
2022 Annual Wildlife Management and Monitoring Plan Report

Pine Point Mining Limited
MV20200017 and MV2020L8-0012
Pine Point District, NT

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Rev 0

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1 INTRODUCTION

Pine Point Mining Limited (PPML) holds mineral leases and claims, located approximately 180 km south of Yellowknife, NT, near the south shore of Great Slave Lake (Figure 1). These mineral dispositions comprise the Pine Point Project (Project).

The Project includes 124 mineral leases and 22 mineral claims held by Pine Point Mining Limited (PPML), a 100% owned subsidiary of Osisko Metals Incorporated (Figure 2). As of the effective date of this report, the leases and claims are in good standing. The Project is located between 114° and 115° 15' West longitude and 61° 0' and 61° 45' North latitude, within the Mackenzie Mining Division of the Northwest Territories (NT) of Canada. The western boundary of the Project is located 42 km east of the town of Hay River and approximately 10 km south of the Great Slave Lake. The Property lies about 60 m above the lake level, at an elevation of 156 m above sea level.

The Project is an exploration and development project located partly on a previously disturbed former mine site. Cominco Ltd. operated the Pine Point Mine and produced approximately 64 million tonnes of material from 50 open pits and two underground locations between 1964 and 1988. The Project area includes historical open pits, waste rock stockpiles, a tailings management facility, city water ponds, historically impacted areas, including the plant site, haulage and service roads, the footprint of the former townsite of Pine Point and an airstrip.

New authorizations were issued on November 2, 2021, for a Land Use Permit (MV2020C0017) and on December 8, 2021, for a Type A Water Licence (MV2020L8-0012).

The Minister of Environment and Natural Resources determined, based on information provided with the Confirmation and Exploration Program Type A Water Licence Application, discussions at the MVLWB's Technical Session held February 24-25, 2021, PPML's responses to information requests and the Memorandum submitted to ENR by PPML on March 19, 2021, that, in accordance with the Wildlife Act, Section 3.1.1 of the Wildlife Process and Content Guidelines, the Project will require a Wildlife Management and Monitoring Plan.

GNWT-ENR informed PPML that the Wildlife Management and Monitoring Plan V2.1 (WMMP) was approved with five conditions. PPML submitted V2.2 addressing the five conditions which was approved on July 12, 2022.

PPML occupied a field camp located on a previously disturbed site at 60°51'32.50" N - 114°27'50.56" W in the Pine Point area.

Please see Table 1 below.

Table 1 Report Conformance Table

WMMP Reporting Requirement	See Section
Records of all surveys completed and wildlife observed.	2.3.1
Occurrences of human-wildlife interactions, and incidents, accidents, injuries, or mortalities involving wildlife.	2.3.2
A summary of the number of times that caribou collar locations overlapped with cautionary zones and how often additional mitigation measures were triggered.	2.3.3
Records of disturbances to wildlife habitat that were not predicted.	2.3.4

WMMP Reporting Requirement	See Section
Observations of recreational and traditional or non-traditional harvesting activities near the Project.	2.3.5
Record (including date, location coordinates and brief description) of all drill locations, sumps, access trails where clearing was required, drill pads where clearing was required.	2.3.6, Appendix 1
A discussion of the effectiveness of the mitigation outlined in the Wildlife Management and Monitoring Plan.	2.3.7
A review of mitigation listed in the Wildlife Management and Monitoring Plan will be undertaken annually during the Project construction and operation to document instances of adaptive management and the success of mitigation. The mitigation review will investigate the following: <ul style="list-style-type: none"> • Is all mitigation being implemented? • How successful is the mitigation? • Has new mitigation has been implemented in response to new issues? • Is some mitigation redundant? 	2.3.7
Any updates or recommended changes to the Wildlife Management and Monitoring Plan.	2.3.8

2 ANNUAL REPORT

2.1 SUMMARY OF PROJECT ACTIVITIES

The ongoing program's objective is to conduct exploration activities, upgrade the confidence of the mineral resource estimate to the Indicated Resource category, collect environmental baseline data and to obtain geotechnical and hydrogeological information to support the proposed mine development and Environmental Assessment.

Drilling of 77 holes completed 3,428.5 m of drilling from 17 July 2022 to 3 October 2022 (Appendix I, Drill Collar Locations).

At some sites, access to drilling sites was obtained by the constructing new trails.

2.2 COMMUNITY ENGAGEMENT

During 2022, PPML actively engaged with local Indigenous communities, Elders and Indigenous Knowledge holders to seek their input and insights regarding the Project and potential interactions with the land and areas of cultural significance. PPML also employed Indigenous Knowledge holders and contractors to assist with camp operations, drill site clearing surveys and baseline environmental studies.

Site visits with communities were undertaken from 9 August to 10 August 2022, with the Fort Resolution Metis Government (FRMG) and the Deninu Kųę First Nation (DKFN). Site visits were offered to K'atlodeeche First Nation (KFN); however, due to their active schedule (e.g., addressing the aftermath of flooding in their community in 2022), they could not participate.

DKFN, FRMG, and KFN members participated in the pre-clearing surveys whenever possible before drilling commenced.

2.3 REPORTING

2.3.1 Survey Records and Wildlife Observed

Each clearing survey and the observations of wildlife or sign of wildlife are tabulated in Appendix II Drill Collar Locations.

2.3.2 Human-Wildlife Interactions

One caribou was observed crossing Highway 6 at UTM 639049 6745927 zone 11. Crews were instructed to be vigilant, however, no caribou was sighted again. The sighting took place on 21 September 2022. The nearest drilling activities near the location of the sighting was 25 km to the northwest. There were no incidents, accidents, injuries or mortalities involving wildlife.

2.3.3 Collar Locations with Cautionary Zones

No maps of collar locations were received from ECC/ENR in 2022.

2.3.4 Unpredicted Disturbances to Wildlife Habitat

One area, IP-08 was not predicted when the WMMP was prepared. This area was accessed by helicopter.

2.3.5 Recreational and Traditional or Non-Traditional Harvesting Activities

Harvesting activity was indicated with a leg trap discovered near N204. Enquiries with Mr. Albert Bourque, Regional Environmental Coordinator with ENR. He was not aware of the owner of the trap.

2.3.6 Drilling Activities

The coordinates of the drill holes completed are tabulated in Appendix 1, Drill Collar Locations. Sump locations are located immediately adjacent to the drill hole location.

2.3.7 Mitigation Effectiveness

2.3.7.1 Mitigation Implementation

The mitigation was mostly implemented as planned with Clearing Surveys being undertaken prior to activities in most areas. However, there were instances where mitigation (clearing surveys) were not undertaken during a shift change of the camp manager and due to miscommunication and documentation gaps. The operating procedures have been reviewed and specific documentation is in preparation for the next program to simplify the requirements. PPML will have an individual on site whose primary responsibility will be coordination of environmental responsibilities. All clearing survey records will be forward to the Environment Manager within 24 hours of completing the survey. The absence of weekly caribou reports for 2022 was due to delays in finalizing the communication process and is not expected for future programs.

2.3.7.2 Mitigation Success

Overall, the mitigation was deemed successful. Caribou were not observed incidentally by the crew near the drilling.

2.3.7.3 Mitigation Responses to New Issues

No new issues were identified other than those discussed in Section 2.3.7.1.

2.3.7.4 Redundant Mitigation

None of the mitigation implemented is considered to be redundant.

2.3.8 *Recommendations regarding updates/changes to the WMMP*

Changes to the mitigation include regular transmission of clearing survey results prior and enhancements to the communication of the requirements of the WMMP to the staff in the event of shift changeovers or other staff changes are recommended and will be implemented for the next program.

3 CONCLUDING REMARKS

The 2022 program was completed with no adverse impacts on caribou or other species at risk. Gaps in site procedures related to the mitigations were identified and will be implemented in 2023.

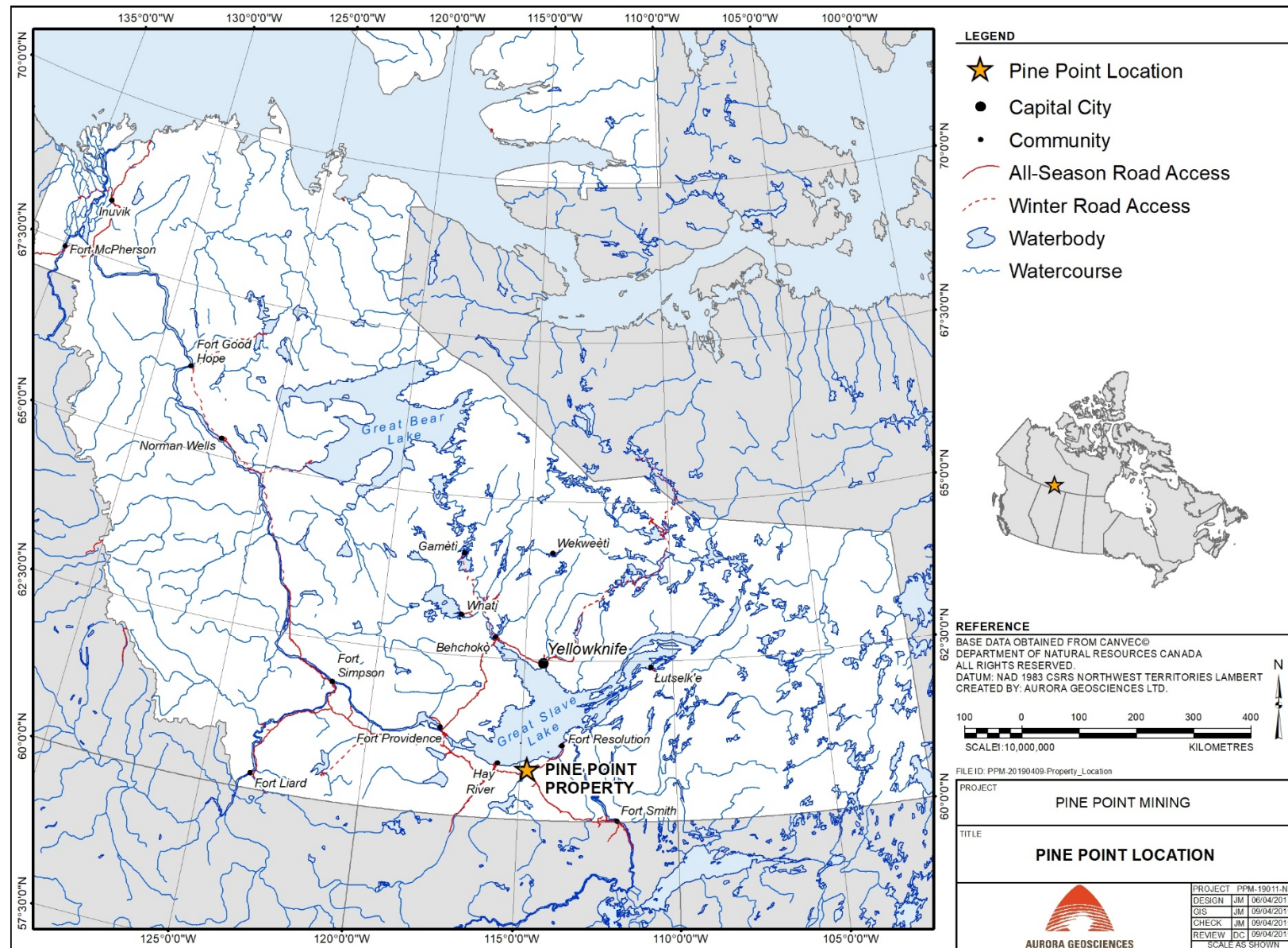


Figure 1 Regional location map

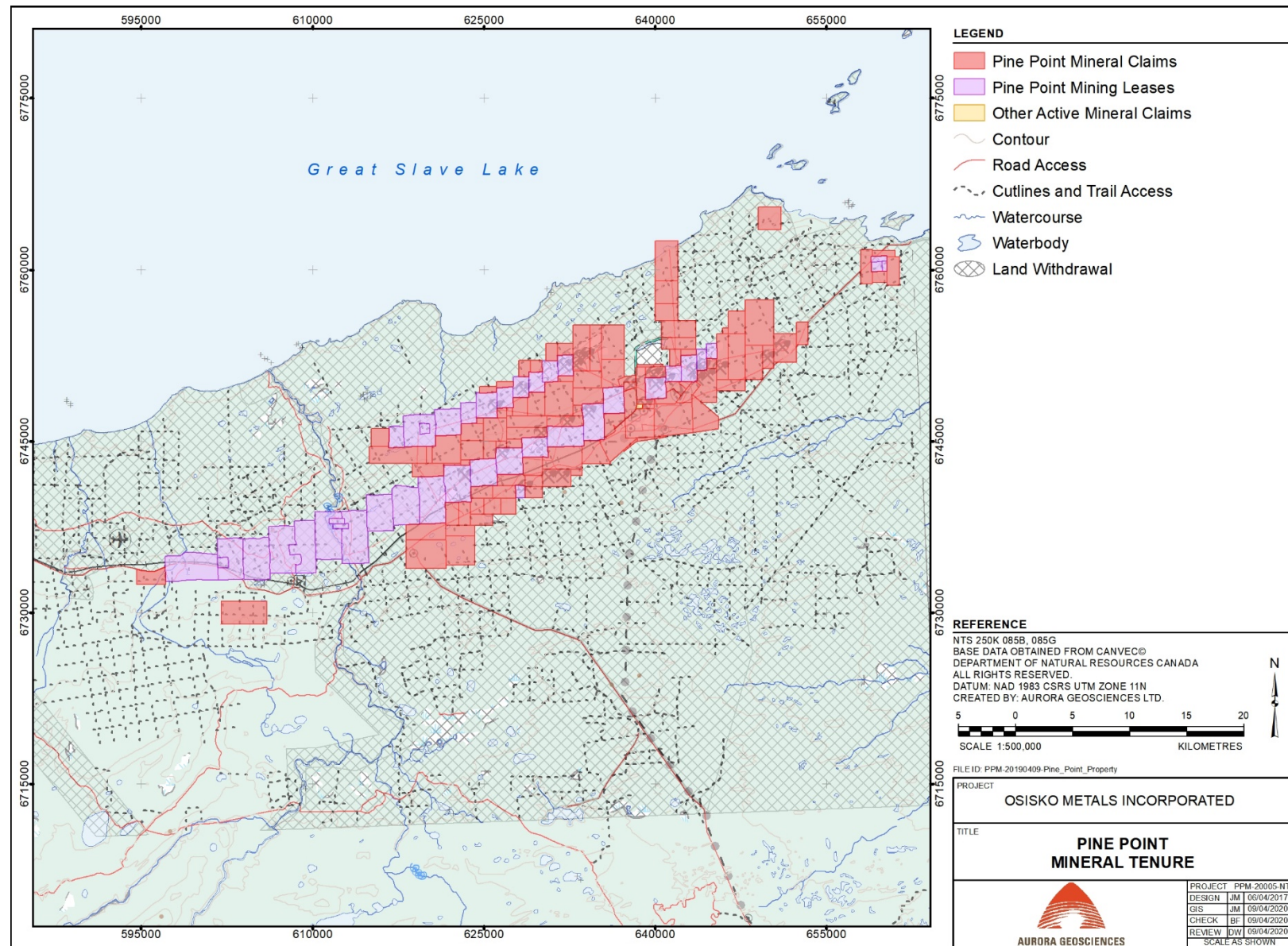


Figure 2 Property overview

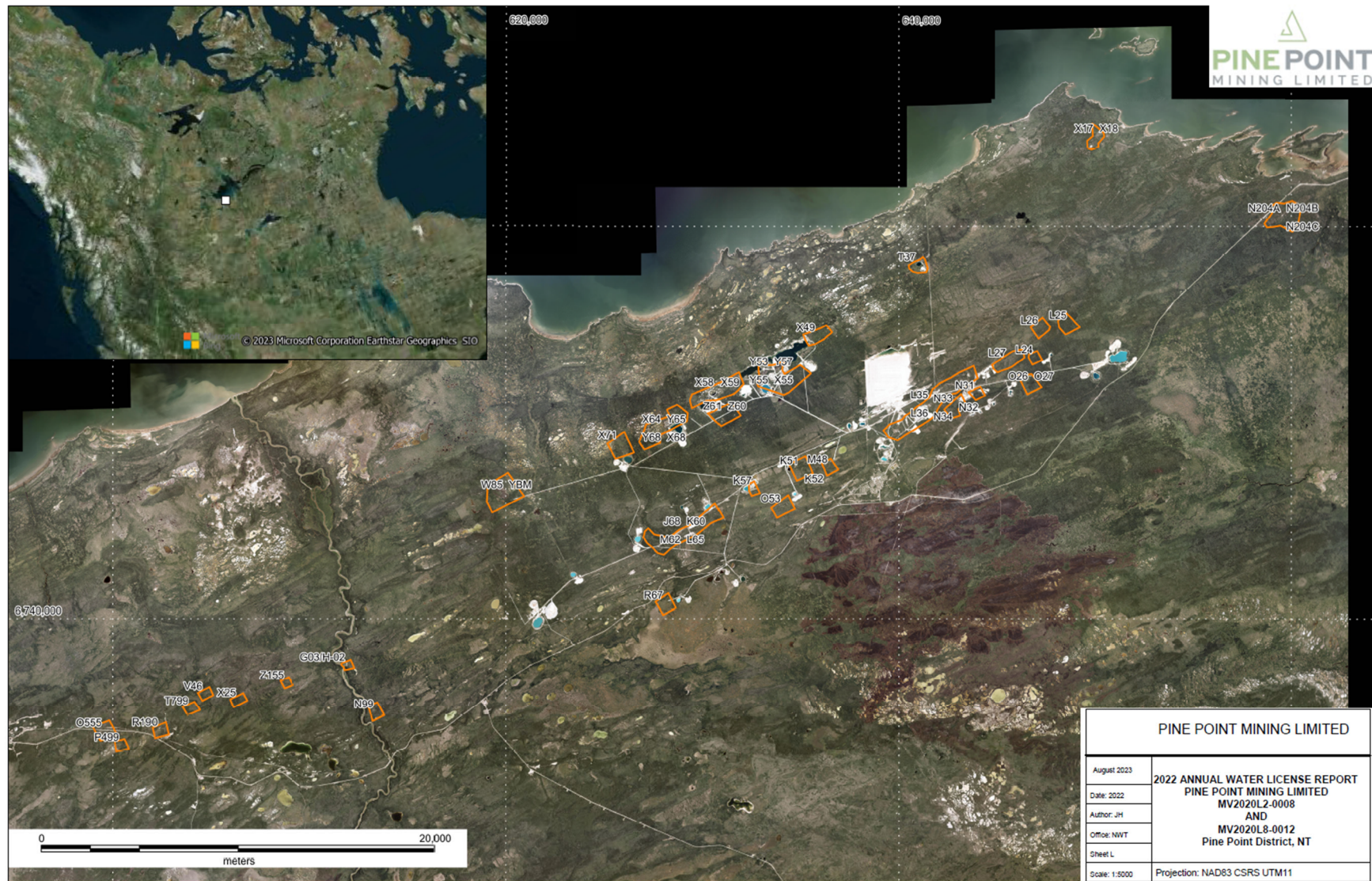
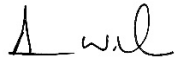


Figure 3 Development Areas

Respectfully submitted,

Pine Point Mining Ltd.

A handwritten signature in black ink, appearing to read 'A. Williams'.

Andrew Williams

Appendix I DRILL COLLAR LOCATIONS

Hole ID	Date Opened	Date Closed	Easting NAD83	Northing NAD83	UTM Zone
N32-22-PP-002	17-07-22	17-07-22	643206.6	6751149.2	11
N32-22-PP-003	17-07-22	17-07-22	643225.2	6751103.6	11
N32-22-PP-001	18-07-22	18-07-22	643126.0	6751246.4	11
N32-22-PP-004	18-07-22	18-07-22	643179.3	6751098.2	11
N33-22-PP-003	19-07-22	19-07-22	642543.9	6750660.0	11
N33-22-PP-004	19-07-22	19-07-22	642869.2	6750481.9	11
N33-22-PP-001	20-07-22	20-07-22	642611.8	6750692.1	11
N33-22-PP-002	20-07-22	20-07-22	642687.7	6750668.6	11
N33-22-PP-005	20-07-22	20-07-22	642813.9	6750454.7	11
N32-22-PP-006	21-07-22	21-07-22	643132.2	6750927.9	11
N32-22-PP-007	21-07-22	21-07-22	643062.5	6750914.4	11
N33-22-PP-006	21-07-22	21-07-22	642852.1	6750438.3	11
N32-22-PP-005	22-07-22	22-07-22	643083.4	6750936.0	11
L27-22-PP-001	23-07-22	23-07-22	644765.5	6752907.5	11
L27-22-PP-002	23-07-22	23-07-22	644806.7	6752896.7	11
L27-22-PP-003	23-07-22	23-07-22	644756.2	6752872.6	11
L27-22-PP-004	23-07-22	23-07-22	644834.3	6752832.2	11
L27-22-PP-005	23-07-22	23-07-22	644822.7	6752804.2	11
M40-22-PP-001	24-07-22	24-07-22	639637.0	6749557.7	11
O53-22-PP-001	25-07-22	25-07-22	633903.8	6745683.6	11
O53-22-PP-002	26-07-22	26-07-22	634243.5	6745668.3	11
O53-22-PP-003	27-07-22	27-07-22	634189.0	6745661.1	11
O53-22-PP-004	28-07-22	28-07-22	634221.9	6745687.4	11
O53-22-PP-005	28-07-22	28-07-22	634214.7	6745669.5	11
Y56-22-PP-002	29-07-22	29-07-22	633839.8	6752135.6	11
Y56-22-PP-003	29-07-22	29-07-22	633761.4	6752119.3	11
Y56-22-PP-004	29-07-22	29-07-22	633859.4	6752110.6	11
O26-22-PP-002	30-07-22	30-07-22	646601.1	6751876.8	11
Y56-22-PP-001	30-07-22	30-07-22	633894.3	6752141.1	11
Y58-22-PP-001	30-07-22	30-07-22	633901.4	6751914.7	11
O26-22-PP-001	31-07-22	31-07-22	646635.6	6751907.5	11
O27-22-PP-007	31-07-22	01-08-22	646581.8	6752129.1	11
O27-22-PP-008	31-07-22	31-07-22	646497.2	6752122.5	11
O27-22-PP-009	31-07-22	31-07-22	646543.7	6752095.2	11
O27-22-PP-001	01-08-22	01-08-22	646542.9	6752227.6	11
O27-22-PP-002	01-08-22	01-08-22	646521.8	6752210.1	11
O27-22-PP-003	01-08-22	01-08-22	646592.7	6752204.5	11
O27-22-PP-004	01-08-22	01-08-22	646541.1	6752192.8	11
O27-22-PP-006	01-08-22	01-08-22	646519.1	6752147.4	11

Hole ID	Date Opened	Date Closed	Easting NAD83	Northing NAD83	UTM Zone
K51-22-PP-001	02-08-22	02-08-22	635165.4	6747899.8	11
O27-22-PP-005	02-08-22	02-08-22	646563.2	6752160.4	11
K51-22-PP-003	03-08-22	03-08-22	635150.1	6747857.3	11
K51-22-PP-008	03-08-22	04-08-22	635113.2	6747884.6	11
K51-22-PP-013	04-08-22	05-08-22	635041.5	6747848.2	11
K51-22-PP-014	04-08-22	04-08-22	635092.5	6747843.3	11
K51-22-PP-007	05-08-22	05-08-22	635024.4	6747888.1	11
K51-22-PP-011	05-08-22	05-08-22	634983.3	6747898.7	11
K51-22-PP-012	06-08-22	06-08-22	635000.2	6747873.2	11
K51-22-PP-010	07-08-22	07-08-22	635011.2	6747919.6	11
K51-22-PP-002	09-08-22	09-08-22	635142.4	6747886.0	11
BO-22-PP-001	05-09-22	08-09-22	627372.0	6750481.9	11
BO-22-PP-002	08-09-22	11-09-22	627371.9	6750482.2	11
IP08-22-PP-001	12-09-22	15-09-22	632817.0	6743647.6	11
IP08-22-PP-002	15-09-22	17-09-22	632817.2	6743647.6	11
N204-22-PP-001	18-09-22	20-09-22	659460.4	6760866.5	11
N204-22-PP-017	20-09-22	21-09-22	659559.5	6760521.3	11
N204-22-PP-016	22-09-22	22-09-22	659533.3	6760539.0	11
N204-22-PP-022	23-09-22	24-09-22	659556.6	6760395.9	11
N204-22-PP-021	24-09-22	25-09-22	659573.3	6760419.3	11
N204-22-PP-023	24-09-22	24-09-22	659548.6	6760279.4	11
N204-22-PP-013	26-09-22	27-09-22	659543.3	6760584.7	11
N204-22-PP-018	26-09-22	27-09-22	659587.7	6760516.1	11
N204-22-PP-019	26-09-22	26-09-22	659549.0	6760478.7	11
N204-22-PP-009	27-09-22	28-09-22	659483.3	6760673.1	11
N204-22-PP-014	27-09-22	27-09-22	659484.3	6760555.0	11
N204-22-PP-015	28-09-22	29-09-22	659625.8	6760553.8	11
N204-22-PP-008	29-09-22	30-09-22	659520.3	6760674.1	11
N204-22-PP-012	29-09-22	29-09-22	659512.4	6760642.4	11
N204-22-PP-004	30-09-22	01-10-22	659411.3	6760838.3	11
N204-22-PP-006	30-09-22	01-10-22	659369.1	6760728.5	11
N204-22-PP-020	30-09-22	30-09-22	659592.0	6760456.7	11
N204-22-PP-003	01-10-22	01-10-22	659538.9	6760843.7	11
N204-22-PP-011	01-10-22	02-10-22	659606.9	6760645.9	11
N204-22-PP-002	02-10-22	03-10-22	659501.3	6760846.3	11
N204-22-PP-007	02-10-22	02-10-22	659625.8	6760684.0	11
N204-22-PP-010	02-10-22	02-10-22	659472.0	6760649.3	11
N204-22-PP-005	03-10-22	03-10-22	659535.0	6760809.2	11

Appendix II SURVEYS COMPLETED AND WILDLIFE OR WILDLIFE SIGNS OBSERVED

Area	Date	Time	Species	Loc_E	Loc_N	Observer	Observation	Habitat	Notes
O26-27	23-Jul-22	11:30	Woodpecker	646570	6752040	Glenn/Teagan	Sound of pecking		
O26-27	24-Jul-22	10:30	Whisky Jacks	646570	6752040	Glenn/Teagan	Bird Call		
O26-27	24-Jul-22	14:00	Moose	646570	6752040	Glenn/Teagan	tracks		
Y56	26-Jul-22	11:00	Moose(?) cow and calf	646570	6752040	Teagan/Glenn	tracks		
Y56	26-Jul-22	15:00	Moose(?)	646570	6752040	Teagan/Glenn	tracks		
Y56	27-Jul-22	11:04	?	633905	6751874	Teagan Laroque	trail		
Y56	27-Jul-22	13:32	Bear	633693	6752543	Teagan Laroque	tracks		in fresh mud
Y56	27-Jul-22	13:32	Bear cub	633693	6752543	Teagan Laroque	tracks		
Y56	27-Jul-22	13:34	Wolf	633693	6752543	Teagan Laroque	tracks		in fresh mud with bear tracks
Y56	27-Jul-22	13:35	Moose	633693	6752543	Teagan Laroque	tracks		
Y56	27-Jul-22	14:00	Moose	634177	6752903	Teagan Laroque	tracks		in mud
Y56	27-Jul-22	14:05	Bear	634221	6752958	Teagan Laroque	scat		
Y56	27-Jul-22	14:05	Moose	634226	6752969	Teagan Laroque	tracks		tracks in lake
Y58	27-Jul-22	10:11	Moose?	633769	6751836	Teagan Laroque	track		on trail to swamp
Y58	27-Jul-22	10:21	Bear	633790	6751844	Teagan Laroque	track		big
Y58	27-Jul-22	10:26	Bear	633793	6751846	Teagan Laroque	trail		along shoreline
Y58	27-Jul-22	10:32	Bear	633860	6751915	Teagan Laroque	scat		
Y58	27-Jul-22	10:34	Bear	633861	6751896	Teagan Laroque	resting area		
Y58	27-Jul-22	10:40	Moose	633855	6751911	Teagan Laroque	scat		
Y58	27-Jul-22	10:50	Wolf	633886	6751914	Teagan Laroque	track		next to drill site
Y58	27-Jul-22	11:10	Bear	633983	6751610	Teagan Laroque	scat		
Y-58	27-Jul-22	8:00	Bear?	633710	6751714	Teagan Laroque	trail		from marsh
Y-58	27-Jul-22	8:30	Bear	631916	6750847	Teagan Laroque	scat		
Y-58	27-Jul-22	8:30	Wolf	633637	6751622	Teagan Laroque	tracks	Dense Forest	
Y-58	27-Jul-22	9:20	Bear	633705	6751754	Teagan Laroque	scat	Dense Forest	
Y-58	27-Jul-22	9:21	Wolf	633746	6751806	Teagan Laroque	scat	Dense Forest	
Y-58	27-Jul-22	9:22	Wolf	633746	6751803	Teagan Laroque	tracks	Dense Forest	

Area	Date	Time	Species	Loc_E	Loc_N	Observer	Observation	Habitat	Notes
Y-58	27-Jul-22	9:40	Moose	633720	6751767	Teagan Laroque	tracks	Dense Forest	
Y-58	27-Jul-22	9:55	Moose	633745	6751762	Teagan Laroque	scat	Dense Forest	
O26-27	28-Jul-22	11:41	Bird	646616	6752017	Teagan Laroque	Nest		Empty (?abandoned)
Y58	28-Jul-22	9:15	Moose	633618	6752744	Teagan Laroque	tracks		2 days old
Y58	28-Jul-22	9:15	Bear	633614	6752739	Teagan Laroque	tracks		2 days old
Y58	28-Jul-22	9:16	Wolf	633613	6752756	Teagan Laroque	tracks		"fresher"
Y58	28-Jul-22	9:28	Moose Cow and Calf	633616	6752805	Teagan Laroque	tracks		mud, fresh
O26-27	30-Jul-22	10:27	Robin	646619	6752446	Timothy Cardinal/Peter Harris	Sighting		
O26-27	30-Jul-22	10:45	Red Squirrel	646619	6752446	Timothy Cardinal/Peter Harris	sighting		midden
O26-27	30-Jul-22	11:35	Grey Jay	646619	6752446	Timothy Cardinal/Peter Harris	sighting		flying
O26-27	30-Jul-22	12:00	Northern Flicker	646619	6752446	Timothy Cardinal/Peter Harris	Bird Call		
O26-27	30-Jul-22	12:17	Spruce Grouse	646619	6752446	Timothy Cardinal/Peter Harris	scat		
K51	04-Aug-22	9:45	Spruce Grouse	635192	6748054	Peter Harris/Frank Berkshire	Bird Call	Spruce, Tamarak, Labrador Teas, Mosses	Wet underfoot, clearings and waterholes
K51	04-Aug-22	9:45	Frog	635192	6748054	Peter Harris/Frank Berkshire	call	Spruce, Tamarak, Labrador Teas, Mosses	Wet underfoot, clearings and waterholes
K51	04-Aug-22	10:00	Northern Flicker	635192	6748054	Peter Harris/Frank Berkshire	Bird Call	Spruce, Tamarak, Labrador Teas, Mosses	Wet underfoot, clearings and waterholes

Area	Date	Time	Species	Loc_E	Loc_N	Observer	Observation	Habitat	Notes
K51	04-Aug-22	10:05	Kinglet Golder Crowned	635192	6748054	Peter Harris/Frank Berkshire	Bird Call	Spruce, Tamarak, Labrador Teas, Mosses	Wet underfoot, clearings and waterholes
K51	04-Aug-22	10:05	Junco	635192	6748054	Peter Harris/Frank Berkshire	Bird Call	Spruce, Tamarak, Labrador Teas, Mosses	Wet underfoot, clearings and waterholes
Borealis	03-Sep-22	13:15	Ducks	626953	6750674	Roger Beck	Sighting	Black Spruce, wetlands, shrubs	12 Ducks in pond
Borealis	03-Sep-22	13:25	Muskrat	627463	6750473	Roger Beck	track	Black Spruce, wetlands, shrubs	near creak in weeds
Borealis	03-Sep-22	13:30	Sandhill Crane	627370	6750427	Roger Beck	track	Black Spruce, wetlands, shrubs	beside pond
Borealis	03-Sep-22	13:35	caribou	627612	6750210	Roger Beck	scat	Black Spruce, wetlands, shrubs	olive shade
Borealis	03-Sep-22	13:39	Sandpiper	627463	6750402	Roger Beck	sighting	Black Spruce, wetlands, shrubs	flying, eating insects
Borealis	04-Sep-22	10:48	squirrel	627314	6750492	Roger Beck	audible	Black Spruce, wetlands, moss, underbrush	
Borealis	04-Sep-22	11:00	Sandhill Crane	627450	6750350	Roger Beck	track	Black Spruce, wetlands, moss, underbrush	
Borealis	08-Sep-22	7:00	No Observations	637716	6749739	Roger Beck	No Observations	Black Spruce, mossy, wetland	
N204	16-Sep-22	10:40	partridge	659474	6760965	Frank Berkshire/Adrian Lupascu	sighting	Open (?) pines, aspen, grasses	flying
N204	16-Sep-22	10:50	squirrel	659633	6760899	Frank Berkshire/Adrian Lupascu	audible	Open (?) pines, aspen, grasses	
N204	16-Sep-22	11:00	partridge	659633	6760899	Frank Berkshire/Adrian Lupascu	sighting	Open (?) pines, aspen, grasses	flying

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