC20-0358-008 Dup							213																
1229071146 Orig							21																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1229071146 Dup							17																
1322003034 Orig							163	1.0	0.7	25	654	< 1	12	23	199	2.07	42	< 10	30	< 0.5	< 2	2.15	10
1322003034 Dup							155	1.0	1.0	26	671	< 1	12	27	205	2.12	38	< 10	28	< 0.5	< 2	2.16	9
1322003017 Orig								0.9	0.5	27	766	< 1	20	25	172	2.68	22	< 10	32	< 0.5	5	1.75	11
1322003017 Dup								0.8	< 0.5	27	767	1	20	25	171	2.71	19	< 10	32	< 0.5	4	1.78	10
1322006193 Orig																							
1322006193 Dup																							
1322006039 Orig							634																
1322006039 Dup							672																
GC20-0421-0013 Orig								0.6	0.6	35	204	< 1	17	5	72	1.33	26	< 10	64	< 0.5	< 2	0.69	11
GC20-0421-0013 Dup								0.3	< 0.5	36	206	< 1	17	5	80	1.34	30	< 10	63	< 0.5	< 2	0.69	11
GC20-0434-009FD Orig							78																
GC20-0434-009FD Dup							80																
1322006254 Orig	79.2	4.43	-74.7	86.4	0.0513																		
1322006254 Dup	79.2	4.31	-74.8	86.4	0.0499																		
1432090172 Orig							31																
1432090172 Dup							21																
1432090240 Orig																							
1432090240 Dup																							
F002441 Orig								2.8	< 0.5	37	243	16	13	14	39	1.39	4	< 10	48	< 0.5	< 2	0.89	9
F002441 Dup								2.5	< 0.5	38	247	16	13	15	39	1.41	4	< 10	49	< 0.5	< 2	0.90	9
1322013311 Orig																							
1322013311 Dup																							
1433092037 Orig							< 5																
1433092037 Dup							6																
1229069017 Orig																							
1229069017 Dup																							
1322010096 Orig								0.6	< 0.5	71	299	3	21	6	48	2.26	12	< 10	11	< 0.5	5	1.04	10
1322010096 Dup								0.6	< 0.5	72	301	3	23	7	49	2.27	13	< 10	12	< 0.5	6	1.04	10
1433092224 Orig							8																
1433092224 Dup							11																
1322013308 Orig						8.39																	
1322013308 Dup						8.29																	
1433092051 Orig							15																
1433092051 Dup							14																
1229070153 Orig								2.5	2.4	72	770	< 1	7	389	549	1.21	54	< 10	38	< 0.5	< 2	1.31	4
1229070153 Dup								2.8	2.3	73	784	< 1	7	395	551	1.24	47	< 10	39	< 0.5	< 2	1.33	4
1322010001 Orig	78.8	12.5	-66.4	83.0	0.150																		
1322010001 Dup	78.8	12.6	-66.3	83.0	0.151																		
1322011226 Orig																							
1322011226 Dup																							
1229073047 Orig							8																
1229073047 Dup							6																
F001616 Orig								1.7	< 0.5	64	223	12	10	21	43	1.29	< 2	< 10	45	< 0.5	< 2	0.82	9
F001616 Dup								1.7	< 0.5	58	228	12	11	22	43	1.33	< 2	< 10	45	< 0.5	< 2	0.83	9
1322008143 Orig																							

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322008143 Dup																							
1322008096 Orig								0.5	< 0.5	149	287	< 1	16	3	156	2.52	5	< 10	21	< 0.5	3	1.21	10
1322008096 Dup								0.6	0.7	155	296	< 1	16	< 2	158	2.61	6	< 10	20	< 0.5	2	1.24	10
1322009395 Orig																							
1322009395 Dup																							
1229070179 Orig	15.8	16.5	0.654	18.7	0.882																		
1229070179 Dup	15.8	16.8	0.977	18.7	0.900																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	76	5.71	20	1	1.10	< 10	0.37	0.127	0.034	0.01	3	16	30		< 1	< 2	< 10	163	< 10	4	4		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.80	20	2	1.11	< 10	0.38	0.126	0.035	0.01	< 2	16	30		< 1	< 2	< 10	168	< 10	4	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.71	20	3	1.10	< 10	0.37	0.126	0.034	0.01	3	16	30		< 1	< 2	< 10	164	< 10	4	4		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	5.13	< 10		0.48	38	1.24	0.030	0.064	0.36	< 2	4	16			< 2	< 10	37	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	4.97	< 10		0.47	38	1.22	0.028	0.065	0.35	< 2	4	16			< 2	< 10	37	< 10	20	12		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.22	< 10		0.43	37	1.23	0.027	0.064	0.36	2	3	16			< 2	< 10	35	< 10	17	9		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.76	< 10		0.40	34	1.30		0.062	0.65	3	4	14			< 2	< 10	36	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.84	< 10		0.40	35	1.30		0.062	0.64	< 2	3	14			< 2	< 10	35	< 10	18	23		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.17	< 10		0.38	34	1.35		0.066	0.67	3	3	15			< 2	< 10	36	< 10	16	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.90	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.87	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.02	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua Regia) Meas	30	3.27	10	4	0.39	20	0.41	0.178	0.034	4.72	92	2	18			< 2	< 10	14	< 10	7	46		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.20	< 10	4	0.36	19	0.40	0.171	0.033	4.40	87	2	17			3	< 10	13	< 10	7	43		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.25	< 10	3	0.36	20	0.40	0.175	0.035	4.24	91	2	18			< 2	< 10	13	< 10	7	56		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
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OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.24	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.5
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.33	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.25	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.19	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.38	14.8
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	14.7
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.17	15.0
GS317-5 Cert																						8.46	15.5
GC20-0359-006 Orig	179	1.40	< 10	< 1	0.11	< 10	0.37	0.122	0.032	0.30	< 2	< 1	86	< 0.01	2	< 2	< 10	12	< 10	< 1	5		
GC20-0359-006 Dup	181	1.43	< 10	< 1	0.12	< 10	0.38	0.121	0.032	0.31	< 2	< 1	87	< 0.01	< 1	2	< 10	12	< 10	< 1	5		
GC20-0358-008 Orig																							
GC20-0358-008 Dup																							
1229071146 Orig																							
1229071146 Dup																							
1322003034 Orig	193	2.26	< 10	< 1	0.19	25	1.07	0.182	0.059	1.54	< 2	< 1	110	< 0.01	2	< 2	< 10	12	< 10	3	2	0.55	1.55
1322003034 Dup	190	2.29	< 10	< 1	0.19	26	1.09	0.189	0.060	1.56	< 2	< 1	113	< 0.01	1	< 2	< 10	12	< 10	3	3	0.55	1.52
1322003017 Orig	328	2.49	< 10	< 1	0.16	21	1.41	0.211	0.055	1.27	< 2	1	88	< 0.01	2	< 2	< 10	20	< 10	3	4		
1322003017 Dup	327	2.45	< 10	< 1	0.17	21	1.41	0.220	0.054	1.27	< 2	2	92	0.01	2	< 2	< 10	20	< 10	3	2		
1322006193 Orig																						0.19	2.29
1322006193 Dup																						0.18	2.21
1322006039 Orig																						0.38	1.74
1322006039 Dup																						0.38	1.71

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0421-0013 Orig	228	1.51	< 10	< 1	0.18	< 10	0.37	0.078	0.031	0.42	< 2	1	30	0.01	< 1	< 2	< 10	14	< 10	1	4		
GC20-0421-0013 Dup	230	1.52	< 10	< 1	0.18	< 10	0.37	0.078	0.029	0.42	< 2	1	31	0.01	< 1	< 2	< 10	14	< 10	1	4		
GC20-0434-009FD Orig																							
GC20-0434-009FD Dup																							
1322006254 Orig																							
1322006254 Dup																							
1432090172 Orig																							
1432090172 Dup																							
1432090240 Orig																						0.45	0.72
1432090240 Dup																						0.44	0.72
F002441 Orig	14	1.93	< 10	< 1	0.26	13	0.49	0.210	0.052	0.05	< 2	3	32	0.25	2	< 2	< 10	62	< 10	17	7		
F002441 Dup	15	1.97	< 10	< 1	0.27	14	0.50	0.214	0.053	0.05	< 2	3	33	0.25	2	< 2	< 10	63	< 10	18	8		
1322013311 Orig																						0.25	1.59
1322013311 Dup																						0.26	1.66
1433092037 Orig																							
1433092037 Dup																							
1229069017 Orig																						0.62	2.33
1229069017 Dup																						0.63	2.38
1322010096 Orig	533	3.77	< 10	< 1	0.29	15	0.95	0.202	0.045	3.17	3	1	109	0.03	2	< 2	< 10	19	< 10	3	21		
1322010096 Dup	532	3.78	< 10	2	0.29	15	0.96	0.203	0.045	3.18	3	1	108	0.03	< 1	< 2	< 10	19	< 10	3	21		
1433092224 Orig																							
1433092224 Dup																							
1322013308 Orig																							
1322013308 Dup																							
1433092051 Orig																						0.34	2.32
1433092051 Dup																						0.34	2.32
1229070153 Orig	139	0.82	< 10	1	0.33	19	0.15	0.078	0.038	0.73	< 2	< 1	44	< 0.01	< 1	< 2	< 10	5	< 10	1	3		
1229070153 Dup	141	0.85	< 10	< 1	0.34	19	0.16	0.079	0.039	0.76	< 2	< 1	45	< 0.01	< 1	< 2	< 10	5	< 10	1	2		
1322010001 Orig																							
1322010001 Dup																							
1322011226 Orig																						0.39	0.99
1322011226 Dup																						0.38	0.98
1229073047 Orig																							
1229073047 Dup																							
F001616 Orig	14	1.76	< 10	< 1	0.25	15	0.43	0.191	0.049	0.05	< 2	2	31	0.20	2	< 2	< 10	54	< 10	18	4		
F001616 Dup	14	1.79	< 10	< 1	0.25	15	0.43	0.200	0.048	0.05	< 2	2	32	0.21	2	< 2	< 10	55	< 10	18	3		
1322008143 Orig																						0.39	1.22
1322008143 Dup																						0.40	1.22
1322008096 Orig	250	2.60	< 10	< 1	0.33	15	0.96	0.195	0.039	1.81	< 2	1	78	0.05	< 1	< 2	< 10	21	< 10	2	9		
1322008096 Dup	258	2.70	< 10	< 1	0.34	15	1.00	0.202	0.040	1.86	< 2	1	81	0.05	3	< 2	< 10	21	< 10	3	10		
1322009395 Orig																						0.15	2.19
1322009395 Dup																						0.15	2.22
1229070179 Orig																							
1229070179 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		

Quality Analysis ... *Innovative Technologies*

Report No.:	**A20-16167**
Report Date:	**18-Feb-21**
Date Submitted:	**16-Dec-20**
Your Reference:	**2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2021-01-18 07:08:29
1E3-Tbay NewGold	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-29 11:00:48

REPORT **A20-16167**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-16167**
Report Date: **18-Feb-21**
Date Submitted: **16-Dec-20**
Your Reference: **2020 October_November Check Assays**

New Gold Inc.
1800-Two Bentall Centre
555 Burrard Street, Box 212
Vancouver BC V7X 1M9
Canada

ATTN: Jason Pattison

CERTIFICATE OF ANALYSIS

140 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
11 ABA Modified Sobek Package	Acid Base Accounting	2021-01-05 21:30:22
4F-C, S	Infrared	2020-12-29 21:23:51

REPORT **A20-16167**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322020001	43.2	47.9	4.65	49.9	0.959	8.77	226	1.3	5.1	45	1000	2	12	34	1030	1.21	95	< 10	25	< 0.5	3	1.80	9
1229066248	19.2	12.2	-6.92	23.6	0.519	8.47	108	0.5	3.8	29	1060	< 1	8	16	765	1.96	27	< 10	47	< 0.5	< 2	0.71	8
1322020512	38.8	14.0	-24.9	44.1	0.317	8.54	1110	0.6	1.1	31	864	< 1	27	14	343	2.23	90	< 10	27	< 0.5	< 2	0.56	11
1229066233	50.8	59.0	8.15	58.8	1.00	8.65	202	2.5	0.9	28	1450	< 1	20	66	236	2.00	98	< 10	26	< 0.5	< 2	2.55	10
1229066160	63.3	66.0	2.70	72.0	0.917	8.78	219	2.6	2.2	35	1310	< 1	20	68	560	1.64	100	< 10	20	< 0.5	3	2.53	11
GC20-0388-001							146	1.6	< 0.5	14	661	< 1	11	28	132	0.68	63	< 10	20	< 0.5	< 2	2.03	9
1229066328	13.0	27.6	14.5	18.4	1.50	8.90	64	0.4	1.3	25	645	< 1	12	6	274	1.05	27	< 10	47	< 0.5	< 2	1.21	10
1322020431	75.6	16.1	-59.6	85.4	0.188	8.57	756	1.2	12.2	66	641	2	21	22	2890	1.59	71	< 10	17	< 0.5	< 2	0.86	9
GC20-0384-013							585	47.0	1.5	45	1460	1	12	127	464	0.73	41	< 10	33	< 0.5	2	1.87	8
GC20-0386-010							100	1.0	1.0	63	1040	< 1	116	23	296	2.96	37	< 10	30	< 0.5	< 2	4.16	32
GC20-0376-008							42	6.5	< 0.5	20	842	< 1	13	23	101	1.21	39	< 10	44	< 0.5	< 2	1.90	11
1229066152	64.5	41.6	-22.9	72.6	0.573	8.50	207	2.9	2.6	47	1410	< 1	19	125	651	1.63	94	< 10	27	< 0.5	< 2	1.61	11
GC20-0374-001							566	12.5	3.2	32	103	1	13	101	792	0.70	69	< 10	14	< 0.5	2	0.22	8
GC20-0378-004							65	0.3	< 0.5	11	98	< 1	11	7	172	0.82	2900	< 10	44	< 0.5	< 2	0.08	9
GC20-0375-009FD							10	0.2	< 0.5	15	138	< 1	11	3	13	1.79	13	< 10	31	< 0.5	< 2	0.27	7
1323022001	16.9	11.6	-5.24	16.5	0.704	8.80	11	0.2	< 0.5	20	449	< 1	11	7	154	3.42	3	< 10	43	< 0.5	3	1.66	10
1229066262	37.3	39.8	2.52	41.3	0.963	8.66	347	1.3	1.3	31	671	< 1	8	15	288	1.39	354	< 10	30	< 0.5	< 2	1.69	9
1229066187	32.9	9.75	-23.2	37.7	0.259	8.38	358	0.9	2.8	21	1000	< 1	10	27	564	1.61	52	< 10	32	< 0.5	2	0.59	9
1322020183	19.9	2.25	-17.6	23.9	0.0940	8.36	586	0.3	4.3	39	412	< 1	16	7	1490	1.50	54	< 10	15	< 0.5	3	0.23	12
1229066033	277	4.00	-273	287	0.0140	7.39	2210	55.8	8.0	3530	395	< 1	21	725	1670	0.84	1010	< 10	< 10	< 0.5	46	0.22	11
1229066120	50.1	67.0	16.9	58.5	1.14	8.53	172	2.6	0.9	27	1670	< 1	21	66	218	1.60	114	< 10	26	< 0.5	< 2	2.55	11
F0016162							738	4.5	< 0.5	29	231	< 1	8	12	39	1.30	< 2	< 10	41	< 0.5	< 2	0.74	9
1323022065	2.60	12.7	10.1	5.82	2.18	8.68	9	< 0.2	< 0.5	114	562	< 1	62	< 2	126	4.62	< 2	< 10	10	< 0.5	< 2	2.84	25
1229066080	43.1	62.3	19.2	52.4	1.19	8.77	155	3.3	0.7	27	1420	< 1	20	62	168	1.91	87	< 10	30	< 0.5	3	2.51	11
1433094062	34.5	45.3	10.8	41.3	1.09	8.35	206	1.0	< 0.5	59	813	< 1	17	4	85	1.13	35	< 10	31	< 0.5	< 2	2.16	10
1229066186	19.2	10.5	-8.67	24.2	0.434	8.31	152	1.5	5.7	106	679	1	9	15	1080	2.33	27	< 10	46	< 0.5	< 2	0.91	10
1322020285	42.7	48.6	5.91	48.4	1.00	8.48	189	1.9	3.2	52	1110	< 1	15	59	664	2.59	51	< 10	31	< 0.5	3	2.52	9
1323019117	50.7	11.8	-38.9	55.4	0.213	8.44	54	0.8	1.3	99	452	< 1	14	7	309	2.55	20	< 10	21	< 0.5	6	1.18	10
1323019036	42.3	28.5	-13.8	47.5	0.600	8.54	54	0.5	< 0.5	25	659	< 1	12	4	106	1.88	10	< 10	27	< 0.5	4	1.51	10
1229066007	203	6.50	-197	214	0.0304	8.56	764	16.1	9.0	390	509	1	21	478	2110	1.07	532	< 10	< 10	< 0.5	7	0.26	11
GC20-0398-001							82	2.7	0.7	36	1410	< 1	12	37	204	0.73	114	< 10	17	< 0.5	< 2	2.94	9
GC20-0401-005							90	1.1	1.2	9	1250	< 1	10	42	330	0.92	78	< 10	27	< 0.5	< 2	2.62	6
GC20-0402-010							77	0.5	< 0.5	21	591	< 1	9	14	97	2.90	29	< 10	54	< 0.5	< 2	1.69	7
1323022095	13.4	9.00	-4.44	13.2	0.684	7.78	9	< 0.2	< 0.5	37	323	< 1	13	2	75	3.45	< 2	< 10	98	< 0.5	3	1.47	11
GC20-0399-005							89	2.7	0.7	29	1690	< 1	11	26	219	1.03	134	< 10	34	< 0.5	< 2	3.37	6
GC20-0400-001							179	1.8	1.8	23	476	1	13	179	421	0.68	77	< 10	19	< 0.5	< 2	1.15	9
GC20-0339-009							340	3.6	5.0	94	739	< 1	20	99	1170	1.33	222	< 10	15	< 0.5	< 2	0.40	10
1322020358	44.6	33.7	-10.9	49.3	0.683	8.78	147	0.7	2.3	35	981	< 1	18	103	535	2.90	42	< 10	31	< 0.5	2	2.29	10
1323019050	30.0	69.6	39.7	36.4	1.91	8.46	76	1.1	< 0.5	210	571	< 1	120	15	75	2.27	6	< 10	34	< 0.5	3	2.77	21
1322020357	42.7	37.5	-5.23	49.0	0.765	8.77	206	1.2	6.2	80	939	< 1	14	116	1260	2.73	34	< 10	26	< 0.5	< 2	2.38	9
1322020145	64.5	17.4	-47.1	71.1	0.244	8.66	116	1.3	3.2	48	598	< 1	16	35	768	2.71	35	< 10	22	< 0.5	3	1.70	10
1322020205	34.4	7.71	-26.6	42.0	0.184	8.43	1370	0.6	6.2	31	441	< 1	14	8	1300	1.94	38	< 10	24	< 0.5	3	0.53	11
1229067499	125	11.5	-113	154	0.0746	8.41	617	73.3	38.7	383	998	< 1	19	> 5000	8600	1.57	354	< 10	< 10	< 0.5	3	0.47	11
1322020224	55.6	15.7	-39.9	63.1	0.249	8.16	262	2.8	2.7	24	632	< 1	14	43	641	2.11	38	< 10	30	< 0.5	2	1.18	9
F001613							1030	2.9	< 0.5	31	251	< 1	9	17	43	1.27	< 2	< 10	38	< 0.5	< 2	0.79	10
1323019078	33.6	53.1	19.5	40.1	1.32	8.32	410	1.0	< 0.5	237	576	< 1	75	< 2	53	2.36	9	< 10	42	< 0.5	2	2.26	14
GC20-0367-001							11	0.2	< 0.5	8	188	< 1	12	4	82	1.51	8	< 10	72	< 0.5	< 2	0.11	6
GC20-0368-013							213	2.7	6.3	23	350	< 1	9	89	1680	0.86	30	< 10	44	< 0.5	< 2	0.69	4

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GC20-0370-009							444	2.4	8.7	46	350	< 1	10	69	2240	0.95	74	< 10	32	< 0.5	< 2	0.71	10
1323022075	43.9	10.2	-33.7	59.7	0.171	8.66	58	0.8	< 0.5	30	346	1	17	5	80	1.91	25	19	34	< 0.5	5	0.86	11
GC20-0370-006							289	1.7	4.3	38	252	2	13	48	1080	0.88	60	< 10	34	< 0.5	< 2	0.45	11
1323019095	57.4	34.8	-22.6	69.2	0.502	8.20	153	1.4	< 0.5	45	577	1	62	3	165	2.08	12	< 10	31	< 0.5	< 2	1.80	33
1230068051	3.95	33.3	29.4	10.1	3.30	8.39	< 5	0.3	< 0.5	12	488	< 1	16	5	111	1.35	8	< 10	81	< 0.5	< 2	1.47	9
GC20-0364-002							526	2.3	11.7	49	326	< 1	5	96	3110	0.51	67	< 10	38	< 0.5	< 2	1.02	2
GC20-0363-007							406	5.8	11.4	66	292	< 1	10	153	3050	0.63	76	< 10	37	< 0.5	< 2	0.68	5
GC20-0379-008							213	29.2	0.6	9	1160	1	13	143	250	0.78	33	< 10	46	< 0.5	2	1.60	10
1323018062	36.2	41.9	5.68	44.4	0.944	8.70	83	1.7	< 0.5	82	372	< 1	9	7	153	1.23	4	< 10	18	< 0.5	13	1.78	6
1323018177	69.8	13.8	-55.9	79.0	0.175	8.39	263	0.8	< 0.5	169	354	1	14	5	67	2.66	13	< 10	22	< 0.5	7	0.90	10
GC20-0382-004							101	10.2	1.2	10	1320	2	14	43	322	0.61	70	< 10	20	< 0.5	< 2	1.29	11
GC20-0381-001							222	7.0	1.3	15	847	< 1	11	35	319	0.82	62	< 10	24	< 0.5	< 2	1.71	9
GC20-0380-001							344	16.1	< 0.5	27	760	< 1	11	61	167	0.84	31	< 10	44	< 0.5	2	1.75	9
1230068127	3.12	30.2	27.1	3.06	9.85	9.31	8	< 0.2	< 0.5	19	417	< 1	18	2	112	1.99	4	< 10	97	< 0.5	< 2	1.57	11
GC20-0372-003							109	11.9	< 0.5	19	1020	1	11	35	83	0.75	35	< 10	31	< 0.5	3	1.71	10
1433094599	52.1	83.2	31.2	67.1	1.24	8.48	458	3.3	0.9	52	1540	< 1	12	8	221	3.30	14	< 10	31	< 0.5	< 2	3.20	29
12529066288	25.7	18.3	-7.40	37.4	0.490	8.51	109	0.9	2.6	49	1140	< 1	10	27	510	1.93	38	< 10	35	< 0.5	< 2	1.00	10
F001614							1910	4.2	< 0.5	24	206	16	7	22	38	1.31	< 2	< 10	40	< 0.5	< 2	0.80	6
GC20-0405-001							401	1.5	19.1	76	431	3	22	40	4330	1.48	59	< 10	32	< 0.5	< 2	0.74	11
1322020041	55.3	42.9	-12.4	69.2	0.620	8.77	1350	17.9	3.3	111	1150	1	15	371	890	0.91	36	< 10	28	< 0.5	< 2	1.62	10
1229067420	32.0	50.8	18.8	42.9	1.18	9.16	218	3.1	0.9	21	1450	< 1	22	62	268	3.13	77	< 10	44	< 0.5	2	2.46	11
1229067567	42.0	55.8	13.9	49.0	1.14	9.06	100	2.3	< 0.5	21	1500	1	20	48	151	2.19	36	< 10	39	< 0.5	< 2	2.43	10
GC20-0335-009FD							832	17.7	17.8	2170	299	2	13	39	3160	0.95	769	< 10	< 10	< 0.5	11	0.25	11
GC20-0395-003							312	1.0	1.3	41	978	< 1	25	7	338	2.47	254	10	37	< 0.5	< 2	2.14	16
GC20-0341-005							3410	4.3	12.0	179	1090	5	14	403	2720	1.71	87	< 10	25	< 0.5	3	0.38	11
1229067596	121	7.36	-113	128	0.0573	8.44	299	4.4	4.2	160	800	2	19	263	956	1.54	209	< 10	18	< 0.5	4	0.48	11
1229067491	43.8	78.8	35.0	52.4	1.51	8.90	131	5.2	1.2	36	2080	< 1	20	129	345	2.07	55	< 10	36	< 0.5	< 2	2.86	10
1322020084	61.3	71.1	9.73	68.6	1.04	8.87	572	9.8	2.3	39	1990	1	14	87	514	0.99	27	< 10	31	< 0.5	< 2	2.54	10
1322020166	63.4	33.5	-29.9	70.4	0.476	8.70	614	4.3	6.9	47	912	< 1	14	37	1550	1.36	43	< 10	27	< 0.5	3	1.54	10
1322020093	63.8	36.6	-27.2	69.5	0.527	8.66	508	4.2	2.6	51	1060	2	16	148	660	2.14	39	< 10	33	< 0.5	2	2.10	10
1229067634	213	6.48	-206	226	0.0287	7.64	608	15.6	11.4	376	521	< 1	22	657	2500	1.13	579	< 10	< 10	< 0.5	8	0.23	11
1322020108	56.0	52.8	-3.20	62.5	0.846	8.41	558	9.4	2.8	70	1680	2	16	90	627	1.09	43	< 10	30	< 0.5	3	1.90	10
GC20-0404-002							168	2.0	5.3	25	363	< 1	11	543	1250	0.92	57	< 10	32	< 0.5	3	0.85	10
1433094534	33.6	57.8	24.2	44.4	1.30	8.13	175	0.9	0.9	74	1780	< 1	10	8	234	3.40	20	< 10	28	< 0.5	< 2	3.37	23
1322002154	37.1	8.34	-28.7	39.8	0.209	8.64	51	0.4	< 0.5	29	484	< 1	15	16	80	2.83	12	< 10	43	< 0.5	3	1.36	11
1322002193	58.1	16.4	-41.7	62.5	0.262	8.41	287	1.8	1.0	18	583	1	16	25	264	2.43	21	< 10	32	< 0.5	2	1.65	9
1323023022	47.8	14.1	-33.7	52.7	0.267	8.56	749	1.3	< 0.5	267	486	1	19	32	92	2.01	15	12	31	< 0.5	7	0.88	10
1322002177	80.2	20.0	-60.2	84.2	0.238	8.31	69	2.8	< 0.5	58	545	< 1	12	16	154	1.57	15	< 10	15	< 0.5	11	1.02	13
1323023094	10.5	63.2	52.7	14.4	4.39	8.92	182	0.9	< 0.5	81	680	< 1	56	5	106	2.71	6	< 10	45	< 0.5	< 2	2.82	22
1433094207	110	98.4	-11.9	140	0.703	8.54	174	0.7	< 0.5	54	1710	< 1	4	< 2	140	3.64	26	< 10	24	< 0.5	3	3.85	32
1433094451	80.1	71.2	-8.87	99.2	0.718	8.27	129	1.0	< 0.5	61	1420	2	54	4	174	3.55	20	< 10	13	< 0.5	< 2	3.55	27
F002436							1030	3.0	< 0.5	32	261	< 1	9	18	44	1.38	< 2	< 10	42	< 0.5	< 2	0.86	11
1433094463	48.9	38.3	-10.7	55.4	0.690	8.55	381	1.5	< 0.5	31	986	< 1	16	5	147	1.60	17	< 10	22	< 0.5	< 2	1.93	9
1433094415	114	94.3	-19.9	143	0.661	8.54	218	1.0	< 0.5	31	1370	< 1	16	3	112	3.08	30	< 10	13	< 0.5	< 2	2.99	34
1322002112	25.1	19.4	-5.69	28.2	0.689	8.72	38	0.3	< 0.5	30	494	< 1	13	14	56	2.38	17	< 10	41	< 0.5	4	1.58	9
1322002025	28.6	12.2	-16.4	33.4	0.366	8.80	213	0.9	< 0.5	48	390	3	13	13	170	2.98	23	< 10	49	< 0.5	5	1.71	11
GC20-0428-001							539	2.1	9.9	59	747	< 1	15	88	2070	1.54	2400	< 10	41	< 0.5	2	1.43	10
1322002078	13.5	18.0	4.46	17.8	1.01	8.98	31	0.3	< 0.5	25	669	1	12	9	161	2.92	14	< 10	49	< 0.5	< 2	1.64	14

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1323023049	40.4	9.12	-31.3	43.5	0.210	8.69	149	0.6	< 0.5	72	220	1	14	21	137	1.82	18	< 10	35	< 0.5	5	0.77	9
1322002084	47.5	13.8	-33.7	50.8	0.272	8.37	91	0.9	< 0.5	27	202	2	13	11	95	2.25	19	< 10	36	< 0.5	2	1.11	11
GC20-0426-007							2100	3.9	21.1	51	297	< 1	17	105	4490	0.87	1430	< 10	19	< 0.5	< 2	0.86	12
1323023105	25.3	15.5	-9.81	29.1	0.533	8.72	92	0.4	< 0.5	84	515	2	14	3	94	2.89	9	< 10	51	< 0.5	2	1.26	11
GC20-0420-001							110	2.0	0.8	105	836	< 1	14	31	256	1.34	42	< 10	42	< 0.5	< 2	1.63	10
GC20-0418-001							17	0.6	< 0.5	39	169	< 1	12	6	38	2.06	29	< 10	20	< 0.5	2	0.40	8
1322002050	5.62	9.74	4.12	8.57	1.14	9.14	6	< 0.2	< 0.5	18	413	< 1	9	2	39	2.71	4	< 10	51	< 0.5	< 2	1.14	6
1322002001	60.4	13.2	-47.2	64.3	0.205	8.64	98	0.7	0.7	84	378	2	13	8	204	2.24	44	< 10	29	< 0.5	3	1.02	10
1323023148	57.7	12.1	-45.6	62.8	0.192	8.67	208	1.0	2.1	32	687	< 1	15	52	568	2.59	34	11	33	< 0.5	4	0.99	9
1323023120	32.5	16.9	-15.6	31.9	0.532	8.97	37	0.2	< 0.5	22	564	< 1	14	6	116	1.16	11	< 10	49	< 0.5	2	0.76	9
1323023209	43.8	17.5	-26.3	47.8	0.366	8.85	119	1.6	1.9	99	509	3	14	12	553	2.40	13	< 10	44	< 0.5	< 2	1.50	9
GC20-0429-004							978	0.8	7.8	79	571	< 1	15	12	1930	1.06	98	< 10	27	< 0.5	< 2	1.31	10
1323023157	34.3	12.8	-21.4	38.0	0.338	8.44	485	0.9	< 0.5	174	565	2	15	10	123	3.02	12	< 10	44	< 0.5	< 2	1.64	11
1322002093	44.2	25.8	-18.4	49.0	0.526	8.50	132	0.6	1.0	42	477	< 1	15	8	235	1.81	19	< 10	34	< 0.5	3	1.55	11
1323023222	70.2	14.5	-55.7	76.3	0.190	8.22	138	1.0	2.2	136	406	3	15	22	710	2.39	35	10	23	< 0.5	5	1.22	11
1322002191	59.8	36.2	-23.6	65.5	0.552	8.71	268	1.5	1.2	16	808	< 1	14	13	275	2.01	22	< 10	27	< 0.5	2	1.94	9
F002437							963	1.6	< 0.5	50	224	11	10	19	40	1.36	< 2	< 10	46	< 0.5	< 2	0.88	9
1322005278	33.2	12.7	-20.5	36.8	0.346	8.66	37	0.6	< 0.5	130	286	7	18	< 2	113	3.51	7	< 10	36	< 0.5	2	1.69	8
1323024106	27.5	6.47	-21.0	27.0	0.240	8.58	169	0.4	< 0.5	104	278	1	16	< 2	30	2.51	3	< 10	43	< 0.5	3	0.46	8
1322003076	43.6	38.1	-5.54	47.2	0.808	8.63	154	1.0	0.8	32	721	< 1	24	12	228	3.09	21	< 10	38	< 0.5	4	2.44	10
1322005280	41.2	12.6	-28.6	46.5	0.271	8.97	48	1.1	< 0.5	240	282	14	12	4	84	3.05	8	< 10	35	< 0.5	2	1.61	10
1323024100	17.8	14.1	-3.67	17.5	0.810	8.91	35	0.2	< 0.5	18	445	1	13	4	69	2.54	7	< 10	46	< 0.5	2	0.87	9
1322004117	72.7	3.11	-69.6	77.5	0.0402	8.28	318	0.7	< 0.5	139	342	2	16	5	54	3.29	8	< 10	24	< 0.5	5	1.18	10
1322004056	50.5	10.9	-39.6	54.5	0.201	8.52	268	0.8	< 0.5	165	479	3	20	6	65	2.31	10	< 10	29	< 0.5	2	1.26	10
1323024102	21.6	19.9	-1.69	25.7	0.772	8.81	328	0.6	< 0.5	46	386	1	20	3	72	2.89	10	< 10	68	< 0.5	4	0.81	10
1322003059	38.3	7.21	-31.1	41.3	0.174	8.73	49	0.3	0.6	24	359	1	16	< 2	234	2.57	3	< 10	35	< 0.5	3	0.66	9
1322004116	64.3	8.75	-55.5	68.9	0.127	8.58	363	0.7	< 0.5	107	408	1	14	4	67	3.32	6	< 10	27	< 0.5	3	1.37	9
GC20-0414-001							600	7.1	6.0	371	716	1	20	390	1260	1.72	311	< 10	< 10	< 0.5	4	0.73	10
GC20-0939-023							< 5	< 0.2	< 0.5	107	451	< 1	49	< 2	38	5.84	< 2	< 10	13	< 0.5	2	3.83	19
1322005192	5.31	5.72	0.412	5.21	1.10	8.64	< 5	0.2	< 0.5	159	409	1	55	< 2	43	5.70	< 2	< 10	13	< 0.5	< 2	3.75	20
1322004031	70.4	20.5	-49.9	76.6	0.267	8.46	59	0.6	2.5	38	479	< 1	11	7	542	1.68	10	< 10	22	< 0.5	3	1.14	9
1322005317	54.7	15.6	-39.1	60.0	0.260	8.45	64	0.3	< 0.5	30	274	1	14	2	81	3.02	11	< 10	33	< 0.5	2	1.54	10
1322005162	48.1	6.12	-42.0	52.1	0.118	8.68	30	0.3	< 0.5	58	179	3	16	< 2	36	3.60	9	< 10	31	< 0.5	6	1.40	8
1322004058	44.5	50.1	5.62	48.1	1.04	8.38	310	0.7	< 0.5	160	431	3	17	5	68	2.30	11	< 10	33	< 0.5	2	1.45	11
1322005105	58.6	10.8	-47.9	63.1	0.170	8.53	41	< 0.2	< 0.5	11	194	1	15	6	33	3.07	3	< 10	30	< 0.5	5	1.49	10
GC20-04187-002							240	1.2	8.4	16	220	1	16	34	1990	1.33	61	< 10	< 10	0.5	2	0.41	10
GC20-0416-009							712	12.2	1.0	39	441	< 1	13	46	310	0.74	115	< 10	30	< 0.5	< 2	0.78	7
1322005075	34.4	9.86	-24.5	37.1	0.266	8.69	16	0.2	< 0.5	86	180	2	20	< 2	29	1.78	3	< 10	34	< 0.5	< 2	0.84	11
1322004025	59.9	6.11	-53.8	64.0	0.0954	8.29	1170	3.7	< 0.5	374	367	3	14	6	50	2.28	10	< 10	26	< 0.5	5	0.75	11
GC20-0934-021							620	2.0	< 0.5	482	431	3	12	8	53	2.02	16	< 10	30	< 0.5	7	1.14	11
GC20-1011-017							357	0.3	< 0.5	64	581	< 1	16	4	61	2.57	7	< 10	51	< 0.5	< 2	1.45	8
GC20-0307-016							181	3.5	< 0.5	15	1740	< 1	20	23	145	2.11	70	< 10	28	< 0.5	3	2.66	10
F002438							745	4.5	< 0.5	28	230	< 1	8	11	38	1.35	< 2	< 10	42	< 0.5	< 2	0.76	10
1322005295	7.19	8.85	1.66	7.04	1.26	8.91	24	0.2	< 0.5	143	460	< 1	51	< 2	56	5.28	< 2	< 10	18	< 0.5	< 2	3.41	22

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1322020001	143	2.13	< 10	< 1	0.33	11	0.68	0.027	0.050	1.72	3	< 1	26	< 0.01	1	< 2	< 10	7	< 10	2	7	0.68	1.63
1229066248	91	2.00	< 10	< 1	0.35	17	0.85	0.057	0.046	0.81	< 2	< 1	29	0.01	2	< 2	< 10	11	< 10	2	4	0.21	0.77
1322020512	189	3.47	< 10	< 1	0.29	11	1.39	0.025	0.038	1.49	3	1	20	0.01	< 1	< 2	< 10	12	< 10	2	12	0.28	1.44
1229066233	205	2.42	< 10	< 1	0.30	18	1.15	0.146	0.052	2.02	< 2	< 1	44	< 0.01	< 1	< 2	< 10	12	< 10	3	4	0.78	1.92
1229066160	151	2.51	< 10	< 1	0.37	12	0.98	0.058	0.055	2.37	3	< 1	27	< 0.01	1	< 2	< 10	10	< 10	3	4	0.87	2.35
GC20-0388-001	182	1.98	< 10	< 1	0.32	13	0.15	0.016	0.043	2.17	< 2	< 1	24	< 0.01	2	< 2	< 10	4	< 10	2	9		
1229066328	238	1.90	< 10	< 1	0.32	17	0.46	0.053	0.049	0.59	< 2	< 1	23	0.06	1	< 2	< 10	14	10	2	4	0.44	0.60
1322020431	240	3.16	< 10	< 1	0.39	15	0.78	0.025	0.041	2.81	2	< 1	29	0.05	< 1	< 2	< 10	10	< 10	2	21	0.25	2.79
GC20-0384-013	231	1.44	< 10	< 1	0.37	14	0.23	0.020	0.037	1.37	3	< 1	91	< 0.01	< 1	< 2	< 10	4	< 10	2	7		
GC20-0386-010	442	4.46	< 10	2	1.25	34	2.73	0.030	0.158	1.43	2	8	294	0.13	< 1	< 2	< 10	81	< 10	5	8		
GC20-0376-008	139	1.50	< 10	< 1	0.56	19	0.21	0.027	0.052	1.23	< 2	< 1	77	0.02	< 1	< 2	< 10	7	< 10	2	5		
1229066152	94	2.45	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	< 2	< 1	18	< 0.01	< 1	< 2	< 10	10	< 10	2	12	0.57	2.37
GC20-0374-001	269	1.87	< 10	< 1	0.33	12	0.07	0.022	0.035	1.81	3	< 1	12	< 0.01	< 1	< 2	< 10	6	< 10	1	10		
GC20-0378-004	147	1.00	< 10	< 1	0.31	< 10	0.11	0.023	0.031	0.57	< 2	< 1	10	< 0.01	< 1	< 2	< 10	4	< 10	< 1	6		
GC20-0375-009FD	152	0.98	< 10	< 1	0.11	< 10	0.24	0.053	0.034	0.22	< 2	< 1	36	< 0.01	< 1	< 2	< 10	9	< 10	< 1	3		
1323022001	158	2.27	< 10	< 1	0.14	16	0.90	0.184	0.050	0.55	< 2	1	244	0.03	2	< 2	< 10	16	< 10	2	2	0.17	0.54
1229066262	102	1.91	< 10	< 1	0.38	16	0.45	0.050	0.044	1.42	4	< 1	31	< 0.01	< 1	< 2	< 10	7	< 10	2	7	0.52	1.35
1229066187	139	2.18	< 10	< 1	0.33	17	0.68	0.030	0.042	1.27	< 2	< 1	12	0.01	1	< 2	< 10	11	< 10	2	5	0.22	1.23
1322020183	202	1.81	< 10	< 1	0.19	< 10	0.25	0.030	0.044	0.83	< 2	< 1	21	< 0.01	2	< 2	< 10	9	< 10	1	2	0.10	0.78
1229066033	299	7.55	< 10	3	0.25	11	0.38	0.029	0.041	9.66	9	< 1	6	< 0.01	1	< 2	< 10	7	< 10	1	12	0.12	9.36
1229066120	171	2.25	< 10	< 1	0.34	18	1.05	0.045	0.054	2.03	< 2	< 1	21	< 0.01	< 1	< 2	< 10	9	< 10	3	6	0.95	1.91
F0016162	12	1.96	< 10	< 1	0.25	13	0.40	0.234	0.037	0.03	< 2	2	33	0.31	4	< 2	< 10	49	< 10	15	8		
1323022065	287	4.51	< 10	< 1	0.04	< 10	1.93	0.353	0.021	0.13	< 2	4	90	0.21	1	< 2	< 10	115	< 10	3	3	0.24	0.19
1229066080	136	2.25	< 10	< 1	0.36	21	1.21	0.079	0.057	1.67	< 2	1	25	< 0.01	2	< 2	< 10	13	< 10	3	3	0.80	1.71
1433094062	161	2.47	< 10	< 1	0.20	12	0.93	0.061	0.045	1.37	3	1	27	0.01	2	< 2	< 10	16	< 10	3	6	1.00	1.35
1229066186	110	2.08	< 10	< 1	0.44	16	0.83	0.153	0.045	0.80	< 2	1	63	0.04	< 1	< 2	< 10	15	< 10	2	3	0.22	0.79
1322020285	186	2.21	< 10	< 1	0.29	13	1.16	0.095	0.041	1.61	< 2	< 1	65	< 0.01	1	< 2	< 10	10	< 10	2	6	0.63	1.58
1323019117	172	2.58	< 10	< 1	0.34	12	1.07	0.163	0.039	1.89	< 2	1	61	0.04	1	< 2	< 10	13	< 10	3	10	0.18	1.81
1323019036	203	2.07	< 10	< 1	0.28	16	0.89	0.125	0.051	1.61	< 2	< 1	46	0.02	2	< 2	< 10	12	< 10	2	8	0.36	1.55
1229066007	211	5.81	< 10	2	0.27	16	0.61	0.032	0.050	7.58	10	< 1	7	< 0.01	< 1	< 2	< 10	8	< 10	2	12	0.10	6.98
GC20-0398-001	163	2.70	< 10	< 1	0.23	15	0.28	0.022	0.043	3.12	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	9		
GC20-0401-005	133	1.19	< 10	< 1	0.32	16	0.28	0.030	0.045	1.13	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	4		
GC20-0402-010	140	1.83	< 10	< 1	0.39	15	0.89	0.126	0.040	0.43	< 2	1	55	0.06	< 1	< 2	< 10	17	< 10	2	3		
1323022095	117	2.19	< 10	< 1	0.38	15	0.89	0.217	0.045	0.41	< 2	2	121	0.03	< 1	< 2	< 10	30	< 10	3	2	0.14	0.43
GC20-0399-005	169	1.11	< 10	< 1	0.40	16	0.26	0.031	0.045	0.93	< 2	< 1	35	< 0.01	< 1	< 2	< 10	5	< 10	2	4		
GC20-0400-001	166	1.95	< 10	< 1	0.25	16	0.17	0.025	0.046	2.18	< 2	< 1	21	< 0.01	1	< 2	< 10	4	< 10	1	8		
GC20-0339-009	127	3.98	< 10	2	0.24	16	1.02	0.025	0.051	4.25	3	< 1	6	< 0.01	1	< 2	< 10	9	< 10	1	9		
1322020358	281	2.37	< 10	< 1	0.31	13	1.02	0.143	0.042	1.68	3	< 1	64	< 0.01	< 1	< 2	< 10	12	< 10	2	7	0.53	1.61
1323019050	298	2.66	< 10	< 1	0.31	15	1.86	0.085	0.074	1.16	< 2	5	115	< 0.01	2	< 2	< 10	41	< 10	4	2	1.17	1.19
1322020357	150	2.35	< 10	< 1	0.25	13	1.14	0.090	0.043	1.73	< 2	< 1	50	< 0.01	< 1	< 2	< 10	11	< 10	2	6	0.54	1.60
1322020145	201	2.52	< 10	< 1	0.29	15	0.87	0.222	0.046	2.40	< 2	< 1	97	0.05	< 1	< 2	< 10	9	< 10	2	9	0.30	2.32
1322020205	204	2.13	< 10	< 1	0.21	13	0.43	0.050	0.047	1.31	< 2	< 1	51	< 0.01	2	< 2	< 10	10	< 10	2	9	0.16	1.37
1229067499	175	4.11	< 10	3	0.32	15	1.11	0.030	0.063	5.07	12	< 1	9	< 0.01	5	< 2	< 10	10	< 10	2	11	0.19	5.03
1322020224	161	2.15	< 10	1	0.38	15	0.72	0.090	0.048	2.17	< 2	< 1	42	0.03	3	< 2	< 10	8	< 10	2	13	0.24	2.06
F001613	14	2.06	< 10	< 1	0.19	14	0.37	0.216	0.038	0.03	< 2	2	35	0.31	3	< 2	< 10	53	< 10	15	15		
1323019078	276	2.91	< 10	< 1	0.18	17	1.74	0.097	0.062	1.31	< 2	3	76	0.02	1	< 2	< 10	27	< 10	3	6	0.71	1.31
GC20-0367-001	210	0.97	< 10	< 1	0.46	< 10	0.12	0.038	0.034	0.20	< 2	< 1	20	< 0.01	< 1	< 2	< 10	7	< 10	< 1	4		
GC20-0368-013	121	0.91	< 10	< 1	0.28	19	0.14	0.043	0.057	0.99	< 2	< 1	29	< 0.01	< 1	< 2	< 10	4	< 10	2	4		
GC20-0370-009	121	1.95	< 10	< 1	0.19	14	0.27	0.035	0.041	1.99	< 2	< 1	25	< 0.01	< 1	< 2	< 10	5	< 10	1	8		
1323022075	185	2.45	< 10	< 1	0.23	15	0.84	0.072	0.046	2.10	< 2	< 1	74	0.01	1	< 2	< 10	11	< 10	2	15	0.22	1.95

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0370-006	191	1.81	< 10	< 1	0.32	15	0.21	0.028	0.048	1.76	< 2	< 1	17	< 0.01	< 1	< 2	< 10	6	< 10	1	9		
1323019095	380	3.58	< 10	2	0.32	13	1.13	0.118	0.079	2.28	< 2	5	57	0.09	3	< 2	< 10	70	< 10	6	13	0.45	2.26
1230068051	282	1.82	< 10	< 1	0.43	15	0.66	0.086	0.043	0.32	< 2	2	27	0.09	1	< 2	< 10	22	< 10	3	7	0.43	0.33
GC20-0364-002	113	0.89	< 10	< 1	0.20	26	0.15	0.020	0.049	1.05	< 2	< 1	16	< 0.01	2	< 2	< 10	3	< 10	1	7		
GC20-0363-007	194	1.32	< 10	< 1	0.27	17	0.11	0.025	0.037	1.50	3	< 1	13	< 0.01	< 1	< 2	< 10	4	< 10	< 1	8		
GC20-0379-008	221	1.47	< 10	< 1	0.43	16	0.18	0.018	0.040	1.57	2	< 1	135	< 0.01	2	< 2	< 10	5	< 10	2	13		
1323018062	191	2.16	< 10	< 1	0.35	36	0.48	0.049	0.063	1.50	< 2	< 1	74	< 0.01	2	< 2	< 10	7	< 10	4	5	0.57	1.45
1323018177	259	3.77	< 10	2	0.32	17	1.38	0.137	0.044	2.55	4	1	70	< 0.01	< 1	< 2	< 10	13	< 10	3	20	0.24	2.58
GC20-0382-004	201	2.92	< 10	< 1	0.33	12	0.32	0.014	0.040	3.41	3	< 1	47	< 0.01	2	< 2	< 10	4	< 10	2	11		
GC20-0381-001	194	2.21	< 10	2	0.30	14	0.37	0.016	0.045	2.20	3	< 1	22	< 0.01	< 1	< 2	< 10	5	< 10	1	11		
GC20-0380-001	150	1.50	< 10	< 1	0.43	14	0.10	0.022	0.042	1.42	5	< 1	58	< 0.01	1	< 2	< 10	5	10	2	9		
1230068127	299	2.29	< 10	< 1	0.40	20	0.87	0.120	0.053	0.09	< 2	2	92	0.11	2	< 2	< 10	33	< 10	4	6	0.42	0.10
GC20-0372-003	114	1.54	< 10	< 1	0.28	17	0.36	0.017	0.047	1.44	< 2	< 1	39	< 0.01	1	< 2	< 10	4	< 10	2	7		
1433094599	105	8.94	10	1	0.28	< 10	1.87	0.159	0.074	2.03	4	16	61	0.15	< 1	< 2	< 10	206	< 10	9	7	1.40	2.19
12529066288	83	2.27	< 10	< 1	0.32	16	1.07	0.036	0.077	1.23	< 2	< 1	22	0.02	1	< 2	< 10	13	< 10	2	2	0.28	1.22
F001614	13	1.47	< 10	< 1	0.21	19	0.35	0.208	0.042	0.04	< 2	2	37	0.21	2	< 2	< 10	39	< 10	15	6		
GC20-0405-001	278	2.21	< 10	< 1	0.40	16	0.49	0.087	0.051	2.07	< 2	1	40	0.02	3	< 2	< 10	14	< 10	2	16		
1322020041	210	2.08	< 10	< 1	0.28	15	0.42	0.038	0.046	2.29	5	< 1	35	< 0.01	8	< 2	< 10	5	< 10	2	15	0.69	2.26
1229067420	97	2.36	< 10	< 1	0.64	18	1.34	0.242	0.051	1.47	< 2	1	57	0.04	2	< 2	< 10	19	< 10	3	6	0.58	1.40
1229067567	280	2.19	< 10	< 1	0.41	17	1.15	0.177	0.051	1.58	< 2	1	80	0.01	< 1	< 2	< 10	15	< 10	2	4	0.81	1.60
GC20-0335-009FD	126	5.82	< 10	3	0.25	15	0.47	0.024	0.046	7.45	19	< 1	8	< 0.01	< 1	< 2	< 10	7	< 10	2	16		
GC20-0395-003	131	3.00	< 10	< 1	0.35	< 10	0.63	0.213	0.035	1.68	< 2	4	83	0.07	2	< 2	< 10	47	< 10	3	16		
GC20-0341-005	125	3.08	< 10	< 1	0.28	19	1.22	0.019	0.069	2.77	3	< 1	8	< 0.01	1	< 2	< 10	12	< 10	2	13		
1229067596	160	4.39	< 10	1	0.23	14	0.96	0.050	0.059	4.54	3	< 1	11	0.01	< 1	< 2	< 10	16	< 10	2	12	0.14	4.19
1229067491	136	2.22	< 10	< 1	0.46	17	1.35	0.094	0.048	1.75	< 2	1	36	< 0.01	< 1	< 2	< 10	12	< 10	3	8	1.10	1.71
1322020084	181	2.09	< 10	< 1	0.31	12	0.54	0.037	0.044	2.36	2	< 1	48	< 0.01	7	< 2	< 10	5	< 10	2	15	0.95	2.24
1322020166	135	2.18	< 10	< 1	0.29	15	0.67	0.055	0.045	2.47	< 2	< 1	33	< 0.01	3	< 2	< 10	5	< 10	2	10	0.51	2.30
1322020093	224	2.34	< 10	< 1	0.25	17	0.72	0.149	0.048	2.38	3	< 1	121	< 0.01	2	< 2	< 10	8	< 10	3	11	0.50	2.27
1229067634	278	6.07	< 10	2	0.30	< 10	0.59	0.029	0.047	7.67	9	< 1	7	< 0.01	< 1	< 2	< 10	9	< 10	1	11	0.13	7.37
1322020108	261	2.01	< 10	< 1	0.33	13	0.58	0.044	0.045	2.18	5	< 1	50	< 0.01	6	< 2	< 10	6	< 10	2	12	0.81	2.04
GC20-0404-002	87	1.54	< 10	< 1	0.37	15	0.14	0.031	0.047	1.74	2	< 1	23	< 0.01	< 1	< 2	< 10	6	< 10	1	10		
1433094534	107	8.27	10	< 1	0.28	< 10	1.72	0.158	0.102	1.33	3	11	60	0.15	< 1	< 2	< 10	90	< 10	13	8	1.42	1.45
1322002154	311	2.12	< 10	< 1	0.21	17	0.62	0.246	0.053	1.30	< 2	1	169	< 0.01	< 1	< 2	< 10	12	< 10	3	5	0.22	1.30
1322002193	254	2.18	< 10	< 1	0.29	15	0.83	0.116	0.045	2.05	< 2	< 1	54	0.03	3	< 2	< 10	8	< 10	2	8	0.35	2.04
1323023022	391	3.10	< 10	< 1	0.24	13	0.77	0.116	0.039	1.76	< 2	1	49	0.02	< 1	< 2	< 10	14	< 10	2	10	0.33	1.72
1322002177	84	2.52	< 10	< 1	0.17	13	0.47	0.065	0.044	2.83	< 2	< 1	46	< 0.01	6	< 2	< 10	8	< 10	2	14	0.32	2.75
1323023094	240	4.16	< 10	< 1	1.24	60	2.22	0.087	0.193	0.42	< 2	8	228	0.18	1	< 2	< 10	93	< 10	7	6	0.79	0.47
1433094207	73	10.9	10	2	0.15	< 10	1.91	0.177	0.112	4.44	3	13	93	0.15	< 1	< 2	< 10	109	< 10	16	12	1.65	4.57
1433094451	115	7.70	< 10	< 1	0.47	< 10	2.20	0.176	0.061	3.15	3	10	88	0.14	< 1	< 2	< 10	151	< 10	8	7	1.51	3.24
F002436	15	2.16	< 10	< 1	0.20	15	0.39	0.236	0.038	0.03	< 2	2	38	0.33	4	< 2	< 10	55	< 10	15	8		
1433094463	222	2.88	< 10	< 1	0.32	14	0.97	0.087	0.043	1.83	2	< 1	32	< 0.01	2	< 2	< 10	11	< 10	3	11	0.84	1.81
1433094415	108	10.9	10	< 1	0.17	< 10	1.96	0.077	0.105	4.33	3	14	66	0.12	< 1	< 2	< 10	140	11	13	13	1.28	4.66
1322002112	287	1.89	< 10	< 1	0.18	16	0.47	0.267	0.053	0.91	< 2	< 1	198	< 0.01	< 1	< 2	< 10	11	< 10	2	4	0.31	0.92
1322002025	246	2.20	< 10	< 1	0.26	15	0.56	0.210	0.050	1.10	< 2	< 1	178	0.01	2	< 2	< 10	11	< 10	2	3	0.15	1.09
GC20-0428-001	221	1.82	< 10	< 1	0.63	19	0.33	0.030	0.054	1.29	4	1	24	< 0.01	< 1	< 2	< 10	10	< 10	2	6		
1322002078	140	2.27	< 10	< 1	0.21	16	0.47	0.239	0.046	0.56	< 2	< 1	221	0.06	< 1	< 2	< 10	13	< 10	2	3	0.20	0.58
1323023049	229	1.66	< 10	< 1	0.29	14	0.52	0.067	0.046	1.52	< 2	< 1	75	< 0.01	< 1	< 2	< 10	8	< 10	2	4	0.14	1.42
1322002084	153	1.80	< 10	< 1	0.21	15	0.22	0.250	0.045	1.65	< 2	< 1	194	< 0.01	1	< 2	< 10	8	< 10	2	7	0.06	1.66
GC20-0426-007	184	3.26	< 10	3	0.36	14	0.15	0.026	0.042	4.13	3	< 1	16	< 0.01	< 1	< 2	< 10	6	< 10	2	14		
1323023105	177	3.30	< 10	2	0.26	17	1.17	0.141	0.045	0.95	< 2	1	81	0.06	< 1	< 2	< 10	18	< 10	3	7	0.32	0.95

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GC20-0420-001	204	1.83	< 10	< 1	0.32	18	0.65	0.026	0.053	0.83	2	< 1	35	< 0.01	< 1	< 2	< 10	10	< 10	2	4		
GC20-0418-001	199	1.23	< 10	< 1	0.09	< 10	0.36	0.044	0.036	0.32	< 2	< 1	33	< 0.01	< 1	< 2	< 10	10	< 10	< 1	3		
1322002050	205	1.39	< 10	< 1	0.20	16	0.24	0.158	0.045	0.28	< 2	< 1	153	0.06	< 1	< 2	< 10	10	< 10	2	2	0.28	0.28
1322002001	210	2.43	< 10	< 1	0.26	19	0.49	0.118	0.051	2.10	< 2	< 1	104	< 0.01	1	< 2	< 10	10	< 10	3	7	0.27	2.10
1323023148	220	2.25	< 10	< 1	0.30	15	1.33	0.090	0.042	2.02	3	< 1	56	< 0.01	< 1	< 2	< 10	10	< 10	2	8	0.21	2.05
1323023120	301	1.83	< 10	< 1	0.22	12	0.67	0.062	0.041	1.04	< 2	1	29	0.01	< 1	< 2	< 10	14	< 10	2	6	0.25	1.04
1323023209	270	2.25	< 10	< 1	0.22	14	0.75	0.262	0.042	1.54	< 2	1	184	0.01	1	< 2	< 10	17	< 10	2	7	0.25	1.56
GC20-0429-004	209	2.05	< 10	< 1	0.43	12	0.23	0.022	0.046	1.94	< 2	< 1	18	< 0.01	< 1	< 2	< 10	7	< 10	2	10		
1323023157	281	2.50	< 10	< 1	0.28	13	0.66	0.134	0.040	1.21	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4	0.19	1.24
1322002093	191	1.99	< 10	< 1	0.24	15	0.69	0.121	0.046	1.68	< 2	< 1	65	< 0.01	4	< 2	< 10	8	< 10	2	5	0.36	1.60
1323023222	296	2.65	< 10	< 1	0.28	13	0.89	0.084	0.042	2.53	< 2	< 1	74	< 0.01	< 1	< 2	< 10	10	< 10	2	9	0.24	2.49
1322002191	171	2.18	< 10	< 1	0.28	14	0.84	0.059	0.043	1.99	< 2	< 1	34	0.01	< 1	< 2	< 10	9	< 10	2	4	0.45	2.14
F002437	14	1.77	< 10	< 1	0.24	15	0.42	0.206	0.047	0.05	< 2	2	33	0.24	3	< 2	< 10	56	< 10	17	6		
1322005278	427	2.27	< 10	< 1	0.37	12	1.15	0.316	0.037	1.16	3	< 1	179	0.03	1	< 2	< 10	14	< 10	2	8	0.21	1.20
1323024106	360	3.10	< 10	< 1	0.29	13	1.07	0.065	0.038	0.85	2	1	50	< 0.01	< 1	< 2	< 10	15	< 10	2	8	0.10	0.88
1322003076	276	2.41	< 10	< 1	0.29	16	1.21	0.319	0.050	1.55	< 2	2	126	0.03	4	< 2	< 10	22	< 10	3	6	0.49	1.54
1322005280	268	2.13	< 10	< 1	0.36	12	0.93	0.239	0.037	1.49	< 2	< 1	143	0.02	1	< 2	< 10	13	< 10	2	9	0.18	1.52
1323024100	167	2.97	< 10	< 1	0.23	18	1.62	0.059	0.047	0.54	< 2	1	29	0.02	< 1	< 2	< 10	15	< 10	2	3	0.23	0.57
1322004117	280	3.01	< 10	2	0.21	14	0.98	0.189	0.043	2.54	2	1	146	< 0.01	< 1	< 2	< 10	13	< 10	2	8	0.16	2.53
1322004056	489	2.90	< 10	< 1	0.24	13	0.69	0.215	0.040	1.82	2	1	94	0.04	2	< 2	< 10	16	< 10	3	10	0.22	1.78
1323024102	243	3.81	< 10	2	0.39	16	1.75	0.042	0.059	0.86	< 2	2	24	< 0.01	< 1	< 2	< 10	23	< 10	2	5	0.24	0.84
1322003059	357	1.99	< 10	< 1	0.17	14	1.12	0.128	0.048	1.33	< 2	1	66	< 0.01	< 1	< 2	< 10	14	< 10	2	3	0.18	1.35
1322004116	259	2.65	< 10	< 1	0.13	13	1.08	0.183	0.042	2.23	< 2	< 1	138	< 0.01	< 1	< 2	< 10	12	< 10	2	5	0.25	2.25
GC20-0414-001	248	4.95	< 10	2	0.44	18	0.78	0.038	0.052	5.38	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0939-023	252	4.31	< 10	1	0.05	< 10	1.55	0.703	0.019	0.06	3	5	65	0.16	< 1	< 2	< 10	123	< 10	3	2		
1322005192	420	4.50	< 10	< 1	0.04	< 10	1.41	0.651	0.021	0.15	2	4	63	0.17	< 1	< 2	< 10	126	< 10	3	2	0.22	0.17
1322004031	128	2.18	< 10	< 1	0.12	17	0.87	0.129	0.049	2.42	< 2	< 1	55	< 0.01	2	< 2	< 10	9	< 10	3	5	0.28	2.50
1322005317	230	2.62	< 10	< 1	0.24	15	1.27	0.227	0.041	2.03	< 2	< 1	104	< 0.01	1	< 2	< 10	12	< 10	2	7	0.21	1.96
1322005162	369	2.26	< 10	< 1	0.20	12	0.91	0.255	0.039	1.70	3	< 1	146	< 0.01	< 1	< 2	< 10	13	< 10	2	3	0.13	1.70
1322004058	392	2.58	< 10	< 1	0.20	13	0.67	0.240	0.040	1.60	< 2	1	133	0.02	2	< 2	< 10	14	27	3	6	0.29	1.57
1322005105	311	2.50	< 10	< 1	0.21	13	0.95	0.260	0.040	2.11	< 2	< 1	130	< 0.01	< 1	< 2	< 10	9	< 10	2	8	0.16	2.06
GC20-04187-002	254	2.24	< 10	< 1	0.33	12	0.13	0.048	0.037	2.53	2	< 1	44	< 0.01	< 1	< 2	< 10	7	< 10	1	10		
GC20-0416-009	284	1.08	< 10	< 1	0.33	18	0.12	0.022	0.042	0.98	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
1322005075	424	1.88	< 10	< 1	0.22	11	0.86	0.142	0.037	1.22	< 2	1	57	0.02	2	< 2	< 10	13	< 10	3	4	0.15	1.21
1322004025	279	3.17	< 10	< 1	0.21	13	0.73	0.183	0.042	2.09	< 2	1	83	< 0.01	< 1	< 2	< 10	15	< 10	3	16	0.11	2.09
GC20-0934-021	91	2.87	< 10	< 1	0.20	14	0.87	0.156	0.044	2.29	< 2	1	72	0.02	< 1	< 2	< 10	16	< 10	3	17		
GC20-1011-017	314	2.39	< 10	< 1	0.24	15	0.96	0.202	0.037	0.88	< 2	1	85	0.04	1	< 2	< 10	17	< 10	2	8		
GC20-0307-016	144	2.37	< 10	< 1	0.59	16	1.25	0.078	0.047	2.20	2	1	28	0.04	< 1	< 2	< 10	14	< 10	3	16		
F002438	12	1.93	< 10	< 1	0.25	13	0.40	0.242	0.035	0.03	< 2	2	34	0.30	4	< 2	< 10	48	< 10	15	6		
1322005295	230	4.66	< 10	1	0.06	< 10	1.69	0.524	0.022	0.19	< 2	5	64	0.20	2	< 2	< 10	129	< 10	3	2	0.17	0.23

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas								0.4	< 0.5	72	985	< 1	24	94	114	7.09	188	< 10	780	0.7	2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	73	997	1	25	95	116	7.16	198	< 10	809	0.7	2	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
GXR-6 Meas								0.4	< 0.5	72	1000	< 1	24	94	115	7.07	191	< 10	792	0.7	3	0.14	14
GXR-6 Cert								1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8
NBM-1 Meas		42.9																					
NBM-1 Cert		52.0																					
NBM-1 Meas		43.1																					
NBM-1 Cert		52.0																					
BaSO4 Meas																							
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GS311-4 Cert																							
NBM-1 (slight fzz) Meas		43.1				8.03																	
NBM-1 (slight fzz) Cert		46.6				8.53																	
NBM-1 (slight fzz) Meas						7.55																	
NBM-1 (slight fzz) Cert						8.53																	
NBM-1 (slight fzz) Meas						8.03																	
NBM-1 (slight fzz) Cert						8.53																	
OREAS 922 (AQUA REGIA) Meas								1.3	< 0.5	2280	724	< 1	35	60	245	2.95	5		80	0.7	8	0.39	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2210	727	< 1	36	59	251	2.89	5		78	0.7	8	0.40	19
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 922 (AQUA REGIA) Meas								0.8	< 0.5	2300	738	< 1	37	62	253	2.88	7		69	0.6	9	0.38	20
OREAS 922 (AQUA REGIA) Cert								0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4
OREAS 923 (AQUA REGIA) Meas								1.9	< 0.5	4400	821	< 1	34	82	309	2.90	7		60	0.6	24	0.39	22
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								3.6	< 0.5	4400	817	< 1	33	80	312	2.89	9		60	0.6	23	0.39	21
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
OREAS 923 (AQUA REGIA) Meas								1.6	< 0.5	4640	855	< 1	34	83	330	2.97	8		57	0.6	25	0.39	23
OREAS 923 (AQUA REGIA) Cert								1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2
Oreas 96 (Aqua Regia) Meas								10.8		> 10000				85	388						63		47
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua Regia) Meas								10.9		> 10000				85	395						69		45
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 96 (Aqua								11.5		> 10000				86	401						69		49

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Regia) Meas																							
Oreas 96 (Aqua Regia) Cert								11.50		39100.00				100	448						27.9		49.2
Oreas 621 (Aqua Regia) Meas								67.0	290	3710	521	13	25	> 5000	> 10000	1.86	76			0.5	5	1.63	31
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								65.2	286	3560	515	12	25	> 5000	> 10000	1.76	73			0.5	8	1.62	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
Oreas 621 (Aqua Regia) Meas								66.8	293	3560	526	11	26	> 5000	> 10000	1.79	75			0.5	11	1.67	30
Oreas 621 (Aqua Regia) Cert								68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9
OREAS 238 (Fire Assay) Meas							3180																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3080																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3000																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3010																
OREAS 238 (Fire Assay) Cert							3030																
OREAS 238 (Fire Assay) Meas							3020																
OREAS 238 (Fire Assay) Cert							3030																
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Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas E1336 (Fire Assay) Meas							511																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							508																
Oreas E1336 (Fire Assay) Cert							510																
Oreas E1336 (Fire Assay) Meas							502																
Oreas E1336 (Fire Assay) Cert							510																
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GS317-5 Cert																							
1322020512 Orig								0.7	1.1	31	866	< 1	27	14	341	2.24	96	< 10	27	< 0.5	< 2	0.57	12
1322020512 Dup								0.5	1.1	31	862	< 1	26	14	344	2.23	84	< 10	28	< 0.5	< 2	0.56	11
1229066152 Orig								2.9	2.6	47	1410	< 1	19	125	653	1.62	94	< 10	28	< 0.5	3	1.61	11
1229066152 Dup								2.9	2.7	46	1410	< 1	19	126	648	1.64	95	< 10	25	< 0.5	< 2	1.62	12
1323022001 Orig							8																
1323022001 Dup							13																
1229066262 Orig																							
1229066262 Dup																							
1323019117 Orig																							
1323019117 Dup																							
GC20-0398-001 Orig								2.8	0.8	36	1420	< 1	12	37	203	0.73	116	< 10	17	< 0.5	< 2	2.92	9
GC20-0398-001 Dup								2.6	0.7	36	1400	< 1	12	37	205	0.73	112	< 10	18	< 0.5	< 2	2.95	8
1322020358 Orig							149																

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322020358 Dup							144																
1323019078 Orig																							
1323019078 Dup																							
GC20-0370-006 Orig							282	1.8	4.3	38	257	2	13	48	1090	0.90	58	< 10	33	< 0.5	2	0.45	10
GC20-0370-006 Dup							295	1.6	4.4	37	246	2	13	49	1070	0.86	63	< 10	35	< 0.5	< 2	0.45	11
1323018062 Orig						8.66																	
1323018062 Dup						8.73																	
1433094599 Orig	52.1	83.2	31.1	67.1	1.24																		
1433094599 Dup	52.1	83.3	31.2	67.1	1.24																		
12529066288 Orig							105																
12529066288 Dup							113																
F001614 Orig								4.2	< 0.5	24	207	16	8	22	39	1.31	< 2	< 10	39	< 0.5	< 2	0.80	6
F001614 Dup								4.2	< 0.5	24	204	16	7	23	38	1.31	< 2	< 10	40	< 0.5	< 2	0.80	5
1229067420 Orig																							
1229067420 Dup																							
1229067491 Orig								5.4	1.2	36	2080	< 1	20	130	342	2.08	55	< 10	38	< 0.5	2	2.86	10
1229067491 Dup								5.1	1.2	36	2070	< 1	20	129	349	2.05	55	< 10	34	< 0.5	< 2	2.86	10
1322002193 Orig																							
1322002193 Dup																							
1322002177 Orig							69																
1322002177 Dup							68																
1322002025 Orig								0.9	0.6	48	390	3	13	13	176	2.98	24	< 10	47	< 0.5	4	1.71	11
1322002025 Dup								0.9	< 0.5	48	390	3	13	12	164	2.99	22	< 10	51	< 0.5	5	1.71	11
1322002078 Orig																							
1322002078 Dup																							
1323023105 Orig							103																
1323023105 Dup							81																
1323023209 Orig							121																
1323023209 Dup							116																
1323023157 Orig								0.9	< 0.5	174	565	1	15	9	123	3.00	12	< 10	45	< 0.5	< 2	1.63	11
1323023157 Dup								0.9	< 0.5	174	566	2	15	11	123	3.03	13	< 10	43	< 0.5	< 2	1.64	10
1323023222 Orig																							
1323023222 Dup																							
1323024106 Orig	27.5	6.46	-21.0	27.0	0.240																		
1323024106 Dup	27.5	6.48	-21.0	27.0	0.241																		
1322003059 Orig																							
1322003059 Dup																							
1322004116 Orig							374																
1322004116 Dup							352																
GC20-0414-001 Orig								7.7	6.1	371	723	1	20	392	1280	1.73	313	< 10	< 10	< 0.5	4	0.74	10
GC20-0414-001 Dup								6.6	5.9	370	709	1	21	388	1240	1.71	309	< 10	11	< 0.5	5	0.71	10
GC20-0416-009 Orig								11.9	1.0	38	440	< 1	13	46	308	0.72	116	< 10	30	< 0.5	< 2	0.77	7
GC20-0416-009 Dup								12.6	1.0	40	443	< 1	14	46	312	0.76	115	< 10	30	< 0.5	2	0.78	7
1322004025 Orig						8.28																	

Analyte Symbol	AP	NP	NNP	MPA	NP:MPA Ratio	Paste pH	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co
Unit Symbol	kg CaCO3/t	kg CaCO3/t	-	kg CaCO3/t	Ratio	-	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit						0.01	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1
Method Code	TITR	TITR	Calc	TITR	Calc	pH Meter	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1322004025 Dup						8.30																	
1322005295 Orig	7.19	8.85	1.66	7.04	1.26																		
1322005295 Dup	7.19	8.85	1.67	7.04	1.26																		
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank							< 5																
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1
Method Blank								< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
GXR-6 Meas	76	5.71	20	1	1.10	< 10	0.37	0.127	0.034	0.01	3	16	30		< 1	< 2	< 10	163	< 10	4	4		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	77	5.80	20	2	1.11	< 10	0.38	0.126	0.035	0.01	< 2	16	30		< 1	< 2	< 10	168	< 10	4	5		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	76	5.71	20	3	1.10	< 10	0.37	0.126	0.034	0.01	3	16	30		< 1	< 2	< 10	164	< 10	4	4		
GXR-6 Cert	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
NBM-1 Meas																							
NBM-1 Cert																							
NBM-1 Meas																							
NBM-1 Cert																							
BaSO4 Meas																							14.4
BaSO4 Cert																							14.0
BaSO4 Meas																							13.8
BaSO4 Cert																							14.0
BaSO4 Meas																							13.7
BaSO4 Cert																							14.0
BaSO4 Meas																							13.6
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
BaSO4 Meas																							13.9
BaSO4 Cert																							14.0
BaSO4 Meas																							14.0
BaSO4 Cert																							14.0
GS311-4 Meas																						1.06	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.54
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.07	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.55
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.09	0.56
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.04	0.53
GS311-4 Cert																						1.11	0.54
GS311-4 Meas																						1.08	0.55
GS311-4 Cert																						1.11	0.54
NBM-1 (slight fzz)																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
NBM-1 (slight fzz) Meas																							
NBM-1 (slight fzz) Cert																							
OREAS 922 (AQUA REGIA) Meas	45	5.13	< 10		0.48	38	1.24	0.030	0.064	0.36	< 2	4	16			< 2	< 10	37	< 10	20	10		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	44	4.97	< 10		0.47	38	1.22	0.028	0.065	0.35	< 2	4	16			< 2	< 10	37	< 10	20	12		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 922 (AQUA REGIA) Meas	45	5.22	< 10		0.43	37	1.23	0.027	0.064	0.36	2	3	16			< 2	< 10	35	< 10	17	9		
OREAS 922 (AQUA REGIA) Cert	40.7	5.05	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0			0.14	1.98	29.4	1.12	16.0	22.3		
OREAS 923 (AQUA REGIA) Meas	41	5.76	< 10		0.40	34	1.30		0.062	0.65	3	4	14			< 2	< 10	36	< 10	18	21		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	5.84	< 10		0.40	35	1.30		0.062	0.64	< 2	3	14			< 2	< 10	35	< 10	18	23		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
OREAS 923 (AQUA REGIA) Meas	41	6.17	< 10		0.38	34	1.35		0.066	0.67	3	3	15			< 2	< 10	36	< 10	16	17		
OREAS 923 (AQUA REGIA) Cert	39.4	5.91	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6			0.12	1.80	30.6	1.96	14.3	22.5		
Oreas 96 (Aqua Regia) Meas										3.90	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										3.87	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 96 (Aqua Regia) Meas										4.02	5												
Oreas 96 (Aqua Regia) Cert										4.38	4.53												
Oreas 621 (Aqua	30	3.27	10	4	0.39	20	0.41	0.178	0.034	4.72	92	2	18			< 2	< 10	14	< 10	7	46		

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Regia) Meas																							
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	30	3.20	< 10	4	0.36	19	0.40	0.171	0.033	4.40	87	2	17			3	< 10	13	< 10	7	43		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
Oreas 621 (Aqua Regia) Meas	32	3.25	< 10	3	0.36	20	0.40	0.175	0.035	4.24	91	2	18			< 2	< 10	13	< 10	7	56		
Oreas 621 (Aqua Regia) Cert	31.3	3.43	9.29	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9			0.770	1.63	10.9	1.00	6.87	55.0		
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
GS316-3 Meas																						0.06	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.36
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.34
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.33
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.06	0.35
GS316-3 Cert																						0.0600	0.340
GS316-3 Meas																						0.07	0.33
GS316-3 Cert																						0.0600	0.340
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
GS317-5 Meas																						8.24	15.2
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.10	15.5
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.33	15.3
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.28	14.9
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.04	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.25	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.19	15.0
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.38	14.8
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.22	14.7
GS317-5 Cert																						8.46	15.5
GS317-5 Meas																						8.17	15.0
GS317-5 Cert																						8.46	15.5
1322020512 Orig	191	3.46	< 10	1	0.30	11	1.39	0.024	0.039	1.50	2	1	21	0.01	< 1	< 2	< 10	12	< 10	2	12		
1322020512 Dup	187	3.47	< 10	< 1	0.29	11	1.40	0.025	0.038	1.48	3	1	20	0.01	< 1	< 2	< 10	12	< 10	2	12		
1229066152 Orig	94	2.44	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	2	< 1	18	< 0.01	3	< 2	< 10	10	< 10	2	13		
1229066152 Dup	93	2.47	< 10	< 1	0.36	18	1.08	0.050	0.058	2.45	< 2	< 1	18	< 0.01	< 1	< 2	< 10	10	< 10	2	11		
1323022001 Orig																							
1323022001 Dup																							
1229066262 Orig																						0.52	1.36
1229066262 Dup																						0.52	1.34
1323019117 Orig																						0.18	1.80
1323019117 Dup																						0.19	1.81
GC20-0398-001 Orig	166	2.73	< 10	< 1	0.23	16	0.28	0.022	0.043	3.12	< 2	< 1	27	< 0.01	< 1	< 2	< 10	4	< 10	1	9		
GC20-0398-001 Dup	161	2.66	< 10	< 1	0.24	15	0.28	0.022	0.043	3.11	< 2	< 1	27	< 0.01	2	< 2	< 10	4	< 10	1	9		
1322020358 Orig																							
1322020358 Dup																							
1323019078 Orig																						0.71	1.33
1323019078 Dup																						0.72	1.29
GC20-0370-006 Orig	192	1.82	< 10	< 1	0.33	15	0.21	0.030	0.048	1.78	3	< 1	17	< 0.01	< 1	< 2	< 10	6	< 10	1	9		
GC20-0370-006 Dup	190	1.80	< 10	< 1	0.31	15	0.20	0.027	0.048	1.73	< 2	< 1	17	< 0.01	< 1	< 2	< 10	6	< 10	1	9		
1323018062 Orig																							
1323018062 Dup																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
1433094599 Orig																							
1433094599 Dup																							
12529066288 Orig																							
12529066288 Dup																							
F001614 Orig	13	1.49	< 10	< 1	0.21	20	0.35	0.208	0.042	0.04	< 2	2	37	0.21	3	< 2	< 10	39	< 10	15	6		
F001614 Dup	13	1.46	< 10	< 1	0.21	19	0.34	0.208	0.042	0.04	< 2	2	37	0.21	2	< 2	< 10	38	< 10	15	6		
1229067420 Orig																						0.58	1.39
1229067420 Dup																						0.58	1.42
1229067491 Orig	136	2.24	< 10	< 1	0.47	17	1.35	0.095	0.048	1.74	< 2	1	36	0.01	< 1	< 2	< 10	12	< 10	3	11		
1229067491 Dup	136	2.21	< 10	< 1	0.45	17	1.36	0.093	0.047	1.76	< 2	1	36	< 0.01	2	< 2	< 10	12	< 10	3	5		
1322002193 Orig																						0.34	2.02
1322002193 Dup																						0.35	2.06
1322002177 Orig																							
1322002177 Dup																							
1322002025 Orig	243	2.22	< 10	< 1	0.26	15	0.57	0.210	0.050	1.11	< 2	< 1	179	0.01	1	< 2	< 10	11	< 10	2	3		
1322002025 Dup	248	2.18	< 10	< 1	0.26	15	0.56	0.209	0.049	1.09	< 2	< 1	178	0.01	2	< 2	< 10	11	< 10	2	3		
1322002078 Orig																						0.20	0.58
1322002078 Dup																						0.20	0.57
1323023105 Orig																							
1323023105 Dup																							
1323023209 Orig																							
1323023209 Dup																							
1323023157 Orig	281	2.49	< 10	< 1	0.28	13	0.66	0.133	0.040	1.22	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4		
1323023157 Dup	281	2.51	< 10	< 1	0.28	12	0.65	0.135	0.040	1.21	< 2	< 1	97	0.04	< 1	< 2	< 10	12	< 10	2	4		
1323023222 Orig																						0.25	2.51
1323023222 Dup																						0.24	2.47
1323024106 Orig																							
1323024106 Dup																							
1322003059 Orig																						0.18	1.36
1322003059 Dup																						0.18	1.34
1322004116 Orig																							
1322004116 Dup																							
GC20-0414-001 Orig	249	4.97	< 10	2	0.44	18	0.79	0.038	0.052	5.44	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0414-001 Dup	247	4.93	< 10	3	0.43	18	0.78	0.038	0.052	5.32	5	1	19	< 0.01	< 1	< 2	< 10	13	< 10	2	18		
GC20-0416-009 Orig	279	1.06	< 10	< 1	0.32	17	0.12	0.021	0.042	0.99	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
GC20-0416-009 Dup	289	1.09	< 10	< 1	0.34	18	0.12	0.023	0.043	0.97	3	< 1	15	< 0.01	1	< 2	< 10	4	< 10	1	6		
1322004025 Orig																							
1322004025 Dup																							
1322005295 Orig																						0.17	0.23
1322005295 Dup																						0.17	0.22
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	C-Total	Total S
Unit Symbol	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.01	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	CS	CS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		
Method Blank	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1		