NEW GOLD RAINY RIVER MINE
APPENDIX D
2018 SPECIES AT RISK REPORT

New Gold Inc. Rainy River Project

2018 Species at Risk Monitoring Report
Per Condition 7.2(a) of Permit FF-C-001-14 under the Endangered Special Act
TC111504

Prepared for:

New Gold Inc.

January 2019

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Executive Summary

An Ontario *Endangered Species Act* (ESA) permit for Species at Risk (SAR) was issued to New Gold Inc. (New Gold) for their Rainy River Mine (RRM) by the Minister of Natural Resources and Forestry on November 7, 2014. The ESA permit addresses two provincially threatened bird species, Eastern Whip-poor-will and Bobolink, and allows construction and operation of the RRM. Where adverse effects to Eastern Whip-poor-will and Bobolink habitat were anticipated to occur, New Gold, through provisions of the ESA permit, has provided compensatory habitat referred to as Overall Benefit Areas to offset adverse effects. The ESA permit requires New Gold to manage these Overall Benefit Areas for the benefit of Eastern Whip-poor-will and Bobolink. Management is required until such time as habitat restoration can be demonstrated to be capable of supporting a prescribed number of SAR bird territories, or acreages, as defined in the ESA permit.

A comprehensive monitoring program is defined in Condition 6 of the ESA permit, with reporting requirements for this monitoring program defined in Condition 7. The primary objectives of the monitoring program are to i) quantify any adverse effects to Eastern Whip-poor-will and Bobolink and to confirm that these effects are limited to those identified in the ESA permit, and ii) to confirm that Overall Benefit Areas are functioning to provide the required compensatory offsets. This 2018 Annual Monitoring Report addresses Phases 1 and 2 of the monitoring programs for Eastern Whip-poor-will and Bobolink, as per Appendices G and J of the ESA permit, respectively.

Condition 4.1(g) of the ESA permit also requires sound monitoring to be carried out during the first week in May and June of each year of construction, at two Eastern Whip-poor-will receptor locations (positioned north and south of the Project site) where the highest Project-related sound levels are expected to occur. This report summarizes the results of the 2018 sound monitoring activities (final year of construction) and further details are provided in a separate report (Wood 2018).

Results of Phase 1 and Phase 2 monitoring of Eastern Whip-poor-will and Bobolink as outlined in Condition 6 and Appendix G of the ESA permit are as follows. In 2018, 53 Eastern Whip-poor-will were recorded within the Eastern Whip-poor-will Overall Benefit Areas and 16 individuals were recorded within the Project site boundary or around its periphery. A total of 89 Bobolink individuals were recorded within the Bobolink Overall Benefit Areas. Additional surveys were conducted outside of these areas as part of the Rainy River Mine Wildlife Monitoring Program. These surveys detected one additional Eastern Whip-poor-will, and 17 additional Bobolinks within the Study Area.

Other Species at Risk recorded during the 2018 surveys included (in order of abundance from highest to lowest): Barn Swallow, Wood Thrush, Golden-winged Warbler, American White Pelican, Eastern Wood-Pewee, Canada Warbler, Common Nighthawk, Bald Eagle, Olive-sided Flycatcher, and Evening Grosbeak.

Hourly sound levels were within the criteria limit of L_{eq} 50 dBA for 319 of the 336 hours of data collected at the two receptor locations. During the May 2018 monitoring period, there were two exceedances of the hourly L_{eq} 50 dBA sound criteria threshold due to inclement weather, which occurred at both the North and South Receptor Habitat locations. There was an additional threshold exceedance at the North Receptor due to a combination of mine equipment and wildlife, and another threshold exceedance at the South Receptor due to wildlife. During the June 2018 monitoring, all exceedances (14) that occurred at the North and South Receptor Habitat locations were caused by inclement weather and were not caused by mine activities.

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1.0 Introduction

1.1 Purpose of Application

An Ontario *Endangered Species Act* (*ESA*) permit for Species at Risk (SAR) was issued to New Gold Inc. (New Gold) for their Rainy River Project (RRM) by the Minister of Natural Resources and Forestry (MNRF) on November 7, 2014 (Permit # FF-C-001-14). The ESA permit addresses two provincially threatened bird species: Eastern Whip-poor-will and Bobolink. The permit authorizes construction and operation of the RRM despite anticipated Project-related adverse effects to these two SAR birds, including:

- Destruction of SAR habitat;
- Damage to SAR habitat; and
- Potential harm to and/or harassment of SAR.

Destroyed habitats are defined in the ESA permit to include Eastern Whip-poor-will and Bobolink occupancy areas and habitats that are anticipated to be directly displaced by mine development activities. Examples of mine development activities include open pit mining, the construction of buildings and yard areas, and the establishment of mineral stockpiles and tailings areas.

Sound levels thresholds due to Project-related activities may exceed 50 decibel A-Weighted (dBA). The 50 dBA threshold is defined as the 50 dBA sound level averaged over one hour (50 dBA, L_{Aeq} 1 hr), as determined through standard Ministry of the Environment (MOE; 1977b) NPC-103 monitoring procedures, and excluding blast noise. Frequent or continuous sound levels in excess of 50 dBA have the potential to diminish habitat suitability for sensitive bird species. Therefore, The ESA permit defines damaged habitats as those habitats located adjacent to or near destroyed habitats, where a reduction in habitat suitability is expected to occur over the longer-term, primarily due to Project-related noise emissions.

Short-term increases in noise levels due to Project-related activities are thought to result in potential harm to and harassment of SAR species.

Where adverse effects to SAR habitat were anticipated to occur, New Gold has provided compensatory habitat through provisions of the ESA permit, referred to as Overall Benefit Areas (OB Areas). The ESA permit requires New Gold to manage these OB Areas for the benefit of Eastern Whip-poor-will and Bobolink, until habitat restoration can be demonstrated to be capable of supporting the prescribed number of SAR bird territories, or acreages, defined in the ESA permit.

For Eastern Whip-poor-will, the MNRF determined that 18 identified Eastern Whip-poor-will breeding territories could potentially be affected by mine developments. To offset this effect, New Gold acquired land title (surface rights) to a total of 1,468.3 hectares (ha) of lands having the potential to support approximately 36 Eastern Whip-poor-will breeding territories, providing a 2:1 ratio of offset to affected territories. This 2:1 ratio was set as a conservative measure to account for any uncertainties in the quality or utilization of offset territories by Eastern Whip-poor-will.

In the case of Bobolink, MNRF determined that 348 ha of Bobolink habitat had the potential to be adversely affected by mine developments (destroyed or damaged). To offset this effect, New Gold acquired land surface rights to a total of 348 ha of field habitat considered to be suitable for use as breeding habitat by Bobolink, for protection and management.

To confirm that adverse effects to Eastern Whip-poor-will and Bobolink are limited to those identified in the ESA permit, and that OB Areas are functioning as intended, a comprehensive monitoring program is defined in Condition 6 of the ESA permit. Reporting requirements for this monitoring program are defined in Condition 7.

The monitoring program for Eastern Whip-poor-will includes:

- Phase 1 monitoring to determine whether areas within and adjacent to the Project Site are occupied by Eastern Whip-poor-will during and after construction and operation activities. Phase 1 monitoring shall also include an assessment of sound levels, during the breeding season in identified Eastern Whip-poor-will receptor habitats.

- Phase 2 monitoring of the OB Areas to determine which areas are occupied by Eastern-Whip-poor-will, and to assess the distribution of the areas relative to implemented management actions, as set out in the Management Plan.

- Phase 3 monitoring after implementation of the Eastern Whip-poor-will site rehabilitation plan to determine Eastern Whip-poor-will occupancy rates at the mine site compared with pre-mining condition. Phase 3 monitoring will take place post-closure.

Specific guidance is provided in Condition 6.2 and Appendix G of the ESA permit describing how the monitoring program for Eastern Whip-poor-will is to be carried out. This guidance includes the times during which monitoring is to be carried out, qualifications of the monitors, and information to be collected.

The monitoring program for Bobolink includes:

- Phase 1 monitoring to determine the response of Bobolink to construction and operation activities within the Project site and within the adjacent occupancy areas;

- Phase 2 monitoring to determine habitat use by Bobolink within the OB Areas; and

- Phase 3 monitoring after implementation of the Bobolink rehabilitation plan to determine Bobolink occupancy rates at the mine site compared with pre-mining occupancy rates. Phase 3 monitoring will take place post-closure.

Specific guidance is provided in Condition 6.4 and Appendix J of the ESA permit outlining how the monitoring program for Bobolink is to be conducted. Guidance includes the times during which monitoring is to be carried out, qualifications of the monitors, and information to be collected.

This 2018 annual monitoring report addresses both Phase 1 and Phase 2 of the monitoring programs for Eastern Whip-poor-will and Bobolink. Phase 3 monitoring is not required until post-closure, following site rehabilitation, and accordingly is not described herein.

1.2 Table of Concordance

This report has been submitted to the MNRF within six months following the last survey of the 2018 survey sequence (as per Condition 7.2) and has been prepared in accordance with Condition 7.3 (Table 1-1).

2.0 Summary of Construction Activities Undertaken

Condition 7.3(e) requires descriptions of operation and construction activities undertaken in 2018 and these activities are shown as equipment operating hours in Table 2-1 and further detailed with status and completion dates in Table 2-2.

3.0 Habitat Management and Assessment Criteria

3.1 Adaptive Management

A key component of the monitoring program is adaptive management whereby ongoing results of the monitoring program are used to inform response strategies. In the case of SAR monitoring for the RRM, it is anticipated that monitoring results will:

- Confirm sound level predictions in relation to damaged habitats; and
- Confirm Eastern Whip-poor-will and Bobolink occupancies within and adjacent to the Project site.

If Project-related sound levels in Eastern Whip-poor-will receptor habitat should exceed sound level thresholds defined in the ESA permit, additional mitigation measures will be implemented to reduce sound levels in accordance with Condition 4.1(g) and 4.2(b) of the ESA permit.

Should Eastern Whip-poor-will and Bobolink occupancies in areas peripheral to the Project site be diminished in comparison to historic and control data (where available), including allowances for increased sound levels in damaged and harmed and harassed areas, New Gold will investigate the basis for any such diminished use. If related to Project operations, New Gold will attempt to mitigate any related adverse effects.

3.2 Habitat Creation Criteria

3.2.1 Eastern Whip-poor-will

Habitat creation objectives (criteria) for Eastern Whip-poor-will apply to mine site reclamation following the completion of mining and to rehabilitation of the Tait Quarry. Habitat management within the OB Areas is considered separate from habitat creation criteria. Habitat creation criteria for the development of Eastern Whip-poor-will habitat at closure includes:

- Habitat restoration to include provision for the creation of 13 Eastern Whip-poor-will territorial males, with the average territory being approximately 30 ha; and
- Habitat to be developed as self-sustaining, patchy forest habitat, consisting of an interspersed mix of mid-successional to mature trees and open patches, with limited to sparse understory development within forest patches.

The criterion of 13 male territories is defined in the ESA permit. Details of the idealized patchy forest type (or types) for reclamation targets will be developed through the Research Program. In 2017, macro- and micro-habitat features were compared between occupied OB Areas and Project Lands and unoccupied adjacent lands. The description of these macro- and micro-habitat features were documented and will be used to refine habitat creation criteria.

3.2.2 Bobolink

Bobolink habitat preferences are well understood. Habitat creation criteria for this species, are the following:

- The quantity of Bobolink habitat developed at closure is to be equal to or greater than that which is destroyed as a result of Project development; and

- Habitat is to be developed and maintained as late maturing grass hayfields, with at least one grass species that is greater than 50 cm in height, and devoid of invasive woody species.

3.3 Habitat Management Criteria

3.3.1 Eastern Whip-poor-will

The following habitat management mitigations were developed, as per Conditions 4.1 and 4.2 of the ESA permit to manage habitat for Eastern Whip-poor-will in the Project site and adjacent area:

- Avoid Project-related tree clearing during the breeding season, defined as occurring from May 1 to August 15 (criterion for success – timing windows adhered to).

- Where practicable, limit tree clearing in advance of, or following, the breeding season, to those areas which are needed for Project development in the near to intermediate term, as per Appendix E of the ESA permit (criterion for success – area of tree clearing consistent with associated construction works development need).

- To the extent reasonably possible, retain landscape topography and nature features (e.g., tree growth) around the perimeter of the Project development area (criterion for success – perimeter topography and features retained).

- Manage Project generated sound levels during the breeding season, such that sound levels do not exceed 50 dBA within whip-poor-will receptor habitats, as defined in the ESA permit (criterion for success – no Project related exceedances of the hourly L_{eq} 50 dBA sound criteria threshold at receptor habitats).

- During the breeding season, ensure that blasting is carried out during the daytime only, defined as extending from a half hour after sunrise to a half hour before sunset (criterion for success – blasting carried out within the prescribed time interval).

- To the extent possible, and taking worker safety into consideration, direct Project related lighting inwards towards Project development areas, and away from the Project site perimeter (criterion for success – lighting directed inwards to extent practicable).

- Use applicable dust control measures to avoid excessive dust suppression on Eastern Whip-poor-will receptor habitats, as defined in the ESA permit (criterion for success – total suspended particulate levels consistent with air quality model prediction for total particulate material).

The applicable above mitigation measures for Eastern Whip-poor-will were employed, resulting in habitat management criteria being met in 2018, during site development.

Habitat management criteria for the OB Areas will be developed as part of the Management Plan for the Eastern Whip-poor-will Overall Benefit Areas, to be submitted to the MNRF by January 28, 2019.

3.3.2 Bobolink

The following habitat management criteria have been developed for Bobolink habitat management in the Project site and adjacent area, as per Conditions 4.1 and 4.2 of the ESA permit:

- Avoid Project-related habitat removal during the breeding season, which occurs from May 1 to July 31 (criterion for success – timing windows adhered to); and
- Manage Project-generated noise levels during the breeding season to below 50 dBA, as defined in the ESA permit, within proximal high quality Bobolink habitats to the south and west of the Project site.

All of the above mitigation measures as applicable were employed / habitat management criteria were met for Bobolink, during 2018 in connection with site development and operations.

3.4 Effectiveness

All habitat management criteria related to Eastern Whip-poor-will and Bobolink were met without incident in 2018.

4.0 Methods

This 2018 Annual Monitoring Report addresses Phases 1 and 2 of the monitoring programs for both Eastern Whip-poor-will and Bobolink, as per Appendices G and J of the ESA permit, respectively.

4.1 Eastern Whip-poor-will Surveys

Surveys were conducted in accordance with the survey protocol provided by the Whip-poor-will Roadside Survey Participant's Guide (BSC 2012). Surveys commenced 30 minutes after sunset and continued until approximately midnight or 1:00 am (depending on weather conditions, brightness of the moon, and level of singing activity by the birds). All survey stations were sampled at least once per round on calm, clear nights with little or no cloud cover, no precipitation and winds of no greater than 3 on the Beaufort Scale.

Eastern Whip-poor-wills are known to call most actively during periods of high lunar illumination, when at least 50% of the moon face is illuminated (Mills 1986; Wilson and Watts 2006). Accordingly, the two survey rounds completed during 2018 were scheduled to coincide with periods of greatest lunar illumination. Surveys were conducted between the first and third quarters of the lunar cycle, both in late May and June, during the Eastern Whip-poor-will breeding period. These lunar phases occurred between May 26 and June 6, and between June 20 and July 6, 2018. The 2018 Eastern Whip-poor-will surveys at RRM were conducted from May 29 to June 4 and from June 21 to June 27, 2018. Survey stations (Figure 4-1) visited during the first round of surveys were repeated to determine whether birds occurring in late May and early June were still present in late June, and therefore assumed to have established breeding territories.

A total of 101 stations were surveyed for Eastern Whip-poor-will, where:

- 24 stations were located near the proposed mine site footprint (e.g., within the footprint or within 3 kilometres (km) of the footprint); and
- 77 stations were located within Eastern Whip-poor-will OB Areas (Figure 4-1).

Surveys lasted six minutes at each station, and for each Eastern Whip-poor-will heard, distance and direction to the bird from the survey station were recorded on high resolution aerial imagery and data sheets. In most cases, the bird's location was determined by triangulating from additional survey locations during the survey.

Upon the completion of field studies, Eastern Whip-poor-will field data was analyzed to determine the approximate location of occupied areas and to estimate the number of birds present. Eastern Whip-poor-will locations were compared between repeated visits and between adjacent survey stations in an effort to accurately establish whether recorded observations were repeats of the same bird.

4.2 Bobolink Surveys

Point count surveys for Bobolink were undertaken at predetermined long-term monitoring stations located within the Bobolink OB Areas. As per the monitoring schedule outlined in Appendix J of the ESA permit, Bobolink surveys were not required at long-term monitoring stations located within the Project site or around its periphery in 2018. Surveys were conducted according to protocols described in *Mining*

Project Baseline Desktop Assessment and Survey Requirements (Environment Canada 2014) and the Ontario Breeding Bird Atlas (OBBA; 2001).

Two rounds of point count surveys were conducted between June and July 2018 by qualified biologists skilled in the identification of birds by sight and sound. Surveys were initiated prior to sunrise and extended to 5 hours after sunrise, depending on the weather conditions. Surveys were conducted during dry atmospheric conditions (no precipitation) and winds of no greater than 3 on the Beaufort Scale. Surveys lasted 10 minutes at each point count station and all birds seen or heard within four distance regimes (0 to 50 m; 50 to 100 m; outside 100 m; and birds seen flying overhead) were recorded. Bird observations were also recorded within three time intervals: (0 to 3 minutes, 3 to 5 minutes, and 5 to 10 minutes).

A total of 43 point count stations were surveyed within Bobolink OB Areas in 2018 (Figure 4-2). Point count stations were previously established using digital Forest Resource Inventory (FRI) imagery and satellite imagery and were stationed approximately 250 m apart from each other to maximize coverage and minimize overlap. Stations were geo-referenced in the field using a hand-held Global Positioning System (GPS) unit with 5 m accuracy. The first round of surveys was conducted on May 30 to 31 and between June 2 and 5, 2018. The second round of surveys was conducted on June 22 and June 5 to 6, 2018. During the second round of sampling, stations were surveyed in the reverse order from the first round to reduce temporal sampling bias.

4.3 Eastern Whip-poor-will Sound Monitoring

Condition 4.1(g) of the ESA permit provides for sound monitoring to be carried out at two Eastern Whip-poor-will receptor habitats where the highest sound levels are expected to occur. Sound monitoring is to be completed during the first week in May and June of each year of construction. Sound monitoring in 2018 occurred from May 1 to 7 and June 1 to 7 at two monitoring locations specified in the ESA permit (Figure 4-3). For monitoring rounds, hourly L_{eq} sound levels were measured and compared with the 50 dBA criteria limit for the assessment, following technical requirements set out in MOE guidelines NPC-102 (MOE 1977a) and NPC-103 (MOE 1977b), and as defined in the ESA permit. Measurements taken during periods of inclement weather (wind velocities above 20 km/hour or relative humidity greater than 90%) were noted. Microphones recorded sound types during the program to support later interpretation of the data.

A summary of the 2018 sound monitoring results are presented in the sections below. Detailed methodology and results are provided in a separate report (Wood 2018), attached as Appendix A.

5.0 Results

5.1 Eastern Whip-poor-will Observations within and Peripheral to the Mine Site (Phase 1 Monitoring)

Figure 5-1 shows the results of the two 2018 Eastern Whip-poor-will surveys. Figures 5-1b, 5-1c and 5-1d show the survey results from within or around the periphery (within 3 km) of the Project site, satisfying the requirements of Phase 1 of Eastern Whip-poor-will monitoring (*…monitoring to determine whether, during and after construction and operation activities, that areas within and peripheral to the Project Site are occupied by Eastern Whip-poor-will*), as outlined in Condition 6 and Appendix G of the ESA permit.

The results shown in Figures 5-1b to 5-1d indicate that only one Eastern Whip-poor-will core range overlapped the Project footprint (Figure 5-1c). One additional Eastern Whip-poor-will individual was located within the Project site boundary (Figure 5-1c), and fourteen individuals were located outside of the Project site boundary but within the periphery of the Project footprint (eight in Figure 5-1b, four in Figure 5-1c and three in Figure 5-1d). Therefore, a total of seventeen Eastern Whip-poor-wills were recorded within the Project site or around its periphery in 2018 (Table 5-1).

This is the fourth consecutive year that surveys have been conducted at these precise survey stations (Figures 4-1; Table 5-1). A total of 19, 14, and 9 Eastern Whip-poor-wills were recorded at these same sites during surveys completed between 2015 and 2017 (Figure 5-2; Table 5-1), with many individuals being recorded in similar locations between years.

Eastern Whip-poor-will occupancy decreased in the area to the southeast of the Project boundary from 11 individuals in 2015 to 2 individuals in 2017 and 4 individuals in 2018. (Figure 5-2; Table 5-1). West of the Project footprint, the number of individuals decreased from three in 2015, to one in 2016, with no birds recorded in 2017 or 2018 (Figure 5-2b; Table 5-1). Eastern Whip-poor-will occupancy rates in the area to the northeast of the Project Footprint have stayed relatively consistent (Figure 5-2c). Surveys at these precise survey stations were not undertaken prior to 2015, though the general Project area (the Project footprint and surrounding areas) was well studied in 2010 to 2013 (AMEC 2011, 2012, 2013; KCB 2011; MNR 2013a; Amec Foster Wheeler 2014; Rand 2014; see Figure 5-3).

5.2 Eastern Whip-poor-will Observations within the Overall Benefit Areas (Phase 2 Monitoring)

Figures 5-1a and 5-1b show the results of the 2018 Eastern Whip-poor-will surveys within the two OB Areas, satisfying the requirements of Phase 2 of the Eastern Whip-poor-will monitoring (*…monitoring of the OB Areas to determine which areas are occupied by Eastern-Whip-poor-will*), as required by Condition 6 and Appendix G of the ESA permit.

A total of 29 Eastern Whip-poor-wills were recorded in the northern OB Area (Figure 5-1a) during the first 2018 survey round and 38 individuals were recorded in the second survey round. Birds observed during both rounds (15 individuals) were considered to be established territorial males (Table 5-2). This is the fourth consecutive year that surveys have been conducted at these locations. During the surveys from 2015 to 2017, the number of individuals recorded in the first and second rounds were 11 and 11, 14 and 27, and 29 and 27, respectively (Wood 2017; Figure 5-2a; Table 5-2). Surveys at these precise survey stations were not conducted prior to 2015, but the northern OB Area was well studied in 2010 to 2013 (AMEC 2012, 2013; MNR 2013a; AMEC 2014; Rand 2014; see Figure 5-3).

In the southern OB Area (Figure 5-1b), six Eastern Whip-poor-wills were recorded during the first round and six were observed during the second round (Table 5-2). Similar to the northern OB Area, birds observed during both rounds were considered to be established territorial males. This is also the fourth consecutive year that surveys have been conducted at these precise survey stations in the southern OB Area (e.g., the survey stations shown in Figures 4-1). During the surveys from 2015 to 2017, the number of individuals recorded in the first and second rounds were 11 and 11, 6 and 12, and 10 and 7, respectively (Wood 2017; Figure 5-2b; Table 5-2). Surveys at these precise survey stations were not conducted prior to 2015 but the southern OB Area was well studied in 2010 to 2013 (AMEC 2012, 2013; MNR 2013a; AMEC 2014; Rand 2014; per Figure 5-3).

These results indicate that at least 17 Eastern Whip-poor-will occupied the two OB Areas in 2018. As such, the OB Areas are functioning as intended to provide the required offsets.

5.3 Rainy River Mine Wildlife Monitoring Program

Concurrent with Eastern Whip-poor-will surveys within the OB Areas and within and peripheral to the Project site, morning bird surveys were conducted at control and impact sites located within the Project site or around its periphery as part of the RRM Wildlife Monitoring Program. One additional Eastern Whip-poor-will was detected at one of the morning bird survey locations.

5.4 Eastern Whip-poor-will Sound Monitoring

Sound level monitoring was carried out in two Eastern Whip-poor-will Receptor Habitats (Figure 4-3) during the first weeks of May and June 2018 as described in Section 4.3, and as required by Phase 1 of Eastern Whip-poor-will monitoring outlined in Condition 6 of the ESA permit. Monitoring results are presented in Table 5-3 and detailed discussions of these results are presented in Appendix A.

The hourly sound levels were within the criteria limit of L_{eq} 50 dBA for 319 of the 336 hours of data collected at the receptor locations. During the May 2018 monitoring period, there were two exceedances of the hourly L_{eq} 50 dBA sound criteria threshold which occurred at both the North and South Receptor Habitat locations, due to inclement weather. There was an additional threshold exceedance at the North Receptor due to a combination of mine equipment and wildlife, and another threshold exceedance at the South Receptor due to wildlife. During the June 2018 monitoring, all exceedances (14) that occurred at the North and South Receptor Habitat locations were caused by inclement weather and were not caused by RRM activities.

5.5 Bobolink Observations within and Peripheral to the Mine Site (Phase 1 Monitoring)

As per the monitoring schedule outlined in Appendix J of the ESA permit, Bobolink surveys were not required within the Project site or around its periphery in 2018 and were only conducted within the OB Areas.

5.6 Bobolink Observations within the Overall Benefit Areas (Phase 2 Monitoring)

Figure 5-4 shows the results of the two 2018 Bobolink surveys, including the Bobolink OB Areas, satisfying the requirements of Phase 2 of Bobolink monitoring ("*…monitoring to determine habitat use by Bobolink within the OB Area*"), as outlined in Condition 6 and Appendix J of the ESA permit.

There was a total of 89 Bobolink observations in the Bobolink OB Areas in 2018. Birds were observed in all but five of the OB Areas, three illustrated in Figure 5-4 and two additional OB Areas located to the northwest (Figure 4-2). Bobolink nesting took place from late May to late July and fledging occurred in June and August, consistent with previous years.

This is the fourth consecutive year that surveys have been conducted at these precise survey stations. During both the 2015 and 2016 surveys 94 Bobolinks were observed in the OB Areas, and in 2017, 65 Bobolinks were observed in the OB Areas (Table 5-4, Figure 5-5). In 2015, Bobolink were observed in all but three of the OB Areas, in 2016 they were absent in seven of the OB Areas, and in 2017 they were absent in five of the OB Areas (Figure 5-5). In 2018, they were absent in five of the OB Areas. Surveys at these precise survey stations were not conducted prior to 2015, however the general Project area (footprint and surrounding areas) was well studied in 2010, 2011 and 2012 (AMEC 2011, KCB 2011, AMEC 2012, MNR 2013b, AMEC 2014; Figure 5-6).

These survey results indicate that the OB Areas are functioning as intended to provide the required offsets.

5.7 Rainy River Mine Wildlife Monitoring Program

Concurrent with Bobolink surveys within the OB Area, morning bird surveys were conducted at control and impact sites located within the Project site or around its periphery as part of the RRM Wildlife Monitoring Program. An additional 17 Bobolinks were detected at 9 locations during the morning bird surveys.

5.8 Other Species at Risk Observations

Other SAR observations within the study area were recorded both incidentally and during the following three surveys in 2018:

- Morning point count surveys for Bobolink;
- Crepuscular bird surveys for Eastern Whip-poor-will; and
- Morning point count surveys for the overall RRM Wildlife Monitoring Program (Amec Foster Wheeler 2015, 2016);

The following observations were made (also see Figure 5-7 and Table 5-5):

- A total of 22 American White Pelicans (listed provincially as threatened, not listed federally) were recorded at five point count locations. Small flocks (2 to 15 birds) were also incidentally observed flying over the study area during surveys periods in late May and June.

- Two Bald Eagles (listed provincially as special concern, not listed federally) were recorded at a nest site at a single point count location, and three others were observed at three separate point count locations.
- A total of 71 individual Barn Swallows (listed provincially and federally as threatened) were recorded at seven point count sites.
- Twelve Canada Warblers (listed provincially as special concern, listed federally as threatened) were recorded at 11 point count locations.
- Nine Common Nighthawks (listed provincially as special concern, listed federally as threatened) were recorded at six crepuscular bird survey stations.
- Twelve Eastern Wood-pewee (listed provincially and federally as special concern) were recorded at eleven point count locations.
- Three Evening Grosbeak (listed provincially as special concern, not listed federally) were recorded at one point count location.
- Twenty-six Golden-winged Warblers (listed provincially as special concern, listed federally as threatened) were recorded at 22 point count locations.
- Four Olive-sided Flycatchers (listed provincially as special concern, listed federally as threatened) were recorded at 4 point count locations.
- Twenty-nine Wood Thrush (listed provincially as special concern, listed federally as threatened) were recorded at 26 point count locations.

Other SAR observations recorded in 2015 to 2017 (Wood 2017) are shown in Figure 5-8 and summarized in Table 5-5.

Four Barn Swallow nest structures erected as habitat compensation in the winter of 2015 were checked by Wood biologists for evidence of nesting in June and July, 2018. No evidence of current nesting activities in these structures was observed. As previously reported, a nesting attempt had been observed on July 28, 2016 at Structure D; however, this nest was abandoned.

Evidence of Bank Swallow nests were observed by New Gold on June 5, 14 and 20, 2017 but no birds were observed in 2018 (Figure 5-8). It is possible that birds were foraging away from the nests at the time of the observations, but it is more likely that these nests are inactive nests from previous years.

New Gold personnel also documented 77 observations of SAR in 2018, as detailed in Appendix B and in the New Gold monthly SAR reports.

6.0 Summary of Habitat Management Activities Undertaken

6.1 Tait Quarry

The ESA permit specifies a process to use the RRM Tait Quarry closure as an Eastern Whip-poor-will habitat reclamation study, the results of which can guide the development of a site-wide RRM Eastern Whip-poor-will Site Rehabilitation Plan to be implemented at closure of the RRM. A detailed closure and reclamation plan was submitted to the MNRF in October 2017, outlining closure activities and earthworks commenced in November 2017. Revegetation activities were completed in August of 2018.

6.2 Project Site

Project site development during 2018 has met substantial completion, little to no further clearing is required. The underground mining operation and development of the portal began in 2018 as well as the completion of Cell 3 Dam, Water Discharge Pond, Sediment Ponds 1 and 2 and clearing for Constructed Wetland.

In 2017, the progressive reclamation process began, where possible, and approximately 137 ha were reclaimed, including parts of the following Project components:

- Clark Pond and diversion;
- Teeple Pond and diversion;
- West Creek Pond and diversion;
- Stockpile Pond and diversion;
- East Access Corridor;
- Areas south of Sump #1; and
- Tait Quarry.

SAR habitat management activities for the Project site area in 2018 were essentially restricted to limiting tree clearing to those areas where such clearing was necessary to allow Project site development.

6.3 Eastern Whip-poor-will Overall Benefit Areas

In accordance with Condition 5.1(b)(ii) of the ESA permit, a Management Plan for the Eastern Whip-poor-will OB Area is to be submitted to the MNRF by January 28, 2019 and this plan is to be approved by MNRF by January 28, 2020. Until the Eastern Whip-poor-will OB Area Management Plan is approved, no physical work is scheduled to be undertaken within the OB Areas. As such, no habitat management activities were undertaken in the Eastern Whip-poor-will OB Areas in 2018.

In September 2017, the MNRF requested a comparison of aerial imagery of the Eastern Whip-poor-will OB Areas from 2014 (when these lands were purchased by New Gold) and 2017 (when new aerial imagery became available). Comparative images were examined and no changes in the habitat were found within the OB Areas between 2014 and June 2017 (Wood 2017).

6.4 Bobolink Overall Benefit Areas

Condition 5.3(a) states that New Gold shall maintain and enhance "at least 348 hectares of land that will be managed as Bobolink habitat in accordance with the sites delineated in Appendix I", with such maintenance and enhancement to include:

- Bobolink OB Areas 3, 4, 5, and 7 to 21 totaling 317.5 ha to be managed from the ESA permit Effective Date (January 28, 2015); and
- With Bobolink OB Areas 1, 2 and 6 totaling 30.5 ha to be converted to suitable Bobolink habitat within two years of the ESA permit Effective Date (by January 28, 2017).
- All Bobolink OB Areas that were suitable for haying in 2018 were hayed. However due to poor weather conditions in the fall Areas 7, 17, 20 and 21 could not be hayed.

Bobolink OB Areas 2 and 6 were cleared of woody vegetation in 2017 and have been planted in the spring of 2018 with an appropriate grass mix to establish suitable habitat for Bobolink in these areas. Bobolink OB Areas 2 and 6 were seeded in late June 2018 and expected to achieve suitable habitat in 2019.

As specified in the ESA permit, all Bobolink OB Areas are to be maintained as hayfields in conditions suitable for Bobolink, consisting of late maturing grasses with at least one grass species that exceeds 50 cm in height under normal growing conditions, and fields void of woody species. Bobolink OB Areas require periodic renewal through ploughing and replanting, as per normal agricultural practice, to maintain the grasslands and to prevent invasion by woody species which would otherwise degrade the habitat. Haying (hay removed) and mowing (grass left in the field) was first implemented by New Gold in late August and mid-November 2016. To date, no recommendations on the field renewal process have been received from the MNRF nor ECCC.

7.0 Summary of Mortality Events and Associated Adaptive Management Measures

Section 7.3 of the ESA permit requires the reporting of any SAR mortalities occurring within the Project site or OB Areas. In 2018 one SAR mortality event was documented and reported to the MNRF and ECCC. On July 26, 2018, a juvenile Barn Swallow (listed provincially and federally as threatened) was found deceased at the truck maintenance shop.

8.0 References

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Table 1-1: Table of Concordance for Permit Condition 7.3

Permit Condition 7.3	Monitoring Reporting Conditions	Relevant Section of 2018 Species at Risk Report
(a)	A summary of survey protocol used	Section 4.0 Methods
(b)	All information collected pursuant to Conditions 4.1(f), 4.2(a), 6.2(f) and 6.4(e).	4.1 (f) and 4.2 (a): not relevant; no Eastern Whip-poor-will or Bobolink observed nesting within Project Site. 6.2 (f) and 6.4 (e): excel spreadsheets with Eastern Whip-poor-will and Bobolink survey data submitted separately to MNRF. Figure 4-1: 2018 Eastern Whip-poor-will Survey Stations. Figure 4-2: 2018 Bobolink Survey Stations.
(c)	an analysis of monitoring results for the specified survey sequence including an estimate and illustration of site occupancy.	Section 5.0 Results. Figure 5-1: 2018 Eastern Whip-poor-will observations. Figure 5-4: 2018 Bobolink observations.
(d)	A summary of any habitat management activities taken.	Section 6.0 Summary of Habitat Management Activities Undertaken.
(e)	A summary of any Operation Activities that occurred within the Project Site during the previous year. If relevant, the report shall include information related to: i. Dates that the activities took place; ii. Duration of the activities iii. Location and extent of the activities; and iv. Nature of the activities (e.g., blasting, stockpiling, etc.).	Table 2-1 Operation Activities Undertaken in 2018.
(f)	With respect to Eastern Whip-poor-will: i. An assessment of the quality and functionality of habitat rehabilitated, created, enhanced or managed in accordance with this permit, including an estimate and illustration of the number of occupancy areas located at the Project Site, and the Eastern Whip-poor-will Overall Benefit Area. ii. A description of Acoustic Audits and any abatement measures implemented.	i. Section 5.0 Results. ii. Sections 4.3 and 5.4 Sound Monitoring. Table 5-3 Eastern Whip-poor-will Receptor Habitat Sound Monitoring Results. Appendix A Whip-poor-will Habitat Receptor Sound Monitoring Report 2018.
(g)	With respect to Bobolink: i. A summary of Bobolink Overall Benefit Area occupancy, nesting periods and fledgling dates through the survey sequence, contrasted with past sequences. ii. A summary of recommendations received, and technical data on field productivity and state of management used to support decisions on Renewal	i. Occupancy, nesting periods and fledging dates noted. ii. Section 6.4 Bobolink Overall Benefit Areas
(h)	The criteria by which the Permit Holder assessed the success of the habitat creation and/or management measures, and statement on the effectiveness.	Not applicable during current reporting period.

Permit Condition 7.3	Monitoring Reporting Conditions	Relevant Section of 2018 Species at Risk Report
(i)	An assessment of impacts of succession, or management of vegetation communities.	Not applicable during current reporting period.
(j)	Within an appendix of the report, a summary regarding training provided to staff as described under Condition 4.3.	Appendix C: Record of Species at Risk Training Provided to Staff.
(k)	Within an appendix, a summary of any mortality events occurring either at the Project Site or the Species Overall Benefit Areas and where applicable the AEWHA(s), and adaptive management considerations that may minimize future mortality events.	Section 7.0 Summary of Mortality Events and Associated Adaptive Management Measures
(l)	For all species listed on the Species at Risk in Ontario List observed within the Project Site, the Permit Holder shall submit a Species Encounter Reporting Form, within 30 days of the encounter or observance.	Appendix B: New Gold 2017 Species at Risk Observations.

Table 2-1: Equipment Operating Hours in 2018

Equipment	Operating Hours
Dozers	172,858
Excavators	129,558
Graders	40,662
Loaders	19.734
Packers	18,018
Rock Trucks	177,606
Mechanical & Service Trucks	150,150
Fuel Trucks	12,012
Miscellaneous Pick-up Trucks	117,702
Drills	43,967

Table 2-2: Operation Activities undertaken in 2018

Construction Activities	Status	Start	End	Comments
Water Discharge Pond	Complete	August 2018	September 2018	Earthworks at the Water Discharge Pond for construction of the dam, spillway and associated haul roads required.
WMP Seepage Collection System	Complete	April 2018	August 2018	Earthworks at the TMA North Dam associated with completing the seepage collection pond, ditch, finger drains, sumps, spillways, drainage pipes and required haul roads.
West Creek Diversion (Removal of Temporary Structures + Stabilization)	Complete	August 2018	October 2018	Earthworks associated diverting the West Creek including the removal of existing culverts, installation of a low flow channel, completion of berms, channels, plugs and stabilization works.
Sediment Ponds	Pending Items	April 2018	November 2018	Earthworks at Sediment Ponds 1 and 2 for construction of the dam, pond, spillway, ancillary hydraulic structures and associated haul roads Repairs to be completed in Spring 2019.
TMA Lifts – Filter Sand	Complete	January 2018	November 2018	Contractors providing sand and crushed rock necessary for Dam raises.
TMA Stage 1 (Cell 2 Construction including Instrumentation)	Complete	January 2018	July 2018	Earthwork activities to raise Dam for Cell 2 to an elevation of 366.5.
TMA Stage 1 (Cell 3 Construction including Instrumentation)	Complete	April 2018	October 2018	Earthwork activities to raise Dam for Cell 3 to an elevation of 366.6.
Clearing of TMA	Complete	--	--	Tree activities throughout TMA footprint.
TMA Fencing – Long Term (Deer)	Ongoing	October 2018	May 2019	Bottom portion of fence to be completed after winter thaw (May 2019).
Site Plant Lighting	Complete	January 2018	October 2018	Engineering, supply and installation of 16 LED lights (including all required hardware, transformers, poles etc.) throughout the Plant Site area.

Table 5-1: Summary of Eastern Whip-poor-will Observations within and Peripheral to the Mine Site 2015-2018 (Phase 1)

Number of Eastern Whip-poor-will Observed			
2015	**2016**	**2017**	**2018**
8 in Project Site 11 around	7 in Project Site 7 around	1 in Project Site 8 around	*2 in Project Site* *14 around*

Table 5-2: Summary of Eastern Whip-poor-will Observations within Overall Benefit Areas 2015-2018 (Phase 2)

Number of Eastern Whip-poor-will Observed			
2015	**2016**	**2017**	**2018**
11 in North 11 in South	27 in North 12 in South	29 in North 10 in South	*43 in North* *10 in South*

Table 5-3: 2018 Eastern Whip-poor-will Receptor Habitat Sound Monitoring Results

Monitoring Results	North Receptor	South Receptor
May 1 to May 7		
Total hourly data records	168	167
Hourly data records with inclement weather	42	42
Hourly data records without inclement weather	126	125
Number of exceedances of the hourly Leq 50 dBA threshold – all data	2	2
Number of exceedances of the hourly Leq 50 dBA threshold – not due to inclement weather condition*	1	1
June 1 to June 7		
Total hourly data records	168	168
Hourly data records with inclement weather	80	80
Hourly data records without inclement weather	88	88
Number of exceedances of the hourly Leq 50 dBA threshold – all data	10	11
Number of exceedances of the hourly Leq 50 dBA threshold – not due to inclement weather condition*	0	0

Note:
Data taken from Amec Foster Wheeler (2018)
* Exceedance caused by birds chirping and/or other wildlife activities (not caused by Project-related activities)

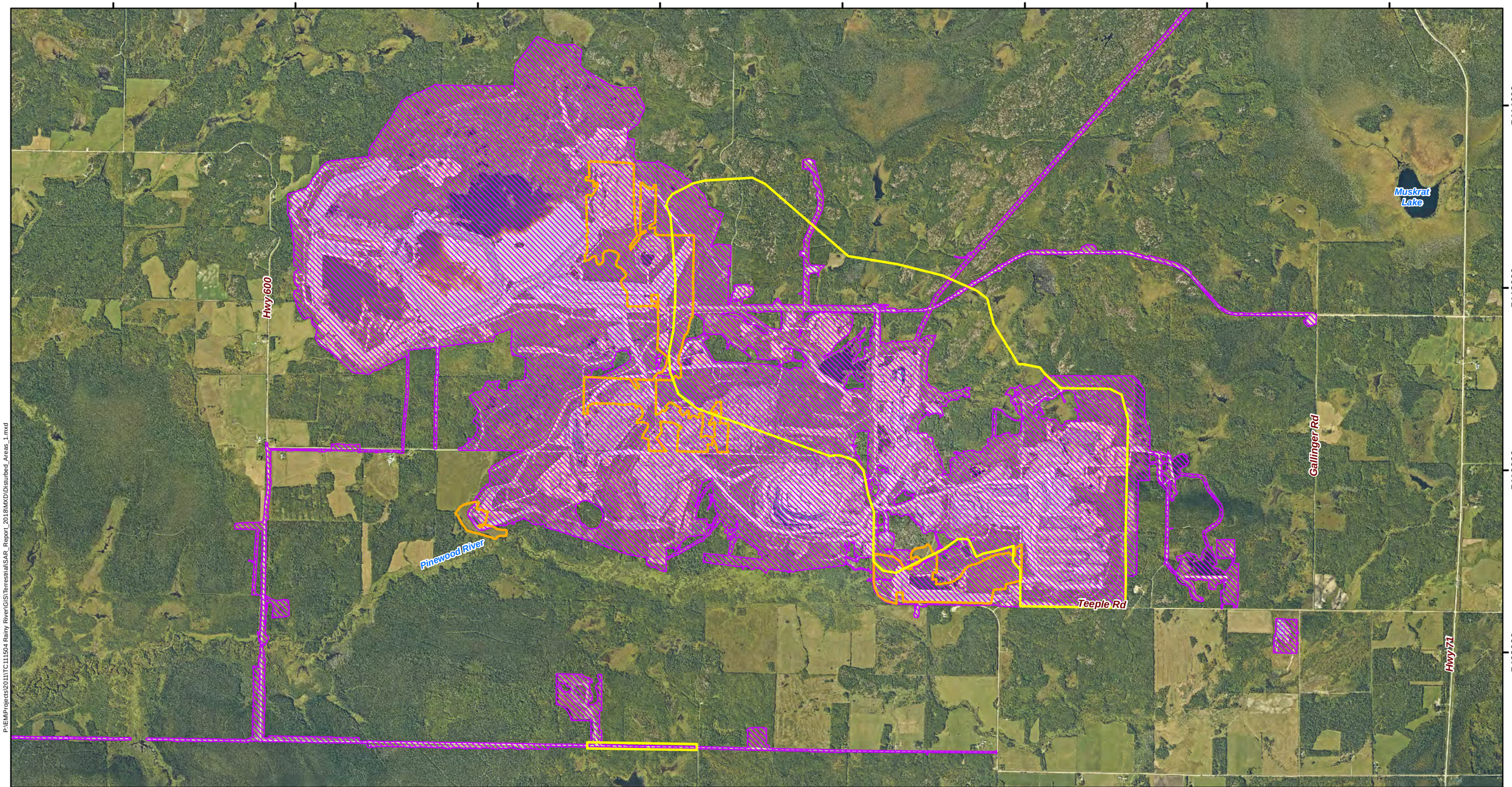
Table 5-4: Summary of Bobolink Observations within Overall Benefit Areas 2015-2018 (Phase 2)

Number of Bobolink Observed			
2015	**2016**	**2017**	**2018**
94	94	65	89

Table 5-5: Summary of Other Species at Risk Observations 2015-2018

Species	2015	2016	2017	2018
American White Pelican	4 (fly overs)	0	1	22
Barn Swallow	29	25	21	71
Bank Swallow	0	23	0	0
Bald Eagle	3 (fly overs)	1	2	5
Canada Warbler	4	10	0	12
Common Nighthawk	13	4	4	9
Eastern Wood-pewee	18	0	7	12
Eastern Meadowlark	1	0	0	0
Evening Grosbeak	0	0	0	3
Golden-winged Warbler	16	26	7	26
Olive-sided Flycatcher	0	1	0	4
Red-headed Woodpecker	0	2	0	0
Wood Thrush	4	0	3	29

Figures



LEGEND

- Whip-poor-will Impacted Habitat (from MNRF, October 14, 2014)
- Bobolink Impacted Habitat (from MNRF, October 14, 2014)
- Disturbance Areas (as of October 2018)

NOTES:
- Imagery Scene from September 6, 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF
- Disturbance areas provide by New Gold, January 7, 2019.

Datum: NAD83
Projection: UTM Zone 15N

0 1 2 4 6 8 10 Kilometres

newgold™ Rainy River Project wood.

RAINY RIVER MINE

Disturbance Areas and Species at Risk Habitat

PROJECT N°: TC111504 | **FIGURE: 2-1**

SCALE: 1:40,000 | DATE: January 2019

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MCW-32 MCW-34 MCW-33 MCW-35 MCW-A MCW-29 MCW-71 MCW-28 MCW-B MCW-39 MCW-04 MCW-06 MCW-25 MC-72 MCW-05 MCW-D MCW-08 MCW-76 MCW-03 MCW-41 MCW-70 MCW-C MCW-10 MCW-22 MCW-02 MCW-42 MCW-68 MCW-66 MCW-69 MCW-01 MCW-09 MCW-21 MCW-14 MCW-65 MCW-58 MCW-13 MCW-12 MCW-11 MCW-52 MCW-80 MCW-76A MCW-57 MCW-20 MCW-19 MCW-40 MCW-43 MCW-50 MCW-18 MCW-63 MCW-48 MCW-59 MCW-38 MCW-51 MCW-56 MCW-49 MCW-79 MCW-17 MCW-16 MCW-47 MCW-37

MCW-99 MCW-96 MCW-97 MCW-94 MCW-87 MCW-85 MCW-98 MCW-93 MCW-91 MCW-86 MCW-100 MCW-92 MCW-88 MCW-82 MCW-81 MCW-83 MCW-84

W-1 W-2 W-4 W-3 W-5 W-6 W-22 W-24 W-21 W-19 W-23 W-20 W-18 W-17 W-10 W-13 W-14 W-15 W-16 W-11 W-7 W-8 W-9 W-12

Spiltrock River
Kishkatoos's River
Lod Creek
Hwy 617
Pinewood River
Sturgeon Creek

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LEGEND

- Monitoring Stations Located on Whip-poor-will Compensation Lands
- Additional Whip-poor-will Stations (Periphery of Mine Site)
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

0 1 2 4 6 8 10 Kilometres

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newgold™ Rainy River Project wood.

RAINY RIVER MINE

2018 Eastern Whip-poor-will Survey Stations

PROJECT N^{O}: TC111504	**FIGURE: 4-1**
SCALE: 1:75,000	DATE: January 2019

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B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 B-10 B-11 B-12 B-13 B-14 B-15 B-16 B-17 B-18 B-19 B-20 B-21 B-22 B-23 B-25 B-26 B-27 B-28 B-29 B-30 B-31 B-32 B-33 B-34 B-35 B-36 B-37 B-38 B-39 B-40 B-41 B-42 B-43 B-44

Mattiesi Rd
Spillrock River
Hwy 600
Kishkatoosis River
Richardson Rd
Strachan Rd
Log Creek
Hwy 71
Fisher Rd
Hwy 617
Pinewood River
Caul Rd
Tait Rd
Barwick Rd
Sturgeon Creek

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LEGEND

- Monitoring Stations Located on Bobolink Compensation Lands
- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

0 1 2 4 6 8 10 Kilometres

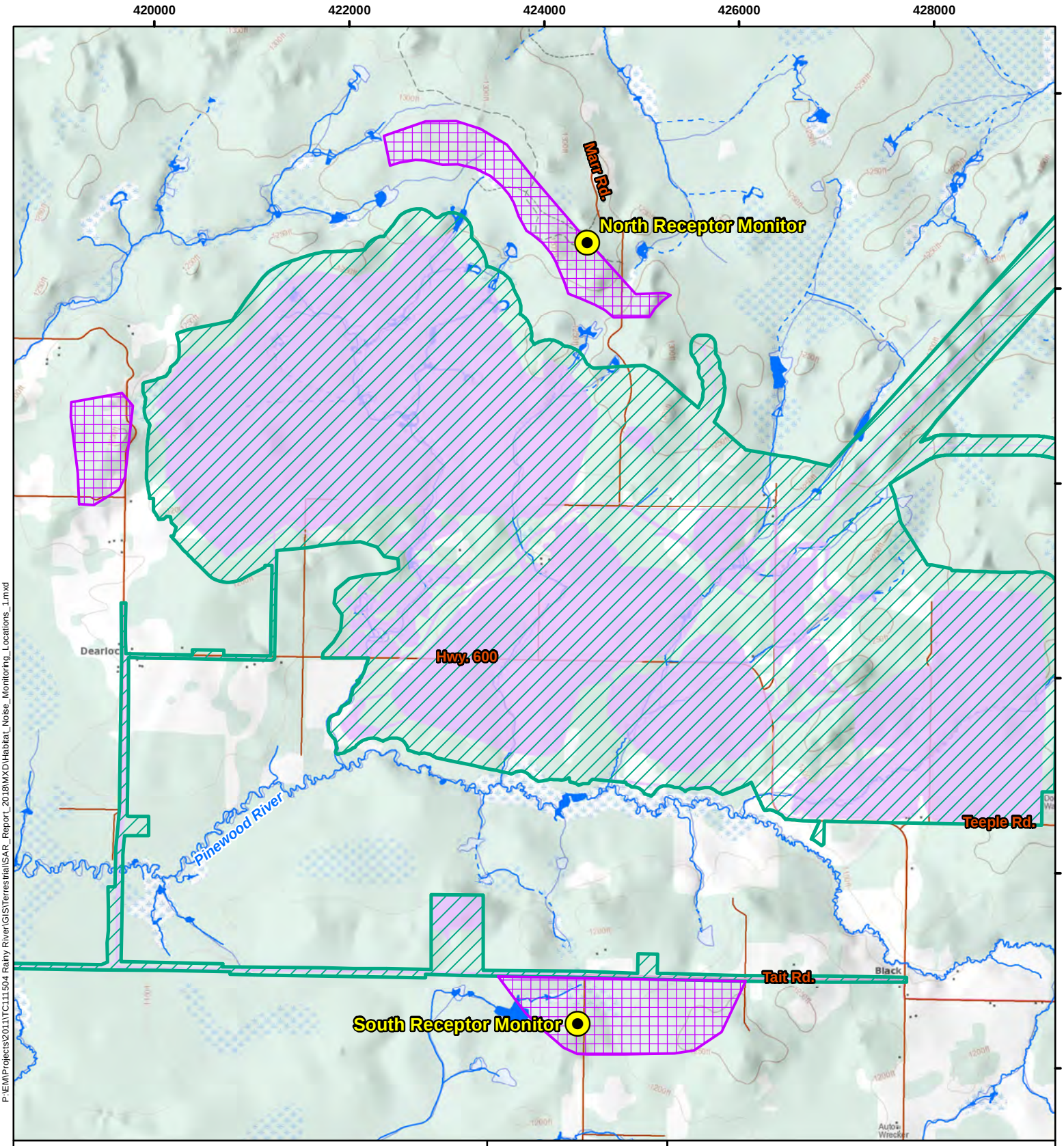
N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2018 Bobolink Survey Stations

PROJECT N^{o}: TC111504	**FIGURE: 4-2**
SCALE: 1:75,000	DATE: January 2019



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LEGEND

- Approximate Principal RRM Facilities
- 2015 Noise Monitoring Locations
- Whip-poor-will Receptor Habitat
- Project Site Boundary (ESA)

NOTES:

Datum: NAD83
Projection: UTM Zone 15N

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newgold™ Rainy River Project wood.

RAINY RIVER MINE

Eastern Whip-poor-will Receptor Habitat Noise Monitoring Locations

PROJECT N°: TC111504	**FIGURE: 4-3**
SCALE: 1:53,000	DATE: January 2019

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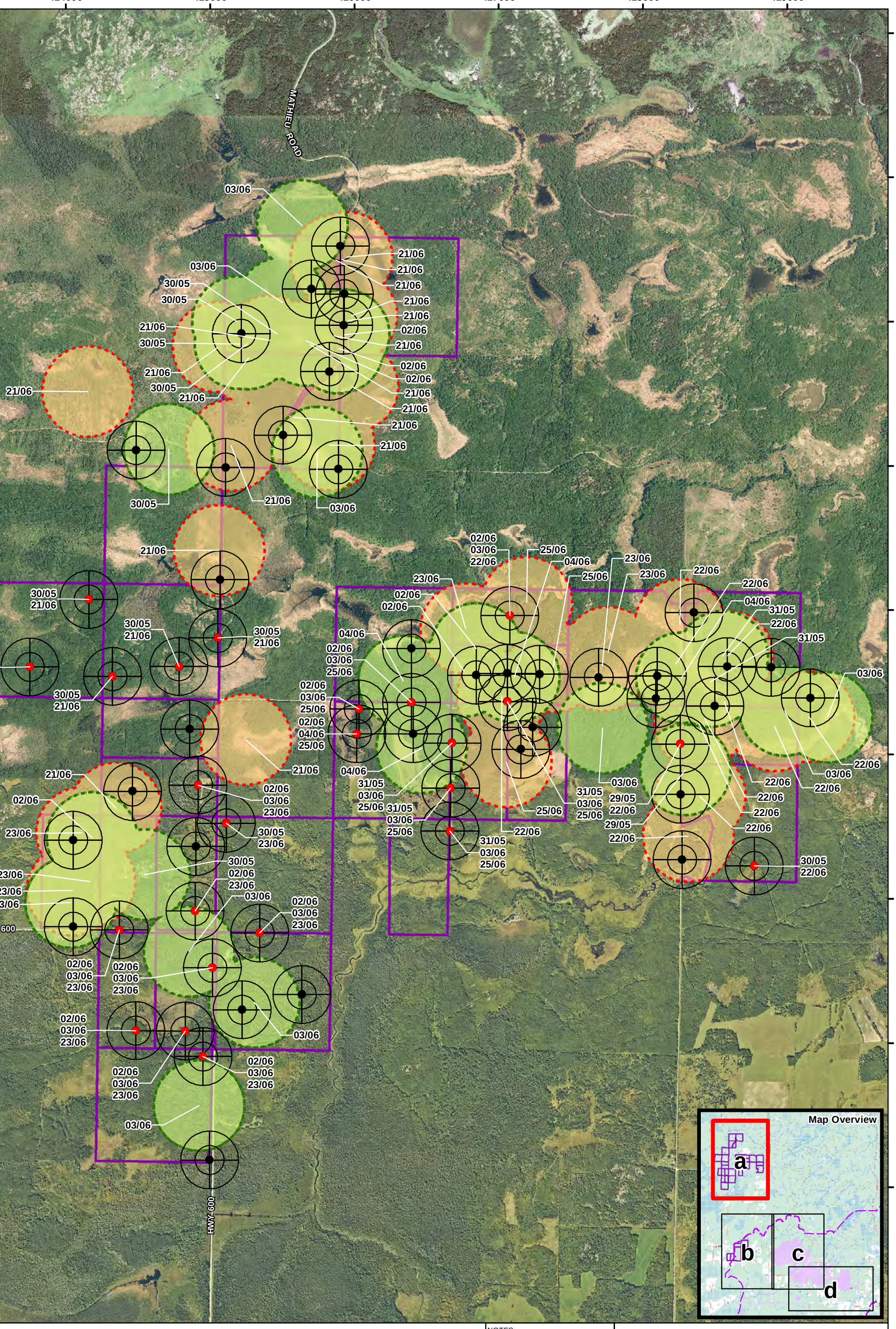

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LEGEND

- Whip-poor-will Observation - Core Use Area (Round 1) (Labelled with day and month of observation)
- Whip-poor-will Observation - Core Use Area (Round 2) (Labelled with day and month of observation)
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area (LSA)
- Whip-poor-will Survey Quadrants

Whip-poor-will Survey Locations

- No Whip-poor-will Observed (Labelled with day and month of survey)
- Whip-poor-will Observed

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

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N W E S

newgold Rainy River Project wood.

RAINY RIVER MINE

2018 Eastern Whip-poor-will Observations

PROJECT N^{o}: TC111504	**FIGURE: 5-1a**
SCALE: 1:25,000	DATE: January 2019

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HWY 617

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Map Overview

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LEGEND

- Whip-poor-will Observation - Core Use Area (Round 1) (Labelled with day and month of observation)
- Whip-poor-will Observation - Core Use Area (Round 2) (Labelled with day and month of observation)
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area (LSA)
- Whip-poor-will Survey Quadrants

Whip-poor-will Survey Locations

- No Whip-poor-will Observed (Labelled with day and month of survey)
- Whip-poor-will Observed

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

0 0.25 0.5 1 1.5 2 2.5 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2018 Eastern Whip-poor-will Observations

PROJECT N^{o}: TC111504	**FIGURE: 5-1b**
SCALE: 1:24,000	DATE: January 2019

421000 422000 423000 424000 425000 426000

5417000 5416000 5415000 5414000 5413000 5412000 5411000 5410000 5409000

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27/06
02/06
27/06
Roen Rd.
04/06
26/06
HWY 600

Map Overview
a
b
c
d

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LEGEND

- Whip-poor-will Observation - Core Use Area (Round 1) (Labelled with day and month of observation)
- Whip-poor-will Observation - Core Use Area (Round 2) (Labelled with day and month of observation)
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area (LSA)
- Whip-poor-will Survey Quadrants

Whip-poor-will Survey Locations

- No Whip-poor-will Observed (Labelled with day and month of survey)
- Whip-poor-will Observed

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

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N W E S

newgold Rainy River Project wood.

RAINY RIVER MINE

2018 Eastern Whip-poor-will Observations

PROJECT N^{o}: TC111504	**FIGURE: 5-1c**
SCALE: 1:24,000	DATE: January 2019

422000 423000 424000 425000 426000 427000 428000 429000 430000 431000

5411000 5410000 5409000 5408000 5407000

Roein Rd.

HWY 600

TAIT ROAD

BARWICK ROAD

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03/06
27/06

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26/06

02/06
26/06

02/06

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04/06
26/06

Map Overview

a b c d

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LEGEND

- Whip-poor-will Observation - Core Use Area (Round 1) (Labelled with day and month of observation)
- Whip-poor-will Observation - Core Use Area (Round 2) (Labelled with day and month of observation)
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area (LSA)
- Whip-poor-will Survey Quadrants

Whip-poor-will Survey Locations

- No Whip-poor-will Observed (Labelled with day and month of survey)
- Whip-poor-will Observed

0 0.25 0.5 1 1.5 2 2.5 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project | wood.

RAINY RIVER MINE

2018 Eastern Whip-poor-will Observations

PROJECT N^{O}: TC111504 | **FIGURE: 5-1d**

SCALE: 1:24,000 | DATE: January 2019

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5428000 5427000 5426000 5425000 5424000 5423000 5422000 5421000 5420000

MATHIEU ROAD

HWY 600

HWY 600

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Map Overview

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LEGEND

- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area

2018 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2017 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2016 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2015 Eastern Whip-poor-will Observations
- Round 1
- Round 2

0 0.25 0.5 1 1.5 2 2.5 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2015 - 2018 Eastern Whip-poor-will Observations

PROJECT N^{o}: TC111504	**FIGURE: 5-2a**
SCALE: 1:25,000	DATE: January 2019

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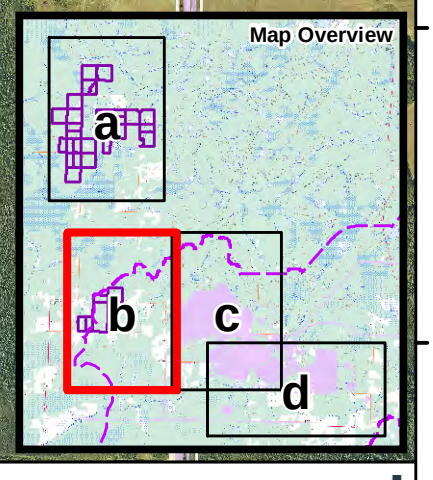
HWY 617

HWY 600



P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\EWPW_Estimated Location 2015 to 2018 Portrait 1.mxd

LEGEND

- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area

2018 Eastern Whip-poor-will Observations: Round 1, Round 2

2017 Eastern Whip-poor-will Observations: Round 1, Round 2

2016 Eastern Whip-poor-will Observations: Round 1, Round 2

2015 Eastern Whip-poor-will Observations: Round 1, Round 2

0 0.25 0.5 1 1.5 2 2.5 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2015 - 2018
Eastern Whip-poor-will Observations

PROJECT No: TC111504	**FIGURE: 5-2b**
SCALE: 1:24,000	DATE: January 2019

421000 422000 423000 424000 425000 426000

5417000 5416000 5415000 5414000 5413000 5412000 5411000 5410000 5409000

Roen Rd.

HWY 600

Map Overview

a b c d

P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\EWPW Estimated Location 2015 to 2018 Portrait 1.mxd

LEGEND

- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area

2018 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2017 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2016 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2015 Eastern Whip-poor-will Observations
- Round 1
- Round 2

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

0 0.25 0.5 1 1.5 2 2.5 Kilometres

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2015 - 2018
Eastern Whip-poor-will Observations

PROJECT N^{O}: TC111504	**FIGURE: 5-2c**
SCALE: 1:24,000	DATE: January 2019

422000 423000 424000 425000 426000 427000 428000 429000 430000 431000

5411000 5410000 5409000 5408000 5407000

Roen Rd.

HWY 600

TALT ROAD

BARWICK ROAD

Map Overview

a b c d

Document Path: P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\EWPW_Estimated_Location_2015_to_2018_Landscape_1.mxd

LEGEND

- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area (LSA)

2018 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2016 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2017 Eastern Whip-poor-will Observations
- Round 1
- Round 2

2015 Eastern Whip-poor-will Observations
- Round 1
- Round 2

0 0.25 0.5 1 1.5 2 2.5 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2015 - 2018
Eastern Whip-poor-will Observations

PROJECT N^{0}: TC111504 | **FIGURE: 5-2d**

SCALE: 1:24,000 | DATE: January 2019

415000 420000 425000 430000 435000 440000

5435000 5430000 5425000 5420000 5415000 5410000 5405000 5400000 5395000

MATHIEU WEST RD
MATHIEU RD
GOHERE BAY RD
BURNT CK RD
STRACHAN RD
HWY 401 EAST RD
FISHER RD
HWY 600
HWY 615
HWY 71
HWY 617
TAIT RD
BARWICK RD
ANGUS RD
OFF LK RD
MOULTON RD
CON RD
SCHRAM RD

P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR_Report_2018\MXD\EWPW_Estimated_Location_2010_to_2013_1.mxd

LEGEND

- AMEC 2013 Whip-poor-will Observations
- AMEC 2012 Whip-poor-will Observations
- AMEC 2011 Whip-poor-will Observations
- MNR/Trent U. (CRA) 2012 Geographic Mean Centre of Telemetry Record Point Clusters
- MNR 2010 Whip-poor-will Observations
- KCB 2010 Whip-poor-will Observations
- Transmission Line
- Road
- Watercourse
- Waterbody
- Natural Local Study Area
- Whip-poor-will Compensation Areas
- Project Site Boundary (ESA)
- Approximate Principal RRM Facilities

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercouse data extracted from Land Information Ontario, MNRF.
- Base map data from Geogratis NRCan Toporama DRG 1:50k sheets.

Datum: NAD83
Projection: UTM Zone 15N

0 1 2 4 6 8 10 Kilometres

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2010 - 2013
Eastern Whip-poor-will Observations

PROJECT N^0: TC111504	**FIGURE: 5-3**
SCALE: 1:115,000	DATE: January 2019

415000 420000 425000 430000

5415000 5410000 5405000

Highway 600 Hwy 17 Pinewood River Caul Rd Barwick Rd Highway 613

LEGEND

- Survey Locations Where Bobolink Were Observed (Labelled with number of individuals, if greater than 1)
- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

0 2.5 5 10 15 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2018 Bobolink Observations

PROJECT N°: TC111504 | **FIGURE: 5-4**

SCALE: 1:57,000 | DATE: January 2019

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415000 420000 425000 430000 435000

5410000

5405000

Highway 600 | Pollard Rd | Hwy 617 | Pinewood Blvd | Caul Rd | Berwick Rd | Highway 615 | HOWEY 21

2015: 1 2016: 4 2017: 1 2018: 2
2015: 5 2016: 3 2017: 4 2018: 4
2015: 5 2016: 3 2017: 2 2018: 3
2015: 1 2017: 1 2018: 2
2017: 1
2017: 1 2018: 3
2015: 1 2017: 2 2018: 5
2015: 4 2016: 2 2017: 2 2018: 2
2016: 1
2016: 1 2017: 3 2018: 3
2015: 2 2016: 4 2017: 2 2018: 6
2015: 1 2017: 1
2015: 6 2016: 2 2017: 1 2018: 2
2015: 1 2016: 2 2017: 1 2018: 1
2015: 2 2016: 1 2017: 2 2018: 4
2015: 2 2016: 4 2017: 1 2018: 1
2015: 2 2016: 2 2017: 1
2015: 1 2016: 3 2018: 4
2015: 2 2016: 1 2018: 4
2015: 3 2016: 2 2017: 1
2015: 1 2016: 2 2017: 3 2018: 5
2015: 1 2016: 3 2017: 2
2015: 3 2016: 2 2017: 5 2018: 10
2015: 4 2016: 6 2017: 5
2015: 3 2016: 4 2018: 3
2015: 4 2016: 4 2017: 4 2018: 2
2015: 3 2016: 1 2017: 1 2018: 2
2015: 4 2016: 5 2017: 1
2015: 3 2016: 2 2017: 2 2018: 3
2017: 1
2015: 2 2016: 3 2017: 1
2015: 6 2016: 4 2017: 2 2018: 2
2015: 1 2016: 1 2018: 1
2015: 4 2016: 2 2018: 3
2015: 8 2016: 2 2018: 2
2015: 7 2016: 4 2018: 1
2015: 1 2016: 3 2017: 1
2015: 4 2016: 3 2017: 2 2018: 3
2015: 3 2016: 3 2017: 2 2018: 6
2015: 3 2016: 4 2017: 2 2018: 3
2015: 3 2016: 4 2017: 2 2018: 7
2015: 7 2016: 6 2017: 2 2018: 4
2016: 1 2018: 1
2015: 1 2018: 1
2015: 4 2016: 2 2018: 1
2016: 2
2015: 2 2016: 1
2016: 1

LEGEND

- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody
- Survey Locations Where Bobolink Were Observed (2015 - 2018) (Labelled year and number of individuals observed)

NOTES:
- Imagery Scene from 20 July 2014, and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

0 2.75 5.5 11 16.5 Kilometres

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2015 - 2018 Bobolink Observations

PROJECT N°: TC111504 | **FIGURE: 5-5**

SCALE: 1:62,000 | DATE: January 2019

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405000 412500 420000 427500 435000 442500

5422500 5415000 5407500

Sifton Township Conservation Reserve

Spruce Island Provincial Park

Rainy Lake I.R. No. 17B

Burditt Lake

Little Pine Lake

Boundary Lake

Off Lake

Muskrat Lake

Pinewood Lake

Abbott Lake

Hwy 619

Hwy 617

Hwy 600

Hwy 615

Hwy 71

Kishkakoesis River

Pinewood River

P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\Bobolink Obs 2010to2012 and 2014 1.mxd

LEGEND

- Transmission Line
- Road
- Permanent Watercourse
- Intermittent (Intermittent Watercourse)
- Waterbody
- Natutral Local Study Area
- Whip-poor-will Compensation Areas
- Project Site Boundary (ESA)
- Approximate Principal RRM Facilities

Bobolink Observations and Habitat Information
(Labelled with number of individuals, if greater than 1)

- Bobolink Observation (AMEC 2014)
- Bobolink Observation (AMEC 2012)
- Bobolink Observation (AMEC 2011)
- Bobolink Observation (KCB 2010)
- Bobolink Habitat - (Agriculture and Cultural Meadow Areas, derived from FRI and Ecosite data)

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF
- Base map data from Geogratis NRCan Toporama DRG 1:50k sheets.
- Habitats derived from MNRF FRI data, MNR Ecosite data and conversion into Provincial ELC classes

Datum: NAD83
Projection: UTM Zone 15N

0 5 10 20 30 Kilometres

newgold™ Rainy River Project wood.

RAINY RIVER MINE

2010 - 2012 and 2014 Bobolink Observations

PROJECT N^{o}: TC111504 | **FIGURE: 5-6**

SCALE: 1:112,000 | DATE: January 2019

415000 420000 425000 430000 435000

5425000

5420000

5415000

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Map Overview

a

b

LEGEND

- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

2018 Survey Stations Where Species at Risk Were Observed (Labelled with number of individuals, if greater than 1)

- American White Pelican
- Bald Eagle
- Barn Swallow
- Canada Warbler
- Common Nighthawk
- Eastern Wood-pewee
- Evening Grosbeak
- Golden-winged Warbler
- Olive-sided Flycatcher
- Wood Thrush

0 2.5 5 10 15 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

Other Species at Risk Observations in 2018

PROJECT N^{O}: TC111504	**FIGURE: 5-7a**
SCALE: 1:65,000	DATE: January 2019

415000 420000 425000 430000 435000

5410000

5405000

P:\EMP\projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\Other SAR Observations 2018 2.mxd

Hwy 617 Hwy 600 Hwy 600 Hwy 600 Hwy 617 Hwy 600 Hwy 600 Hwy 600 Hwy 600 Hwy 600 Hwy 600 Hwy 600

Pinewood River Tait Rd Cawl Rd Barrick Rd Angus Rd Hwy 600

2 2 2 2 7 8 2 2 3 2 3 9 2 35 14

Map Overview

a

b

LEGEND

- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

2018 Survey Stations Where Species at Risk Were Observed (Labelled with number of individuals, if greater than 1)

- American White Pelican
- Bald Eagle
- Barn Swallow
- Canada Warbler
- Common Nighthawk
- Eastern Wood-pewee
- Evening Grosbeak
- Golden-winged Warbler
- Olive-sided Flycatcher
- Wood Thrush

0 2.5 5 10 15 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

Other Species at Risk Observations in 2018

PROJECT N^{O}: TC111504	**FIGURE: 5-7b**
SCALE: 1:65,000	DATE: January 2019

415000 420000 425000 430000 435000

5425000

5420000

5415000

P:\EM\Projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\Other_SAR_Observations_2015_2018_1.mxd

Map Overview

a

b

LEGEND

- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

2015 - 2018 Survey Stations Where Species at Risk Were Observed
(Labelled with number of individuals, if greater than 1)

Year of Observation
- 2018
- 2017
- 2016
- 2015

Species
- Olive-sided Flycatcher
- Red-Headed Woodpecker
- American White Pelican
- Bald Eagle
- Bank Swallow
- Barn Swallow
- Canada Warbler
- Common Nighthawk
- Eastern Meadowlark
- Eastern Wood-pewee
- Evening Grosbeak
- Golden-winged Warbler
- Wood Thrush

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

0 2.5 5 10 15 Kilometres

newgold™ Rainy River Project wood.

RAINY RIVER MINE

Other Species at Risk Observations in 2015 - 2018

PROJECT N°: TC111504 | **FIGURE: 5-8a**

SCALE: 1:65,000 | DATE: January 2019

415000 420000 425000 430000 435000

5410000

5405000

Nest

Inactive Nest

Nest

Hwy 617

Hwy 600

Hwy 600

Hwy 600

Pinewood River

Hwy 617

Hwy 600

Tait Rd

Hwy 600

Caul Rd

Barnacle Rd

Hwy 600

Andrus Rd

Map Overview

a

b

P:\EMP projects\2011\TC111504 Rainy River\GIS\Terrestrial\SAR Report 2018\MXD\Other SAR Observations 2015 2018 1.mxd

LEGEND

- Bobolink Compensation Areas
- Whip-poor-will Compensation Areas
- Approximate Principal RRM Facilities
- Project Site Boundary (ESA)
- Natural Local Study Area
- Road
- Watercourse
- Waterbody

2015 - 2018 Survey Stations Where Species at Risk Were Observed
(Labelled with number of individuals, if greater than 1)

Year of Observation
- 2018
- 2017
- 2016
- 2015

Species
- Olive-sided Flycatcher
- Red-Headed Woodpecker
- American White Pelican
- Bald Eagle
- Bank Swallow
- Barn Swallow
- Canada Warbler
- Common Nighthawk
- Eastern Meadowlark
- Eastern Wood-pewee
- Evening Grosbeak
- Golden-winged Warbler
- Wood Thrush

0 2.5 5 10 15 Kilometres

NOTES:
- Imagery Scene from 20 July 2014, 6 June 2017 and 6 September 2018
- Road and watercourse data extracted from Land Information Ontario, MNRF

Datum: NAD83
Projection: UTM Zone 15N

N W E S

newgold™ Rainy River Project wood.

RAINY RIVER MINE

Other Species at Risk Observations in 2015 - 2018

PROJECT N°: TC111504	**FIGURE: 5-8b**
SCALE: 1:65,000	DATE: January 2019

Appendix A

Whip-poor-will Habitat Receptor Sound Monitoring Report 2018

2018 Whip-poor-will Habitat Receptor Sound Monitoring Report

Rainy River Mine
Chapple, ON
TC111504.2018.5

Prepared for:

New Gold Inc.
5967 Hwy 11 / 71, P.O. Box 5, Emo, Ontario P0W 1E0

11-Jan-19

Wood Environment & Infrastructure Solutions
160 Traders Blvd. E.
Suite 110
Mississauga, ON, L4Z 3K7
Canada
T: 905-568-2929
www.woodplc.com

11-Jan-19

New Gold Inc.
Rainy River Mine
5967 Hwy 11 / 71, P.O. Box 5
Emo, Ontario P0W 1E0

Attn: Sylvie St. Jean, Environmental Manager

Dear Sylvie St. Jean,

RE: 2018 Whip-Poor-Will Habitat Receptor Sound Monitoring Program

Wood Environment & Infrastructure Solutions, a Division of Wood Canada Limited (hereinafter referred to as Wood), is a leading environment and infrastructure, engineering, consulting and project management organization. Our team of professionals provides a full range of services to clients in a wide range of sectors including government, industrial & commercial, water, transportation, minerals & metals, oil & gas clients and clean energy. Environment and Infrastructure's core competencies are in environmental assessments, health and environmental risk assessment, environmental geology (site investigation), remediation engineering, geotechnical engineering and testing, and water resource services.

Wood is pleased to submit to New Gold Inc. (New Gold) the attached report summarizing the results of the 2018 whip-poor-will habitat sound monitoring program at the Rainy River Mine. The monitoring program was undertaken during the weeks of May 1-7 and June 1-7, 2018.

Wood appreciates the opportunity to provide support to the Rainy River Mine. Should you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,
Wood Environment & Infrastructure Solutions
a Division of Wood Canada Limited

Dan Russell, P.Geo.
Associate Geoscientist

2018 Whip-poor-will Habitat Receptor Sound Monitoring Report

Rainy River Mine

Chapple, ON

TC111504.2018.5

Prepared for:
New Gold Inc.
5967 Hwy 11 / 71, P.O. Box 5, Emo, Ontario P0W 1E0

Prepared by:
Wood Environment & Infrastructure Solutions
160 Traders Blvd. E.
Suite 110
Mississauga, ON, L4Z 3K7
Canada
T: 905-568-2929

11-Jan-19

Executive summary

The Rainy River Mine (RRM) is located approximately 65 kilometres by road, northwest of Fort Frances in northwestern Ontario. Wood Environment & Infrastructure Solutions (Wood) was retained by New Gold Inc. (New Gold) to complete a sound monitoring study at two Eastern Whip-poor-will habitat receptor locations adjacent to the RRM site. The sound monitoring study is required by the Ministry of Natural Resources and Forestry *Endangered Species Act* Overall Benefits Permit No. FF-C-001-14 (the Permit).

During the field program, the RRM was transitioning from the development phase to the operational phase. The main activities associated with the operations at the time were aggregate extraction, material handling, vehicle movement, plant operations, crushing operations and other mining fleet operations. The Permit requires monitoring sound levels at two whip-poor-will habitat receptor areas near the RRM site every year during the beginning of May and June. The purpose of this sound monitoring study is to confirm that the RRM construction and operational sound levels are within the Sound Level Threshold (50 dBA (A-weighted decibels)), as specified in the Permit. This assessment was completed by Qualified Professionals as required by the Permit under Sections 3.1 and 4.1(g).

Bruel & Kjaer 2250E Class 1 integrating sound level meters were used for the sound level measurements. The monitors were set to automatically measure the A-weighted hourly energy equivalent sound level (L_{Aeq-1h}) and to continuously record audio. Monitored sound levels can be affected by meteorological conditions and to account for this influence, weather data was obtained from the RRM's Barron site weather station to identify periods when monitored sound levels could have been affected.

Measurements were conducted during regular site activities required for the transition from the development to the operational phase. The sound levels collected during periods of inclement weather were not considered for this assessment, but were reported.

The hourly sound levels were within the Sound Level Threshold for 331 out of 336 hours of data collected at the receptor locations. One exceedance hour revealed contributions from both RRM equipment and wildlife; however, it is inconclusive as to which source was the cause of the exceedance. A review of the remaining exceedances' audio files revealed they were caused by either wildlife activities or wind. As the recordings did not reveal any exceedances which were primarily caused by the RRM site-related activities, the sound levels measured at the whip-poor-will receptor locations are believed to have been in compliance with the 50 dBA Sound Level Threshold during the monitoring periods of May and June 2018.

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1.0 Introduction

The Rainy River Mine (RRM) is located approximately 65 kilometres (km) by road, northwest of Fort Frances, Ontario. Wood Environment & Infrastructure Solutions (Wood) was retained by New Gold Inc. (New Gold) to complete a sound monitoring study at two Eastern Whip-poor-will habitat receptor locations adjacent to the RRM site. The sound monitoring study is required by the Ministry of Natural Resources and Forestry (MNRF) *Endangered Species Act* (ESA) Overall Benefits Permit No. FF-C-001-14.

During the field program, the RRM was transitioning from the development phase to the operational phase. The main activities associated with the current operations at the time were aggregate extraction, material handling, vehicle movement, plant operations, crushing operations, open pit development and other mining fleet operations.

The MNRF ESA Permit requires monitoring of sound levels at two whip-poor-will habitat receptor areas near the RRM site at the beginning of May and June every year. The purpose of this sound monitoring study was to fulfill the requirements of the Permit, and confirm that the RRM sound levels are within the Sound Level Threshold of 50 dBA (A-weighted decibels), as defined in the Permit. This study was completed by Qualified Professionals as required by the Permit per Sections 3.1 and 4.1(g).

A glossary of commonly used sound terminology is provided in Appendix A of this report.

2.0 Project Description

The RRM includes an open pit, underground mine, a processing plant, and related facilities and infrastructure. Overburden and mine rock removed from the open pit are stored in adjacent stockpiles. Ore is processed at the onsite processing plant.

The project is currently in transition from the development phase to the operational phase. The aggregate pits will continue to operate during the transition phase and the underground mining operations are not expected to start during this period. The RRM crushing plants at the aggregate pits and other site activities were in operation during these sound monitoring periods. The monitoring period and collected sound data are representative of regular site activities required for the transition from the construction phase to the operational phase. .

3.0 Whip-poor-will Habitat Receptors

As defined in the ESA Permit, there are three whip-poor-will habitat receptor areas within the vicinity of the RRM site (Figure 1). There are two Eastern Locations which are located directly north and south of the RRM , and one Western Location, located west of the RRM. Sound monitoring is required at the two Eastern Receptor Locations as they are predicted to experience higher levels of sound than the Western Location, as specified in the ESA Permit.

4.0 Sound Monitoring

Automated sound measurements were conducted at the beginning of May and June 2018 (May 1-7 and June 1-7). Sound monitoring conformed to the technical requirements set out within the Ministry of the Environment (MOE) publications NPC-102 and NPC-103 (MOE 1977a,b). The measurement locations, instrumentation, weather conditions and results are discussed in the following sections.

4.1 Monitoring Locations

Two sound monitors (South Receptor Monitor – SRM, and North Receptor Monitor – NRM) were used for this sound monitoring program (Figure 1). UTM coordinates are provided in Table 1.

Table 1: Sound Monitoring Locations

Description of Monitor Location	Sound Monitor ID	UTM Coordinates [1]	
		Easting (m)	Northing (m)
North Receptor	NRM	424444	5414473
South Receptor	SRM	424444	5406426

Note

1. All coordinates are in the UTM coordinate system Zone 15T (NAD83).

Abbreviation(s)

m: metres

4.2 Instrumentation

Bruel & Kjaer 2250E Class 1 integrating sound level meters, were used for the sound level measurements. The monitors were set to automatically measure the A-weighted hourly energy equivalent sound level (L_{Aeq-1h}) and to continuously record audio.

Both sound level meters were factory calibrated within the preceding 24 months from the field program, and were field calibrated with a Bruel & Kjaer Type 4231 sound calibrator at the beginning and end of the monitoring periods. Calibration certificates for the monitors are provided in Appendix B. The microphones were fitted on vertical masts, approximately 1.5 m above the ground, and were provided with windscreens and bird-deterrent wires.

4.3 Meteorological Conditions

Monitored sound levels can be affected by meteorological conditions. To account for this influence, weather data was obtained from the RRM site weather station (Barron Site Station). The data from the station for the period of the investigation is presented in Appendix C.

For this sound monitoring study, and as defined in NPC-103 (MOE 1977b), inclement weather conditions are considered to have occurred under any of the following conditions:

- Humidity levels were above 90% or precipitation has occurred; and/or
- Wind speed was exceeded 20 km/hour; and/or
- Temperature was outside the operating range defined by the manufacturer of the sound level meter (i.e., below -10 °C or above +50 °C).

Inclement weather typically produces sound levels which are much higher than would otherwise be recorded absent such conditions. Therefore, sound data collected during inclement weather periods were not included in the assessment of measured sound levels against the Sound Level Threshold. However, all recorded sound level measurements, including periods of inclement weather conditions are reported in Appendix C for completeness of documentation.

4.4 Sound Monitoring Results

After the initial setup of the two sound monitors and verification of their functionality, the monitors were generally left unattended to record the sound levels. Each monitor was visited daily to download data and check on working condition.

The hourly L_{Aeq-1h} sound levels measured are provided in Appendix C. A summary of the hourly sound levels measured at both locations during these periods is provided in Table 2.

Table 2: Hourly Sound Level Results Summary

Monitor	Hourly Sound Levels (L_{Aeq-1h}, dBA)					
	May 2018			June 2018		
	Minimum	Average	Maximum	Minimum	Average	Maximum
North Monitor — NRM	27	39	52	26	42	51
South Monitor — SRM	25	36	56	30	41	52

Note

1. All coordinates are in the UTM coordinate system Zone 15T (NAD83).

For the purposes of this assessment, and as per the MOE NPC-103 guidelines for sound measurements, sound data collected during inclement weather was not included in the assessment against the 50 dBA criteria limit and were excluded from the results presented in Table 2. The complete hourly data is reported in Appendix C.

The hourly sound levels at NRM and SRM in 2018 were within the Sound Level Threshold of 50 dBA for 331 of 336 hours of data collected at the receptor locations. The measured hourly sound levels are graphically presented in Appendix D. A review of the audio files revealed that four of the five exceedances noted were a result of either wildlife activities or wind, and were not primarily caused by RRM activities.

The fifth exceedance which occurred at the NRM on May 3rd, 2018, during the hour of 21:00 was noteworthy. The measured L_{Aeq-1h} was 52 dBA, 2 dB over the Sound Level Threshold of 50 dBA. The audio file revealed both audible mine equipment noise, likely dozers, as well as wildlife noise. Throughout the hour, these two sources of sound often occurred simultaneously without either of them being subjectively louder than the other. As a result, it is inconclusive whether the RRM equipment, wildlife, or the combination of them caused the exceedance. Therefore, the RRM sound levels measured at the whip-poor-will receptor locations during the monitoring periods of May and June 2018 are believed to satisfy 50 dBA Sound Level Threshold identified in the Permit.

5.0 Conclusions

Sound monitoring at the two Eastern Whip-poor-will habitat receptor locations, as required by the ESA Overall Beneits Permit (No. FF-C-001-14) for the RRM, was completed at the beginning of May and June 2018. The sound measurements were conducted in accordance with the applicable MOE publications NPC-102 and NPC-103 (MOE 1977a,b).

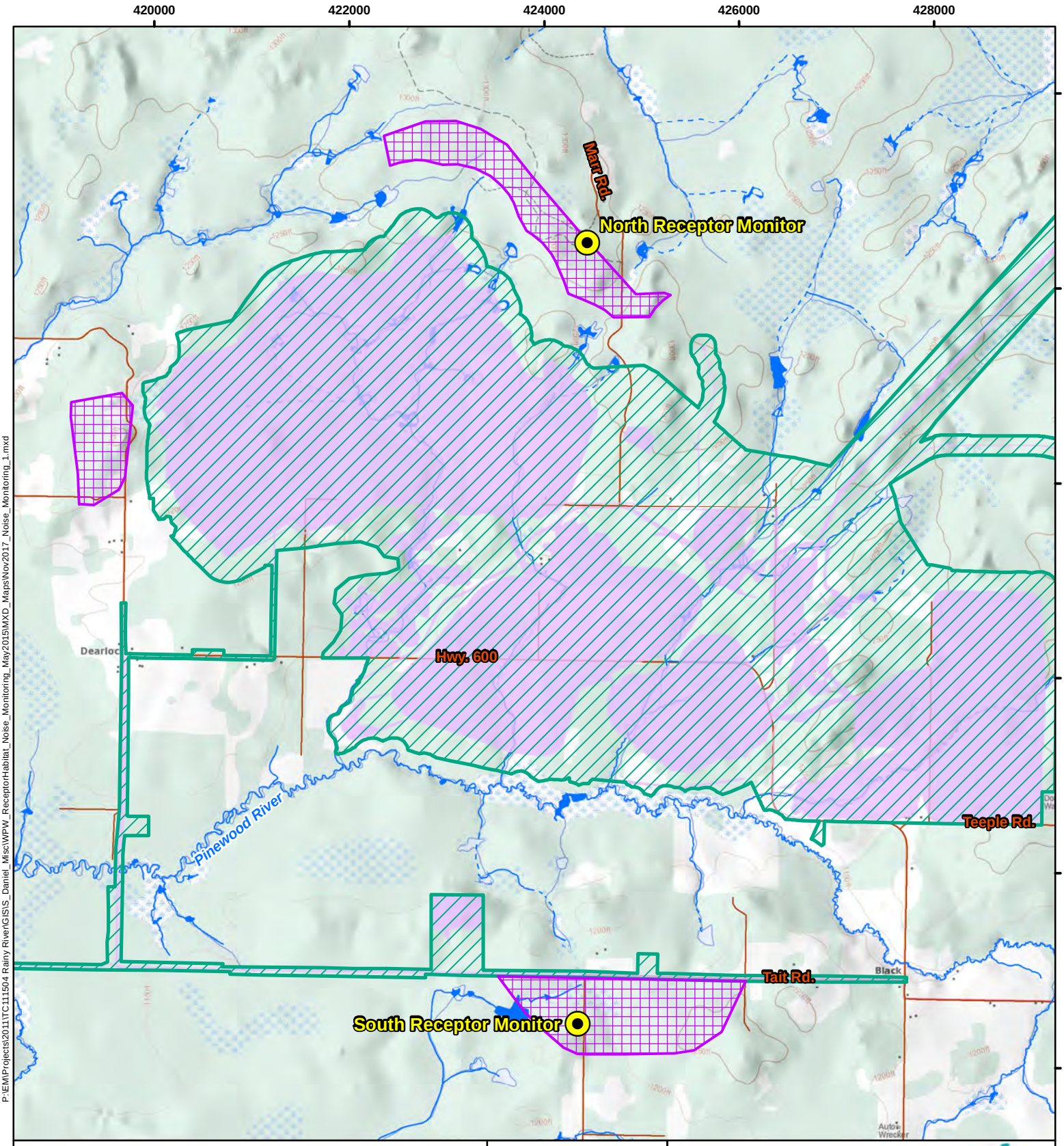
The hourly sound levels were within the Sound Level Threshold of 50 dBA for the entire monitoring period, with the exception of 5 out of 336 hours of data collected at the receptor locations. A review of the audio files revealed that the exceedances were not primarily caused by the RRM activities. Therefore, based on the data collected the RRM sound levels measured at the whip-poor-will receptor locations are

believed to have been in compliance with the 50 dBA Sound Level Threshold during the monitoring periods of May and June 2018.

6.0 References

Ministry of the Environment (MOE). 1977a. *Publication NPC-102 Instrumentation,* published under the Model Municipal Noise Control Bylaw, 1977.

Ministry of the Environment (MOE). 1977b. Publication NPC-103, *Measurement Procedure*, published under the Model Municipal Noise Control Bylaw, 1977.



LEGEND

- Approximate Principal RRP Facilities
- 2015 Noise Monitoring Locations
- Whip-poor-will Receptor Habitat
- Project Site Boundary (ESA)

NOTES:

newgold™ Rainy River Project

amec foster wheeler

RAINY RIVER PROJECT

Whip-poor-will Receptor Habitat Noise Monitoring Locations

Datum: NAD83
Projection: UTM Zone 15N

0 1 2 3 4 Kilometres

N W E S

PROJECT N°: TC111504 | **FIGURE: 1**

SCALE: 1:53,000 | DATE: November 2017

Appendix A

Glossary of Sound Terminology

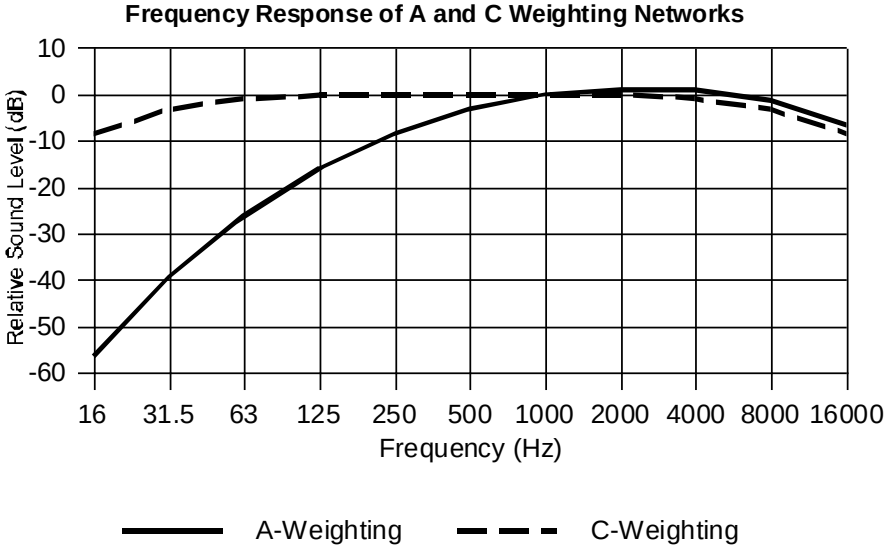
Glossary of Commonly Used Sound Terminology

Ambient or Background Noise: The ambient noise from all sources other than the sound of interest (i.e. sound other than that being measured). Under most MOE guidelines, aircraft overflights and train noise, due to their transient nature, are normally excluded from measurements of background noise.

Attenuation: The reduction of sound intensity by various means (e.g., air, humidity, porous materials, etc.).

dB - Decibel: The logarithmic units associated with sound pressure level, sound power level, or acceleration level. See sound pressure level, for example.

dBA - Decibel, A-Weighted: The logarithmic units associated with a sound pressure level, where the sound pressure signal has been filtered using a frequency weighting that mimics the response of the human ear to quiet sound levels. The resultant sound pressure level is therefore representative of the subjective response of the human ear. A-weighted sound pressure levels are denoted by the suffix 'A' (ie. dBA), and the term pressure is normally omitted from the description (i.e., sound level or noise level).



dBC - Decibel, C-Weighted: The logarithmic units associated with a sound pressure level, where the sound pressure signal has been filtered using a frequency weighting that mimics the response of the human ear to loud sound levels. C-weighted sound pressure levels are denoted by the suffix 'C' (ie. dBC). C-weighted levels are often used in low-frequency noise analysis, as the filtering effect is nearly flat at lower frequencies.

dBL or dBLin - Decibel, Linear: The logarithmic units associated with a sound pressure level, where the sound pressure signal is unfiltered, and represents the full spectrum of incoming noise.

Calibrator (Acoustical): A device which produces a known sound pressure on the microphone of a sound level measurement system, and is used to adjust the system to standard specifications.

Directivity Factor (Q) (also, **Directional** or **Directionality Factor):** A factor mathematically related to Directivity Index, used in calculating propagated sound levels to account for the effect of reflecting surfaces near to the source. For example, for a source in free space where the sound is radiating spherically, Q = 1. For a source located on or very near to a surface (such as the ground, a wall, rooftop, etc.), where the sound is radiating hemispherically, Q = 2. This accounts for the additional sound energy reflecting off the surface, and translates into a +3 dB add.

Energy Equivalent Sound Level (L_{eq}): An energy-average sound level taken over a specified period of time. It represents the average sound pressure encountered for the period. The time period is often added as a suffix to the label (e.g., $L_{eq}(24)$ for the 24-hour equivalent sound level). L_{eq} is usually A-weighted. An L_{eq} value expressed in dBA is a good, single value descriptor of the annoyance of noise.

Exceedance Noise Level (L_N): The noise level exceeded N% of the time. It is a statistical measure of the noise level. For highly varying sounds, the L_{90} represents the background noise level, L_{50} represents the median or typical noise level, and L_{10} represents the short term peak noise levels, such as those due to occasional traffic or a barking dog.

Far Field: Describes a region in free space where the sound pressure level from a source obeys the inverse-square law (the sound pressure level decreases 6 dB with each doubling of distance from the source). Also, in this region the sound particle velocity is in phase with the sound pressure. Closer to the source where these two conditions do not hold constitutes the "near field" region.

Free Sound Field (Free Field): A sound field in which the effects of obstacles or boundaries on sound propagated in that field are negligible.

Frequency: The number of times per second that the sine wave of sound or of a vibrating object repeats itself, now expressed in hertz (Hz), formerly in cycles per second (cps).

Hertz (Hz): Unit of measurement of frequency, numerically equal to cycles per second.

Human Perception of Sound: The human perception of noise impact is an important consideration in qualifying the noise effects caused by projects. The following table presents a general guideline.

Increase in Noise Level (dB)	Perception
3 or less	insignificant due to imperceptibility
4 to 5	just-noticeable difference
6 to 9	marginally significant
10 or more	significant, perceived as a doubling of sound exposure

Impact Sound: The sound produced by the collision of two solid objects, e.g., footsteps, dropped objects, etc., on an interior surface (wall, floor, or ceiling) of a building. Typical industrial sources include punch presses, forging hammers, etc.

Impulsive Noise: a) Single or multiple sound pressure peak(s) (with either a rise time less than 200 milliseconds or total duration less than 200 milliseconds) spaced at least by 500 millisecond pauses, b) A sharp sound pressure peak occurring in a short interval of time.

Infrasonic: Sounds of a frequency lower than 20 hertz.

Insertion Loss (IL): The arithmetic difference between the sound level from a source before and after the installation of a noise mitigation measure, at the same location. Insertion loss is typically presented as a positive number, i.e., the post-mitigation sound level is lower than the pre-mitigation level. Insertion loss is expressed in dB and is usually specified per 1/1 octave band, per 1/3 octave band, or overall.

Low Frequency Noise (LFN): Noise in the low frequency range, from infrasonic sounds (<20 Hz) up to 250 Hz.

Masking: a) The process by which the threshold of audibility for a sound is raised by the presence of another (masking) sound, or b) The amount by which the threshold of audibility of a sound is raised by the presence of another (masking) sound.

Near Field: The sound field very near to a source, where sound pressure does not obey the inverse-square law and the particle velocity is not in phase with the sound pressure.

Noise: Unwanted sound.

Noise Level: Same as Sound Level, except applied to unwanted sounds.

Peak Sound Pressure Level: Same as Sound Pressure Level except that peak (not peak-to-peak) sound pressure values are used in place of RMS pressures.

Quasi-Steady Impulsive Noise: Noise composed of a series of short, discrete events, characterized by rapid rise times, but with less than 0.5 seconds elapsing between events.

RMS Sound Pressure: The square-root of the mean-squared pressure of a sound (usually the result of an RMS detector on a microphone signal).

Reverberant Field: The region in a room where the reflected sound dominates, as opposed to the region close to the noise source where the direct sound dominates.

Sound: a dynamic (fluctuating) pressure.

Sound Exposure Level (SEL): An L_{eq} referenced to a one second duration. Also known as the Single Event Level. It is a measure of the cumulative noise exposure for a single event. It provides a measure of the accumulation of sound energy over the duration of the event.

Sound Intensity: The sound energy flow through a unit area in a unit time.

Sound Level Meter: An instrument comprised of a microphone, amplifier, output meter, and frequency-weighting networks which is used for the measurement of noise and sound levels.

Sound Pressure Level (SPL): The logarithmic ratio of the RMS sound pressure to the sound pressure at the threshold of hearing. The sound pressure level is defined by equation (1) where P is the RMS pressure due to a sound and P_0 is the reference pressure. P_0 is usually taken as 2.0×10^{-5} Pascals.

(1) $SPL\ (dB) = 20 \log(P_{RMS}/P_0)$

Sound Power Level (PWL): The logarithmic ratio of the instantaneous sound power (energy) of a noise source to that of an international standard reference power. The sound power level is defined by equation (2) where W is the sound power of the source in watts, and W_0 is the reference power of 10^{-12} watts.

(2) $PWL\ (dB) = 10 \log(W/W_0)$

Interrelationships between sound pressure level (SPL) and sound power level (PWL) depend on the location and type of source.

Spectrum: The description of a sound wave's resolution into its components of frequency and amplitude.

Speed (Velocity) of Sound in Air: 344 m/s (1128 ft/s) at 70°F (21°C) in air at sea level.

Threshold of Audibility (Threshold of Detectability): The minimum sound pressure level at which a person can hear a specified frequency of sound over a specified number of trials.

Appendix B

Calibration Certificates

Brüel & Kjær
North America Inc.

The Brüel & Kjær Calibration Laboratory
2815 Colonnades Court
Norcross, GA 30071-1588
Telephone: 770/209-6907
Fax: 770/447-4033
Web site address: http://www.bkhome.com

ACCREDITED
Calibration Certificate Number 1568.01

CERTIFICATE OF CALIBRATION

Certificate No: CAS-146276-J5X2Q3-801

CALIBRATION OF:

Sound Level Meter:	Brüel & Kjær	2250	Serial No: 3006066
Microphone:	Brüel & Kjær	4189	Serial No: 2820087
Preamplifier:	Brüel & Kjær	ZC-0032	Serial No: 20423
Software version:	BZ7222 Version 4.6.2		

CLIENT:

XSCALA Rental Instruments
234-5149 Country Hills Blvd. NW
Calgary, AB T3A 5K8

CALIBRATION CONDITIONS:

Preconditioning: 4 hours at 23 ± 3 °C

Environment conditions See actual values in Environmental Condition sections

SPECIFICATIONS:

This document certifies that the instrument as listed under "Model/Serial Number" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95%. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurement. The calibration of the listed instrumentation, was accomplished using a test system which conforms with the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and ISO 10012-1. For "as received" and/or "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation This Certificate and attached data pages shall not be reproduced, except in full, without the written approval of the Brüel and Kjær Calibration Laboratory-Norcross, GA. Results relate only to the items tested. This instrument has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

PROCEDURE:

Brüel and Kjær Model 3630 Sound Level Meter Calibration System Software 7763 Version 6.0 - DB: 6.01 Test Collection 2250-4189.

RESULTS:

As Received Condition	As Received Data	Final Data
_X_ Received in good condition	___ Within acceptance criteria	_X_ Within acceptance criteria
___ Damaged - See attached report	___ Outside acceptance criteria	___ Limited test - See attached details
	___ Inoperative	
	_X_ Data not taken	

Date of Calibration: 15 Jul. 2016

Certificate issued: 15 Jul. 2016

Debra Wilson

Calibration Technician

Harold J. Williams

Quality Representative

Brüel & Kjær
North America Inc.

The Brüel & Kjær Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770/209-6907
Fax: 770/447-4033
Web site address: http://www.bkhome.com

ACCREDITED Calibration Certificate Number 1568.01

CERTIFICATE OF CALIBRATION

Certificate No: CAS-211483-P5Y5M4-101

CALIBRATION OF:

Sound Level Meter:	Brüel & Kjær	2250	Serial No: 3007557
Microphone:	Brüel & Kjær	4189	Serial No: 2983082
Preamplifier:	Brüel & Kjær	ZC-0032	Serial No: 13445
Supplied Calibrator:	Brüel & Kjær	4231	Serial No: 2053018
Software version:	BZ7222 Version 4.7.2		

CLIENT:

XSCALA Rental Instruments
234-5149 Country Hills Blvd. NW
Calgary, AB T3A 5K8

CALIBRATION CONDITIONS:

Preconditioning: 4 hours at 23 ± 3 °C
Environment conditions See actual values in Environmental Condition sections

SPECIFICATIONS:

This document certifies that the instrument as listed under "Model/Serial Number" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95%. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurement. The calibration of the listed instrumentation, was accomplished using a test system which conforms with the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and ISO 10012-1. For "as received" and/or "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation This Certificate and attached data pages shall not be reproduced, except in full, without the written approval of the Brüel and Kjær Calibration Laboratory-Duluth, GA. Results relate only to the items tested. This instrument has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

PROCEDURE:

Brüel and Kjær Model 3630 Sound Level Meter Calibration System Software 7763 Version 6.0 - DB: 6.01 Test Collection 2250-4189.

RESULTS:

As Received Condition	As Received Data	Final Data
_X_ Received in good condition	_X_ Within acceptance criteria	_X_ Within acceptance criteria
___ Damaged - See attached report	___ Outside acceptance criteria	___ Limited test - See attached details
	___ Inoperative	
	___ Data not taken	

Date of Calibration: 19 Apr. 2017

Certificate issued: 19 Apr. 2017

John Avitabile

Calibration Technician

Quality Representative

Appendix C

Hourly Sound Levels and Weather Data

May 2018

Note:

[1] Represents periods with not enough reportable data for the hour.

[2] Minutes from the hour that was affected by human activity downloading data was excluded from the L_{Aeq-1h}.

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/1/2018	0:00	1.73	10.44	0.00	65.46	40	43	50	NO	YES	-
5/1/2018	1:00	2.39	9.49	0.00	68.20	42	42	50	NO	YES	-
5/1/2018	2:00	2.34	8.69	0.00	70.29	43	44	50	NO	YES	-
5/1/2018	3:00	3.19	7.70	9.30	79.63	61	60	50	YES	NO	Inclement Weather Conditions
5/1/2018	4:00	4.19	4.93	2.30	93.60	47	46	50	YES	YES	Inclement Weather Conditions
5/1/2018	5:00	3.10	5.15	0.10	92.90	44	44	50	YES	YES	Inclement Weather Conditions
5/1/2018	6:00	2.56	4.94	0.20	93.50	39	43	50	YES	YES	Inclement Weather Conditions
5/1/2018	7:00	3.15	4.43	0.50	94.70	34	37	50	YES	YES	Inclement Weather Conditions
5/1/2018	8:00	3.34	4.08	0.10	93.90	34	40	50	YES	YES	Inclement Weather Conditions
5/1/2018	9:00	3.40	3.80	0.00	93.80	38	37	50	YES	YES	Inclement Weather Conditions
5/1/2018	10:00	3.34	3.70	0.00	93.80	38	36	50	YES	YES	Inclement Weather Conditions
5/1/2018	11:00	3.17	3.83	0.00	91.60	39	32	50	YES	YES	Inclement Weather Conditions
5/1/2018	12:00	3.58	3.84	0.00	91.70	37	33	50	YES	YES	Inclement Weather Conditions
5/1/2018	13:00	3.86	4.37	0.00	86.50	39	38 [2]	50	NO	YES	-
5/1/2018	14:00	3.26	4.01	0.00	86.80	38	33 [2]	50	NO	YES	-
5/1/2018	15:00	2.97	4.37	0.00	83.60	34	33	50	NO	YES	-
5/1/2018	16:00	2.90	4.59	0.00	81.80	30 [2]	39	50	NO	YES	-
5/1/2018	17:00	3.01	4.83	0.00	79.82	37	37	50	NO	YES	-
5/1/2018	18:00	2.49	4.62	0.00	79.20	34	36	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/1/2018	19:00	1.83	4.50	0.00	79.71	33	27	50	NO	YES	-
5/1/2018	20:00	1.62	4.15	0.00	83.10	34	36	50	NO	YES	-
5/1/2018	21:00	1.56	3.64	0.00	85.20	40	38	50	NO	YES	-
5/1/2018	22:00	0.76	3.34	0.00	86.70	37	35	50	NO	YES	-
5/1/2018	23:00	0.54	3.19	0.00	88.90	36	28	50	NO	YES	-
5/2/2018	0:00	0.26	3.03	0.00	90.00	39	30	50	NO	YES	-
5/2/2018	1:00	0.45	2.96	0.00	91.30	37	34	50	YES	YES	Inclement Weather Conditions
5/2/2018	2:00	0.84	2.92	0.00	91.30	37	32	50	YES	YES	Inclement Weather Conditions
5/2/2018	3:00	1.05	2.80	0.00	91.20	38	35	50	YES	YES	Inclement Weather Conditions
5/2/2018	4:00	1.28	2.32	0.00	91.20	35	35	50	YES	YES	Inclement Weather Conditions
5/2/2018	5:00	0.63	2.20	0.00	92.80	41	39	50	YES	YES	Inclement Weather Conditions
5/2/2018	6:00	0.66	2.32	0.00	93.70	36	31	50	YES	YES	Inclement Weather Conditions
5/2/2018	7:00	0.69	3.44	0.00	88.40	34	31	50	NO	YES	-
5/2/2018	8:00	1.88	4.48	0.00	80.20	36	31	50	NO	YES	-
5/2/2018	9:00	2.49	5.58	0.00	75.20	35	30	50	NO	YES	-
5/2/2018	10:00	3.08	6.29	0.00	71.62	38	27 [2]	50	NO	YES	-
5/2/2018	11:00	3.17	7.26	0.00	67.73	36	28 [2]	50	NO	YES	-
5/2/2018	12:00	2.38	8.85	0.00	60.51	36 [2]	28	50	NO	YES	-
5/2/2018	13:00	3.16	10.03	0.00	54.65	39	29	50	NO	YES	-
5/2/2018	14:00	4.02	11.38	0.00	49.02	39	33	50	NO	YES	-
5/2/2018	15:00	3.85	12.52	0.00	44.13	35	32	50	NO	YES	-
5/2/2018	16:00	3.39	13.63	0.00	39.48	37	30	50	NO	YES	-
5/2/2018	17:00	2.96	14.11	0.00	36.59	38	32	50	NO	YES	-
5/2/2018	18:00	2.92	14.39	0.00	35.89	39	34	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/2/2018	19:00	1.35	13.40	0.00	39.88	43	41	50	NO	YES	-
5/2/2018	20:00	0.85	11.39	0.00	50.52	49	37	50	NO	YES	-
5/2/2018	21:00	2.16	10.78	0.00	52.34	46	35	50	NO	YES	-
5/2/2018	22:00	2.23	10.40	0.00	54.52	42	34	50	NO	YES	-
5/2/2018	23:00	2.59	9.84	0.00	57.26	42	33	50	NO	YES	-
5/3/2018	0:00	3.02	9.34	0.00	56.65	42	33	50	NO	YES	-
5/3/2018	1:00	0.65	7.60	0.00	62.79	42	33	50	NO	YES	-
5/3/2018	2:00	0.73	5.61	0.00	70.16	43	32	50	NO	YES	-
5/3/2018	3:00	0.53	1.95	0.00	87.70	40	40	50	NO	YES	-
5/3/2018	4:00	0.22	0.52	0.00	92.80	43	46	50	YES	YES	Inclement Weather Conditions
5/3/2018	5:00	0.36	0.50	0.00	93.50	41	45	50	YES	YES	Inclement Weather Conditions
5/3/2018	6:00	1.29	3.58	0.00	95.10	35	42	50	YES	YES	Inclement Weather Conditions
5/3/2018	7:00	2.59	5.81	0.00	97.40	36	34	50	YES	YES	Inclement Weather Conditions
5/3/2018	8:00	2.11	6.40	0.00	98.20	34	39	50	YES	YES	Inclement Weather Conditions
5/3/2018	9:00	1.79	7.37	0.00	98.70	38	39	50	YES	YES	Inclement Weather Conditions
5/3/2018	10:00	1.65	10.44	0.00	87.40	38 [2]	33	50	NO	YES	-
5/3/2018	11:00	2.52	14.59	0.00	55.49	36 [2]	N/A [1]	50	NO	YES	-
5/3/2018	12:00	3.05	16.09	0.00	39.65	35	34 [2]	50	NO	YES	-
5/3/2018	13:00	2.93	16.74	0.00	34.75	35	35	50	NO	YES	-
5/3/2018	14:00	2.92	17.71	0.00	31.98	36	31	50	NO	YES	-
5/3/2018	15:00	3.68	18.33	0.00	31.20	37	30	50	NO	YES	-
5/3/2018	16:00	4.08	18.91	0.00	30.01	39	31	50	NO	YES	-
5/3/2018	17:00	4.34	19.17	0.00	28.51	42	37	50	NO	YES	-
5/3/2018	18:00	3.89	18.94	0.00	28.93	45	34	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/3/2018	19:00	3.08	17.80	0.00	31.47	46	35	50	NO	YES	-
5/3/2018	20:00	1.20	14.15	0.00	43.49	50	35	50	NO	YES	-
5/3/2018	21:00	0.74	10.70	0.00	56.37	52	38	50	NO	NO	Mine equipment/Wildlife
5/3/2018	22:00	0.54	8.23	0.00	67.55	48	35	50	NO	YES	-
5/3/2018	23:00	1.24	7.55	0.00	65.43	44	33	50	NO	YES	-
5/4/2018	0:00	0.72	4.84	0.00	78.54	46	33	50	NO	YES	-
5/4/2018	1:00	0.33	3.13	0.00	86.60	45	35	50	NO	YES	-
5/4/2018	2:00	0.62	2.28	0.00	87.80	43	34	50	NO	YES	-
5/4/2018	3:00	1.26	3.46	0.00	80.60	42	40	50	NO	YES	-
5/4/2018	4:00	0.40	1.57	0.00	88.20	42	43	50	NO	YES	-
5/4/2018	5:00	0.85	1.08	0.00	92.70	41	44	50	YES	YES	Inclement Weather Conditions
5/4/2018	6:00	0.99	1.30	0.00	92.00	40	40	50	YES	YES	Inclement Weather Conditions
5/4/2018	7:00	1.80	7.51	0.00	73.68	40	43	50	NO	YES	-
5/4/2018	8:00	2.44	12.11	0.00	57.07	37	44	50	NO	YES	-
5/4/2018	9:00	2.50	15.01	0.00	46.02	39	36	50	NO	YES	-
5/4/2018	10:00	5.87	16.98	0.00	34.33	44	42	50	YES	YES	Inclement Weather Conditions
5/4/2018	11:00	6.54	17.38	0.00	30.11	46 [2]	45	50	YES	YES	Inclement Weather Conditions
5/4/2018	12:00	6.46	17.74	0.00	31.22	46	46 [2]	50	YES	YES	Inclement Weather Conditions
5/4/2018	13:00	6.27	18.70	0.00	27.62	46	48	50	YES	YES	Inclement Weather Conditions
5/4/2018	14:00	6.36	18.93	0.00	25.37	45	43	50	YES	YES	Inclement Weather Conditions
5/4/2018	15:00	6.38	19.13	0.00	24.37	42	40	50	YES	YES	Inclement Weather Conditions
5/4/2018	16:00	5.80	19.52	0.00	23.60	43	42	50	YES	YES	Inclement Weather Conditions
5/4/2018	17:00	5.15	19.24	0.00	23.63	44	42	50	NO	YES	-
5/4/2018	18:00	5.13	18.66	0.00	23.47	48	42	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/4/2018	19:00	5.68	16.95	0.00	23.04	48	43	50	YES	YES	Inclement Weather Conditions
5/4/2018	20:00	4.01	15.12	0.00	25.06	48	42	50	NO	YES	-
5/4/2018	21:00	2.79	13.29	0.00	27.76	48	42	50	NO	YES	-
5/4/2018	22:00	1.10	9.54	0.00	40.88	50	43	50	NO	YES	-
5/4/2018	23:00	0.56	4.38	0.00	67.15	47	42	50	NO	YES	-
5/5/2018	0:00	0.57	2.37	0.00	76.74	42	41	50	NO	YES	-
5/5/2018	1:00	1.12	1.36	0.00	78.71	40	41	50	NO	YES	-
5/5/2018	2:00	1.08	1.31	0.00	81.30	40	41	50	NO	YES	-
5/5/2018	3:00	0.36	2.08	0.00	83.70	38	40	50	NO	YES	-
5/5/2018	4:00	0.59	1.46	0.00	87.00	38	40	50	NO	YES	-
5/5/2018	5:00	0.73	-0.19	0.00	90.90	39	44	50	YES	YES	Inclement Weather Conditions
5/5/2018	6:00	1.11	-0.27	0.00	89.60	33	39	50	NO	YES	-
5/5/2018	7:00	0.64	3.48	0.00	78.01	35	37	50	NO	YES	-
5/5/2018	8:00	0.51	8.75	0.00	54.25	39	29	50	NO	YES	-
5/5/2018	9:00	1.01	12.49	0.00	37.36	40	25	50	NO	YES	-
5/5/2018	10:00	2.69	14.28	0.00	32.66	30	39	50	NO	YES	-
5/5/2018	11:00	2.73	16.27	0.00	28.57	31	26 [2]	50	NO	YES	-
5/5/2018	12:00	2.46	16.45	0.00	28.55	29 [2]	38	50	NO	YES	-
5/5/2018	13:00	1.46	17.22	0.00	27.43	29	47	50	NO	YES	-
5/5/2018	14:00	1.94	17.21	0.00	28.90	35	46	50	NO	YES	-
5/5/2018	15:00	2.36	17.48	0.00	29.47	29	28	50	NO	YES	-
5/5/2018	16:00	2.63	18.34	0.00	29.36	33	29	50	NO	YES	-
5/5/2018	17:00	3.56	18.93	0.00	28.54	32	35	50	NO	YES	-
5/5/2018	18:00	3.97	17.82	0.00	30.65	30	39	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/5/2018	19:00	3.10	16.31	0.00	34.21	30	34	50	NO	YES	-
5/5/2018	20:00	1.85	14.79	0.00	37.70	46	41	50	NO	YES	-
5/5/2018	21:00	0.94	9.02	0.00	61.65	49	46	50	NO	YES	-
5/5/2018	22:00	0.85	5.87	0.00	74.46	47	45	50	NO	YES	-
5/5/2018	23:00	0.96	4.64	0.00	81.50	42	44	50	NO	YES	-
5/6/2018	0:00	0.58	3.48	0.00	85.70	41	40	50	NO	YES	-
5/6/2018	1:00	0.73	1.33	0.00	90.30	38	37	50	YES	YES	Inclement Weather Conditions
5/6/2018	2:00	0.44	0.27	0.00	92.10	37	31	50	YES	YES	Inclement Weather Conditions
5/6/2018	3:00	1.05	-0.30	0.00	93.90	40	35	50	YES	YES	Inclement Weather Conditions
5/6/2018	4:00	0.99	0.57	0.00	92.80	43	39	50	YES	YES	Inclement Weather Conditions
5/6/2018	5:00	0.98	0.65	0.00	92.70	44	41	50	YES	YES	Inclement Weather Conditions
5/6/2018	6:00	0.83	1.61	0.00	91.10	40	37	50	YES	YES	Inclement Weather Conditions
5/6/2018	7:00	0.29	5.55	0.00	81.60	36	56	50	NO	NO	Wildlife
5/6/2018	8:00	1.11	10.89	0.00	59.05	34	38	50	NO	YES	-
5/6/2018	9:00	2.35	14.38	0.00	38.33	38	30	50	NO	YES	-
5/6/2018	10:00	2.54	15.72	0.00	32.26	31	30	50	NO	YES	-
5/6/2018	11:00	2.17	16.67	0.00	30.73	29 [2]	30 [2]	50	NO	YES	-
5/6/2018	12:00	2.29	17.64	0.00	28.21	27	30	50	NO	YES	-
5/6/2018	13:00	2.48	18.41	0.00	27.61	28	30	50	NO	YES	-
5/6/2018	14:00	2.72	19.25	0.00	27.39	28	36	50	NO	YES	-
5/6/2018	15:00	3.21	19.97	0.00	26.62	31	32	50	NO	YES	-
5/6/2018	16:00	3.11	20.34	0.00	25.99	30	35	50	NO	YES	-
5/6/2018	17:00	3.07	20.22	0.00	26.89	35	38	50	NO	YES	-
5/6/2018	18:00	2.66	19.71	0.00	28.19	36	34	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/6/2018	19:00	2.49	18.34	0.00	31.05	37	38	50	NO	YES	-
5/6/2018	20:00	2.43	15.93	0.00	36.70	43	41	50	NO	YES	-
5/6/2018	21:00	1.77	12.62	0.00	47.39	47	40	50	NO	YES	-
5/6/2018	22:00	1.00	8.57	0.00	66.50	42	38	50	NO	YES	-
5/6/2018	23:00	0.74	5.65	0.00	79.23	35	34	50	NO	YES	-
5/7/2018	0:00	0.76	3.67	0.00	86.10	34	31	50	NO	YES	-
5/7/2018	1:00	1.00	3.10	0.00	86.00	34	31	50	NO	YES	-
5/7/2018	2:00	0.71	2.52	0.00	89.00	34	37	50	NO	YES	-
5/7/2018	3:00	1.15	1.78	0.00	90.60	35	34	50	YES	YES	Inclement Weather Conditions
5/7/2018	4:00	1.03	1.35	0.00	91.40	38	40	50	YES	YES	Inclement Weather Conditions
5/7/2018	5:00	0.74	0.65	0.00	92.80	41	45	50	YES	YES	Inclement Weather Conditions
5/7/2018	6:00	0.79	1.83	0.00	89.00	39	36	50	NO	YES	-
5/7/2018	7:00	0.91	8.69	0.00	68.51	40	33	50	NO	YES	-
5/7/2018	8:00	1.98	12.58	0.00	54.11	43	41	50	NO	YES	-
5/7/2018	9:00	1.90	17.35	0.00	41.37	40	29	50	NO	YES	-
5/7/2018	10:00	2.99	21.05	0.00	31.53	31	26	50	NO	YES	-
5/7/2018	11:00	3.91	23.53	0.00	24.91	32 [2]	27 [2]	50	NO	YES	-
5/7/2018	12:00	3.62	25.30	0.00	20.73	33 [2]	28	50	NO	YES	-
5/7/2018	13:00	3.56	26.61	0.00	19.78	35	31	50	NO	YES	-
5/7/2018	14:00	4.87	27.69	0.00	18.25	39	38	50	NO	YES	-
5/7/2018	15:00	5.53	27.94	0.00	18.27	42	37	50	NO	YES	-
5/7/2018	16:00	5.49	27.99	0.00	18.05	41	36	50	NO	YES	-
5/7/2018	17:00	4.87	28.35	0.00	17.40	35	38	50	NO	YES	-
5/7/2018	18:00	4.87	27.21	0.00	21.50	41	42	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
5/7/2018	19:00	3.88	25.37	0.00	29.69	39	39	50	NO	YES	-
5/7/2018	20:00	1.26	21.39	0.00	40.59	44	39	50	NO	YES	-
5/7/2018	21:00	1.16	18.57	0.00	51.95	49	39	50	NO	YES	-
5/7/2018	22:00	3.64	19.92	0.00	45.54	46	43	50	NO	YES	-
5/7/2018	23:00	3.90	23.23	0.00	29.49	38	37	50	NO	YES	-

June 2018

Note:

[1] Represents periods with not enough reportable data for the hour.

[2] Minutes from the hour that was affected by human activity downloading data was excluded from the L_{Aeq-1h}.

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/1/2018	0:00	4.36	10.38	0.00	86.70	39	37	50	NO	YES	-
6/1/2018	1:00	3.83	9.79	0.00	87.60	39	39	50	NO	YES	-
6/1/2018	2:00	3.64	9.15	0.00	88.80	39	38	50	NO	YES	-
6/1/2018	3:00	3.71	8.94	0.00	87.30	38	36	50	NO	YES	-
6/1/2018	4:00	3.59	8.86	0.00	87.80	44	49	50	NO	YES	-
6/1/2018	5:00	3.64	9.02	0.00	85.00	43	48	50	NO	YES	-
6/1/2018	6:00	3.85	9.09	0.00	86.00	42	47	50	NO	YES	-
6/1/2018	7:00	3.82	9.40	0.00	86.70	43	42	50	NO	YES	-
6/1/2018	8:00	3.94	10.09	0.00	82.10	40	43 [2]	50	NO	YES	-
6/1/2018	9:00	5.02	10.59	0.00	80.40	43 [2]	43 [2]	50	NO	YES	-
6/1/2018	10:00	5.69	10.93	0.00	79.17	44 [2]	44	50	YES	YES	Inclement Weather Conditions
6/1/2018	11:00	5.37	11.47	0.00	78.56	47	44	50	NO	YES	-
6/1/2018	12:00	5.54	12.38	0.00	73.84	44	45	50	NO	YES	-
6/1/2018	13:00	5.47	12.87	0.00	72.48	45	46	50	NO	YES	-
6/1/2018	14:00	6.35	13.66	0.00	69.49	48	46	50	YES	YES	Inclement Weather Conditions
6/1/2018	15:00	6.24	13.77	0.00	68.90	47	45	50	YES	YES	Inclement Weather Conditions
6/1/2018	16:00	5.67	14.09	0.00	68.18	46	46	50	YES	YES	Inclement Weather Conditions
6/1/2018	17:00	5.91	14.23	0.00	67.92	48	47	50	YES	YES	Inclement Weather Conditions

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/1/2018	18:00	6.16	13.75	0.00	68.49	48	47	50	YES	YES	Inclement Weather Conditions
6/1/2018	19:00	5.90	13.03	0.00	71.66	49	49	50	YES	YES	Inclement Weather Conditions
6/1/2018	20:00	5.96	12.29	0.00	74.40	47	46	50	YES	YES	Inclement Weather Conditions
6/1/2018	21:00	5.92	11.71	0.00	76.38	47	46	50	YES	YES	Inclement Weather Conditions
6/1/2018	22:00	5.09	11.65	0.00	78.28	43	45	50	NO	YES	-
6/1/2018	23:00	6.43	11.51	0.00	78.98	50	49	50	YES	YES	Inclement Weather Conditions
6/2/2018	0:00	8.36	10.76	0.00	74.79	54	51	50	YES	NO	Inclement Weather Conditions
6/2/2018	1:00	6.85	10.34	0.00	67.72	51	51	50	YES	NO	Inclement Weather Conditions
6/2/2018	2:00	7.45	10.35	0.00	62.62	53	51	50	YES	NO	Inclement Weather Conditions
6/2/2018	3:00	4.23	10.32	0.00	60.96	45	41	50	NO	YES	-
6/2/2018	4:00	3.51	10.01	0.00	60.98	44	44	50	NO	YES	-
6/2/2018	5:00	5.19	9.78	1.20	61.92	47	49	50	YES	YES	Inclement Weather Conditions
6/2/2018	6:00	5.11	8.57	0.30	74.96	47	47	50	YES	YES	Inclement Weather Conditions
6/2/2018	7:00	6.70	9.99	0.00	67.10	51	49	50	YES	NO	Inclement Weather Conditions
6/2/2018	8:00	6.33	10.99	0.00	66.10	49	46	50	YES	YES	Inclement Weather Conditions
6/2/2018	9:00	4.78	11.49	0.10	69.67	46 [2]	43	50	YES	YES	Inclement Weather Conditions
6/2/2018	10:00	3.44	10.53	3.90	83.80	45 [2]	45 [2]	50	YES	YES	Inclement Weather Conditions
6/2/2018	11:00	3.02	9.91	5.40	93.10	47	48 [2]	50	YES	YES	Inclement Weather Conditions
6/2/2018	12:00	3.73	10.26	1.70	94.60	44	43	50	YES	YES	Inclement Weather Conditions
6/2/2018	13:00	3.72	10.60	2.60	94.40	45	46	50	YES	YES	Inclement Weather Conditions
6/2/2018	14:00	3.52	10.49	4.30	95.30	46	46	50	YES	YES	Inclement Weather Conditions
6/2/2018	15:00	4.12	10.41	1.20	93.80	44	45	50	YES	YES	Inclement Weather Conditions
6/2/2018	16:00	4.29	10.47	0.90	93.70	45	42	50	YES	YES	Inclement Weather Conditions
6/2/2018	17:00	4.33	10.80	0.00	92.50	45	48	50	YES	YES	Inclement Weather Conditions

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/2/2018	18:00	3.93	10.41	1.30	94.90	42	46	50	YES	YES	Inclement Weather Conditions
6/2/2018	19:00	3.76	10.26	0.10	95.20	40	38	50	YES	YES	Inclement Weather Conditions
6/2/2018	20:00	4.00	10.16	0.00	95.60	42	38	50	YES	YES	Inclement Weather Conditions
6/2/2018	21:00	3.66	10.05	0.10	96.60	43	36	50	YES	YES	Inclement Weather Conditions
6/2/2018	22:00	3.66	10.22	0.10	97.00	41	33	50	YES	YES	Inclement Weather Conditions
6/2/2018	23:00	3.10	10.51	0.10	97.10	39	29	50	YES	YES	Inclement Weather Conditions
6/3/2018	0:00	2.58	10.94	0.10	97.20	40	28	50	YES	YES	Inclement Weather Conditions
6/3/2018	1:00	1.83	11.02	0.00	96.90	38	24	50	YES	YES	Inclement Weather Conditions
6/3/2018	2:00	1.02	10.70	0.00	96.80	37	24	50	YES	YES	Inclement Weather Conditions
6/3/2018	3:00	0.79	10.64	0.00	97.00	34	32	50	YES	YES	Inclement Weather Conditions
6/3/2018	4:00	0.81	10.64	0.00	97.20	44	43	50	YES	YES	Inclement Weather Conditions
6/3/2018	5:00	1.12	10.70	0.00	97.20	43	43	50	YES	YES	Inclement Weather Conditions
6/3/2018	6:00	1.38	10.87	0.20	97.00	41	42	50	YES	YES	Inclement Weather Conditions
6/3/2018	7:00	1.83	11.20	0.40	96.00	40	40	50	YES	YES	Inclement Weather Conditions
6/3/2018	8:00	3.37	11.50	0.20	95.00	48 [2]	47	50	YES	YES	Inclement Weather Conditions
6/3/2018	9:00	4.84	10.79	0.10	92.70	50	49 [2]	50	YES	YES	Inclement Weather Conditions
6/3/2018	10:00	5.07	10.43	0.50	92.40	49	50	50	YES	YES	Inclement Weather Conditions
6/3/2018	11:00	4.82	10.09	0.40	92.60	49	51	50	YES	NO	Inclement Weather Conditions
6/3/2018	12:00	5.35	9.96	0.00	87.00	50	51	50	NO	NO	Wind
6/3/2018	13:00	4.85	10.57	0.00	80.90	47	49	50	NO	YES	-
6/3/2018	14:00	5.64	12.33	0.00	71.88	53	54	50	YES	NO	Inclement Weather Conditions
6/3/2018	15:00	7.24	14.00	0.00	60.49	55	54	50	YES	NO	Inclement Weather Conditions
6/3/2018	16:00	6.89	15.04	0.00	56.72	53	53	50	YES	NO	Inclement Weather Conditions
6/3/2018	17:00	5.76	15.62	0.00	56.08	51	49	50	YES	NO	Inclement Weather Conditions

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/3/2018	18:00	3.93	15.82	0.00	58.11	46	43	50	NO	YES	-
6/3/2018	19:00	3.57	15.65	0.00	58.45	43	44	50	NO	YES	-
6/3/2018	20:00	2.17	14.50	0.00	63.02	42	40	50	NO	YES	-
6/3/2018	21:00	1.11	11.25	0.00	81.70	40	40	50	NO	YES	-
6/3/2018	22:00	0.67	8.16	0.00	94.30	35	38	50	YES	YES	Inclement Weather Conditions
6/3/2018	23:00	0.56	6.38	0.00	96.30	29	36	50	YES	YES	Inclement Weather Conditions
6/4/2018	0:00	1.10	5.87	0.00	96.80	35	37	50	YES	YES	Inclement Weather Conditions
6/4/2018	1:00	1.13	5.26	0.00	97.10	38	37	50	YES	YES	Inclement Weather Conditions
6/4/2018	2:00	1.92	7.41	0.00	95.60	37	38	50	YES	YES	Inclement Weather Conditions
6/4/2018	3:00	1.76	8.03	0.00	90.70	34	39	50	YES	YES	Inclement Weather Conditions
6/4/2018	4:00	1.41	7.59	0.00	92.80	44	44	50	YES	YES	Inclement Weather Conditions
6/4/2018	5:00	0.78	6.15	0.00	93.90	43	45	50	YES	YES	Inclement Weather Conditions
6/4/2018	6:00	1.25	7.76	0.00	91.50	42	41	50	YES	YES	Inclement Weather Conditions
6/4/2018	7:00	2.59	11.43	0.00	75.45	42	44	50	NO	YES	-
6/4/2018	8:00	3.19	12.69	0.00	66.47	42	43	50	NO	YES	-
6/4/2018	9:00	4.45	14.12	0.00	59.81	46	45	50	NO	YES	-
6/4/2018	10:00	4.91	15.09	0.00	55.36	44	46	50	NO	YES	-
6/4/2018	11:00	4.34	16.19	0.00	53.47	45	46	50	NO	YES	-
6/4/2018	12:00	4.34	16.81	0.00	51.89	45	50	50	NO	YES	-
6/4/2018	13:00	5.04	17.57	0.00	48.99	49 [2]	52	50	NO	NO	Wind
6/4/2018	14:00	4.00	17.80	0.00	48.37	46	50 [2]	50	NO	YES	-
6/4/2018	15:00	3.23	18.36	0.00	47.53	42	46	50	NO	YES	-
6/4/2018	16:00	3.62	18.59	0.00	42.06	40	44	50	NO	YES	-
6/4/2018	17:00	4.16	18.04	0.00	41.05	40	43	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/4/2018	18:00	3.81	17.61	0.00	39.97	41	40	50	NO	YES	-
6/4/2018	19:00	2.68	16.99	0.00	41.59	39	46	50	NO	YES	-
6/4/2018	20:00	1.84	14.98	0.00	51.44	38	33	50	NO	YES	-
6/4/2018	21:00	1.56	9.92	0.00	80.60	37	36	50	NO	YES	-
6/4/2018	22:00	2.48	9.44	0.00	76.91	29	40	50	NO	YES	-
6/4/2018	23:00	1.80	7.41	0.00	87.20	26	33	50	NO	YES	-
6/5/2018	0:00	2.24	6.13	0.00	91.10	32	35	50	YES	YES	Inclement Weather Conditions
6/5/2018	1:00	1.97	5.64	0.00	92.20	34	36	50	YES	YES	Inclement Weather Conditions
6/5/2018	2:00	1.08	4.95	0.00	94.10	38	33	50	YES	YES	Inclement Weather Conditions
6/5/2018	3:00	1.35	4.02	0.00	96.10	39	31	50	YES	YES	Inclement Weather Conditions
6/5/2018	4:00	1.58	4.05	0.00	96.60	45	47	50	YES	YES	Inclement Weather Conditions
6/5/2018	5:00	1.51	4.80	0.00	96.60	43	43	50	YES	YES	Inclement Weather Conditions
6/5/2018	6:00	1.44	7.48	0.00	92.20	43	40	50	YES	YES	Inclement Weather Conditions
6/5/2018	7:00	2.92	10.96	0.00	80.30	42	43	50	NO	YES	-
6/5/2018	8:00	3.32	12.87	0.00	70.74	42	40	50	NO	YES	-
6/5/2018	9:00	3.14	14.29	0.00	63.19	40	38	50	NO	YES	-
6/5/2018	10:00	3.29	16.14	0.00	54.92	40 [2]	40	50	NO	YES	-
6/5/2018	11:00	3.79	17.36	0.00	52.68	42	43 [2]	50	NO	YES	-
6/5/2018	12:00	4.10	17.71	0.00	51.64	42	44	50	NO	YES	-
6/5/2018	13:00	3.71	18.81	0.00	51.75	42	41	50	NO	YES	-
6/5/2018	14:00	3.84	19.85	0.00	49.90	41	40	50	NO	YES	-
6/5/2018	15:00	4.48	19.65	0.00	49.00	40	41	50	NO	YES	-
6/5/2018	16:00	3.61	20.61	0.00	46.76	40	40	50	NO	YES	-
6/5/2018	17:00	3.43	20.99	0.00	48.56	41	40	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/5/2018	18:00	4.09	21.06	0.00	48.38	42	44	50	NO	YES	-
6/5/2018	19:00	2.83	20.03	0.00	49.69	41	39	50	NO	YES	-
6/5/2018	20:00	2.06	18.93	0.00	55.91	39	30	50	NO	YES	-
6/5/2018	21:00	1.22	15.43	0.00	72.19	40	33	50	NO	YES	-
6/5/2018	22:00	1.10	12.69	0.00	84.70	41	37	50	NO	YES	-
6/5/2018	23:00	2.11	14.50	0.00	68.51	42	37	50	NO	YES	-
6/6/2018	0:00	2.27	14.15	0.00	68.05	43	34	50	NO	YES	-
6/6/2018	1:00	2.27	13.62	0.00	69.19	44	37	50	NO	YES	-
6/6/2018	2:00	3.62	13.27	0.00	70.59	48	43	50	NO	YES	-
6/6/2018	3:00	2.48	13.34	0.00	71.59	42	32	50	NO	YES	-
6/6/2018	4:00	1.85	12.59	0.00	78.61	45	44	50	NO	YES	-
6/6/2018	5:00	1.72	11.44	0.00	85.10	44	45	50	NO	YES	-
6/6/2018	6:00	1.15	11.72	0.00	88.60	42	41	50	NO	YES	-
6/6/2018	7:00	2.11	14.65	0.00	83.80	41	43	50	NO	YES	-
6/6/2018	8:00	4.09	17.23	0.00	74.44	46	46	50	NO	YES	-
6/6/2018	9:00	4.96	18.02	0.00	70.12	48	48	50	NO	YES	-
6/6/2018	10:00	5.40	18.43	0.00	66.58	50	50	50	NO	YES	-
6/6/2018	11:00	5.48	17.84	0.00	66.41	51	51	50	NO	NO	Wind
6/6/2018	12:00	6.14	17.82	0.00	60.33	51 [2]	50 [2]	50	YES	NO	Inclement Weather Conditions
6/6/2018	13:00	6.08	16.88	0.00	63.19	50	52 [2]	50	YES	NO	Inclement Weather Conditions
6/6/2018	14:00	4.99	16.08	0.00	66.39	48	50	50	NO	YES	-
6/6/2018	15:00	5.20	17.30	0.00	60.28	48	50	50	NO	YES	-
6/6/2018	16:00	4.41	17.93	0.00	57.55	47	49	50	NO	YES	-
6/6/2018	17:00	3.93	18.36	0.00	56.05	43	49	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/6/2018	18:00	3.21	18.66	0.00	55.51	40	41	50	NO	YES	-
6/6/2018	19:00	3.42	18.24	0.00	54.28	40	41	50	NO	YES	-
6/6/2018	20:00	1.45	16.45	0.00	63.62	36	33	50	NO	YES	-
6/6/2018	21:00	0.17	11.74	0.00	87.60	39	40	50	NO	YES	-
6/6/2018	22:00	0.12	8.94	0.00	95.10	36	37	50	YES	YES	Inclement Weather Conditions
6/6/2018	23:00	0.48	7.33	0.00	96.20	30	36	50	YES	YES	Inclement Weather Conditions
6/7/2018	0:00	0.34	6.07	0.00	96.40	29	37	50	YES	YES	Inclement Weather Conditions
6/7/2018	1:00	0.86	5.06	0.00	96.50	27	39	50	YES	YES	Inclement Weather Conditions
6/7/2018	2:00	0.46	4.40	0.00	96.60	26	39	50	YES	YES	Inclement Weather Conditions
6/7/2018	3:00	0.81	3.82	0.00	96.70	31	35	50	YES	YES	Inclement Weather Conditions
6/7/2018	4:00	1.01	3.14	0.00	96.70	44	45	50	YES	YES	Inclement Weather Conditions
6/7/2018	5:00	0.70	3.02	0.00	96.70	43	42	50	YES	YES	Inclement Weather Conditions
6/7/2018	6:00	0.50	6.14	0.00	95.70	43	40	50	YES	YES	Inclement Weather Conditions
6/7/2018	7:00	0.31	10.30	0.00	91.00	41	40	50	YES	YES	Inclement Weather Conditions
6/7/2018	8:00	1.00	14.97	0.00	78.37	41	41	50	NO	YES	-
6/7/2018	9:00	1.79	17.28	0.00	67.60	38	38	50	NO	YES	-
6/7/2018	10:00	1.27	19.30	0.00	54.72	37	42	50	NO	YES	-
6/7/2018	11:00	1.58	20.35	0.00	46.08	38 [2]	37	50	NO	YES	-
6/7/2018	12:00	1.78	21.52	0.00	43.94	36 [2]	42 [2]	50	NO	YES	-
6/7/2018	13:00	1.46	22.36	0.00	37.88	38	39	50	NO	YES	-
6/7/2018	14:00	2.34	23.48	0.00	34.82	45	37	50	NO	YES	-
6/7/2018	15:00	1.83	24.21	0.00	35.62	36	39	50	NO	YES	-
6/7/2018	16:00	2.77	24.70	0.00	33.90	37	37	50	NO	YES	-
6/7/2018	17:00	2.39	25.10	0.00	32.97	36	35	50	NO	YES	-

Date	Time	Meteorological Data				Measured Hourly Sound Levels (L_{Aeq-1h}, dBA) [1,2]		Assigned Limit (dBA)	Inclement Weather Conditions (YES/NO)	L_{Aeq-1h} Exceedance (YES/NO)	Comments on Measurement/Audio File
		Wind Speed (m/s)	Temp. (°C)	Precipitation (mm)	Humidity (%)	North Receptor Monitor	South Receptor Monitor				
6/7/2018	18:00	2.72	24.70	0.00	35.69	36	37	50	NO	YES	-
6/7/2018	19:00	2.49	23.47	0.00	42.12	32	33	50	NO	YES	-
6/7/2018	20:00	1.76	21.45	0.00	54.73	37	31	50	NO	YES	-
6/7/2018	21:00	0.96	17.90	0.00	68.29	40	32	50	NO	YES	-
6/7/2018	22:00	0.40	13.69	0.00	88.90	41	35	50	NO	YES	-
6/7/2018	23:00	0.47	12.60	0.00	91.80	40	33	50	YES	YES	Inclement Weather Conditions

Limitations (optional)

Limitations (optional)

1. The work performed in the preparation of this report and the conclusions presented are subject to the following:
    a. The Standard Terms and Conditions which form a part of our Professional Services Contract;
    b. The Scope of Services;
    c. Time and Budgetary limitations as described in our Contract; and
    d. The Limitations stated herein.
2. No other warranties or representations, either expressed or implied, are made as to the professional services provided under the terms of our Contract, or the conclusions presented.
3. The conclusions presented in this report were based, in part, on visual observations of the Site and attendant structures. Our conclusions cannot and are not extended to include those portions of the Site or structures, which are not reasonably available, in Wood's opinion, for direct observation.
4. The environmental conditions at the Site were assessed, within the limitations set out above, having due regard for applicable environmental regulations as of the date of the inspection. A review of compliance by past owners or occupants of the Site with any applicable local, provincial or federal bylaws, orders-in-council, legislative enactments and regulations was not performed.
5. The Site history research included obtaining information from third parties and employees or agents of the owner. No attempt has been made to verify the accuracy of any information provided, unless specifically noted in our report.
6. Where testing was performed, it was carried out in accordance with the terms of our contract providing for testing. Other substances, or different quantities of substances testing for, may be present on-site and may be revealed by different or other testing not provided for in our contract.
7. Because of the limitations referred to above, different environmental conditions from those stated in our report may exist. Should such different conditions be encountered, Wood must be notified in order that it may determine if modifications to the conclusions in the report are necessary.
8. The utilization of Wood's services during the implementation of any remedial measures will allow Wood to observe compliance with the conclusions and recommendations contained in the report. Wood's involvement will also allow for changes to be made as necessary to suit field conditions as they are encountered.
9. This report is for the sole use of the party to whom it is addressed unless expressly stated otherwise in the report or contract. Any use which any third party makes of the report, in whole or the part, or any reliance thereon or decisions made based on any information or conclusions in the report is the sole responsibility of such third party. Wood accepts no responsibility whatsoever for damages or loss of any nature or kind suffered by any such third party as a result of actions taken or not taken or decisions made in reliance on the report or anything set out therein.
10. This report is not to be given over to any third party for any purpose whatsoever without the written permission of Wood.
11. Provided that the report is still reliable, and less than 12 months old, Wood will issue a third-party reliance letter to parties that the client identifies in writing, upon payment of the then current fee for such letters. All third parties relying on Wood's report, by such reliance agree to be bound by our proposal and Wood's standard reliance letter. Wood's standard reliance letter indicates that in no event shall Wood be liable for any damages, howsoever arising, relating to third-party reliance on Wood's report. No reliance by any party is permitted without such agreement.

Appendix B

New Gold 2018 Species at Risk Observations

Date	Species	Provincial ESA Designation	Federal SARA Designation	Comments
01/17/2018	Bald Eagle	Special Concern	--	End of Loslo Rd feeding on a deer carcass
03/11/2018	Bald Eagle	Special Concern	--	Flying over West Gate
03/12/2018	Bald Eagle	Special Concern	--	2 near underground portal location, roosting in a tree
03/16/2018	Barn Owl	Endangered	Endangered	In a tree on Eliuk Rd
03/21/2018	Bald Eagle	Special Concern	--	Flying over West Creek Diversion
03/24/2018	Bald Eagle	Special Concern	--	Flying over south air quality station
03/26/2018	Bald Eagle	Special Concern	--	Flying over Loslo Creek
03/26/2018	Bald Eagle	Special Concern	--	Flying over West Creek Diversion
04/12/2018	Bald Eagle	Special Concern	--	Flying over Barrons site
04/16/2018	Bald Eagle	Special Concern	--	Flying over Tait quarry
04/16/2018	Bald Eagle	Special Concern	--	Flying over Mine Rock Pond
04/16/2018	Bald Eagle	Special Concern	--	Flying over Marr site
04/27/2018	Bald Eagle	Special Concern	--	Attacking a duck in the air over the Mine Rock Pond
05/07/2018	Bobolink	Threatened	Threatened	Calling on a power line near the Nielson house
05/09/2018	Bald Eagle	Special Concern	--	Roosting in a tree near the hydrometric station
05/09/2018	American White Pelican	Threatened	--	Flying over Mine Rock Pond
05/12/2018	Barn Swallow	Threatened	Threatened	Sitting on a power line on Gallenger road
05/12/2018	American White Pelican	Threatened	--	Hazed off of Cell 2 pond
05/19/2018	Bald Eagle	Special Concern	--	Flying above the Mill
05/22/2018	Snapping Turtle	Special Concern	Special Concern	Crossing Teeple road
05/25/2018	Bald Eagle	Special Concern	--	Flying over Mine Rock Pond
05/25/2018	Bobolink	Threatened	Threatened	Calling from perches around Westgate
05/26/2018	Bald Eagle	Special Concern	--	Flying over Korpi road
05/27/2018	American White Pelican	Threatened	--	Flying over batch plant
05/27/2018	Bobolink	Threatened	Threatened	Calling from a pole near Westgate
06/06/2018	Barn Swallow	Threatened	Threatened	4 flying around the Admin building
06/06/2018	Bobolink	Threatened	Threatened	Calling and flying at OB17
06/07/2018	Bobolink	Threatened	Threatened	Calling from a hydro pole by the West Gate
06/07/2018	Barn Swallow	Threatened	Threatened	6 sitting on a power line at the West Gate
06/09/2018	Barn Swallow	Threatened	Threatened	Flying around the West Gate
06/10/2018	Bobolink	Threatened	Threatened	Flying around the West Gate
06/15/2018	Bald Eagle	Special Concern	--	2 flying above West Creek Pond

06/22/2018	American White Pelican	Threatened	--	22 flying over Mine Rock Pond
06/22/2018	Bobolink	Threatened	Threatened	Flying at OB17
06/22/2018	Bald Eagle	Special Concern	--	Flying over Mine Rock Pond
06/22/2018	American White Pelican	Threatened	--	Flying over Mine Rock Pond
06/23/2018	American White Pelican	Threatened	--	9 flying over Mine Rock Pond
06/23/2018	Bald Eagle	Special Concern	--	Flying over Marr site
06/24/2018	Bald Eagle	Special Concern	--	Flying above West Creek Pond
06/24/2018	American White Pelican	Threatened	--	Flying over Mine Rock Pond
06/25/2018	Bald Eagle	Special Concern	--	Flying over Mine Rock Pond
06/25/2018	American White Pelican	Threatened	--	25 flying over Mine Rock Pond
06/29/2018	American White Pelican	Threatened	--	18 flying over Mine Rock Pond
07/04/2018	Bald Eagle	Special Concern	--	Flying around the Mine Rock Pond
07/07/2018	American White Pelican	Threatened	--	7 flying above Marr Site
07/07/2018	Barn Swallow	Threatened	Threatened	20 on a hydro line by the West Gate
07/08/2018	Bald Eagle	Special Concern	--	Flying above Korpi Road
07/08/2018	Bobolink	Threatened	Threatened	14 flying around the West Gate
07/13/2018	American White Pelican	Threatened	--	13 flying around the Mine Rock Pond
07/26/2018	Barn Swallow	Threatened	Threatened	3 flying around maintenance truck shop, one fledgling found dead
08/14/2018	Barn Swallow	Threatened	Threatened	20 roosting on the Fire Suppression Tank
08/16/2018	Barn Swallow	Threatened	Threatened	13 around West Gate
08/17/2018	American White Pelican	Threatened	--	14 flying over Mine Rock Pond
08/17/2018	Barn Swallow	Threatened	Threatened	50 around West Gate
09/02/2018	Barn Swallow	Threatened	Threatened	20 sitting on a wire by West Gate
09/04/2018	Bald Eagle	Special Concern	--	Flying over Cell 2
09/06/2018	Bald Eagle	Special Concern	--	Roosting in a tree by West Creek Pond
09/13/2018	Bald Eagle	Special Concern	--	Flying over Korpi Rd
09/14/2018	Bald Eagle	Special Concern	--	Flying over the Gate House
09/16/2018	Bald Eagle	Special Concern	--	Roosting in a tree by West Creek Pond
09/19/2018	Bald Eagle	Special Concern	--	2 roosting in a tree by West Creek Pond
09/20/2018	Bald Eagle	Special Concern	--	Flying over Teeple Rd
09/20/2018	Bald Eagle	Special Concern	--	Flying over Roen Rd
09/20/2018	Bald Eagle	Special Concern	--	2 flying over Mine Rock Pond

09/24/2018	Bald Eagle	Special Concern	--	Flying over Teeple Rd
09/25/2018	Bald Eagle	Special Concern	--	4 flying over Teeple Pond
09/29/2018	Bald Eagle	Special Concern	--	12 in OBA land 16 feeding on a deer carcass
10/05/2018	Golden Eagle	Endangered	--	Flying over Roen pit
10/13/2018	Bald Eagle	Special Concern	--	Flying over East Access Rd
10/25/2018	Bald Eagle	Special Concern	--	Flying over the batch plant
10/31/2018	Bald Eagle	Special Concern	--	Flying over West Gate
11/05/2018	Bald Eagle	Special Concern	--	Flying over Gallenger Rd
11/10/2018	Cougar	Endangered	--	Crossing Korpi Rd
11/14/2018	Bald Eagle	Special Concern	--	Flying over the Gallenger Rd
12/19/2018	Bald Eagle	Special Concern	--	Roosting in a tree over West Creek Pond.

Appendix C

Species at Risk Training provided to Staff

Name	Date of Orientation
Perry Podaima	2018/12/29
Jessie Thorsen	2018/12/27
Scott Familetti	2018/12/26
John Asselstine	2018/12/24
Bradley Stilla	2018/12/21
Bradley Stilla	2018/12/21
Clarence Obrian	2018/12/21
Derek Wilford	2018/12/21
Klaye Oberkirsch	2018/12/21
Anne Day	2018/12/19
Brian Annes	2018/12/19
Christian Begin	2018/12/19
Ian Dyll	2018/12/19
Renaud Adams	2018/12/19
Ryan Martin	2018/12/19
Samantha Boernsen	2018/12/19
Dillon Vester	2018/12/18
Gordon Shine	2018/12/18
Jim Martin	2018/12/18
John Boucha	2018/12/18
Mykel Spinks	2018/12/18
Rachid Aouatefi	2018/12/18
Ron Councillor	2018/12/18
Sean Kelly	2018/12/18
Seth Judson	2018/12/18
Trevor States	2018/12/18
Adam Parker	2018/12/17
Brendan Schlamp	2018/12/17
Dan Deluca	2018/12/17
Dwight Holliday	2018/12/15
Gary Nelson	2018/12/15
Joe Jardine	2018/12/15
Joe Jardine	2018/12/15
Johnathan	2018/12/15
Johnathan Reid	2018/12/15
Shannon Fontaine	2018/12/15
Kieth McNally	2018/12/14
Pierre Nussbaumer	2018/12/14
Daniel Matheson	2018/12/13
Lloyd Elliott	2018/12/12
Walter Fletcher	2018/12/12
David Jewett	2018/12/11
Dylan Taylor	2018/12/11
Guillaume Lebeau	2018/12/11
Joon Ho Lee	2018/12/11
Luke Palmer	2018/12/11
Ray Lucas	2018/12/11
Reagan Rosvold	2018/12/11
Shane Lofgren	2018/12/11
Steve Aho	2018/12/11
Doug Brown	2018/12/10

Aaron Teodorovici	2018/12/08
Brad Stephenson	2018/12/08
Brian Temple	2018/12/08
Bryce Libby	2018/12/08
Eldon Klimchuk	2018/12/08
John Potter	2018/12/08
Joshua Guillemin	2018/12/08
Leif Highland	2018/12/08
Luke Jeffrey	2018/12/08
Patrick Rye	2018/12/08
Reuben Shoemaker	2018/12/08
Robert Rye	2018/12/08
Shane Gilbert	2018/12/08
Steven Rosvold	2018/12/08
Tim Taylor	2018/12/08
Troy Hall	2018/12/08
Alayn Bluff	2018/12/07
Alex Bohler	2018/12/07
Donnie Bush	2018/12/07
Greggory Kaukinen	2018/12/07
Gregory Kaukinen	2018/12/07
Jordan Stanford	2018/12/07
Lucas Merkoske	2018/12/07
Nick Glass	2018/12/07
Paul Honkey	2018/12/07
Steve Spoon	2018/12/07
Corey Smith	2018/12/06
Danual J Carey	2018/12/06
Danual J Carey	2018/12/06
Jordan Stanford	2018/12/06
Mathieu Baillargeon	2018/12/06
Robert Matzig	2018/12/06
Vance Hemphill	2018/12/06
Katelynn Jack	2018/12/05
Katlynn Jack	2018/12/05
Miranda Henttonen	2018/12/05
Tyler Karhu	2018/12/05
Craig Madsen	2018/12/04
Gregg Vickell	2018/12/04
Mitchael Hamer	2018/12/04
Norman Mueller	2018/12/04
Brady McMahon	2018/12/03
Duane Croswell	2018/12/03
Jesse Manford	2018/12/02
Kevin Sanden	2018/12/02
Mike Chaval	2018/12/02
Paul Chartrand	2018/12/01
Alex Tom	2018/11/30
Alex Benavides	2018/11/29
Samuel Ernst	2018/11/29
Beau Larocque	2018/11/28
Corey Papineau	2018/11/28

Danny Giroux	2018/11/28
Denny Cunningham	2018/11/28
Eric Pruden	2018/11/28
Glen Austin	2018/11/28
Glen Austin	2018/11/28
Kelly Gagnon	2018/11/28
Marcel LeClair	2018/11/28
Marvin Fege	2018/11/28
Milan Vucko	2018/11/28
Diane Sheppard	2018/11/27
Elif Sharpe	2018/11/27
Bill Speak	2018/11/26
Gilles Benoit	2018/11/26
Jason Siegfried	2018/11/26
Rebekah Maxton	2018/11/26
Rickey Perrault	2018/11/26
Robert Armstrong	2018/11/26
Ryan Martinson	2018/11/26
Thomas Onichuk	2018/11/26
Wayne Gregor	2018/11/26
James Otoo	2018/11/23
Madeline Calvert	2018/11/23
Dirk Crans	2018/11/22
Karen Jensen	2018/11/22
Mark Richard	2018/11/22
Gabriel Proulx	2018/11/21
George Robinson	2018/11/21
Keean Hachey	2018/11/21
Raphael Boutin	2018/11/21
Alcide Boudreau	2018/11/20
Brandon Cholette	2018/11/20
Clifford Ennis	2018/11/20
David Kell	2018/11/20
Dennis Duquette	2018/11/20
Don Chartrand	2018/11/20
Ed Luski	2018/11/20
Jeffrey Tjihoreko	2018/11/20
Mark Schmidt	2018/11/20
Ray Tucker	2018/11/20
Ron Bordeleau	2018/11/20
Roxanne Mueller	2018/11/20
Russell Gregoire	2018/11/20
Sean Ahrens	2018/11/20
Sebastien Gareau	2018/11/20
Steven Savard	2018/11/20
Taylor Golka	2018/11/20
William Wilson	2018/11/20
Sabina Janik	2018/11/19
Andrew Hawkes	2018/11/18
mmn	2018/11/17
Eugene Oshawee	2018/11/16
Trevor Linley	2018/11/16

James Kirkbride	2018/11/15
James Urquhart	2018/11/15
Matt Beach	2018/11/15
Patrick Desruisseaux	2018/11/15
Robert Labrash	2018/11/15
Thomas Fitzpatrick	2018/11/15
Jerry Avery	2018/11/14
Kandi Ewen	2018/11/14
Steve Keenan	2018/11/14
Austin Bour	2018/11/13
Brendan Sampson	2018/11/13
Graham Hay	2018/11/13
Graham Hay	2018/11/13
Hal Cooper	2018/11/13
Jason Shumka	2018/11/13
Jason Shumka	2018/11/13
Jeffrey Maisonneuve	2018/11/13
Joe Anthony	2018/11/13
Shayne Peckham	2018/11/13
Brad Schamerhorn	2018/11/12
Chad Gagnon	2018/11/12
Claire Tibbs	2018/11/12
Daniel Perras	2018/11/12
David Portilla	2018/11/12
Jacob Grenier	2018/11/12
Jarrod Dewaal	2018/11/12
Len Beda	2018/11/12
Luke DeCal	2018/11/12
Nathan Parker	2018/11/12
Paul Lis	2018/11/12
Sarah Moreth	2018/11/12
Scott Johnson	2018/11/12
Tommy Pritchard	2018/11/12
Tyler Byers	2018/11/12
Jordan Gagne	2018/11/11
Neil Keefe	2018/11/10
Danny Wensley	2018/11/07
Geoff Kearney	2018/11/07
Daylen Hoffman	2018/11/06
Hubert Seymour	2018/11/06
Leon Harder	2018/11/06
Mark Griffiths	2018/11/06
Michael Kolisnik	2018/11/06
Rick Christiansen	2018/11/06
Steve Leonard	2018/11/06
Wayne Markow	2018/11/06
Wayne Markow	2018/11/06
Darren Procup	2018/11/05
David Bocking	2018/11/05
Dennis Helder	2018/11/05
Les Ligetfalvy	2018/11/05
Mathew Bourne	2018/11/03

Robert Fontaine	2018/11/03
Stephen Morris	2018/11/03
Will Bryden	2018/11/03
Zak Wallace	2018/11/02
Bryan Card	2018/11/01
Raymond Mac Eachen	2018/11/01
Rick Grant	2018/11/01
Wayne Gregor	2018/11/01
Devon Bourdin	2018/10/31
Donna Edwards	2018/10/31
Dustin Loewen	2018/10/31
Heidi Manicke	2018/10/31
Jarrett Menzies	2018/10/31
Perrin Kieftenbeld	2018/10/31
Alvin McMillen	2018/10/29
Andre Nault	2018/10/29
Dave Erb	2018/10/29
Nick Grolway	2018/10/29
Matt Whitney	2018/10/27
Krista Gouliquer	2018/10/26
Noah Zimmerman	2018/10/26
James Degroot	2018/10/25
Julie Fedorak	2018/10/25
Sheila Prince	2018/10/25
Marilyn Jourdain	2018/10/24
Jean-Francois Mercier	2018/10/23
Ben Strong	2018/10/22
Derick Michaelis	2018/10/22
Rody Mafuta	2018/10/22
Roger Bertrand	2018/10/22
Brendan Morand	2018/10/21
John Young	2018/10/21
Catherine Groulx	2018/10/19
Keith Haw	2018/10/19
Ken Aucoin	2018/10/19
Wade Johnson	2018/10/19
Jeff Poulton	2018/10/18
Joanie Spoon	2018/10/18
Martin Vienneau	2018/10/18
Ryan Cullum	2018/10/18
Chris Wark	2018/10/17
Georgina Bragg	2018/10/17
James Kaemingh	2018/10/17
Jim Labelle	2018/10/17
Matt Hazell	2018/10/17
Aimee Coutu	2018/10/16
Alex Rubenick	2018/10/16
Bethany Friesen	2018/10/16
Brett Corbett	2018/10/16
Brian Beaucage	2018/10/16
Brittany Gartner	2018/10/16
Campbell Gregory	2018/10/16

Chris Beaucage	2018/10/16
Cole Anderson	2018/10/16
Cory Rooks	2018/10/16
Dallas Davis	2018/10/16
Dalton Lundgren	2018/10/16
Deirdre Connell	2018/10/16
Devin Cramer	2018/10/16
Don Godin	2018/10/16
Donald Matheson	2018/10/16
Donald Minott	2018/10/16
Fredrick Morton	2018/10/16
Glenn Richardson	2018/10/16
Gordon Pedersen	2018/10/16
Jason Baldwin	2018/10/16
Karl Harrison	2018/10/16
Kyle Mattocks	2018/10/16
Lee Mosley	2018/10/16
Lloyd Kerkermeier	2018/10/16
Robert Price	2018/10/16
Steven Pedersen	2018/10/16
Wade Patabon	2018/10/16
Wayne Farnum	2018/10/16
Wes Poneira	2018/10/16
Christian Pepin	2018/10/15
Keegan McDougall	2018/10/15
Paolo Tomasone	2018/10/15
Cody Noseworthy	2018/10/14
Roger Allen	2018/10/14
Andre Villeneuve	2018/10/13
Tyler Ormerod	2018/10/13
Jeff Forsberg	2018/10/12
Kyle Benson	2018/10/12
Peter Canfield	2018/10/11
Sam Hawkins	2018/10/11
Anne Rousseau	2018/10/10
Corey Monkman	2018/10/10
Gavin Smith	2018/10/10
Jamie Loveday	2018/10/10
Jonathan Van Troyen	2018/10/10
Katherine Lunney	2018/10/10
Kevin Nordberg	2018/10/10
Linden Langlais	2018/10/10
Marcy Loveday	2018/10/10
Sydney Stanley	2018/10/10
Hunter Ottoson	2018/10/09
Bill Cameron	2018/10/07
Micheal Koopmann	2018/10/07
William Towes	2018/10/06
Kirk Shaw	2018/10/04
Richard Levesque	2018/10/04
Graham Meyer	2018/10/03
Tyler Lief	2018/10/03

Brent Thierry	2018/10/02
Cody Lennstrom	2018/10/01
Craig Stover	2018/10/01
Espirit Friday	2018/10/01
Jamie Murphy	2018/10/01
Tyler Eyolfson	2018/10/01
Scott Frechette	2018/09/30
Keith Baker	2018/09/29
Alexandre Duval	2018/09/27
Martin Bernard	2018/09/27
Ivan Magdic	2018/09/26
Joel Taylor	2018/09/26
Joel Wilson	2018/09/26
Lochart Inglis	2018/09/26
Rick Ongaro	2018/09/26
Charles Hennessey	2018/09/25
Dan Baxter	2018/09/25
Richard Gan	2018/09/25
Romeo Amuan	2018/09/25
Allan Johnston	2018/09/24
Anthony Venables	2018/09/24
Ashley Siemens	2018/09/24
Brandon Kukula	2018/09/24
Brennan Anderson	2018/09/24
Chris Ruby	2018/09/24
Curtis Hartlin	2018/09/24
Dalton Alexander	2018/09/24
David Farebrother	2018/09/24
Deanne Lyons	2018/09/24
James Kennedy	2018/09/24
Jessie Blackhawk	2018/09/24
John Laco	2018/09/24
Kayle Bryant	2018/09/24
Lionel Horton	2018/09/24
Marco Lessard	2018/09/24
Mathi Shan	2018/09/24
Matthew Cote	2018/09/24
Michael Cochrane	2018/09/24
Nerissa McRury	2018/09/24
Robert Conn	2018/09/24
Roger Sheppard	2018/09/24
Sean Derkson	2018/09/24
Shelley Thompson	2018/09/24
Tyler Venerus	2018/09/24
Victoria Clifford	2018/09/24
Bruce Bauman	2018/09/22
Jeff Ross	2018/09/22
James Leonard	2018/09/21
Kevin Brunet	2018/09/21
Wayne Champayne	2018/09/21
Charles DeBungee	2018/09/20
Landon Wall	2018/09/20

Thomas Mel Durie	2018/09/19
Alex Pylypenko	2018/09/18
Andre Lebel	2018/09/18
Bradley Williams	2018/09/18
Brysin Shaw	2018/09/18
Darwin Lance	2018/09/18
Devon Hockley	2018/09/18
Dylan Anderson	2018/09/18
Gordon Amos	2018/09/18
Robert Gagne	2018/09/18
William Whalen	2018/09/18
Alexander Pucci	2018/09/17
Carl Hurcombe	2018/09/17
David Brunet	2018/09/17
James Trendiak	2018/09/17
Josiah Knox	2018/09/17
kevin vandenbossche	2018/09/17
Dennis Andrade	2018/09/16
Kobe Gardiman	2018/09/16
Dan Galloway	2018/09/15
Jean Pelchat	2018/09/14
Wendell Nixon	2018/09/14
Eric Bouchard	2018/09/13
Ramy Kamel	2018/09/13
Floyd St. Bernard	2018/09/12
Karl hamilton	2018/09/12
Ryen Amos	2018/09/12
Amy Gushulak	2018/09/11
Andrew Clark	2018/09/11
Bret McQuaker	2018/09/11
Bret Mcquaker33:26782	2018/09/11
Curt Pearson	2018/09/11
Dennis Lemay	2018/09/11
Dwight Gallusha	2018/09/11
Eric Lalonde	2018/09/11
Fedrick Forth	2018/09/11
Gino Come	2018/09/11
Ian Kopp	2018/09/11
Jake Doherty	2018/09/11
Jerry Dolph	2018/09/11
John Lawe	2018/09/11
Jonathan Szyszka	2018/09/11
Justin St. Denis	2018/09/11
Justin Takacs	2018/09/11
Kailey Singh	2018/09/11
keith Catton	2018/09/11
Kelsea Hunsperger	2018/09/11
Ken Manty	2018/09/11
Kyle Kuntz	2018/09/11
Lucie Dubnick	2018/09/11
Mackenzie Dawson	2018/09/11
Mike Dubois	2018/09/11

Myrica Hinich	2018/09/11
Peter Woodhouse	2018/09/11
Randal Secord	2018/09/11
Sonya Tremblett	2018/09/11
Sott Ahrens	2018/09/11
Tyrell Worrall	2018/09/11
Derek McKinnon	2018/09/10
Jon Ross	2018/09/10
Keith Caul	2018/09/10
Sandy Tavelli	2018/09/10
Vaughn Rodwell	2018/09/10
Parker Johnson	2018/09/07
Percy Gomez	2018/09/07
Joe Hall	2018/09/06
Matthew Allen	2018/09/06
Mitchell Rundle	2018/09/06
Ryan Johnson	2018/09/06
Shaun Beardy	2018/09/06
William Pendergras	2018/09/06
Brian Mattie	2018/09/05
Iran Betty	2018/09/05
James Taylor	2018/09/05
John Gellner	2018/09/05
Jonas McKenzie	2018/09/05
Kale Harris	2018/09/05
Kira Tivy	2018/09/05
Phil Friesen	2018/09/05
Eiji Moller	2018/09/04
Fred Cramer	2018/09/04
Sean McGinn	2018/09/04
Thomas Chartrand	2018/09/04
Trevor Boimistruck	2018/09/04
Paul Scharf	2018/09/03
Zach Roy	2018/09/03
Brian Melanson	2018/09/02
Chris Cuyler	2018/09/02
Clayton Spence	2018/09/02
Cody Dew	2018/09/02
Frank Sikora	2018/09/02
Kim Heath	2018/09/02
Michael Moody	2018/09/02
Steve Bedard	2018/09/02
Chris O'Gorman	2018/08/30
Mark Skrzypek	2018/08/30
Peter Dyck	2018/08/30
Shane Rencher	2018/08/30
Cody Huls	2018/08/29
Jeanie Townson	2018/08/29
Kathie Zatulsky	2018/08/29
Mark Mallette	2018/08/29
Matt Meadwell	2018/08/29
Samuel Dube	2018/08/29

Steven Laffin	2018/08/29
Tom Reid	2018/08/29
Bryan Dahl	2018/08/28
Chloe Machura	2018/08/28
Colin Potter	2018/08/28
Ian Grant	2018/08/28
Jordan Zimmer	2018/08/28
Joshua Fisher	2018/08/28
Martin Dickson	2018/08/28
Michael Forsyth	2018/08/28
Robert Handorgan	2018/08/28
Ryan Kalika	2018/08/28
Chris Foran	2018/08/27
Dylan Stanley	2018/08/27
Garth Sutton	2018/08/27
Kennedy Kingston	2018/08/27
Kurtis KostamoKurtis Ksstamo	2018/08/27
Michael Arseneault	2018/08/27
Todd McIntyre	2018/08/27
Zain Ghaffur	2018/08/27
Becky Lengyel	2018/08/26
Sean McGuirk	2018/08/25
Clint Reid	2018/08/24
Frank Meekis	2018/08/23
Jordan Nelson	2018/08/23
Liane Rouse	2018/08/23
Mike Wilson	2018/08/23
Ryan Campbell	2018/08/23
Brady Cawston	2018/08/22
Douglas Reid	2018/08/22
Edwin Bluebird	2018/08/22
Hugh Smith	2018/08/22
Matt Velemirovich	2018/08/22
Michael Keeliny	2018/08/22
Michael Thibault	2018/08/22
Mike Sabourin	2018/08/22
Nathan Middleton	2018/08/22
Richard Lancaster	2018/08/22
Roger Leger	2018/08/22
unknown	2018/08/22
Wayne Widgren	2018/08/22
Joelle Smith	2018/08/21
Kimberly Conrod	2018/08/21
Larry Beniusis	2018/08/21
Matthew Schlue	2018/08/21
Michael Keeliny	2018/08/21
Patrick Elvish	2018/08/21
Randy Fincaryk	2018/08/21
scott Kuchma	2018/08/21
Tyler Schultz	2018/08/21
Ben Collins	2018/08/20
Curtis Levesque	2018/08/20

Ed Fread	2018/08/20
Konstantin Polishchuk	2018/08/20
Madison Ainsworth	2018/08/20
Sara Halwas	2018/08/20
Sympathy Moyo	2018/08/20
Adrian Harvey	2018/08/19
Andrew Elder	2018/08/19
Andrew Piechota	2018/08/19
Audie Davis	2018/08/19
Blaine Bonnell	2018/08/19
Brett Lawrence	2018/08/19
Brian McKinnon	2018/08/19
Cecil Lampi	2018/08/19
Chris Leeds	2018/08/19
Cole Mattson	2018/08/19
Dylan Patterson	2018/08/19
Edward Selman	2018/08/19
Eric Marshall	2018/08/19
Evan Kytayko	2018/08/19
Frank Bennardo	2018/08/19
Geoff Dexter	2018/08/19
Henry Froese	2018/08/19
James Locke	2018/08/19
James MacNeil	2018/08/19
Joey Strakowicz	2018/08/19
John Matheson	2018/08/19
Jordan Bell	2018/08/19
Jordan McArthur	2018/08/19
Karl Tonn	2018/08/19
Kevin Stecyk	2018/08/19
Marc Boucher	2018/08/19
Nicholas Macmillan	2018/08/19
Nick DeViono	2018/08/19
Randy Maybroda	2018/08/19
Rob Price	2018/08/19
Samuel Toki	2018/08/19
Seth Haddick	2018/08/19
Shane Lamppu	2018/08/19
spencer	2018/08/19
Spencer Turcotte	2018/08/19
Stephen Skwarek	2018/08/19
Sterling Lesperance	2018/08/19
Tanner Permes	2018/08/19
Timothy Hoffele	2018/08/19
Todd Gilmaster	2018/08/19
Troy Cunningham	2018/08/19
Uriah Laing	2018/08/19
William Froude	2018/08/19
William Pruys	2018/08/19
William Smith	2018/08/19
Wyatt Thompson	2018/08/19
Clarence Gardipy	2018/08/17

Clayton Park	2018/08/17
Greg FitzPatrick	2018/08/17
Helen Cup	2018/08/17
Kristien Holmstrom	2018/08/17
Murray Cook	2018/08/17
Rob Jedruch	2018/08/17
James Peach	2018/08/16
Don McRae	2018/08/15
Paul Sorin	2018/08/15
Scott Menzies	2018/08/15
Aaron Letandre	2018/08/14
Arthur Van Ael	2018/08/14
Brent Williams	2018/08/14
Daniel Crossingham	2018/08/14
Darryl Bodnar	2018/08/14
Jade Malcolm	2018/08/14
Joe Jagodzinski	2018/08/14
Justin Whitecrow	2018/08/14
Malcolm Paul Sawler	2018/08/14
Malcolm Sawler	2018/08/14
Matthew Wilson	2018/08/14
Paul Visser	2018/08/14
Phillip Ottertail	2018/08/14
Shawn Pollard	2018/08/14
William Goodwin	2018/08/14
Andy Tattrie	2018/08/13
Lisa Bobbie	2018/08/13
Shawn Nishimura	2018/08/13
Julian Collette	2018/08/11
Robert Stockla	2018/08/11
Mitchell Bryant	2018/08/10
Dave Posaluko	2018/08/09
Dustyn Rebryna	2018/08/09
Jason Jones	2018/08/09
Josh Innanen	2018/08/09
Mike Foster	2018/08/09
Robert Ramsay	2018/08/09
Shane LeTual	2018/08/09
Roy Smith	2018/08/08
Sherry Sinclair	2018/08/08
Attila Zavicsa	2018/08/07
Eric Erkkila	2018/08/07
John Huska	2018/08/07
Josh Merante	2018/08/07
Murray Gill	2018/08/07
Stephen Alexander	2018/08/07
Taher Hosseinzadeh	2018/08/07
Donald Bourque	2018/08/06
Jeremy Enders	2018/08/06
John Boldt	2018/08/06
Robert Potts	2018/08/06
Steven Allen	2018/08/03

Adam Chippett	2018/08/02
Billy Beardy	2018/08/02
Don Hay	2018/08/02
Ivan Genaille	2018/08/02
Jarrod Smith	2018/08/02
Kyle Lane	2018/08/02
Nazareth Nasikapow	2018/08/02
Adam Trycznski	2018/08/01
Brandon Thurier	2018/08/01
Control Room Data Center	2018/08/01
Control Room Data Center	2018/08/01
Control Room Data Center	2018/08/01
Control Room Data Center	2018/08/01
Daniel Normore	2018/08/01
Jimmy White	2018/08/01
Mark Huckerby	2018/08/01
Nelson Haney	2018/08/01
Paul Barrie	2018/08/01
Phillip Desaulniers	2018/08/01
Tim Ross	2018/08/01
Troy Paquette	2018/08/01
Wayne Bull	2018/08/01
Andrew Smith	2018/07/31
Derek Bobbie	2018/07/31
Garth Hayter	2018/07/31
Mitchell Caruso	2018/07/30
Kevin Myall	2018/07/29
Nathan Vaillant	2018/07/29
Bernard Gagnon	2018/07/28
Tammy Hodder	2018/07/28
Brent Rehkoph	2018/07/27
Trevor Manchester	2018/07/27
Angus McKenzie	2018/07/26
Chandler Pollard	2018/07/26
Craig Gray	2018/07/26
Denis Yarosh	2018/07/26
Jessica Jordan	2018/07/26
Martina Mamakwa	2018/07/26
Ron Dusener	2018/07/26
Ryan Bruce	2018/07/26
Derek Johnson	2018/07/25
Jackson Penner	2018/07/25
Katie Shoemaker	2018/07/25
Matthew Jackson	2018/07/25
Michelle Trevor	2018/07/25
Richard Wyryha	2018/07/25
Shane Killam	2018/07/25
Shayna Desaulniers	2018/07/25
Yahya Abdi	2018/07/25
Anthony Perpich	2018/07/24
Behshad Sabah	2018/07/24
Brian Cinq-Mars	2018/07/24

Colin Wright	2018/07/24
Dan Paul	2018/07/24
Derek Wheelans	2018/07/24
Gary Sherban	2018/07/24
Guy Hutchison	2018/07/24
Jason Methot	2018/07/24
Jeff Pederson	2018/07/24
Justin Bougie	2018/07/24
Kelly Campbell	2018/07/24
Kevin Honke	2018/07/24
Launa White	2018/07/24
Mike Gerow	2018/07/24
Noel Mejia	2018/07/24
Nolan Campbell	2018/07/24
Richard Fenez	2018/07/24
Sheldon Armstrong	2018/07/24
Travis Paradis	2018/07/24
Tristan Slater	2018/07/24
Tyson Skead-Stevens	2018/07/24
Victor Leonard	2018/07/24
Victor Stamler	2018/07/24
Vincent Houle	2018/07/24
Allan Borden	2018/07/23
Brian Captain	2018/07/23
Bryan Morris	2018/07/23
Christopher Whalen	2018/07/23
Dave Robinson	2018/07/23
David Johnston	2018/07/23
Elwyn Benedictson	2018/07/23
Greg Way	2018/07/23
Jarrod Fitzner	2018/07/23
Lloyd Penner	2018/07/23
Mark Matthews	2018/07/23
Patrick Bemister	2018/07/23
Richard Fernandez	2018/07/23
Robert Carpenter	2018/07/23
Ryan Saunders	2018/07/23
Scott Lambert	2018/07/23
Sean Yardley	2018/07/23
Vaughn Jorgensen	2018/07/23
Alan Coulter	2018/07/22
Kevin Algner Herbert	2018/07/22
Ruslen Trokhanovskyy	2018/07/22
Sasha Strebchuk	2018/07/22
Cher Pruys	2018/07/21
Michael Cooper	2018/07/21
Craig Yelle	2018/07/20
Garland Magnusson	2018/07/20
Jordan Taggert	2018/07/20
Leslie Moritz	2018/07/20
Steve Lavallee	2018/07/20
Adam Young	2018/07/19

Brady Shaddick	2018/07/19
Erwin Stobert	2018/07/19
Jeff Nishimura	2018/07/19
Larry Cove	2018/07/19
Nishant Chauhan	2018/07/19
Paul Holland	2018/07/19
Raychel Crebo	2018/07/19
Soheil Sayedinazad	2018/07/19
Ted Green	2018/07/19
Andrew Hopper	2018/07/18
Oscar Galindo	2018/07/18
Rob McDonald	2018/07/18
Anthony Amadi	2018/07/17
Dalton Meilliur	2018/07/17
Danton Meilleur	2018/07/17
Matthew Boudreau	2018/07/17
Mike Christopher Mitchell	2018/07/17
Shanna Whalen	2018/07/17
Brett Eyolfson	2018/07/16
Frederick Silcox	2018/07/16
Hunter Longshore	2018/07/16
Lenora Deschamps	2018/07/16
Patricia Albert	2018/07/16
Rikky Eshane	2018/07/16
Tim Dodd	2018/07/16
Tucker Johnson	2018/07/16
Cody Colby	2018/07/15
Cole Bellerose-Mackay	2018/07/15
Dave Kozyra	2018/07/15
Paul Smart33:33:	2018/07/15
Susan Tomalty	2018/07/15
Brody Anderson	2018/07/14
Cole Radics	2018/07/14
Daniel Prentice	2018/07/14
Darcy Masson	2018/07/14
David Rose	2018/07/14
Ed Turner	2018/07/14
Ed Turner	2018/07/14
Garnet Favell	2018/07/14
Harold Kelly	2018/07/14
Jaysson Christensen	2018/07/14
Joey Pereira	2018/07/14
Johnathon Therrien	2018/07/14
Kevin Ciemny	2018/07/14
Kevin Francois	2018/07/14
Kunyu Luo	2018/07/14
Phillip Smith	2018/07/14
Rodney Waldner	2018/07/14
Aiden Chmielak	2018/07/13
Clayton Mcdowell	2018/07/13
David Jolly	2018/07/13
Brittany Kaun	2018/07/12

Caitlin Anderson	2018/07/12
Catlin Mackinnon	2018/07/12
Christine Loveday	2018/07/12
Robert Salmen	2018/07/12
Rudy Anderson	2018/07/12
Ryan Campbell	2018/07/12
Sean MacInnis	2018/07/12
Sherman Sonnier	2018/07/12
Tanner Wood	2018/07/12
Alex Tookenay	2018/07/11
Andy Grift	2018/07/11
Barry Smith	2018/07/11
Dan Rivera	2018/07/11
Darren Henderson	2018/07/11
David Jenson	2018/07/11
Glen Taylor	2018/07/11
Glenn Pennell	2018/07/11
John Boyd	2018/07/11
Michael Ganes	2018/07/11
Neil Sully	2018/07/11
Richard Houlahan	2018/07/11
Scott Christianson	2018/07/11
Stephan Langlois	2018/07/11
Tommy Dube	2018/07/11
Tyler Jacobson	2018/07/11
Vince Rovinelli	2018/07/11
Barry Secord	2018/07/10
Ben Fishburn	2018/07/10
Bill Barty	2018/07/10
Braidyn Anderson	2018/07/10
Evan Howie	2018/07/10
Fyland Gallagher	2018/07/10
Jason Sedesky	2018/07/10
Mark Cunnington	2018/07/10
Matt Ogden	2018/07/10
Rodney Ralph	2018/07/10
Ron MacPhee	2018/07/10
Sean Bruce	2018/07/10
Todd Poirier	2018/07/10
Tony Lospe	2018/07/10
Brett Evans	2018/07/09
Cassidy Dunnet	2018/07/09
Charlotte Arnold	2018/07/09
Dan Zambrano	2018/07/09
Dana Dusener	2018/07/09
Jon Woodgate	2018/07/09
Kelyn Vos	2018/07/09
Kenneth Cook	2018/07/09
Marlas Larson	2018/07/09
Paul Morrison	2018/07/09
Reed King	2018/07/09
Sam Glover	2018/07/09

Willard Stuparyk	2018/07/09
Bryson Wark	2018/07/08
Deidrick Smith	2018/07/08
Michele Randle	2018/07/08
Ross Adamoski	2018/07/08
Sean Li	2018/07/08
sheldon roberts	2018/07/08
Alex Fennig	2018/07/07
Brandon Pelz	2018/07/07
Doug Rupert	2018/07/07
Jesse Morden	2018/07/07
Luc Desserre	2018/07/07
Mathew Grandbois	2018/07/07
Mike Woloshyn	2018/07/07
Preston Azevedo	2018/07/07
Samuel Catton	2018/07/07
Bradley Macphee	2018/07/06
Brady White	2018/07/06
Braydon Jupp	2018/07/06
Brett Sweezey	2018/07/06
D. Tony Mcelhatton	2018/07/06
Daniel Turney	2018/07/06
Denis Bouffard	2018/07/06
Denny Grandmaison	2018/07/06
Donald St. Pierre	2018/07/06
Donovan Cochrane	2018/07/06
Jason Paulson	2018/07/06
Jason Ploschak	2018/07/06
John Bechard	2018/07/06
Kai Koopmann	2018/07/06
Marvin Paul	2018/07/06
Reid Bennett	2018/07/06
Richard Wait	2018/07/06
Sekina Scheibler	2018/07/06
Stephan Koopmann	2018/07/06
Steve Titterton	2018/07/06
Tyler Dunahee	2018/07/06
Andrew Marck	2018/07/05
Arash Rafat	2018/07/05
Braden Richards	2018/07/05
Cara Bedard	2018/07/05
Corrine Caisse	2018/07/05
Cory McAllister	2018/07/05
Dan Kearsey	2018/07/05
Doug MacDonald	2018/07/05
James McDuffie	2018/07/05
Jay Burk	2018/07/05
John Danard	2018/07/05
Jordan Routhier	2018/07/05
Jordan Wicks	2018/07/05
Kevin Cardinal	2018/07/05
Kevin Kaspick	2018/07/05

Micheal McAllister	2018/07/05
Morgan Redford	2018/07/05
Nathen Debungee	2018/07/05
Sherie Lees	2018/07/05
Siegfried Wenninger	2018/07/05
Terrell Yerxa-Mosher	2018/07/05
Adam Hughson	2018/07/04
Adam Phillips	2018/07/04
Anthony Pusic	2018/07/04
Bryan Quesnel	2018/07/04
Charles Parker JR	2018/07/04
Danny Wensley	2018/07/04
Doug Britten	2018/07/04
Gary Ferguson	2018/07/04
Jason Hill	2018/07/04
Jerry Morrow	2018/07/04
Jonathan Sheppard	2018/07/04
Larry Loveday	2018/07/04
Matt Heinte	2018/07/04
Michael Adamosk	2018/07/04
Mike Dubois	2018/07/04
Norman Pettis	2018/07/04
Paul Morrison	2018/07/04
Paul Schaff	2018/07/04
Tom Michaluk	2018/07/04
Cole Wickenden	2018/05/26
Emmanuel Abuwa	2018/05/26
Andrew Hinshelwood	2018/05/24
David Craig	2018/05/24
Kenneth Bombay	2018/05/24
Rick Puukila	2018/05/24
Scott Foster	2018/05/24
Troy Power	2018/05/24
Joe Gilbertson	2018/05/23
Rolly Arseneault	2018/05/23
Eric Balon	2018/05/22
John Moffatt	2018/05/22
Logan Miller	2018/05/22
Martin Moore	2018/05/22
Pylypenko Oleksandra	2018/05/22
Ryan Scheurer	2018/05/22
Shawn Dobransky	2018/05/22
Ian Mark	2018/05/21
Jennifer Schreiner	2018/05/21
Jordan Beardy	2018/05/21
Jesse Thorne	2018/05/20
Marcel Lamoureux	2018/05/19
Trystn Vacek	2018/05/19
Fabricio Araujo Da Silva	2018/05/18
Remy Pellerin	2018/05/18
Bethany Wiebe	2018/05/17
Chris White	2018/05/17

Clarke Bouchie	2018/05/17
Jesse Morrisseau	2018/05/17
Parth Patel	2018/05/17
Patrick Cortens	2018/05/17
Robert Cole	2018/05/17
Wally Pennell	2018/05/17
Adrian Churcher	2018/05/16
Allan Stone	2018/05/16
Ben Miller	2018/05/16
Caleb Koomans	2018/05/16
Christopher Stone	2018/05/16
Ken Huntingford	2018/05/16
Martin Gramlich	2018/05/16
Whitney Speaker	2018/05/16
Cheryl McEvoy	2018/05/15
Doug Caul	2018/05/15
Edward Vergnaud	2018/05/15
Gregory Vassberg	2018/05/15
Irakli Khorbaladze	2018/05/15
Jacob Halverson	2018/05/15
Lawrence Kelly	2018/05/15
Lloyd Sexton	2018/05/15
Michael Hatton	2018/05/15
Randy Pinder	2018/05/15
Riley Caul	2018/05/15
Robin Grynol	2018/05/15
Shane Constantine	2018/05/15
Stacey Boshey	2018/05/15
Stephan Jackson	2018/05/15
Thomas Hunter	2018/05/15
Tim Pangman	2018/05/15
Trevor Stein	2018/05/15
Adekunle Bakare	2018/05/14
Brian Kirk	2018/05/14
Jeff Bevans	2018/05/14
LLoyd Johnson	2018/05/14
Kevin Crocker	2018/05/12
Andrew Woodd	2018/05/11
Bev Lofthang	2018/05/11
Chris Kavanagh	2018/05/11
Colby Koecher	2018/05/11
Jun Yong Erh	2018/05/11
Leroy Gross	2018/05/11
New user	2018/05/11
Romeo Kovacevic	2018/05/11
Shania Laforce	2018/05/11
Steve Doyle	2018/05/11
Steven Oliver	2018/05/11
Terry Lofthang	2018/05/11
John Bettiol	2018/05/10
Ronald Chatel	2018/05/10
David Meredith	2018/05/09

Caron Cridland	2018/05/08
Chris Pound	2018/05/08
Deaydra Delorme	2018/05/08
Ebenezer Gwirah	2018/05/08
Emerson Klassen	2018/05/08
Geoff Neilson	2018/05/08
Gordon Robinson	2018/05/08
Johnny Beaudrow	2018/05/08
Joseph Bodnar	2018/05/08
Ryan Steiner	2018/05/08
Tom Bishop	2018/05/08
Chris Nabess	2018/05/07
Donald Hooper	2018/05/07
Dustin Turpin	2018/05/07
Garett Gamsby	2018/05/07
James Olson	2018/05/07
Jory Glomba	2018/05/07
Justin Enns	2018/05/07
Kaleb McDonald	2018/05/07
Mark Williams	2018/05/07
Nicole Warriner	2018/05/07
Richard Abbott	2018/05/07
Richard Earley	2018/05/07
Tino Gusola	2018/05/07
Dennis Jalbert	2018/05/06
Everett Chojko-Bolec	2018/05/06
Greg Holm	2018/05/06
Jeffrey Churchley	2018/05/06
Robert Smith	2018/05/06
James Leonard	2018/05/05
Chelsea Scora	2018/05/04
David Martin	2018/05/04
Fredwic Wicks	2018/05/04
George Fortune	2018/05/04
Jeremy Maendel	2018/05/04
John McCord	2018/05/04
Jonathan Enojo	2018/05/04
Mark Caines	2018/05/04
Miles Crockatt	2018/05/04
New user	2018/05/04
Ryan Hudson	2018/05/04
Tylor Bonnett	2018/05/04
Brendon Edwards	2018/05/03
Curtis Johnson	2018/05/03
Doug York	2018/05/03
Joseph Noel	2018/05/03
Stephane Desjardins	2018/05/03
Taylor Manning	2018/05/03
Yan Gagnon	2018/05/03
Ben Schmidt	2018/05/02
Charles Bennett	2018/05/02
Frank Arella	2018/05/02

Hailey Moncrief	2018/05/02
Jodie Ball	2018/05/02
Ryan Gibson	2018/05/02
Tyler Edwards	2018/05/02
Bryan Swanton	2018/05/01
Leslie Kay	2018/05/01
Michael Sadewasser	2018/05/01
Nick Skinner	2018/05/01
Olga Bondarenko	2018/05/01
Zaeem Khalid	2018/05/01
Andrey Zapolskiy	2018/04/30
Brian Morgenstern	2018/04/30
Chris Johnston	2018/04/30
Don Baxter	2018/04/30
Mark Loveday	2018/04/30
Michael Murdoch	2018/04/30
Rich Tribe	2018/04/30
Scott Boles	2018/04/30
Shivraj Sagar	2018/04/30
Tony Casagranda	2018/04/30
Adam Payne	2018/04/27
Curtis Jansen	2018/04/27
Curtis Johansen	2018/04/27
Dale Thibault	2018/04/27
Gerald Janes	2018/04/27
Leonard Gott	2018/04/27
Mitchel Richard	2018/04/27
New user	2018/04/27
Nick Ewasiuk	2018/04/27
Ryan Demings	2018/04/27
Scott Hillyard	2018/04/27
Sean Dearlove	2018/04/27
Steve Toews	2018/04/27
Matthew Lalonde	2018/04/26
John Buyting	2018/04/25
Kurtis Gagne	2018/04/25
Alain Minier	2018/04/24
Chris Arnold	2018/04/24
Colin Johnson	2018/04/24
Darren O'Donnell	2018/04/24
Dustin Masson	2018/04/24
John Vacek	2018/04/24
Julie Mattson	2018/04/24
Karen Vacek	2018/04/24
Tearyn Wiebe	2018/04/24
Theron Holden	2018/04/24
Wayne Caul	2018/04/24
Aaron Law	2018/04/23
Andrew Ingram	2018/04/23
Dale Klodnicki	2018/04/23
Dan Oechsler	2018/04/23
Henry M Smith IV	2018/04/23

Jonathan Flamand	2018/04/23
Mike Paul	2018/04/23
Ryan Nagy	2018/04/23
Sergii Stetsenko	2018/04/23
Wayne Gordon	2018/04/23
Bill Wilson	2018/04/21
Dele Oyelese	2018/04/20
Jeremy Potson	2018/04/20
Willy Miller	2018/04/20
Aaron Arnholtz	2018/04/19
James Luck	2018/04/19
Ray Skoleski	2018/04/19
Tyrell Griffith	2018/04/19
Chris Elyk	2018/04/18
Cory Cole	2018/04/18
Donovan Dean	2018/04/18
George Unrau	2018/04/18
John Bell	2018/04/18
Matt Hyland	2018/04/18
New user	2018/04/18
Roger Yurick	2018/04/18
Romero Paul	2018/04/18
Shamus Crites	2018/04/18
Trent Charles	2018/04/18
Troy Dixson	2018/04/18
Anthony Gebert	2018/04/17
Craig Chaval	2018/04/17
Donna Court	2018/04/17
Jake Mazur	2018/04/17
Jaxon Angus	2018/04/17
John Esselink	2018/04/17
Jonathan McLean	2018/04/17
Josh Cousineau	2018/04/17
Josh Gouin	2018/04/17
Keith Arvelin	2018/04/17
Kyle Reykdal	2018/04/17
Shane Loyie	2018/04/17
Stefan Gerber	2018/04/17
Travis Blackjack	2018/04/17
Wayne Angus	2018/04/17
Chris Methot	2018/04/16
Lisa Braxton	2018/04/16
Milton Braxton	2018/04/16
Ronald Matysio	2018/04/16
Tim Harper	2018/04/16
Lyle Singbell	2018/04/15
Brad Kirkwood	2018/04/14
Branden DeVisser	2018/04/14
Brayden McAuley	2018/04/14
Daniel Wiltshire	2018/04/14
Johnny Crnkovich	2018/04/14
Chris Murphy	2018/04/13

Daniel Gagne	2018/04/13
Darrin Ward	2018/04/13
Derek Hill	2018/04/13
Ken Lindsay	2018/04/13
Kieth St. Peter	2018/04/13
New user	2018/04/13
New user	2018/04/13
Robert Irvine	2018/04/13
Scott Bird	2018/04/13
Justin Collier	2018/04/12
New user	2018/04/12
Brett Malo	2018/04/11
Curtis Monkman	2018/04/11
Dalton Betts	2018/04/11
Duncan McCabe	2018/04/11
Geoff Vaillent	2018/04/11
Leonard Chornoby	2018/04/11
Richard Adams	2018/04/11
Sean VanHaesendonck	2018/04/11
Tarlia Mackay	2018/04/11
Travis Michelle	2018/04/11
Troy Salois	2018/04/11
Allan Mychasiw	2018/04/10
Chelsey Sharp	2018/04/10
David O'Brien	2018/04/10
Edwin Fui	2018/04/10
Harold Brun	2018/04/10
James Blattner	2018/04/10
Jeff Kelly	2018/04/10
Jesse Paypompee	2018/04/10
Joseph Luby	2018/04/10
Mylo Smith	2018/04/10
Randal Turk	2018/04/10
Travis George	2018/04/10
Trevor Brown	2018/04/10
Aaron De Long	2018/04/09
Andy Edwards	2018/04/09
Chris Longton	2018/04/09
D.J. Wilson	2018/04/09
Donald Gray	2018/04/09
Doug Baggs	2018/04/09
Justin Larson	2018/04/09
Kevin Norberg	2018/04/09
Zach Ridge	2018/04/09
Zachary Purdy	2018/04/09
Raimo Lustig	2018/04/08
Kathy Piotrowski	2018/04/07
Richard Poitrowski	2018/04/07
Joe Glenn	2018/04/06
Michael Ryckman	2018/04/06
Raymon Beaulieu	2018/04/06
Chris Winstl	2018/04/05

Jared Rose	2018/04/05
Kevin Pelz	2018/04/05
Ryan Bently	2018/04/05
Christopher Foulds	2018/04/04
Micheal Colaneri	2018/04/04
Jamie Caouette	2018/04/03
Jesse Csuzdi	2018/04/03
Jodie Bodnariuk	2018/04/03
Joel Inkster	2018/04/03
Marissa Loveday	2018/04/03
Mitchell Spence	2018/04/03
Peter Candler	2018/04/03
Randy DesRoches	2018/04/03
Terence Potson	2018/04/03
Tiffany Page	2018/04/03
Tyler Nielson	2018/04/03
Aren Nazari	2018/04/02
Darren Duncan	2018/04/02
Dean Hoey	2018/04/02
Faith Bruyere	2018/04/02
Steve Novak	2018/04/02
Gertrude Littlejohn	2018/03/29
Ross Malley	2018/03/29
Alden Wood	2018/03/28
Brock Kasstan	2018/03/28
Darren Ainsley	2018/03/28
Doug Johnson	2018/03/28
Erika Sheppard	2018/03/28
Jeffrey Robinson	2018/03/28
Jorgen Haney	2018/03/28
Justin Cooper	2018/03/28
Keith Ramsdale	2018/03/28
Marcel Nadeau	2018/03/28
Michael Hanson	2018/03/28
Oscar LaBelle	2018/03/28
Sheldon Jourdain	2018/03/28
Troy Lennon	2018/03/28
Zoe Hynes	2018/03/28
Andrew Shenfield	2018/03/26
Barry Fiebelkorn	2018/03/26
George Giesbrecht	2018/03/26
Gerard Kirk	2018/03/26
Terry Frailick	2018/03/26
Theodore Rud	2018/03/26
Troy Street	2018/03/26
Réal Taylor	2018/03/22
Antonio Fernandez	2018/03/21
Bentley Miller	2018/03/21
Chad James Morningstar	2018/03/21
Joshua Jacob Enns	2018/03/21
Zachary Gerhart Sawdo	2018/03/21
Barry Chabluk	2018/03/19

Buckley Morrison	2018/03/19
Glen Gagnon	2018/03/19
James Wark	2018/03/19
Michael Sobkowicz	2018/03/19
Richard Glena	2018/03/19
Steven Perrault	2018/03/19
Troy Holmes	2018/03/19
Brent Carruthers	2018/03/16
Clarise Allard	2018/03/16
Landon Mariouw	2018/03/16
Russell Vincent	2018/03/16
Chris Anderson	2018/03/14
David Alexis	2018/03/14
Derek Yuill	2018/03/14
Dylan Lee	2018/03/14
Jason Schram	2018/03/14
John Hand	2018/03/14
Jordan Malcolm	2018/03/14
Kenneth Kakeeway	2018/03/14
Matthew Smallwood	2018/03/14
Michael Bone	2018/03/14
Mike Johnson	2018/03/14
Nicholas Lajeunesse	2018/03/13
Robert Ross Steele	2018/03/13
Cameron Yerxa	2018/03/12
Justin Harper	2018/03/12
Matthew Soldier	2018/03/12
Vivian Margret Beehan	2018/03/09
Curtis Devlin	2018/03/08
Calvin Krahn	2018/03/07
Eugene Tolmay	2018/03/07
Harold Gibson	2018/03/07
Mark Davis	2018/03/07
Misty Kelly	2018/03/07
Scott Gobeil	2018/03/07
Travis Weir	2018/03/07
Austin Chambers	2018/03/05
Carl Carlson	2018/03/05
Christopher Schram	2018/03/05
Craig Will	2018/03/05
Daniel Mosher	2018/03/05
Dave Muir	2018/03/05
Derek Frederick	2018/03/05
Don Kruse	2018/03/05
Gary Zurkan	2018/03/05
Glenn Simpson	2018/03/05
Gordon Shine	2018/03/05
James Dionne	2018/03/05
James Kempton	2018/03/05
Jamie Townsend	2018/03/05
Jason Giebeler	2018/03/05
Jeffrey Simpson	2018/03/05

Jerimy Erickson	2018/03/05
Jesse de Montigny	2018/03/05
Joe Hopkins	2018/03/05
Jonathon Abraham	2018/03/05
Justin Bishop	2018/03/05
Larry Ogden	2018/03/05
Leon Kelly	2018/03/05
Lyle Steele	2018/03/05
Marcel Jean	2018/03/05
Mathew McLeod	2018/03/05
Matthew Halanen	2018/03/05
Matthew Henry	2018/03/05
Matthew Warren	2018/03/05
Michael Lusk	2018/03/05
Mike Adey	2018/03/05
Mike Montgomery	2018/03/05
Neil Gavel	2018/03/05
Nelson Fontaine	2018/03/05
Patrick Arsenault	2018/03/05
Pete Makarchuk	2018/03/05
Raymond Anderson	2018/03/05
Richard Beaucage	2018/03/05
Richard Fenez	2018/03/05
Robert Kuusela	2018/03/05
Robert Patridge	2018/03/05
Robert Stevenson	2018/03/05
Roch Belanger	2018/03/05
Simon Marcoux	2018/03/05
Spencer Belanger	2018/03/05
Steve Pederson	2018/03/05
Steven Johnson	2018/03/05
Thomas Pritchard	2018/03/05
Travis Gibson	2018/03/05
Trevor Mitchell	2018/03/05
Tyler Byers	2018/03/05
William Younger	2018/03/05
Cameron Noy	2018/03/03
New user	2018/03/03
Jordan Hanninen	2018/03/02
Lawrence Kwak	2018/03/02
Alex Rummel	2018/02/28
Andy Cameron	2018/02/28
Dalton Seversen	2018/02/28
Darren Angus	2018/02/28
Jamie Northcott	2018/02/28
Keith McCracken	2018/02/28
Lori Ottoson	2018/02/28
Trevor Moyer	2018/02/28
Austin Wray	2018/02/26
Brendan Nordberg	2018/02/26
Brodie McGowan	2018/02/26
Jason Flinders	2018/02/26

Reese Kieftenbeld	2018/02/26
Ryan King	2018/02/26
Tylor Serool	2018/02/26
William Ross	2018/02/26
Brian Henry Smith	2018/02/23
Kevin Andrew Nielsen	2018/02/23
Visitor 003	2018/02/22
Visitor 005	2018/02/22
Visitor 013	2018/02/22
Visitor 016	2018/02/22
Visitor 018	2018/02/22
Visitor 020	2018/02/22
Visitor 022	2018/02/22
Visitor 025	2018/02/22
Weixi Liu	2018/02/22
Aaron Vivian	2018/02/21
Andrew Patterson	2018/02/21
Carla Jack	2018/02/21
Daniel Sinclair	2018/02/21
Doug Bailey	2018/02/21
Doug Newfeld	2018/02/21
George Saunders	2018/02/21
Jean-Paul Petel	2018/02/21
Kurtis Golka	2018/02/21
Marilyn Faragher	2018/02/21
Marvin Fernstrum	2018/02/21
Michael Stromberg	2018/02/21
Stuart Crabbe	2018/02/21
Todd Durand	2018/02/21
Joshua Charbonneau	2018/02/17
Alan Craig	2018/02/16
Dominic Lachance	2018/02/16
Gary Silander	2018/02/16
Jason Mattson	2018/02/16
Kevin Crocker	2018/02/16
Michael Dodge	2018/02/16
Shayne Kehl	2018/02/16
Travis Pastachak	2018/02/16
Andrew Leslie	2018/02/15
Oleg Polyau	2018/02/15
Patrick Stubbs	2018/02/15
Aurel Grandbois	2018/02/14
Daris Cowieson	2018/02/14
Gerald Elliott	2018/02/14
Lynne Brazeau	2018/02/14
Achton Favreau	2018/02/12
Brent McFarlane	2018/02/12
Gavin Paull	2018/02/12
Gregg Kozie	2018/02/12
Jamie Jorgesen	2018/02/12
Ron Hughes	2018/02/12
Timothy Duncan	2018/02/12

Trevor Judson	2018/02/12
Adam Castle	2018/02/07
Brendon Fawcett	2018/02/07
Darren Chobotar	2018/02/07
Eric Yakubicka	2018/02/07
Harvey Bunting	2018/02/07
Henri LaChance	2018/02/07
Jessica Dark	2018/02/07
Kim Chalifoux	2018/02/07
Kimley Gray	2018/02/07
Lee Gall	2018/02/07
Peter MacLaren	2018/02/07
Roy Smith	2018/02/07
Samuel Neatby	2018/02/07
Samuel Paypompee	2018/02/07
Sean Henley	2018/02/07
Thomas Mills	2018/02/07
Derek Grandbois	2018/02/05
Duane Aiton	2018/02/05
Gary Brown	2018/02/05
Gilles Sarrazin	2018/02/05
Jamie Kerr	2018/02/05
Jian Feng Wang	2018/02/05
Leonard Smith	2018/02/05
Reece Manulak	2018/02/05
Taiseer Elsabawy	2018/02/05
Todd Alcock	2018/02/05
Brandon Siclair	2018/02/03
Kris Nagy	2018/02/03
Jordan Balzar	2018/02/02
Gillian Allen	2018/01/31
Jeffrey Loeb	2018/01/31
Jeramy Bell	2018/01/31
Matthew Chochla	2018/01/31
Michael Cole	2018/01/31
Perry Miller	2018/01/31
Robert Perchuk	2018/01/31
Timo Kirchner	2018/01/31
William Johnson	2018/01/31
Brad Gabrielli	2018/01/29
Chandler Pearson	2018/01/29
Daniel Lambert	2018/01/29
Eric Pedwell	2018/01/29
Joey Morin	2018/01/29
Michael Jelencic	2018/01/29
Mikhail Rachalovskiy	2018/01/29
Rolando Rongcal	2018/01/29
Thomas Morrisseau	2018/01/29
William Krag	2018/01/29
Connor McAmmond	2018/01/24
Cory Burnett	2018/01/24
Dane Blais	2018/01/24

David Hempel	2018/01/24
Eric Judd	2018/01/24
Leslie Semmler	2018/01/24
Nick Lajoie	2018/01/24
Stephen Starkes	2018/01/24
Jose Lescano	2018/01/22
Nicholas Leininger	2018/01/22
Dustin Duguay	2018/01/20
Chris Pollard	2018/01/19
Donald Zaparniuk	2018/01/18
Joe Hainrich	2018/01/18
Cory Moberg	2018/01/17
Curtis Carl	2018/01/17
Eldon Krebs	2018/01/17
Eric O'Neill	2018/01/17
Fabian Copeland	2018/01/17
Francois Lansard	2018/01/17
Henry Sprong	2018/01/17
Jesse Twidale	2018/01/17
Mark Sawdo	2018/01/17
Ramie Fissel	2018/01/17
Aaron Cvar	2018/01/15
Andrew Morsette	2018/01/15
Ian Bates	2018/01/15
James Austin McVeigh	2018/01/15
Jeremy Asselin	2018/01/15
Josh McMahon	2018/01/15
Nicholas Kawula	2018/01/15
Richard Carlson	2018/01/15
Richard Ronmark	2018/01/15
Ronald Chapman	2018/01/15
Bradley Eric Kowalchuk	2018/01/12
Bradley Kowalchuk	2018/01/12
David Bowbell	2018/01/10
Dustin Tkachyk	2018/01/10
Ernest Holowachuk	2018/01/10
James Caul	2018/01/10
Jason Coghlan	2018/01/10
Kayla Morrison	2018/01/10
Michael Deforge	2018/01/10
Richard Lemire	2018/01/10
Timothy Friesen	2018/01/10
Wesley Caul	2018/01/10
Tammy-Lynn Kozakevich	2018/01/09
Andrea Ogden	2018/01/08
Austin Bour	2018/01/08
Christopher Roberts	2018/01/08
Guy Chretien	2018/01/08
Jeffrey Haggerty	2018/01/08
Keith Bousquet	2018/01/08
Matthew Rantala	2018/01/08
Michael McDuffee	2018/01/08

Perry French	2018/01/08
Robert Lopatka	2018/01/08
Stephen Kpabitey	2018/01/08
Tyrone Maunu	2018/01/08
Bonnie Penny	2018/01/05
Eamonn Goggin	2018/01/05
Erick Redlan	2018/01/05
Glen Bateman	2018/01/05
New user	2018/01/05
Paul Belair	2018/01/05
Steven Fry	2018/01/05
Ernesto Caner	2018/01/03
Jake McCafferty	2018/01/03
Jeremy Johnston	2018/01/03
Lawrence Buttner	2018/01/03
Marcello Locatelli	2018/01/03
Quentin Bellerose	2018/01/03
Sylvie St-Jean	2018/01/03
Tommaso Raponi	2018/01/03
Ward Howardson	2018/01/03
Leslie Abraham	2018/01/02

Name	New Gold Staff Position	Date of Orientation
Abraham Randall	Heavy Duty Mechanic	01/02/2018
French Perry	Mine Geologist	01/02/2018
Kpabitey Stephen	Drill and Blast Engineer	01/02/2018
Krueger Michael	Warehouse Supervisor	01/02/2018
McCafferty Jake	Electrician	01/02/2018
St-Jean Sylvie	Environmental Manager	01/03/2018
Fry Steven	Electrician	01/04/2018
Gebert Anthony	Senior Modelling Anyalyst	01/08/2018
Ogden Andrea	Mill Operator	01/08/2018
Caul Wesley	Surface Miner	01/09/2018
Deforge Michael	Surface Miner	01/09/2018
Dobransky Paul	Surface Miner Utility	01/09/2018
Friesen Timothy	Business Development Officer	01/09/2018
McMahon Joshua	Electrician	01/09/2018
St.Arnaud DeMarillac	Business Improvement Specialist	01/09/2018
Tkachyk Dustin	Mobile Maintenance Welder	01/09/2018
Vandenbrand Jack	Coach Operator	01/09/2018
Siemens Jack	Coach Operator	01/15/2018
Sawdo Mark	Heavy Duty Mechanic	01/16/2018
Hampel David	Open Pit Mine Superintendant	01/22/2018
Lescano Diaz Jose	Maintenance Planner Fixed Plant	01/22/2018
Boven Harrold	Coach Operator	01/23/2018
McAmmond Conner	Surface Miner Utility	01/23/2018
Mainville Andrew	Maintenance General Labourer	01/24/2018
Jelencic Michael	Mill Operator Utility	01/29/2018
Krag William	Mill Operator	01/29/2018
Morrisseau Thomas	Mill Operator	01/29/2018
Chochla Matthew	Mobile Maintenance Welder	01/31/2018
Gobeil Scott	Coach Operator	01/31/2018
Kerr Jamie	Maintenance Superintendent	02/05/2018
Sarrazin Gilles	Chief Surveyor	02/05/2018
Cheetham Matthew	Maintenance General Labourer	02/06/2018
Jewell Jordin	Maintenance General Labourer	02/06/2018
Durand Todd	Mill Superintendent	02/20/2018
Nordberg Brendan	Electrician	02/26/2018
Angus Darren	Heavy Duty Mechanic	02/27/2018
McCracken Keith	Heavy Duty Mechanic	02/27/2018
Mosbeck Kari	Cleaner	02/27/2018
Moyer Trevor	Geological Labourer	02/27/2018
Rummel Alex	Geological Labourer	02/27/2018
Davis Mark	Underground Mine Captain	03/05/2018
De Montigny Jesse	Mill Operator - Temp	03/05/2018
Gibson Harold	Truck and Coach Mechanic	03/06/2018
Krahn Calvin	Surface Miner	03/06/2018
Steele Robert	Geological Labourer	03/06/2018

Tolmay Eugene	Heavy Duty Mechanic	03/06/2018
Weir Travis	Millwright	03/06/2018
Beehan Derek	Project Manager	03/08/2018
Beehan Vivian	Mill & Commissioning Manager	03/08/2018
Anderson Christopher	Mill Labourer	03/12/2018
Bone Michael	Mill Labourer	03/12/2018
Malcolm Jordan	Mill Labourer	03/12/2018
Johnson Michael	Maintenance General Labourer	03/13/2018
Lee Dylan	Heavy Duty Mechanic	03/13/2018
Enns Joshua	Maintenance General Labourer	03/20/2018
Fernandez Antonio	Maintenance General Labourer	03/20/2018
Miller Bentley	Maintanence General Labourer	03/20/2018
Sawdo Zachary	Maintenance General Labourer	03/20/2018
Taylor Real	Maintanence General Labourer	03/20/2018
Sheppard Erika	Finance Aboriginal Trainee	03/26/2018
Haney-Slusarchuk Jorgen	Surface Miner Utility	03/27/2018
Hynes Zoe	Construction Miner	03/27/2018
Jourdain Sheldon	Surface Miner	03/27/2018
La Belle Oscar	Construction Miner	03/27/2018
Lennon Troy	Surface Miner	03/27/2018
Littlejohn Gertrude	Equipment Operator Temporary TMA	03/27/2018
Nadeau Marcel	Surface Miner	03/27/2018
Yen Chia-Fei	Senior Business Analyst	04/02/2018
Candler Peter	Construction Miner	04/03/2018
Caouette Jamie	Surface Miner	04/03/2018
Csuzdi Jesse	Surface Miner	04/03/2018
Des Roches Randy	Millwright	04/03/2018
Inkster Joel	Surface Miner	04/03/2018
Loveday Marissa	Equipment Operator Temporary TMA	04/03/2018
Potson Terry	Equipment Operator Temporary TMA	04/03/2018
Spence Mitchell	Mill Operator	04/03/2018
Beaulieu Raymon	Geological Labourer	04/09/2018
Blattner James	Surface Miner Utility	04/09/2018
Brown Trevor	Mill Labourer	04/09/2018
Brun Harold	Surface Miner	04/09/2018
Fui Edwin	Surface Miner Utility	04/09/2018
George Travis	Water Treatment Operator	04/09/2018
Mychasiw Allan	Surface Miner	04/09/2018
Paypompee Jesse	Surface Miner	04/09/2018
Ridge Zachary	Geological Labourer	04/09/2018
Sharp Chelsey	Surface Miner	04/09/2018
Smith Mylo	Mill Labourer	04/09/2018
O'Brien David	Mill Shift Supervisor	04/10/2018
Angus Jaxon	Surface Miner Utility	04/16/2018
Angus Wayne	Surface Miner	04/16/2018
Arvelin Keith	Mill Labourer	04/16/2018
Blackjack Travis	Surface Miner Utility	04/16/2018

Chaval Craig	Surface Miner	04/16/2018
Court Donnalee	Accounts Payable Officer	04/16/2018
Cousineau Joshua	Surface Miner	04/16/2018
Esselink John	Millwright	04/16/2018
Gouin Josh	Surface Miner Utility	04/16/2018
Loyie Shane	Mill Labourer	04/16/2018
Minier Alain	Assay Lab Technician	04/24/2018
Wiebe Tearyn	Assay Lab Technician	04/24/2018
Beaudrow Johnny	Heavy Duty Mechanic	05/07/2018
Bodnar Joseph	Millwright	05/07/2018
Cridland Caron	Environmental Admin Coordinator	05/07/2018
Gwirah Ebenezer	Prep Lab Technician	05/07/2018
Neilson Geoff	Surface Miner Driller	05/07/2018
Steiner Ryan	Surface Miner Utility	05/07/2018
Boshey Stacey	Surface Miner	05/14/2018
Caul Doug	Surface Miner	05/14/2018
Grynol Robin	Mill Operator	05/14/2018
Halverson Jacob	Mill Labourer	05/14/2018
Kelly Lawrence	Surface Miner	05/14/2018
Khorbaladze Irakli	Mill Operator Refinery	05/14/2018
Leonard James	Mill Labourer	05/14/2018
McEvoy Cheryl	HR Training Admin Coordinator	05/14/2018
Pangman Timithy	Maintenance General Labourer	05/14/2018
Pinder Randall	Surface Miner	05/14/2018
Sexton Lloyd	Senior Business Analyst	05/14/2018
Da Silva Fabricio	Geotechnical Engineer	05/18/2018
Griswold Ryan	Mine Engineer In Training	06/04/2018
Albright William	Lead Hand	06/11/2018
Bruce Sean	Electrician	06/11/2018
Desserre Luc	Surface Miner	06/11/2018
Handorgan Robert	Casual Assay Lab Technician	06/11/2018
Kerr Garth	Mill Trainer	06/11/2018
Loveday Christine	Surface Miner	06/11/2018
Pennell Glenn	Mill Shift Supervisor	06/11/2018
Pucci Alexander	GIS Summer Student	06/11/2018
Routhier Jordan	Welder Journeyman	06/11/2018
Sigurdson Roy	Labourer	06/11/2018
Vaillant Nathan	Heavy Duty Mechanic	06/11/2018
Dunahee Tyler	Surface Miner	06/18/2018
Dusener Dana	Undergound Surveyor	06/18/2018
Gervais Marie-Louise	Surface Miner	06/18/2018
Salmen Robert	Millwright	06/18/2018
Anderson Rudy	Pipefitter Journeyman	06/19/2018
Ogden Matthew	Mill Operator	06/26/2018
Cochrane Cassandra	Temp Community Coordinator	07/03/2018
Colby Cody	Mill Operator	07/09/2018
Eshane Gaofenngwe	Metallurgist Technician	07/09/2018

Prentice Daniel	Millwright	07/09/2018
Albert Patricia	Mill Labourer	07/16/2018
Dill James	Surface Miner Lead Hand	07/18/2018
Johnston Ashley	Surface Miner	07/25/2018
Bodnar Darryl	Surface Miner	08/13/2018
Gardner Troy	Surface Miner	08/13/2018
Goodwin William	Mill Labourer	08/13/2018
Letandre Aaron	Mill Labourer	08/13/2018
Ottertail Phillip	Mill Labourer	08/13/2018
Pollard Shawn	Utility Operator	08/13/2018
Van Ael Arthur	Mill Labourer	08/13/2018
Visser Paul	Utility Operator	08/13/2018
Whitecrow Justin	Mill Labourer	08/13/2018
Wilson Matthew	Environmental Specialist	08/13/2018
Smith Joelle	Surface Miner	08/21/2018
Emms Donald	Mill Trainer	09/04/2018
Ahrens Scott	Power Engineer	09/10/2018
Dolph Gerry	Surface Miner	09/10/2018
Dubnick Lucie	Senior Accountant	09/10/2018
Dubois Michael	Surface Miner	09/10/2018
Galusha Dwight	Surface Miner	09/10/2018
Gushulak Amy	Accounts Payable Officer	09/10/2018
Hunsperger Kelsea	Environmental Specialist	09/10/2018
Manty Kenneth	Casual Assay Lab Technician	09/10/2018
McQuaker Bret	Surface Miner	09/10/2018
Pearson Curt	Surface Miner	09/10/2018
Pitkanen Dave	Surface Miner	09/10/2018
Sinclair Erik	Millwright	09/10/2018
Singh Kailey	Surface Miner	09/10/2018
Szyszka Jonathan	Surface Miner	09/10/2018
Anderson Dylan	Surface Miner	09/17/2018
Hockley Devon	Surface Miner	09/17/2018
Lance Darwin	Surface Miner	09/17/2018
Pylypenko Oleksandra	Surface Miner	09/17/2018
Whalen William	Surface Miner	09/17/2018
Anderson Brennen	Assay Lab Technician	09/24/2018
Blackhawk Jessie Anne	Surface Miner	09/24/2018
Clifford Victoria	Surface Miner	09/24/2018
Hennessey Charles	General Manager	09/24/2018
Laco John	Surface Miner	09/24/2018
Lyons Deanne	Surface Miner	09/24/2018
Siemens Ashley	Surface Miner	09/24/2018
Venables Anthony	Surface Miner	09/24/2018
Venerus Tyler	Surface Miner	09/24/2018
Friday Espirit	Finance Aboriginal Trainee	10/01/2018
Loveday Jamie	Surface Miner	10/09/2018
Loveday Marcella	Surface Miner	10/09/2018

Manchester Trevor	Surface Miner	10/09/2018
Mantas Nicholas	Metallurgist	10/09/2018
Monkman Corey	Electrician	10/09/2018
Morrison Paul	Pipe Fitter	10/09/2018
Nordberg Kevin	Electrician	10/09/2018
Rousseau Anne Marie	Temp Community Coordinator	10/09/2018
Smith Gavin	Surface Miner Driller	10/09/2018
Stanley Sydney	Warehouse Technician	10/09/2018
Van Troyen Jonathan	Labourer	10/09/2018
Allen Roger	Geological Labourer	10/13/2018
Baldwin Jason	Surface Miner	10/15/2018
Friesen Bethany	Surface Miner	10/15/2018
Lundgren Dalton	Surface Miner	10/15/2018
Matheson Donald	Warehouse Technician	10/15/2018
Minott Donald	Millwright	10/15/2018
Morton Fredrick	Heavy Duty Mechanic	10/15/2018
Mosley Lee	Surface Miner	10/15/2018
Noseworthy Cody	Surface Miner	10/15/2018
Price Robert	Pipefitter Journeyman	10/15/2018
Mafuta Kasonga	Undergound Project Engineer	10/22/2018
Michaelis Derick	Mill Operator	10/22/2018
Mercier Jean-Francois	ERT/Security Supervisor	10/23/2018
Grolway Nicholos	Crane Operator	10/29/2018
Gregor Wayne	Geological Labourer	11/02/2018
Peckham Shayne	Millwright	11/13/2018
Sampson Brendan	Millwright	11/13/2018
Ahrens Sean	Electrician	11/19/2018
Gregoire Russell	Surface Miner	11/19/2018
Janik Sabina	Mine Site Controller	11/19/2018
Mueller Roxanne	Mill Operator	11/19/2018
Tucker Raymond	Construction Miner	11/19/2018
Grolway Nicholos	Crane Operator	11/21/2018
Richard Mark	Construction Superintendent	11/21/2018
Benoit Gilles	Mine Construction Operator - Temporary	11/26/2018
Maxton Rebekah	Surface Miner	11/26/2018
Perrault Rickey	Surface Miner	11/26/2018
Branscombe George	Construction Superintendent	11/28/2018
Mueller Norman	Mine Construction Operator - Temporary	12/04/2018
Vickell Gregg	Senior Production Metallurgist - Temp	12/04/2018
Aho Stephen	Construction Miner	12/10/2018
Jewett David	Surface Miner	12/10/2018
Lucas Raymond	Logistics Driver - Temp	12/10/2018
Palmer Luke	Welder Journeyman	12/10/2018
Taylor Dylan	Surface Miner	12/10/2018
Aouatefi Rachid	Mill Labourer	12/17/2018
Biasiol Ryan	Mill Labourer	12/17/2018
Councillor Ronald	Mill Labourer	12/17/2018

Judson Houston	Utility Operator	12/17/2018
Kelly Sean	Surface Miner	12/17/2018
Martin Michael	Construction Miner	12/17/2018
Shine Gordon	Utility Operator	12/17/2018
Spinks Mykel	Mill Shift Supervisor	12/17/2018
States Trevor	Utility Operator	12/17/2018
Vester Dillon	Mill Labourer	12/17/2018