Annual Report 2022
Angilak Property

Inuit Land Use Licence Number: KVL308C09
CIRNAC Land Use Permit Number: N2019C0013
NWB Water Licence Number: 2BE-ANG2227
Nunavut Impact Review Board File Number: 08EN052

Dated: March 31, 2023
Submitted to: KIA, CIRNAC, NIRB, NWB

Table of Contents

Corporate Background and General Information 1
Property Description and Location 1
Work Completed on the property to date 4
2022 Work Completed 5
Spring 5
Ground Geophysical Surveying 5
Reverse Circulation Drilling (RC) 6
Summer 11
Soil Sampling 11
Diamond Drilling 15
Camp Infrastructure & Property Maintenance 17
Community Consultations 20
Nutaaq Camp Construction 20
Temporary Camp Construction 20
Environmental Baseline Monitoring Program 23
Archeology Survey 28
Community Leader Site Visit and Call-in 28
Regulatory Inspections 29
Regulatory Reporting 29
Environmental Considerations 29
Water Consumption 30
Waste Management 31
Spill Reporting and Remediation Conducted 33
Flight Summary 34
Fuel Inventory 35
Nutaaq Camp Historical Fuel Testing 35
Socio-economic impacts and benefits 37
2023 Work Program 38
Airborne Geophysical Surveying 38
Mapping, Prospecting and Sampling 38
Drilling 38

List of Figures

Figure 1: Angilak Property Location 2
Figure 2: Angilak Property Land Tenure..... 3
Figure 3: 2022 Ground magnetometer and VLF-EM survey coverage..... 6
Figure 4: 2022 Spring and Summer Drilling Program Overview 7
Figure 5: 2022 Spring and Summer Drilling at the Dipole Target..... 8
Figure 6: 2022 Spring Drilling at the Yat Target..... 9
Figure 7: 2022 Spring and Summer Drilling at the Jay 4 West 10
Figure 8: 2022 Soil Sampling Program Overview 12
Figure 9: 2022 Lac 50 East Soil Sampling.....13
Figure 10: 2022 Dipole Soil Sampling 14
Figure 11: 2022 drilling at Dipole with a Boyles 17 heli-portable rig with cuttings settling tanks. 16
Figure 12: Nutaaq Camp layout as on September 14, 2022 19
Figure 13, 14 and 15: Photos of the Temporary Camp site as indicated by the dates. 22
Figure 16: Environmental baseline monitoring study area - 2022 25
Figure 17: Example of a permanent, metal staff gauge as installed at station C1.....26
Figure 18: Installation of a fresh dust collecting canister at Dustfall Station DF1 27
Figure 19: Community Leader visit to Nutaaq Camp on August 8, 2022.....29
Figure 20: Nutaaq Camp Waste Berm (10 ft by 14 ft).....33
Figure 21: Nutaaq Camp Fuel Berms, East Side – September 14, 2022 36
Figure 22: Nutaaq Camp Fuel Berms, West Side – September 14, 2022 37
Figure 23: 2023 Exploration Targets 39

List of Tables

Table 1: 2022 Land Use Permits and Licences 4
Table 2: Geophysical Survey and Grid Details 5
Table 3: Soil Sample Summary 11
Table 4: Environmental baseline study stations re-established during Summer 2022.....23
Table 5: Monthly water use summaries for Nutaaq Camp and diamond drills. 30
Table 6: Monthly water use summaries for the Temporary Camp.....31
Table 7: Backhauls during Spring Mobe and Summer 2022: Nutaaq Camp to Baker Lake 31
Table 8: Backhauls during Spring Mobe and Summer 2022: Baker Lake to Yellowknife 32
Table 9: 2022 Incinerator Summary for Nutaaq Camp 32
Table 10: Spring 2022 Incinerator Summary for Temporary Camp.....32
Table 11: Helicopter hours flown per program phase during 2022 34
Table 12: Total fuel consumed and remaining on September 14, 2022.....36

Appendices

Appendix A: 2022 Land Tenure……..……AT END
Appendix B: 2022 RC Drilling: Collar Table and Site Reclamation Photos.……..……AT END
Appendix C: 2022 Soil Sampling Data……..……AT END
Appendix D: 2022 Core Drilling: Collar Table and Site Reclamation Photos……..……AT END
Appendix E: Historic and 2022 Community Consultation Logs……..……..……AT END
Appendix F: Summer 2022 Work completed and results obtained by Ausenco……..……AT END

Appendix G: 2022 Incidental Wildlife Sightings……AT END
Appendix H: Repairs made on Nutaaq Airstrip demarcation fences……AT END
Appendix I: 2022 Water Consumption Logs……AT END
Appendix J: 2022 KBL Environmental Ltd. Invoices……AT END
Appendix K: 2022 Incinerator Logs……AT END
Appendix L: 2022 Spill Reports and Remediation Completed……AT END
Appendix M: 2022 Backhaul Flight Logs……AT END
Appendix N: 2022 List of Contractors Used……AT END

CORPORATE BACKGROUND AND GENERAL INFORMATION

ValOre Metals Corporation (ValOre or the Company) (formerly Kivalliq Energy Corporation) is a Vancouver-based mineral exploration company with Canada's highest-grade uranium resource outside of Saskatchewan's Athabasca Basin. The Company has been operating in Nunavut since 2008. Its flagship project is the Angilak Property (the Property or the Project). On June 28, 2018 Kivalliq Energy Corp. officially changed their name to ValOre Metals Corporation.

The Company was formed to advance the Angilak Property and other opportunities in Nunavut. ValOre Metals Corporation's management has extensive background working in Canada's north and Nunavut. Jim Paterson is the Chief Executive Officer and Chairman of the Company's board of directors; Robert J. Scott is Chief Operating Officer. The group is committed to the social and economic development of the north while maintaining a level of excellence in minimizing environmental impacts. The Company is proud to have been presented in both 2011 and 2012 with the Environmental Excellence Award from the Kivalliq Inuit Association for outstanding environmental stewardship at the Angilak Property.

PROPERTY DESCRIPTION AND LOCATION

The Angilak Property is located 350 kilometres west of Kangiqliniq (Rankin Inlet) and 225 kilometres southwest of Baker Lake in the Kivalliq Region of Nunavut. The Property currently comprises a total area of 67,329.65 hectares and measures approximately 43 kilometres in an east-west direction by approximately 38 kilometres north-south. Due to the implementation of the Nunavut Map Selection (NMS) system on January 30, 2021, a number of adjoining claims were expanded, resulting in overlapping boundaries. A number of these overlapping boundaries were successfully reduced in 2022, however errors in the NMS system prevented the reduction of two claims with overlapping boundaries on the Property. These overlapping units will be reduced in 2023. The total area of the Angilak property was calculated using land area rather than the listed claim area to ensure the reported area of the Angilak property is accurate. The Property is bound between Latitudes 62° 27' and 62° 48' North and Longitudes 98° 21' and 99° 24' West, (North American Datum 1983 (NAD83), Universal Transverse Mercator (UTM) Zone 14 coordinates: 6925000m N and 6960000m N and 486000m E to 527500m E) and is within the 1:50:000 National Topographic (NTS) map sheets 065 J/06, J/07, J/09, J/10, J/11, and J/15. Figure 1 illustrates the Angilak Property Location.

ValOre conducts exploration at the Angilak Property under a Mineral Exploration Agreement (MEA) with Nunavut Tunngavik Inc. (NTI) for Inuit Owned Land (IOL) parcel RI-30 (7,396.65 ha). As part of this partnership, ValOre must meet certain expenditure and corporate commitments to NTI. The Company pays an advanced royalty annually. Upon a production decision at the Angilak Property, NTI can elect to have a 25% participating interest in the Project or collect a 7.5% Net Profits Royalty. The MEA not only applies to IOL RI-30, but also, extends to 55 Crown issued mineral claims (59,735.00 ha) and 1 mining lease (198.00 ha). Figure 2 illustrates the current Angilak Property land tenure.

Land use permits enabling exploration work to be conducted on the Property have been issued, amended and renewed by the Kivalliq Inuit Association (KIA) for parts of the Property covering

IOL and by Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) for Crown Lands. A Nunavut Water Board (NWB) licence authorizes ValOre's water use on the Property. Table 1 lists the active permits and licences issued for exploration activities on the Angilak Property.

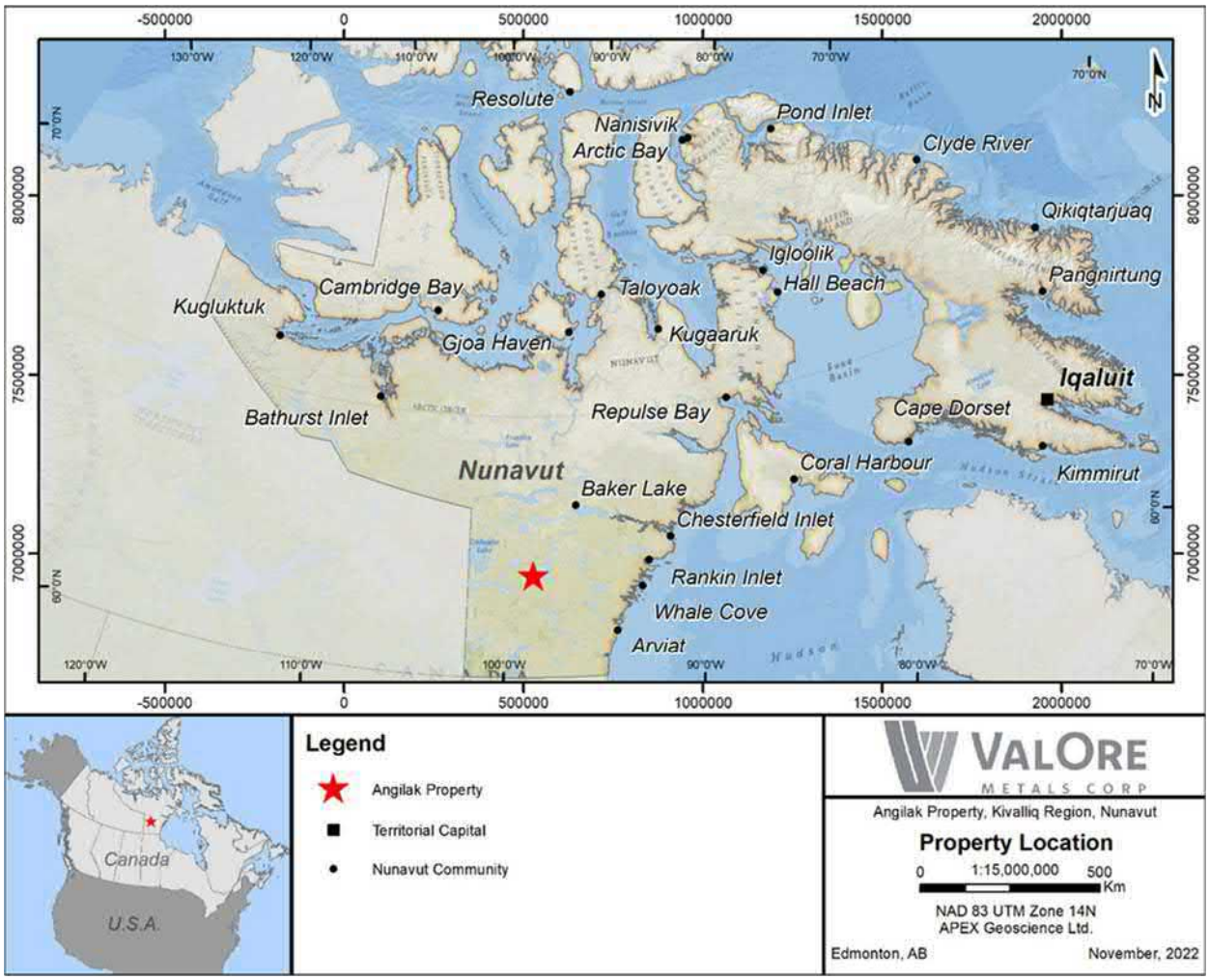


Figure 1: Angilak Property Location

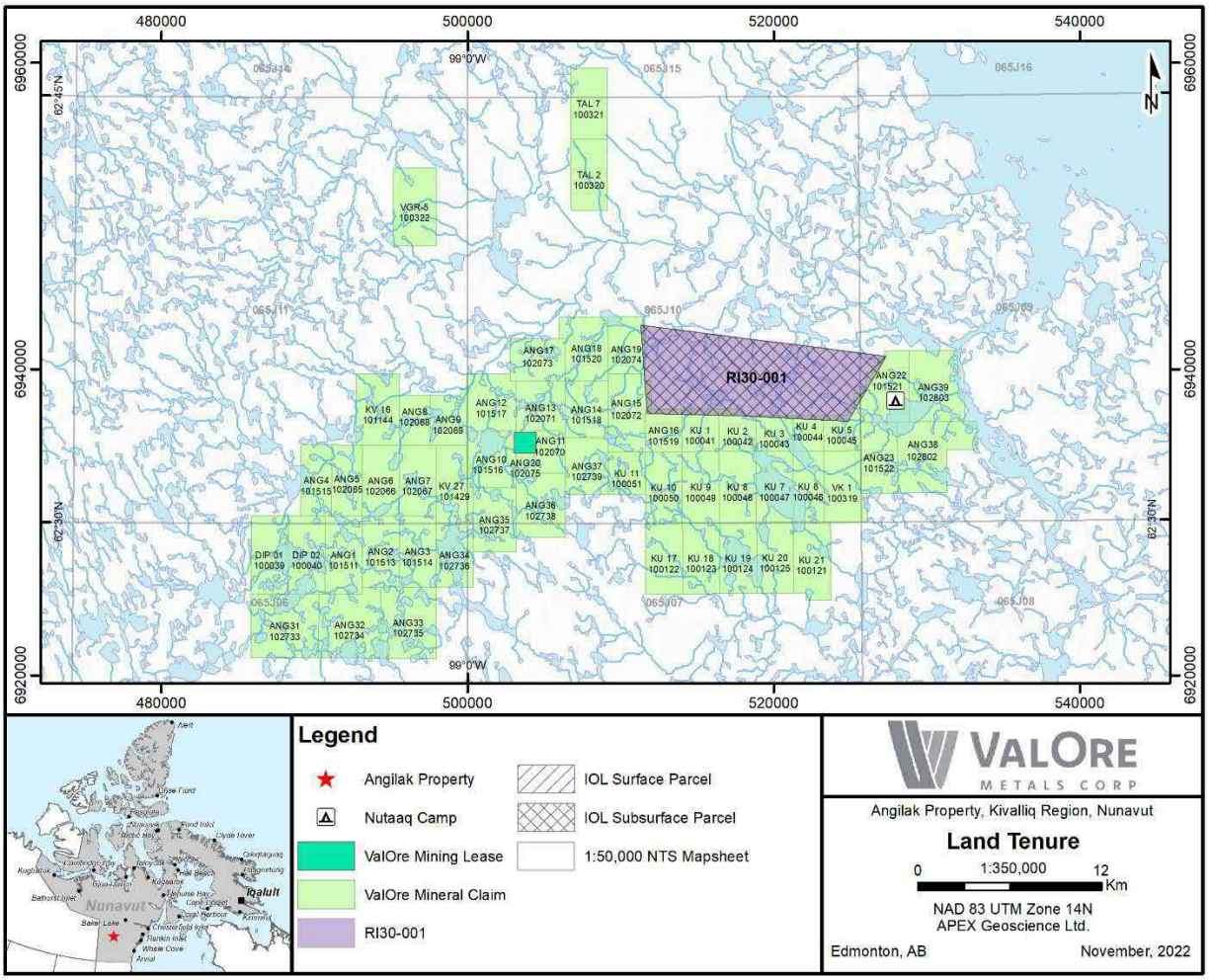


Figure 2: Angilak Property Land Tenure

Table 1: 2022 Land Use Permits and Licences

Issuing/Screening Agency	Date Issued	File Number
KIA	August 1, 2008	KVL308C09
NIRB	July 31, 2008	08EN052
CIRNAC	August 15, 2019	N2019C0013
NWB	April 12, 2022	2BE-ANG2227

WORK COMPLETED ON THE PROPERTY TO DATE

Since 1979, the Property and surrounding area has been called various names (i.e., LGT, Yathkyed, Lac Cinquante) however, ValOre collectively refers to all land holdings of this Project as the “Angilak Property”. The Angilak Property hosts the high-grade Lac 50 (Lac Cinquante) uranium resource and more than 150 mineral showings.

From 2007 to 2013, ValOre evaluated the Lac 50 trend uranium deposits through a series of exploration programs that included approximately 89,600 metres of diamond drilling and reverse circulation (RC) drilling. During that time the Company delineated the Lac 50 Main Zone, Western Extension, Eastern Extension, J4 Zone and Ray Zone uranium deposits. On January 15, 2013 the Company released an NI 43-101 inferred mineral resource estimate for the Lac 50 trend deposits of 43.3 million pounds U_3O_8 in 2,831,000 tonnes grading 0.69% U_3O_8 (at 0.2% U_3O_8 cut-off).

The Angilak Property also hosts gold, silver, copper and platinum group metals occurrences. Programs since 2013 have focused on acquiring additional Property-wide geotechnical data. A modest drill program was conducted in July 2015 at the Dipole occurrence 25 kilometres southwest of Lac 50.

No exploration program was conducted at the Angilak Property in 2019, 2020 and 2021. Between July 4 and July 5, 2018, a Property visit was conducted to perform camp maintenance and undertake a legal land survey over the single claim being taken to lease.

2022 WORK COMPLETED

Spring

Ground Geophysical Surveying

A crew of 7 APEX Geoscience Ltd. (APEX) personnel conducted ground magnetometer and very low frequency electromagnetic (VLF-EM) surveys from April 14, 2022 on Priority Grid 5, based out of Nutaaq Camp and then used the Temporary Camp from April 22, 2022 as a base, to complete Priority Grid 1 and 2 until May 16, 2022.

The crew surveyed 1,547.62-line kilometers and recorded 80,329 VLF-EM measurements as indicated in Table 2 and Figure 3 for Priority Grids 1, 2 and 5.

Table 2: Geophysical Survey and Grid Details

Grid	Azimuth	VLF-EM Station Spacing (m)	VLF-EM Frequencies (kHz)	Total Line-path (km)	VLF-EM Points
Priority-1	135°	20	21.4, 24.8, 25.2	765.17	3,8371
Priority-2	135°	20	21.4, 24.8, 25.2	503.41	2,5412
Priority-5	25°	20	24.0, 24.8, 25.2	279.04	1,6546
			Total	1547.62	80,329

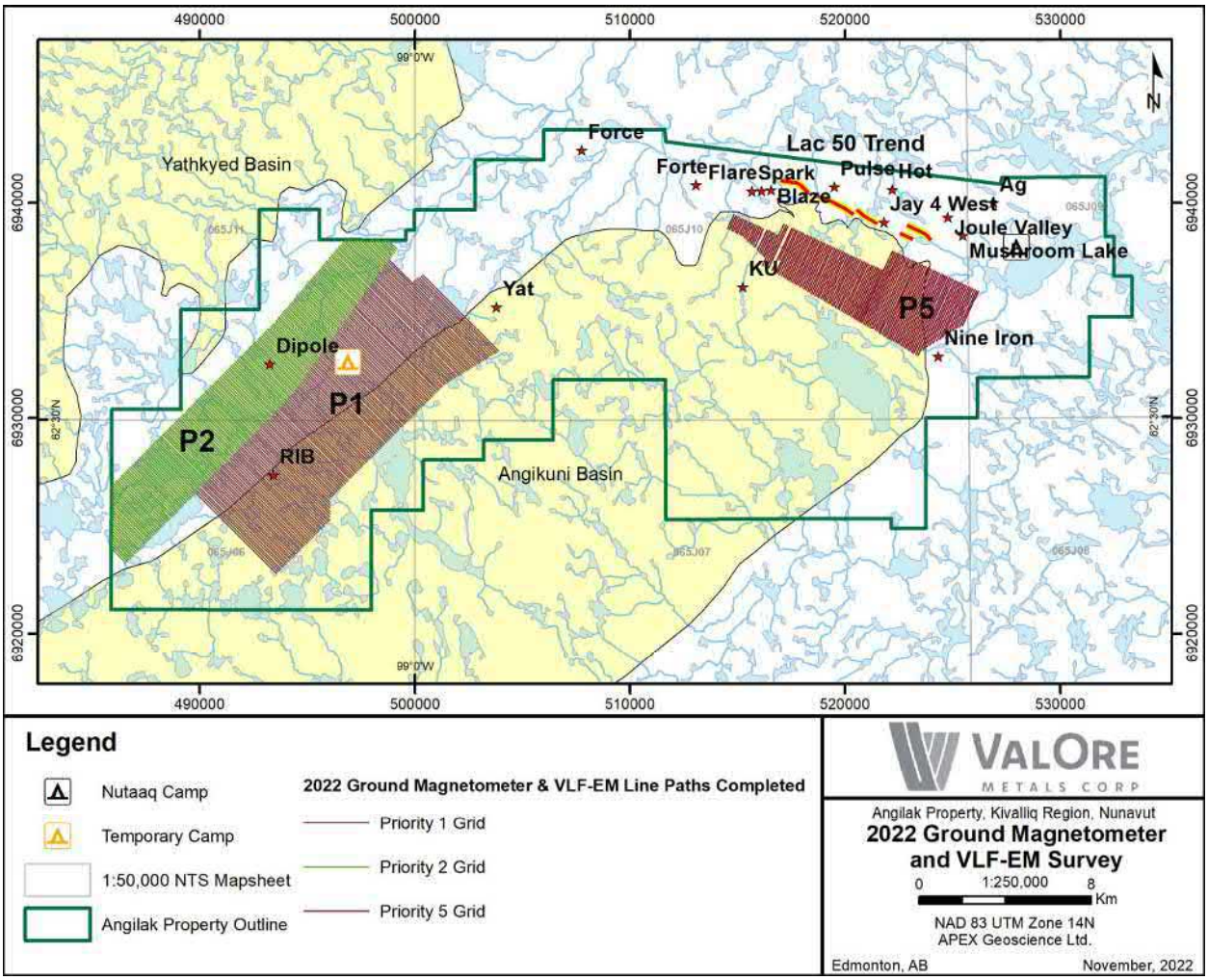


Figure 3: 2022 Ground magnetometer and VLF-EM survey coverage

Reverse Circulation Drilling (RC)

ValOre contracted Northspan Explorations Ltd. (Northspan) to preform a reverse circulation (RC) drill program on the Angilak Property during Spring 2022. The full RC drill set of equipment was flown into Nutaaq Camp with a Basler DC 3 on wheel skis from Baker Lake. A total of 3,165.35 meters (10,385 ft) in 27 holes were drilled from April 22nd to June 14th, 2022. The model of RC drill used was a Hornet, heli-portable which drills a 4" hole using a rotary percussion drilling technique, pulverizing rock into chips of 1cm or less.

RC drilling was used to further evaluate three target locations drilled in previous years. The RC drill primarily tested the VLF conductor at the Dipole target followed by drilling at the Yat and Jay 4 West targets. The drill is set to drill two to three holes per pad at the same azimuth, with varying inclination. Initially drilling at a shallow angle, typically -45 degrees, followed by rotation of the head and drilling holes at various steeper angles. Proposed pads were located and aligned with the use of a Devico DeviSight that uses a dual GPS system to accurately measure and record location and azimuth. Once the drill was set up on the pad, the drill is aligned to the correct

azimuth and dip by a geologist with the use of the Devico DeviAligner followed by a check with a Brunton compass to ensure accuracy.

During Spring 2022 17 holes were drilled on the Dipole target with 4 holes drilled on the Yat target and the remaining 6 holes drilled on the Jay 4 West target. An overview of 2022 drilling can be seen in Figure 4 with detailed drill maps of the Dipole target in Figure 5, Yat target in Figure 6, and Jay 4 West Target in Figure 7.

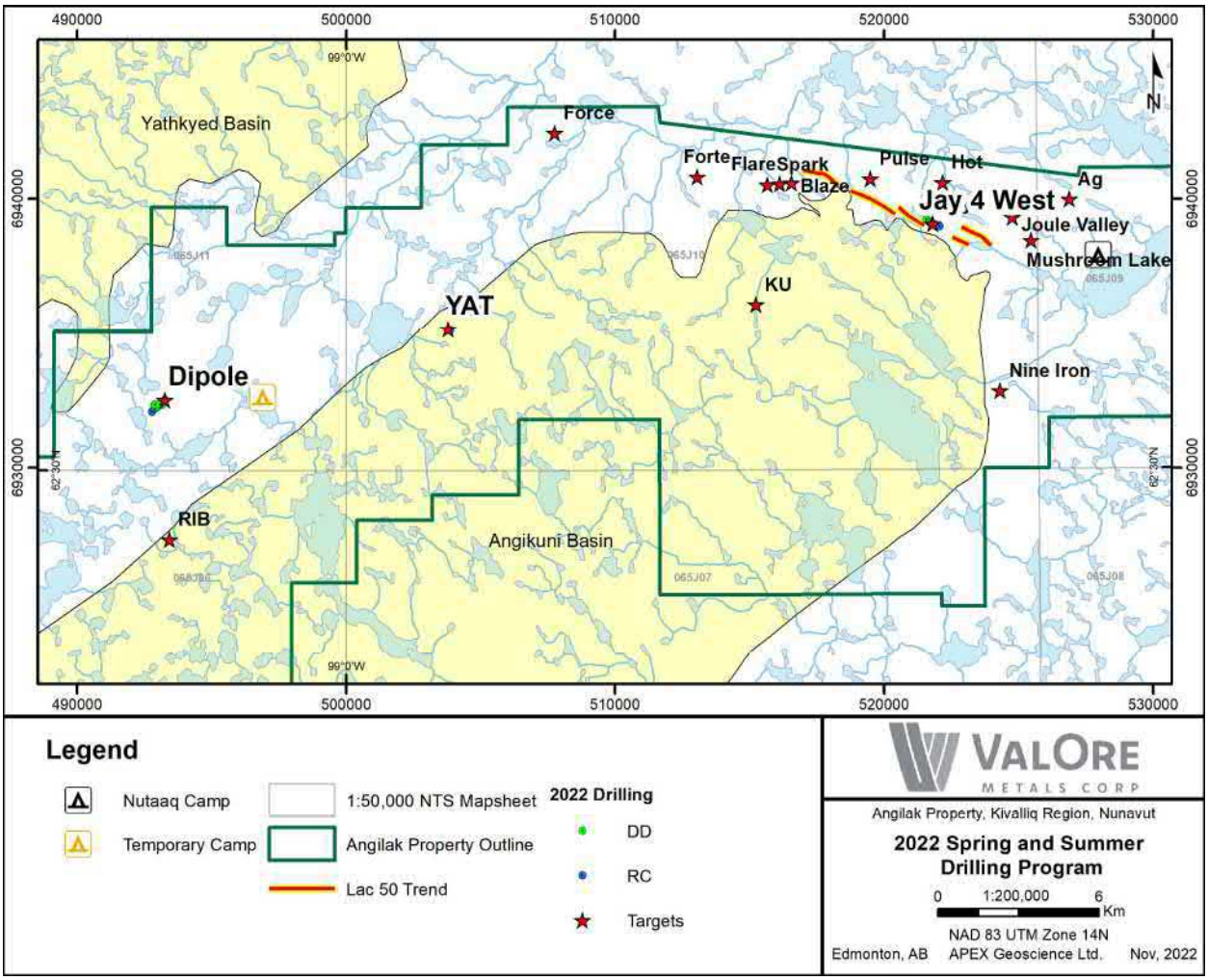


Figure 4: 2022 Spring and Summer Drilling Program Overview

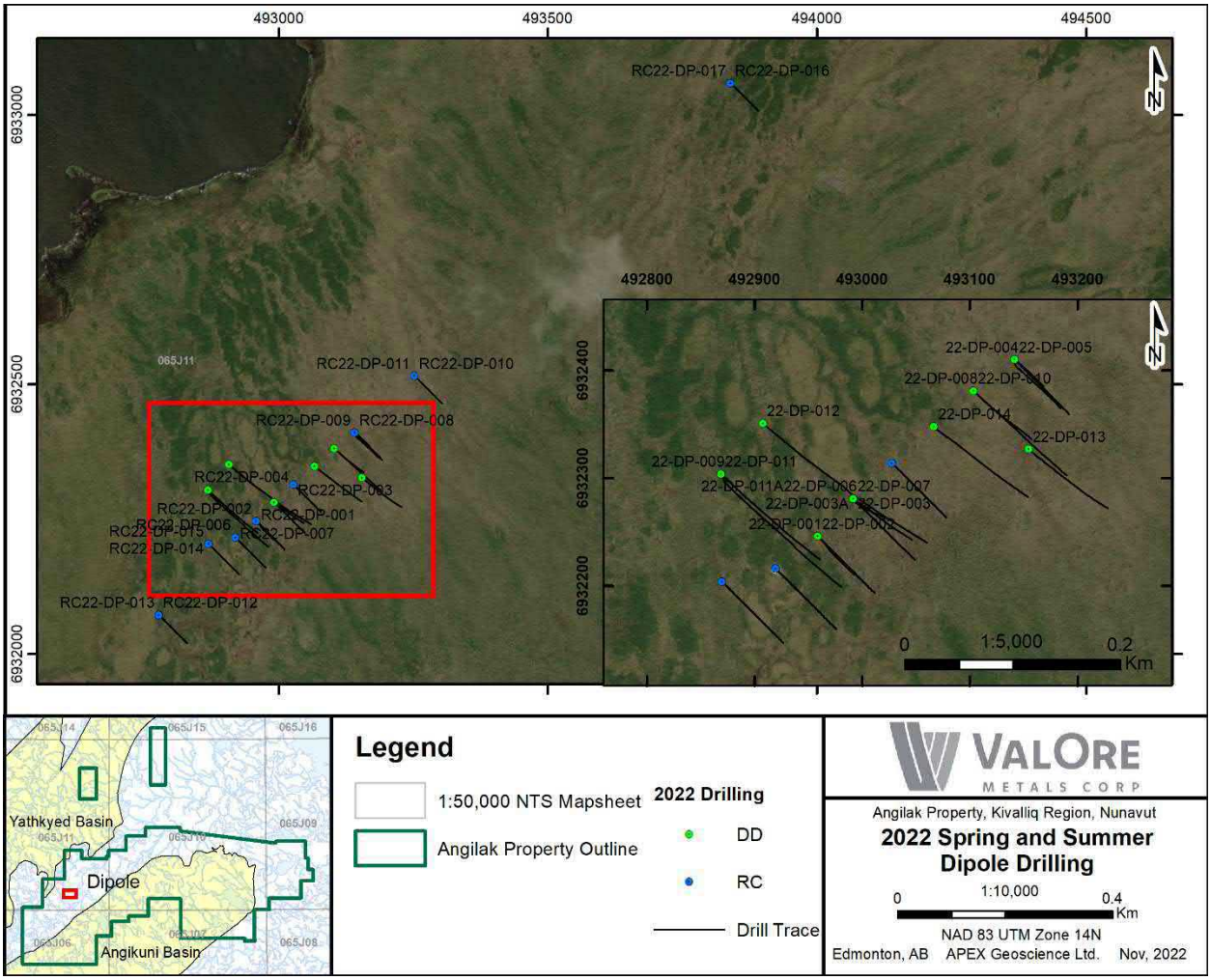


Figure 5: 2022 Spring and Summer Drilling at the Dipole Target

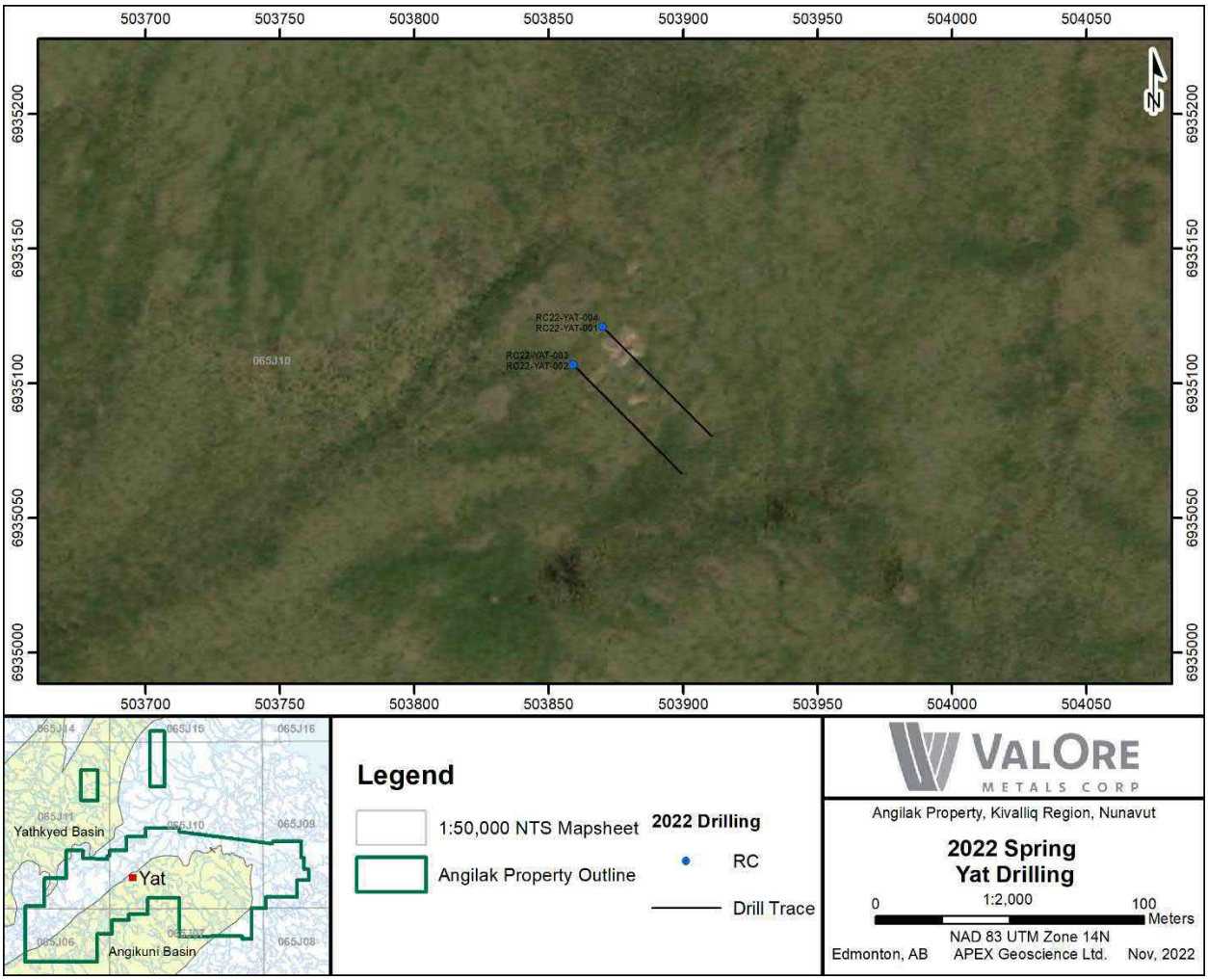


Figure 6: 2022 Spring Drilling at the Yat Target

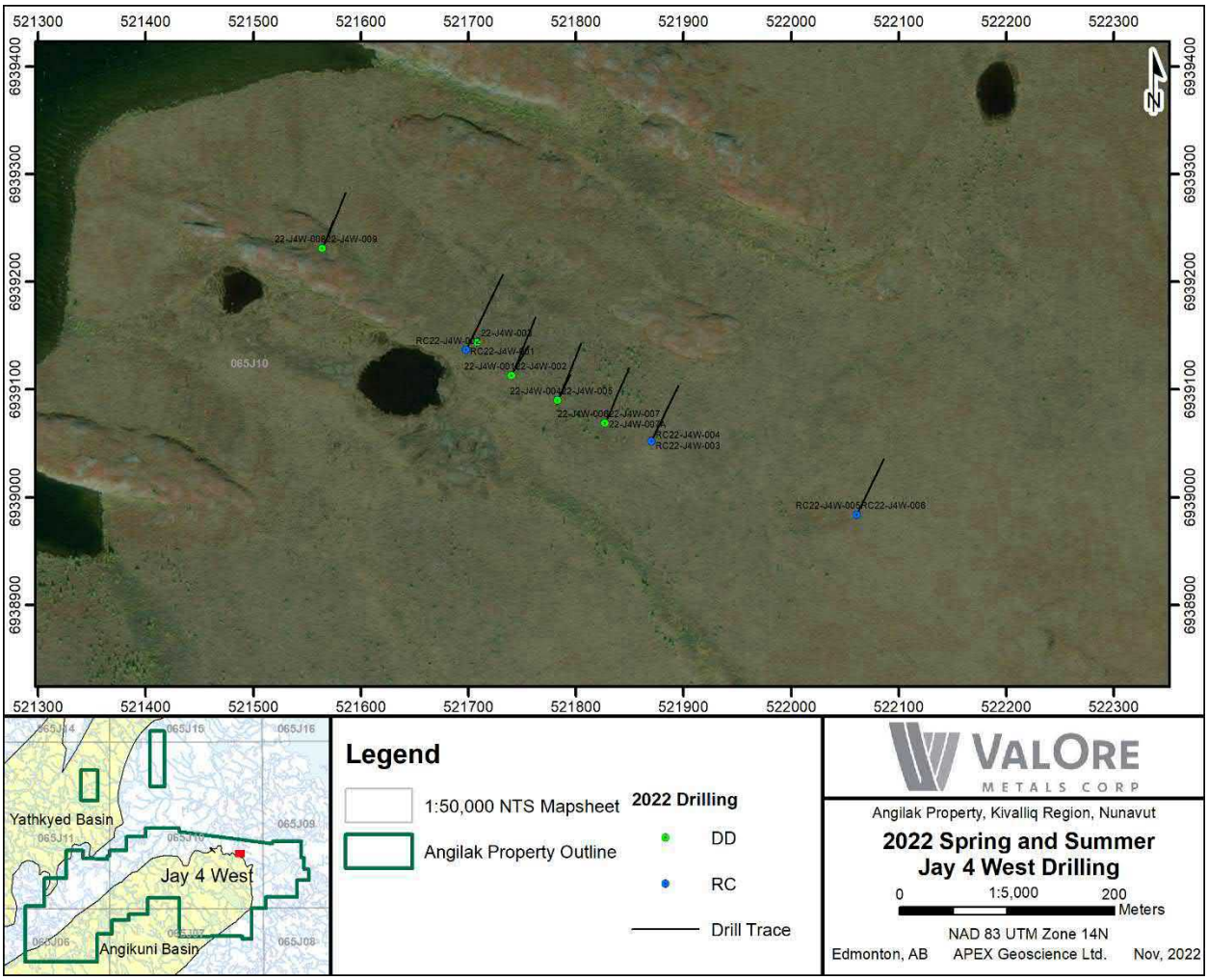


Figure 7: 2022 Spring and Summer Drilling at the Jay 4 West

Northspan's Hornet RC drill can achieve a maximum depth of approximately 200 meters with a booster. The drill is pneumatically driven with compressed air at 200 pounds per square inch (psi) and 200 cubic feet per minute (CFM) powering a down-the-hole hammer affixed with a carbide impregnated button bit. The drill produces roughly 20 liters (5 gallons) of rock chips per five-foot run of drill rod. Return air with suspended solids is run through dual cyclones where rock chips are separated from the fines. The fines are collected by a Camfil Farr industrial dust collector. The dust collection system has been modified by Northspan to better suit drilling and sampling for uranium. The system employs a CFARR Hepa 100 Hemipleat High-Efficiency Filter Cartridge that cleans and filters all air exiting the containment chamber. All drill crew were equipped with appropriate PPE, including half face silicone respirators with 3M Hepa 100 dust cartridges. All material is tested for radioactivity at the drill by means of a handheld scintillometer.

Once drilling is completed and casing removed, the hole is plugged at a depth of 30 feet (9.1 meters) and is grouted to surface. All drillholes are marked with a 2x4 wooden stake bearing a metal tag containing the collar information. Locations of drillholes are recorded with a Devico

DeviSight while initially aligning the pad to the correct azimuth. RC drill collar coordinates are included in Appendix B together with site reclamation photos presented per drill pad.

Geological samples are collected over five-foot drill runs with a small portion being cleaned and put into a chip tray for logging under a binocular microscope in camp. Benign rock chips and dust are collected in polypropylene bulk bags. Once full, these bags are flown by helicopter to a naturally occurring depression for storage. Where elevated levels of radiation are encountered for measurements on the handheld scintillometer greater than 350 counts per second (CPS), the entire 20-liter pail is collected as the geological sample and sealed with a tamper proof lid at the drill site. The sealed sample pails are temporarily stored in an isolated location behind the Nutaaq core shack in preparation for shipment to a commercial laboratory. A total of 401 samples were collected in plastic pails at the drill and 21 Quality Assurance / Quality Control (QA/QC) samples were added to the sample batches. Plastic pails filled with sample material exceeding 5,000 CPS on the outside were put into steel pails to reduce the CPS readings. All sample pails were flown to Baker Lake and onward on cargo planes to Yellowknife. The Dipole batch of RC samples were analyzed at the ALS laboratory in North Vancouver and the Yat and J4 West samples were analysed at the Saskatchewan Research Council (SRC) laboratory in Saskatoon.

Summer

Soil Sampling

During the 2022 Summer Field season, APEX geologists conducted a helicopter-supported soil sampling program from July 17th to July 31th, 2022. During the 14-day program a 4-person crew collected 896 soil samples, including duplicates, across three priority targets: Lac 50 East grid, Dipole grid and the Norand East traverse. A summary of samples collected and sample sites visited can be seen in Table 3.

Table 3: Soil Sample Summary

Target	Lac 50 East	Dipole	Norand East	Total
Collected	370	483	27	880
Visited (No Sample)	73	170	27	270

The goal of the soil geochemical survey was to classify and prioritize bedrock conductors for drilling by identifying those conductors which have associated surface geochemical anomalies. Enzyme Leach Analysis was chosen due to its sensitivity in detecting mineralization beneath deep overburden, which in some areas has been shown to be superior and more cost effective to that of conventional soil assays. An overview of soil sample locations and the Norand East traverse can be seen in Figure 8 with detailed maps for the Lac 50 East grid shown in Figure 9 and the Dipole grid shown in Figure 10. Soil sampling data can be found in Appendix C.

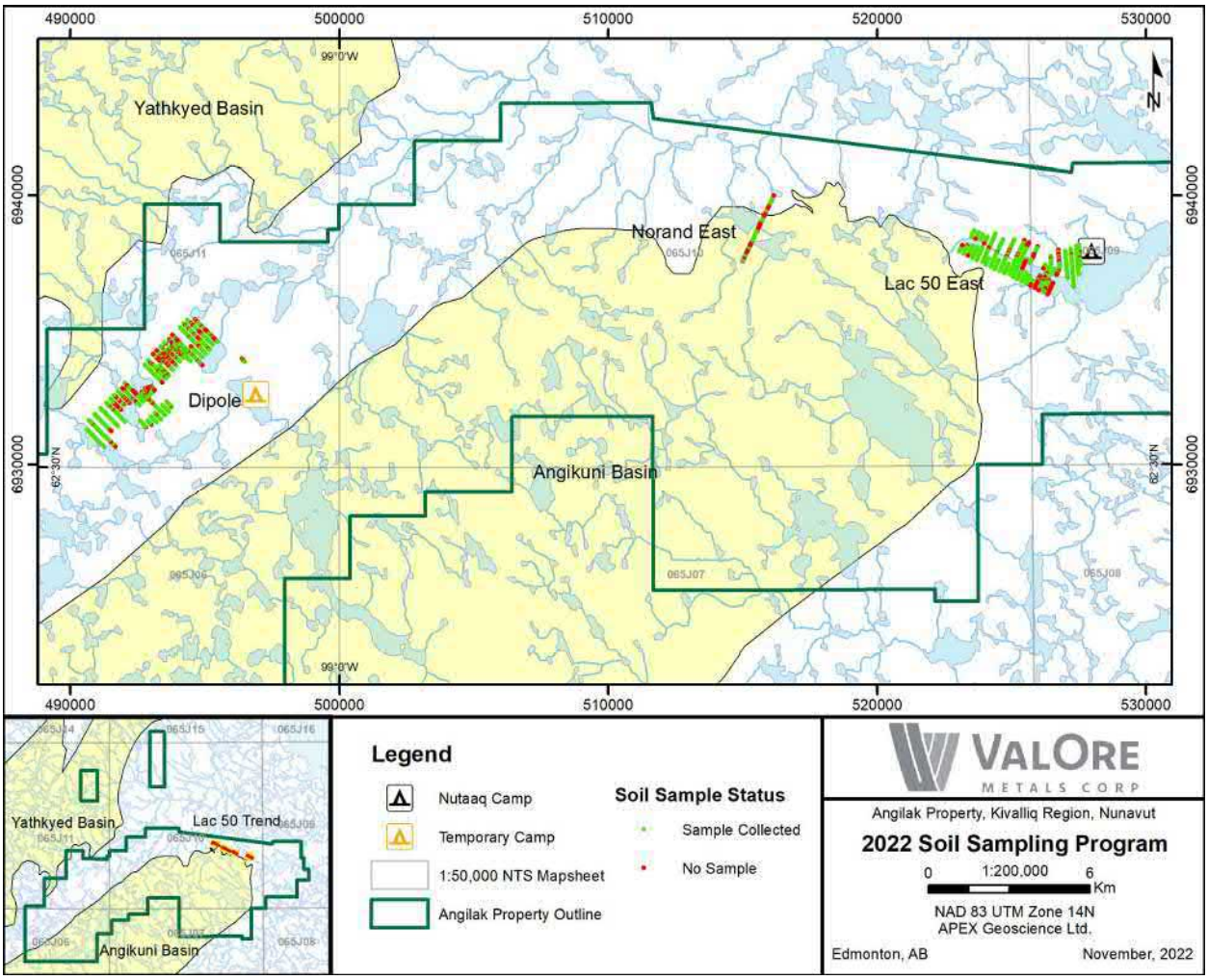


Figure 8: 2022 Soil Sampling Program Overview

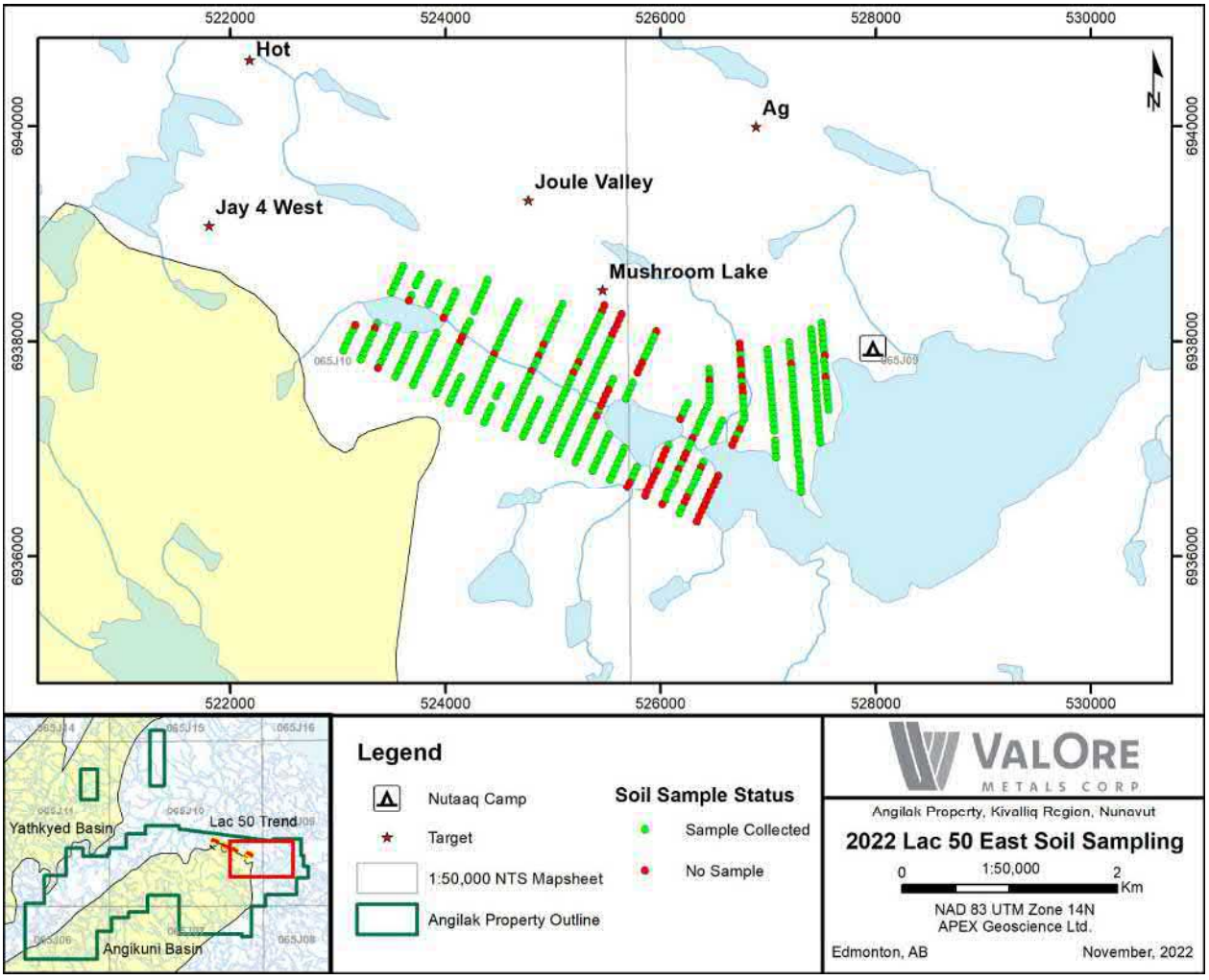


Figure 9: 2022 Lac 50 East Soil Sampling

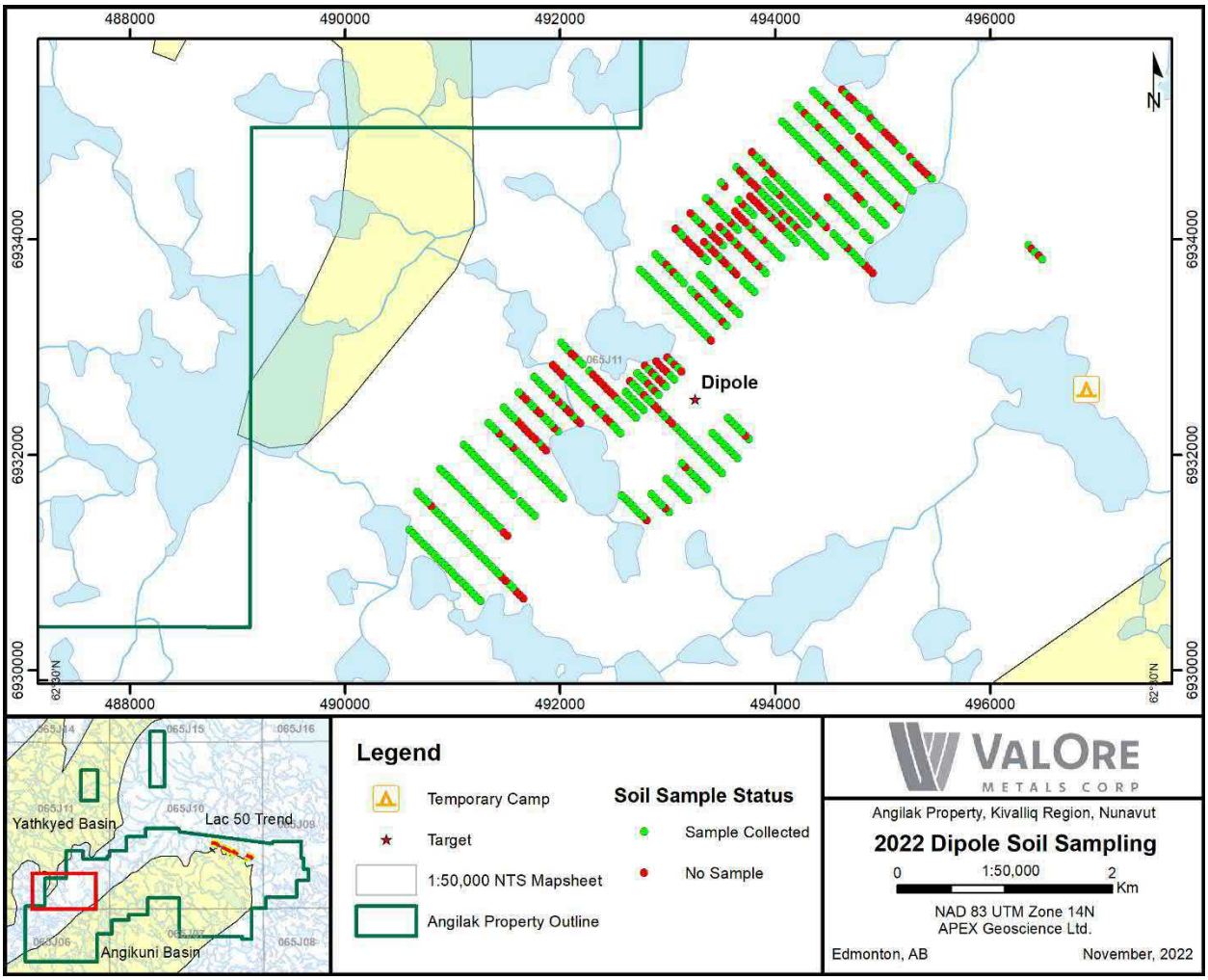


Figure 10: 2022 Dipole Soil Sampling

Samples were collected from the B horizon within 3 meters of the proposed GPS coordinates. Sample depth, colour, moisture, material present and horizon thickness were recorded, if clasts were present, clast geometry and size were described and recorded as well. Furthermore, soil sites were described with vegetation type, landform, slope and likelihood of disturbance recorded at each site. Two photos were taken at each sample site, one of the sample materials collected and one of the local area.

Many proposed sample sites were not sampled (No Samples) due to various reasons. Primarily, most No Samples were in flat areas where the O horizon extended past 1m depth and no viable sample could be identified within 3 meters of the proposed point. Secondly, localized areas where the surface was covered with cobble to boulder sized clasts, no viable soil from the B horizon could be recovered beneath the clasts.

A total of 926 samples were sent for analysis during the program; 880 of which were soil samples and 46 QA/QC samples. All samples were sent to Activation Laboratories Ltd. (ActLabs) in Ancaster, Ontario for Enzyme Leach Analysis.

Diamond Drilling

ValOre contracted 518 Drilling Ltd. from Woodlands, MB, during Summer 2022 to perform diamond drilling on two targets at the Angilak property. A total of 3,590 meters of diamond drilling in 26 holes was completed from July 22nd to September 3rd, 2022. ValOre owns two Boyles 17 heli-portable drill rigs, staged on the property from historical drilling undertaken from 2009-2015.

During Summer 2022, 16 holes were drilled on the Dipole target and 10 holes were drilled on the Jay 4 West target. An overview of 2022 drilling can be seen in Figure 4 with detailed drill maps of Dipole target in Figure 5 and Jay 4 West in Figure 7. Diamond drill collar coordinates and drill site reclamation photos are available in Appendix D.

Drill pads were initially located with the use of handheld GPS and a Devico DeviSight with dual GPS to accurately measure and record location and azimuth. Once set up on the pad, the drill was aligned to the correct azimuth and dip by a geologist with the use of the Devico DeviAligner followed by a check with a Brunton compass to ensure accuracy.

The Dipole target is located approximately 25 kilometers southwest of the Lac 50 deposits, in a northeast trending belt of Archean metavolcanic rocks that are an excellent analogue to Lac 50. The drilling at Dipole was designed to extend mineralization of the Dipole trend where historical drilling tested the center of a VLF-EM conductor at Dipole. Drilling has extended the previous mineralized zone along strike and at depth. Drilling has outlined multiple steeply dipping mineralized zones within a sequence of structurally weak, pyroclastic horizons. Intercept depths range from 21.5 to 304.6 meters. Drill hole azimuths were set to 135 degrees North with the inclination ranging from -45 to -82 degrees. Priority drilling was based on the 2022 RC Spring drilling program.

The Jay 4 West target lies within the Lac 50 trend of a northwest trending belt of Archean meta volcanic rocks. Drilling at Jay 4 West was designed to extend mineralization within the Lac 50 trend. Drilling has outlined a steeply dipping mineralized zone hosted within a sequence of structurally weak pyroclastic horizons. Intercept depths ranged from 18 to 80.5 meters along the 350 meters of strike length. Drill hole azimuths were set to 026 degrees North and drill hole inclinations ranged from -45 to -90 degrees. Priority drilling was based on the 2022 RC Spring drilling with eight of the ten drill holes focused between two of the RC drill pads along 150 meters of strike length. The remaining two drill holes lie to the northwest on the same drill pad to test mineralization northwest of prior drilling.

ValOre utilizes a drill cuttings containment and collection circuit to collect all drill cuttings. Drill effluents are pumped through a series of three 150 gallon in-line settling tanks that capture precipitated cuttings (Figure 11). Geologists notify drill crews prior to drilling the predicted radioactive intercept depths. Prior to the anticipated radioactive zones, the settling tanks are checked with a scintillometer for radioactivity, then drained into one-tonne fibre bulk bags that dewater through the bag weave. The bulk bags are flown to a centrally located, naturally occurring depression/sump where they are stored at 525 295E, 6 938 025N, N83Z14. Drill cuttings that exceed 0.05% uranium are isolated within 205 litre steel drums, the drums are sealed and flown

to a temporary staging area on a flat, dry outcropping ridge on the east side of the Lac 50 drill area (519 615 E, 6 939 955 N, N83Z14).

Figure 11: 2022 drilling at Dipole with a Boyles 17 heli-portable rig with cuttings settling tanks.

After completion, the drill holes were surveyed using a Stockholm Precision Tools (SPT) MagCruiser configured in a multi-shot setting. Surveys were started at the bottom of the hole with data being recorded at 9-meter intervals. The MagCruiser records inclination, magnetic azimuth, magnetic field and temperature. Downhole survey data that shows unrealistic hole orientations or a magnetic field in excess of 80,000 nT is considered suspect and the survey will be repeated or discarded.

Upon completion, all drilled holes are plugged at a depth of 30 meters below the overburden/bedrock interface and cemented with Portland cement. All drill holes that encountered mineralization with a uranium content greater than 1% over a length of 1.0 m were sealed by grouting over the entire length of the mineralization with Portland cement including 10m above and below each mineralization zone.

All drill rods and drill casing were removed from site upon completion. Drill site clean-up is progressive as the drill rig moves from one pad to the next. Once clean up of a drill site is completed, the location of the drill site is photographed (Appendix D) and marked with a 2x4 wooden stake bearing a metal tag containing the collar information.

Drill core was logged at ValOre's logging facility at Nutaaq camp. Upon completion of the geological log, the core is scanned for radiation with a scintillometer measuring counts per seconds. Sections of core with readings over 350 CPS are isolated and rescanned to pinpoint where the radioactivity zone begins and ends.

Drill core from Dipole and Jay 4 West is generally competent with excellent core recovery rates at or near 100% except in fault zones rich in graphite. Sample intervals were selected based upon mineralization, radiation, lithology and structure. Sample thickness ranged from 0.5 to 1.5 meters, where there is radioactivity present a buffer sample of 0.5 to 1.5 meters is taken above and below the radioactive samples. The entire drillhole is photographed followed by splitting.

Core samples collected during 2022 diamond drilling program comprised half split NQ drill core and were split using a mechanical core splitter. The samples are placed in plastic bags with identification tags, sealed with secure plastic ties and subsequently packed into plastic pails sealed with tamper proof lids. If the outside surface of the plastic pail measures greater than 5,000 CPS, the core is packed into an IP3 steel drum for shipping. Radioactive core is packed into the center of the drum surrounded by non-radioactive core on all sides. Sample submittal forms were filled out to include shipment numbers along with sample sequences and total numbers of samples. A total of 427 core samples were collected and 22 QAQC samples were added to the batches. All core samples, including QA/QC samples inserted at site, were flown to Baker Lake and onward on cargo planes to Yellowknife and road transported to the SRC laboratory in Saskatoon.

CAMP INFRASTRUCTURE & PROPERTY MAINTENANCE

The Nutaaq Camp (the Camp), situated on an elevated flat topped gravel deposit, which is part of a large trunk esker traversing the Property, is located at 527975m E, 6937950m N, NAD 83 Z14 (62° 34' 18" N Latitude, 98° 27' 19" W Longitude). The site is adjacent to Nutaaq Lake, an east west trending 1.5 kilometre wide by 4.1-kilometre-long lake that supplies the Camp with potable water and accommodates ski equipped and float equipped aircraft. The lake is sufficient in length to establish an ice strip in winter to accommodate larger aircraft such as Boeing 737 and Lockheed C130's. Flat topped gravel deposits adjacent to the Camp serve as an airstrip for wheeled light aircraft, helicopter landing sites, core racks and fuel storage.

The Camp was constructed in 2010 and expanded in 2011 and 2012 to accommodate larger exploration programs in those years. The camp was downsized in 2013 in response to a smaller exploration program and included the removal of six Weatherport sleeper tents. No changes were made to Nutaaq Camp between 2014 and 2016. One tent was removed in 2017. No changes were made to camp in 2018 or 2019. In 2020, a two-person Discovery Services Mining crew performed maintenance work at the Nutaaq camp between September 24 and September 30. In the time they were there, ten Weatherport structures were dismantled and transported back to Yellowknife, leaving the plywood floors in camp to potentially be used for future structures. No changes were made to camp in 2021.

During the second half of March 2022, a Discovery Services Mining crew re-established 4 Weatherport structures on the Western side of Nutaaq Camp and added 7 Weatherport structures to the Eastern side of Nutaaq Camp to bring the total tent structure to 8 on the Eastern side since the former medic tent was left in place during the September 2020 maintenance and demobe exercise.

Figure 12 shows the Nutaaq Camp layout as on September 14, 2022 with the camp consisting of 21 individual structures: 11-14’x16’ sleeper tents, 1-14’x32’ kitchen, 1-14’x16’ kitchen overflow, 1-14’x32’ dry and laundry tent, 1-14’x16’ pacto and water tank shack, 1-14’x16’ Level II First Aid facility, next to office, a 10’x12’ generator shed, 1-14’x16’ hard shelled office, 1-14’x 32’ core tent, 1-14’x32’ core splitting tent, and 1-30’x60’ Sprung (quanset) structure.

Camp infrastructure, core storage, fuel storage and the airstrip are located on Crown land subject to CIRNAC Land Use Permit N2019C0030. Temporary storage of drill cuttings and drill equipment staging areas are located on IOL Parcel RI-30, subject to KIA Land Use Licence KVL308C09.

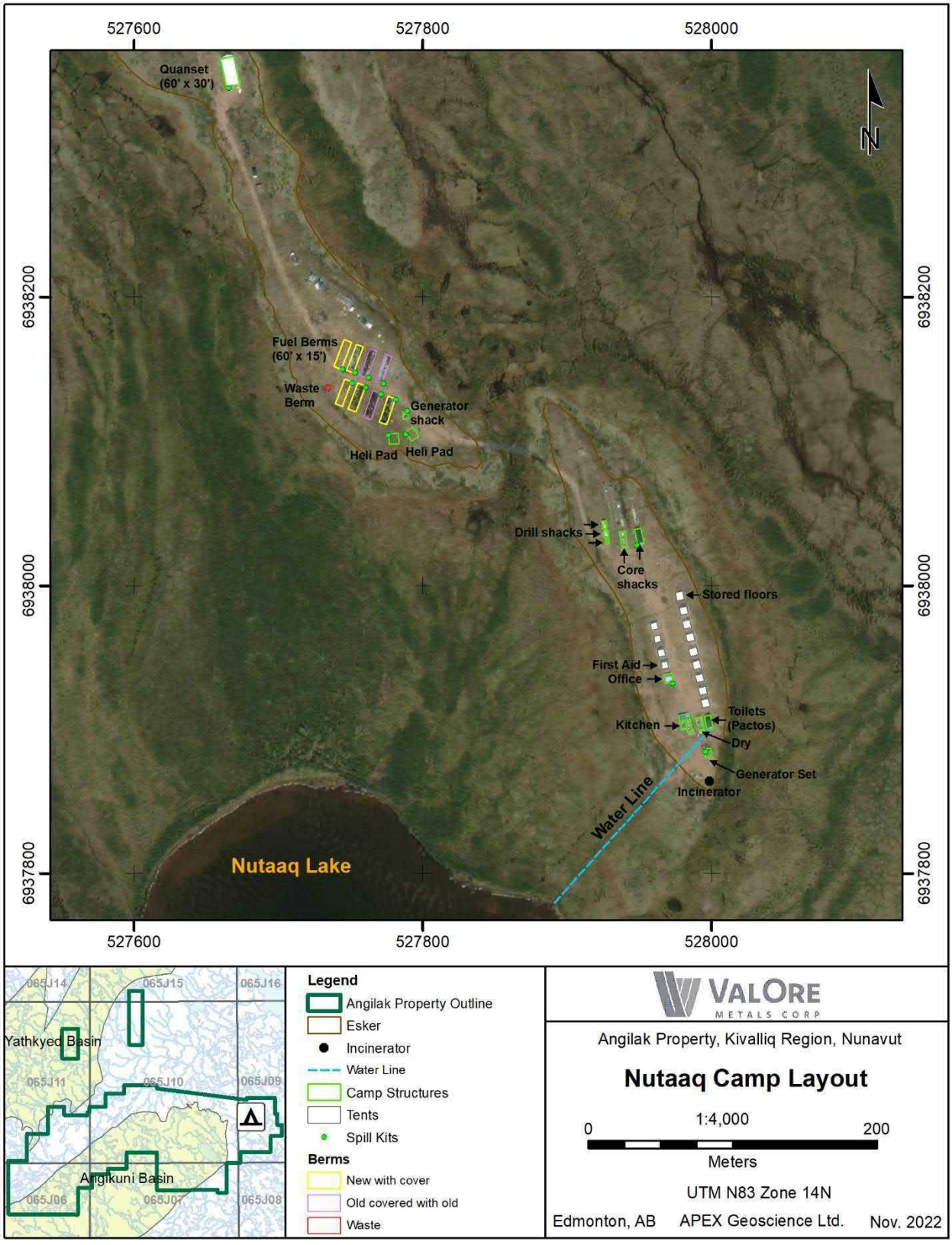


Figure 12: Nutaaq Camp layout as on September 14, 2022

Community Consultations

Details of all historic community consultations and consultations performed during early 2022 can be found in Appendix E.

An in-person meeting was held with six board members of the Kangiqliniq (Rankin Inlet) Hunters and Trappers Organization (HTO) on March 14th, 2022 with representation from ValOre by Colin Smith, VP of Exploration, Marina Carvalho (ValOre) and Tara Gunson (APEX). A public meeting was held on the same day, also in Rankin Inlet and attended by several community members as well as the same personnel representing ValOre. An in-person meeting was held with the deputy mayor, senior administrative officer (SAO) and three councillors from the Hamlet of Rankin Inlet on March 15, 2022, together with the same three representatives from ValOre as before.

During the afternoon of March 15, 2022, an in-person meeting was held with the mayor of Baker Lake and the SAO together with the same three representatives from ValOre as before. Later that afternoon an in-person meeting was held with the chairman, vice-chair and 5 directors of the Baker Lake HTO, a translator was included at the meeting with the same 3 representatives from ValOre as before. The Baker Lake public meeting, later that same day, was attended by 13 members of the public, including a translator and 3 representatives from ValOre, as before.

An in-person meeting was held with the mayor and the SAO of the Hamlet of Arviat on March 16, 2022, together with the 3 representatives of ValOre. Later that same day, an in-person meeting was held with the Arviat HTO represented by the chair and 2 directors as well as 3 representatives of ValOre as before. Later that evening, an in-person public meeting was held in Arviat with the 3 representatives of ValOre with 12 members of the public attending together with a translator.

Nutaaq Camp Construction

A four-person crew from Discovery Mining Services, added four Weatherport tents from March 15 to April 5, 2022, to the West row in Nutaaq Camp and seven Weatherport tents to the Eastern row of the camp, utilizing the existing wooden floors left intact during the September 2020 visit. The kitchen, dining room extension and the dry were roofed with tarps (Figure 12).

Temporary Camp Construction

The same four person crew from Discovery Mining Services started construction on April 7th, 2022 of 5-14’x16’ Weatherport sleeper tents, 1-14’x16’ Weatherport office tent, 1-14’x20’ kitchen, 14’x16’ Weatherport First Aid tent, a 14’x16’ dry and laundry tent, one pacto outhouse and a 6’x8’ generator shack at the Temporary Camp position, roughly situated halfway between Nutaaq Camp and the Angilak western property boundary (62° 31’ 28.01” N, 99° 03’ 36.8” W) (Figures 4, 13, 14 and 15).

The camp site was laid out 101m east of a suitable, unnamed lake, on a slightly raised piece of land to mitigate swampy conditions in the vicinity, during summer. The Temporary Camp was used from April 22, 2022 by the VLF-EM geophysics crew until May 16, 2022 and was finally closed on June 8, 2022. A three-person crew from Discovery Mining Services removed all camp

gear from Temporary Camp from June 19 to 24, 2022 from where it was flown back to Nutaaq Camp by helicopter and then by single otter to Baker Lake for furtherance to Yellowknife. Figures 13, 14 and 15 illustrates the Temporary Camp configuration and its current status as on September 13, 2022.

Figure 13: Temporary Camp: April 24, 2022, in use by Geophysics Crew

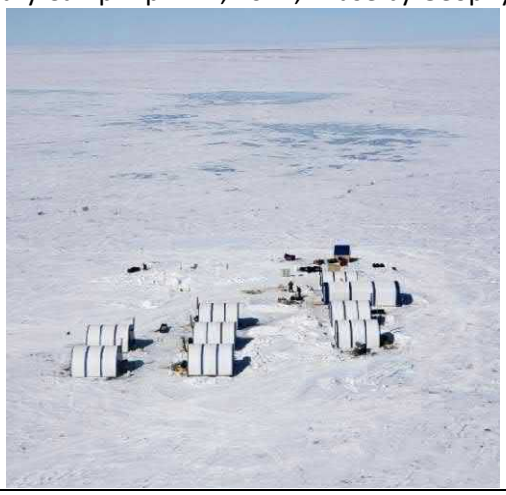


Figure 14: Temporary Camp: June 8, 2022, camp closure day

Figure 15: Temporary Camp: September 13, 2022, all Discovery camp gear removed in June, all fuel removed. Beds and tables secured to tent floors for future re-use.

Figure 13, 14 and 15: Photos of the Temporary Camp site as indicated by the dates.

Environmental Baseline Monitoring Program

Hemmera Envirochem Inc. (Hemmera) was contracted by Kivalliq Energy in 2010 to design and implement a customized early-stage baseline monitoring program that corresponds with the stage of current exploration and allows for rapid expansion or downsizing of monitoring studies as the exploration program changes in scope and/or location from year to year. The program is designed to build an understanding of the local and regional environmental attributes in areas being worked that are of legislative, cultural, economic and/or scientific importance. The attributes selected for study are also those that will benefit from the longest record of data collection.

During the summer 2022 exploration program, Hemmera, now Ausenco Pty Ltd. (Ausenco) was contracted by ValOre to re-instate and resume the historical baseline monitoring program which were gathering data from the following five biophysical components:

- Water quality
- Hydrology
- Meteorology
- Air quality
- Non-invasive, observational based wildlife monitoring.

The Angilak Property environmental baseline study area is shown in Figure 16. A report covering the work completed and results obtained by Ausenco for Summer 2022 is attached in Appendix F.

A total of 31 sites were re-established by an Ausenco contractor from July 12 to 16, 2022 as shown in Table 4 and Figure 16. Training was provided to 2 local employees to record hydrometric observations at 7 stations every two weeks during the Summer 2022 exploration program and retrieval of 4 dust collection canisters once a month.

Table 4: Environmental baseline study stations re-established during Summer 2022

Station	X_E_N83Z14	Y_N_N83Z14	Type
C1	522306.4	6942036.6	Hydrometric
N1	531664.4	6938345.5	
N2	527433.2	6935201.6	
S1	530948.9	6941716.5	
W1	524666.5	6943935.3	
W2	521589.2	6942415.5	
W3	515964.6	6942589.0	
W4	514572.1	6940459.6	
DF1	515159.1	6940119.3	Dustfall
DF2	520809.7	6939187.5	
DF3	524412.0	6939969.3	
DF4	529124.2	6940061.5	
WQ1	518875.2	6938682.5	Water Quality

WQ2	520324.0	6938718.9	
WQ3	521577.6	6940092.3	
WQ4	522399.9	6942568.0	
WQ5	515280.4	6939479.0	
WQ6	516328.3	6938229.0	
WQ7	513281.3	6941798.6	
WQ8	517630.7	6944156.6	
WQ9	519177.5	6944419.4	
WQ10	519896.8	6943305.1	
WQ11	516327.0	6939863.1	
WQ14	528403.7	6937762.8	
WQ15	524222.3	6945204.9	
WQ16	532976.1	6942307.3	
WQ17	538569.4	6930410.2	
WQ19	523358.0	6939271.0	
WQ20	532046.9	6938425.0	
WQ21	494953.0	6943644.0	
WQ23	523250.0	6938369.0	
WQ24	526672.0	6934031.0	

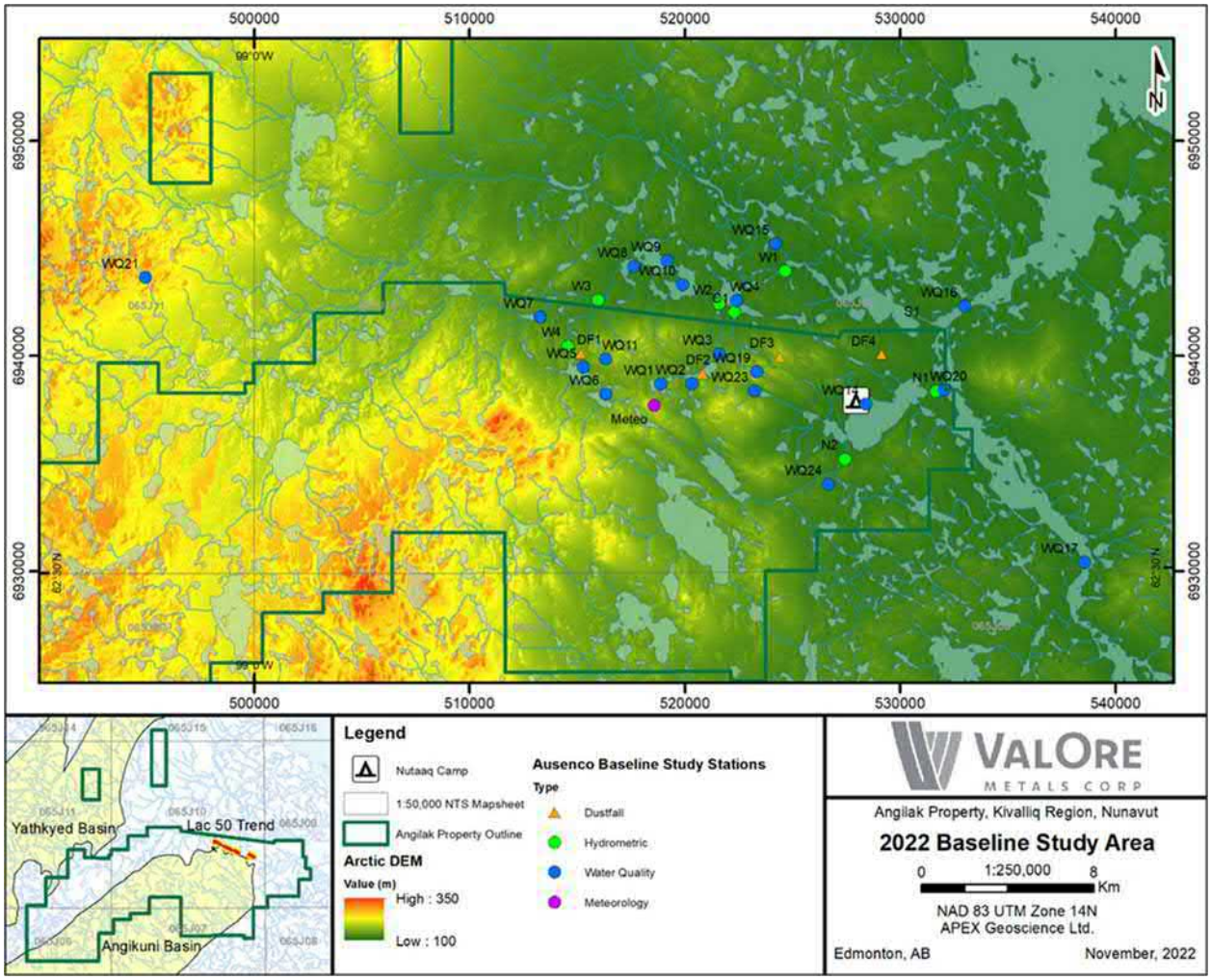


Figure 16: Environmental baseline monitoring study area - 2022

Water Quality

On July 15 and 16 water quality samples were collected by the Ausenco contractor from 20 collection site as indicated in Table 4 and Figure 16 which are representative of 20 water bodies on the Angilak Property, focusing on the Lac 50 deposit exploration area and camp infrastructure locations. These samples were submitted to the ALS Environmental Laboratory in Winnipeg and were analyzed for 12 parameters of which hardness, metals, pH, total suspended solids, ammonia, nitrate, cyanide and alkalinity are examples. Results are shown, discussed and compared in Ausenco's report attached in Appendix F.

Hydrology

Table 4 and Figure 16 provide the positions for 7 hydrometric stations that were re-established from July 12 to 16, 2022 by the Ausenco contractor by means of installing permanent, metal staff gauges to ensure stable and consistent channel flow depth measurements throughout Summer (Figure 17). Station S1 was also established but the waterflow was found to be too deep and the

flow channel too wide to take accurate flow readings. In addition to the flow depth measurement at the gauge, the stream flow velocity was recorded for 20 points on a transect of the stream for that date by means of a Swoffer 3000 instrument and a wading rod. Four surveys were completed by three trained, local personnel on July 28, August 11, August 25 and September 8, 2022. Annotated photos and completed data sheets were compiled and sent to Ausenco for analysis.

Figure 17: Example of a permanent, metal staff gauge as installed at station C1

Meteorology

A fully automated Onset Hobo Weather Station with an OTT Pluvial Rain Gauge was installed in June 2010 and was inspected during July 2022 by the Ausenco contractor and found to be extensively damaged either by wildlife and or extreme weather and not properly functioning as reported in 2016 (Figure 16). Refurbishment and repairs are planned for 2023 based on a quote obtained by Ausenco and provided in their report attached as Appendix F.

Air Quality

Table 4 and Figure 16 provide the positions for 4 historical dustfall collection stations that were located by the Ausenco contractor and charged with fresh canisters to start the collection of samples on a monthly basis (Figure 18). A set of 4 containers were successfully collected on September 13 and submitted to the ALS Environmental Laboratory in Winnipeg for analysis of

particulates and total metals on September 15, 2022. Results are provided and discussed by Ausenco in their report attached as Appendix F.

Figure 18: Installation of a fresh dust collecting canister at Dustfall Station DF1

Wildlife Observations

The overall objective of the wildlife observation program is to describe wildlife use of the study area and produce coarse-scale population estimates for valued ecosystem components (VECs) occurring in the study area. The 2022 exploration program consisted of camp construction at the Nutaaq and Temporary Camp sites, geophysical surveying and RC drilling from April to June 2022 and soil sampling, diamond drilling and the reinstatement of environmental baseline studies in the form of water and air quality sampling and recording of hydrometric observations from July to September 2022.

Dedicated wildlife monitor personnel were tasked to complete incidental wildlife observation forms while one was always present at Nutaaq Camp and Temporary Camp and one was always present wherever field crews were deployed. The wildlife monitors had the authority to pause or stop exploration activities, i.e., RC and diamond drilling as well as rerouting helicopter flight paths to stay withing the KIA Mobile Caribou Conservation Measures applicable for that specific time of year. Other members of the exploration crews also contributed to completing incidental wildlife observation forms and Appendix G contains 145 sheets completed by wildlife monitors and personnel based out of Nutaaq Camp and 20 forms were completed by wildlife monitors and personnel based out of the Temporary Camp site. Note, as is indicated by the co-ordinates, these

observations are spread out over all active exploration areas and drill targets on the Angilak property.

Archeology Survey

ValOre contracts WSP Golder to document, survey and record, any archaeological sites identified on the Angilak Property. An archeologist from WSP Golder based in Saskatoon conducted a site visit on July 16 and surveyed the RIB, Dipole, J4 West and Hot target areas for potential archeological sites present and therefore need to be considered during the summer drilling program.

Any archeological site identified during the course of exploration activities are treated with the utmost care and disturbance is prohibited. If a site is noticed by a field crew, the location is recorded using a GPS and designated off limits to all workers. As defined in the Nunavut Archaeological and Paleontological site regulations and Nunavut Archaeologist Permit requirements, final reports from WSP Golder are submitted to the Chief Archaeologist at the Department of Culture, Language, Elders and Youth (CLEY) and the KIA.

The demarcation fencing, in the form of snow fencing, installed at the Nutaaq airstrip many years ago, was inspected by the archeologist and he made recommendations how it should be brought back to an acceptable standard. Extensive repairs were made by a camp crew on July 23, 2022 and before and after photos can be found in Appendix H.

Community Leader Site Visit and Call-in

On August 8, 2022, the mayor of Baker Lake, the HTO chair and vice-chair as well as a representative of the Hamlet of Baker Lake visited the Nutaaq Camp site and were accompanied by Colin Smith, VP of Exploration for ValOre and Philo Schoeman (APEX, Figure 19, log in Appendix E). The visitors were provided with an overview of exploration activities as well as the ongoing baseline studies of which wildlife monitoring was very prominent during very positive discussions that were had.

On August 9, 2022, a Zoom meeting was held with the mayor of Arviat, the acting SAO and Colin Smith and Marina Carvalho (both representatives from ValOre) and Philo Schoeman (APEX, log in Appendix E).

Figure 19: Community Leader visit to Nutaaq Camp on August 8, 2022. The mayor, the chair and vice chair of the HTO as well as a representative of the Hamlet of Baker Lake with the VP of Exploration of ValOre inside the Nutaaq Camp core shack.

Regulatory Inspections

No regulatory inspections were conducted in 2022.

Regulatory Reporting

Environmental Considerations

Every contractor, employee or visitor arriving at Nutaaq Camp undergoes an orientation which includes information on health, safety and environmental responsibilities and stewardship as well as ValOre's internal policies and procedures which also includes the Terms and Conditions of the project's operational licences and permits. The orientation includes but is not limited to: radiation safety mitigation, spill response, bear safety, environmental policies (including waste management), wildlife mitigation measures and the caribou protection measures. Contractors, employees and visitors are asked to acknowledge that they have received the orientation and that they understand their individual responsibilities. Besides the operational permits and licences, all workplans and internal guidelines are on file with the Project Manager and are posted inside the Nutaaq Camp office such as:

- 2022 Emergency Response Plan
- 2022 Radiation Hazard Control Plan
- 2022 Spill Contingency Management Plan
- 2022 Fuel Management Plan

- 2022 Waste Management Plan
- 2022 Environmental and Wildlife Management Plan
- 2022 Abandonment and Restoration Plan

Water Consumption

Water quality and aquatic life are protected. Fishing is strictly prohibited. Water supply pumps and fuel are stored within secondary containment and all fuel is stored a minimum of 31 metres from any water body, on level ground and/or down gradient whenever possible. Waterlines for drilling and domestic use are properly placed to minimize disturbance to the shoreline and substrate and are fitted with intake screens in accordance with the "Freshwater Intake End-of-Pipe Screen Guideline" prepared by the Department of Fisheries and Oceans. A copy of this guideline document is kept at the Nutaaq Camp field office and at the head office in Vancouver.

No waste solids or liquids are allowed to enter water bodies. The Nutaaq Camp kitchen grey water is filtered through a grease trap, then drained through a series of perforated plastic containers buried behind the kitchen and dry. These were reconnected and refurbished once Nutaaq Camp was started up again during early 2022. Both installations were equipped with plywood covers to allow access for inspection and to prevent wildlife incursions. Both these areas are inspected daily for grey water release on surface.

Daily domestic water use was recorded for Nutaaq Camp by means of water meters registering volumes in cubic meters from the end of March to closure in mid September. Once diamond drilling started both drills were equipped with water meters and daily use recorded. Daily records can be found in Appendix I and monthly summaries are provided in Table 5 for Nutaaq Camp including the diamond drills and Table 6 provides monthly summaries for the Temporary Camp site, in use from April to June 2022.

Table 5: Monthly water use summaries for Nutaaq Camp and diamond drills. All volumes in cubic meters.

Camp	Month	Dry	Daily Avg	Kitchen	Daily Avg	Drill 1	Daily Avg	Drill 2	Daily Avg
Nutaaq Camp	March	0.3518	0.0586	0.8062	0.1344				
	April	23.345	0.7782	18.0301	0.6010				
	May	27.2080	0.8777	19.3211	0.6233				
	June	16.061	0.5354	15.2430	0.5081				
	July	14.079	0.4541	12.5950	0.4063	195.0000	6.2903		
	August	33.38	1.0768	32.6205	1.0523	1007.8804	32.5123	712.3402	22.9787
	September	12.755	0.9110	8.1628	0.5831	74.0000	37.0000	50.0000	25.0000

Table 6: Monthly water use summaries for the Temporary Camp. All volumes in cubic meters.

Camp	Month	Dry	Daily Avg	Kitchen	Daily Avg
Temporary Camp	April	3.0300	0.2164		
	May	16.6607	0.5374	1.6649	0.0537
	June	1.6828	0.2104	0.1615	0.0202

Waste Management

Nutaaq Camp has an A400X Inciner8 incinerator at the south end of the camp compound 25 metres south of the camp generator shed. All permittable combustible waste including food waste was incinerated daily. Incinerator ash was collected in 205 litre steel drums with locked lids. Filled ash drums are staged at the incinerator until removed from site. All food waste was stored such that it was not accessible to any wildlife prior to incineration.

Labelled containers were installed in the kitchen separating recyclable plastics and cans as produced and stored in bulk bags in a large wooden crate outside the kitchen to prevent attracting wildlife. Labelled containers were installed in the dry for: glass jars and fluorescent tubes, dead AA, AAA and all other small batteries as well as empty aerosol cans which forms part of the ValOre waste management plan developed for site which includes incineration guidelines and recording of combustible waste streams. ValOre does not incinerate items which lead to the release of dioxins, furans and mercury, thus complying with Canada Wide Standards. These guidelines were posted in the generator shed next to the incinerator for operator reference together with a blank sheet on a clipboard for recording weights as the incinerator is loaded and ash weights recorded when the incinerator is cleaned out.

During Spring Mobe 2022 backhauls on both airplanes were utilized to remove kitchen and camp garbage, plastics and recyclable items as shown in Table 7. The single turbo otter continued contributing to these backhauls during summer.

Table 7: Backhauls during Spring Mobe and Summer 2022: Nutaaq Camp to Baker Lake

Aircraft	Garbage bags (kitchen & camp)	Mega bags (kitchen & camp)	Mega bags (plastics & recyclables)
Single turbo otter	143		13
Basler DC-3		9	2

Subsequent backhauls from Baker Lake to Yellowknife on Electras, ATRs and Dash 7s enabled these loads to be delivered to KBL Environmental Ltd. in Yellowknife for proper disposal, Table 8 shows the volumes and types of garbage processed by KBL. A load of 28 historical drums of ash

was also included in these backhauls. Appendix J contains copies of invoices obtained from KBL Environmental Ltd. for the work completed.

Table 8: Backhauls during Spring Mobe and Summer 2022: Baker Lake to Yellowknife

Aircraft	Drums of ash (historical)	Mega bags (scrap metal)	Mega bags (kitchen & camp)	Mega bags (solids-oily debris)	Mega bags (plastics & recyclables)	Invoice
Electra ATR Dash 7	28 (7000 lbs)					OE60814
		2	22	1		OE61290
			4		1(crate)	OE70523

During the 2022 Spring and Summer field seasons, Nutaaq Camp was equipped with four Pacto units in a latrine building located adjacent to the dry/shower facility. The Pacto units collect human waste in durable, leak-proof bags which are then burned in the incinerator. Ash from the Pacto units is collected in resealable 205 litre drums staged outside the building.

Table 9 and 10 show summaries for incinerated waste for both Nutaaq Camp (March to September) and for Temporary Camp, while it was in use during April to June. Appendix K contains detailed incineration logs for waste incinerated for both camps and drills.

Table 9: 2022 Incinerator Summary for Nutaaq Camp

	Weight of material being incinerated					Ash
	Timber	Cardboard	Office	Kitchen	Pacto	
			(Paper products)	*(Food Waste)*	*(Sewage)*	
Month	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
April 2022	193	139	11	1068	727	0
May 2022	12	31	4	1562	402.5	122
June 2022	16	106	2	1035	314	42
July 2022	14	38.5	63	609.5	203	50
August 2022	0	26	12	866.5	230	55 est.
September 2022	0	5	18	458	174	25 est.

Table 10: Spring 2022 Incinerator Summary for Temporary Camp

	Weight of material being incinerated		
	Cardboard	Kitchen	Pacto
		(Food Waste)	*(Sewage)*
Month	*(kg)*	*(kg)*	*(kg)*
April 2022	24	69	35

May 2022	0	399	232
June 2022	55	94	39

Spill Reporting and Remediation Conducted

Spill File 2022-124: (Report and remediation photos in Appendix L)

During the early hours of April 8, 2022, a rental generator's vibration had loosened a diesel filter drain stop cock, which resulted in about 45 liters of P50 flowing out onto the generator shack floor. That portion of the floor was covered with spill matting and absorbed the largest part of the spill. From July 3 to the 5th and on the 8th, the Nutaaq Camp crew removed all the floorboards consisting of bent and diesel and motor oil impregnated boards. Hydrocarbon-stained sand was removed from underneath the generator positions and also from underneath the small berms containing the fuel tanks on the outside of the generator shack. Two 205 liter steel drums of contaminated sand was removed and is stored in the small waste berm, directly north of berm West A, ready to be transported to a licensed facility during Spring Mobe 2023 (Figure 20).

Figure 20: Nutaaq Camp Waste Berm (10 ft by 14 ft)

North of Berm West A (contaminated sand, kitchen grease, oily rags, etc.

Spill File 2022-399: (Report and remediation photos in Appendix L)

From approximately 04h00 to 06h00, on August 3, 2022, a wobble pump was left unattended while inserted into a flytank, next to a diamond drill at the Dipole prospect. An estimated 200 liters of P50 flowed out into a water filled depression. The dayshift drill crew and foreman acted quickly and deployed spill matting as well as absorbent sausages, containing the fuel very well. The next day spill absorbing material from 2 more spill kits were deployed and with daily refreshing of the spill matting until August 19, a steel drum with a lid, almost ¾ full, was collected and flown back to Nutaaq Camp, put into the small waste berm, directly north of berm West A, ready to be transported to a licensed facility during Spring Mobe 2023 (Figure 20).

Flight Summary

A Ken Borek Basler DC3 on wheel skis flew 81 flights from March 23 to May 4, 2022, from Baker Lake to an ice strip on Nutaaq Lake with Temporary Camp gear and lumber, a complete set of RC drill gear, drill pad construction material and 630 drums of Jet A and 586 drums of P50 diesel fuel. Backhauls consisted of 649 empty fuel drums and 9 mega bags of kitchen garbage and 2 mega bags of plastics. Detailed flight logs can be found in Appendix M.

A wheeled, single turbo otter operated by Ookpik Aviation Ltd. based in Baker Lake provided regular fixed wing flights into Nutaaq Camp during Spring onto an ice strip on Nutaaq Lake and during Summer to the Nutaaq gravel airstrip, 1.5 kilometres west of the Nutaaq Camp at 526450m E, 6938130m N, N83Z14 (62 34' 20'' N, 98 29' 10'' W). A total of 170 flights were undertaken from March 7 to September 15, 2022. Specific tasks involved, flying back the entire set of RC drill gear to Baker Lake during late June as well as all the Discovery Mining Services camp gear that was removed from the Temporary Camp site, also in late June. Detailed flight logs can be found in Appendix M.

The Spring and Summer 2022 exploration program and camp construction, as well as camp gear removal from Temporary Camp, was supported by an Astar B3 and an Astar B2 helicopter, contracted from Great Slave Helicopters out of Yellowknife. The B3 arrived in Nutaaq Camp on March 12 and stayed until closure on September 14, 2022. A B2 arrived in Nutaaq Camp on April 2 and departed on June, 16 after the conclusion of the RC drill program. A B2 arrived in Nutaaq Camp on July 23 to support the Summer exploration program and was replaced with another B2 on August 28, this replacement B2 departed on September 8 after conclusion of the diamond drilling program. Table 11 provides the hours flown per phase of the 2022 Spring and Summer programs. The helicopters primarily flew between Nutaaq Camp, Temporary Camp, the Dipole, Yat and J4 West drill targets and the soil sample grid at Dipole and the Lac 50 E soil grid which is in close proximity to Nutaaq Camp.

Table 11: Helicopter hours flown per program phase during 2022

Program Phase	Helicopter	Date (From)	Date (To)	Hours flown
Spring Mobe & Nutaaq and Temporary Camp Construction	Astar B3	12-Mar-22	21-Apr-22	58.1
	Astar B2	2-Apr-22	21-Apr-22	46.3
Spring RC Drilling and Temporary Camp Servicing	Astar B3	22-Apr-22	15-Jun-22	125.3
	Astar B2	22-Apr-22	16-Jun-22	203.2
RC Drill & Temporary Camp Demobe	Astar B3	16-Jun-22	11-Jul-22	37
Summer Program: Soils & Core Drilling	Astar B3	12-Jul-22	14-Sep-22	233.6
	Astar B2	23-Jul-22	8-Sep-22	245.7

Fuel Inventory

ValOre is currently authorized to cache 1,000 drums of fuel on the Angilak Property. To accommodate this fuel inventory the Company has installed six 15’ x 60’ x 18” fuel containment berms manufactured by Raymac Industries (Raymac) in British Columbia during 2010 (2 berms) and 2012 (4 berms). Each berm is equipped with a RainDrain hydrocarbon filter. All storage, fueling and staging areas are bermed (such as helicopter refueling stations and generator refueling stations) and have readily available emergency spill kits, a shovel and a fire extinguisher. Spill trays are located under all fuel drums behind tents and at drill sites. The fuel berms are located on a flat-topped gravel deposit directly adjacent to, and northwest of the Nutaaq Camp. The site offers an ideal smooth, sand covered, flat surface with no hazardous rocks or vegetation to perforate the berm membrane. The berms are lined with Spilfyter RailMat, a 3-ply hydrocarbon absorbent fabric from Pygmalion Environmental. Lengths of dimensional lumber were laid down upon the RailMat liner in a manner to support 4 rows of fuel drums stored horizontally. Within the berms, drums are positioned with bungs at 3 o’clock and 9 o’clock in two rows of two, running the full 60’ length of the berms so as the bungs and any leaks are visible for inspection at all times.

During Spring Mobe 2022, five, new 15’ x 60’ x 24” fuel containment berms (Super Chem Series 35mil) with covers (Yellow 18oz PVC), manufactured by Exploration Tents & Arctic Camp Supplies in Prince Albert, Saskatchewan, were installed (Figure 21 and 22). Three of the original berms, without covers, were picked up and used as covers to the remaining three original berms, thus effectively keeping rain and snow out of the three original berms.

At the beginning of the Spring Mobe 2022 program, the Angilak fuel berms contained 230 drums P50 diesel fuel, 180 drums of expired Jet A fuel, 3 drums of gasoline and 14 propane cylinders, left over from the 2020 site visit. An estimated 500 empty fuel drums were also present.

Nutaaq Camp Historical Fuel Testing

Results were received on April 5, 2022 for four Jet A fuel sample composites that were submitted to InnoTech Alberta in Edmonton, during the last weeks of March 2022. Both the batches of historical drums of Jet A stored in the Nutaaq fuel berms failed the tests and these drums were then blended with 2012 P50 diesel fuel to serve as tent fuel for the rest of 2022. On September 14, 2022, a total of 84 drums of failed 2012 Jet A were left over in berm East 3 (Table 12).

During Spring Mobe 2022, a Ken Borek DC3 on wheels skis, brought in 630 drums of Jet A and 586 drums of P50 from March 23 to May 4, 2022. The Ookpik Aviation Ltd. single turbo otter brought in 184 drums of Jet A and 369 drums of P50 throughout 2022.

Both airplanes removed a total of 1074 empty fuel drums during Spring and Summer as backhauls to Baker Lake. By the end of September 2022, all empty fuel drums in Baker Lake were tipped to remove all remaining fuel and 308 were crushed, stacked and strapped onto palettes ready for backhaul to either Yellowknife or Quebec for recycling.

At the conclusion of the Summer Exploration program on September 14, 2022, the Angilak fuel berms contained drums of fuel as shown in Table 12.

Table 12: Total fuel consumed and remaining on September 14, 2022

Fuel Type	Drums/Cylinders used during 2022	Drums/Cylinders remaining - Sept 14, 2022
P50 (2012)	228	2
P50 (2022)	349	633
Jet A (2022)	615	199
Jet A (expired 2012)	96	84
Gasoline	9	5
Propane	42	5

A total of 628 empty drums are present in all vacant positions in the berms to support the covers and prevent the ingress of rain and snow.

East Side

East A (new, 2022, with cover)

East 1 (new, 2022, with cover)

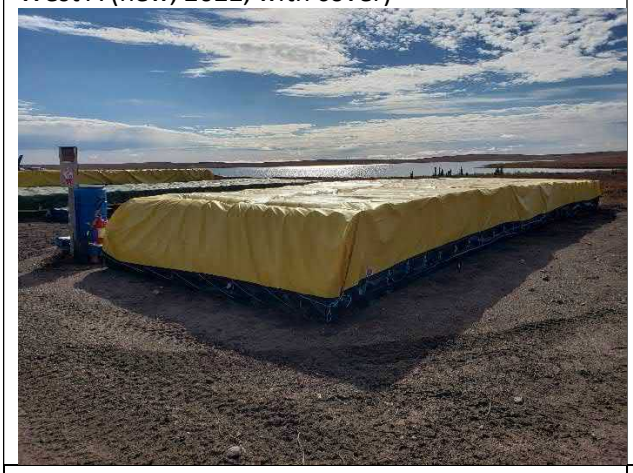
East 2 (old, 2012, capped with old 2012)

East 3 (old, 2012, capped with old 2012)

Figure 21: Nutaaq Camp Fuel Berms, East Side – September 14, 2022

West Side

West A (new, 2022, with cover)



West 1 (old, 2012, capped with old 2012)

West 2 (new, 2022, with cover)

West 3 (new, 2022, with cover)

Figure 22: Nutaaq Camp Fuel Berms, West Side – September 14, 2022

Socio-economic impacts and benefits

ValOre is in the early stages of exploration and evaluation. The company and its management have demonstrated a strong commitment to Nunavut with the creation of Kivalliq Energy, now Valore and its mandate to explore the Angilak Property in partnership with the Inuit. By entering into a uranium exploration agreement with NTI, if a production decision is realized, Nunavummiut have the option to participate directly in the project or to collect royalties. ValOre's agreement with NTI not only covers Inuit Owned Land, but also extends the same terms to a total 89,851.9 hectares that includes mineral claims held by ValOre on Crown lands.

During 2022, ValOre employed two Nunavummiut from Arviat in site service positions, one from Naujaat, eight from Baker Lake as well as five kitchen helpers from Baker Lake. Three RC sample assistants were sourced from Baker Lake and one from Naujaat. Five, dedicated wildlife

observers were employed from Baker Lake and three environmental baseline data recorders were also employed from Baker Lake.

During 2022 ValOre utilized northern businesses and services wherever available. Appendix N contains a list of contractors whose services were utilized.

2023 WORK PROGRAM

Planned exploration work for 2023 will be undertaken as 2 separate field programs. The spring program will comprise an airborne geophysics survey during the beginning of April. The 2023 summer program is anticipated to be completed between mid June to mid-September comprising diamond drilling, mapping, prospecting and lake sediment sampling. The summer program will include continued environmental baseline sampling, repairs to weather station, archeological studies and monitoring. All planned exploration activities for 2023 will follow the terms and conditions outlined in the authorizations issued by CIRNAC, KIA and the NWB.

Airborne Geophysical Surveying

Airborne geophysical surveying will be completed during the beginning of April. Radiometric surveys will be completed by a Cessna 182 fixed wing plane over the entire Angilak property, it is anticipated to take 11 fly-days.

Mapping, Prospecting and Sampling

Mapping and prospecting will be carried out during the summer program in areas of geological significance and prospective exploration potential. Rock and/or outcrop samples will be collected and submitted for geochemical assaying to assess mineralization content.

Lake bottom sediment will be collected from bodies of water regionally throughout the Property by means of pontooned helicopter access and a non-destructive, gravity-operated sampling tube. Radon and/or helium content of the gasses emitted from the sediments will be analyzed at site, and the samples will be subsequently sent of for multi-element assaying at a certified laboratory.

Drilling

During 2023, ValOre is planning to complete diamond drilling during the summer program. It is anticipated that approximately 30 core holes, of an average of 200 m (for a total of 6,000) will be drilled during the summer program. During the summer program, the drills will be moved via helicopter support only.

Figure 23 illustrates the 2023 High Priority Target areas.

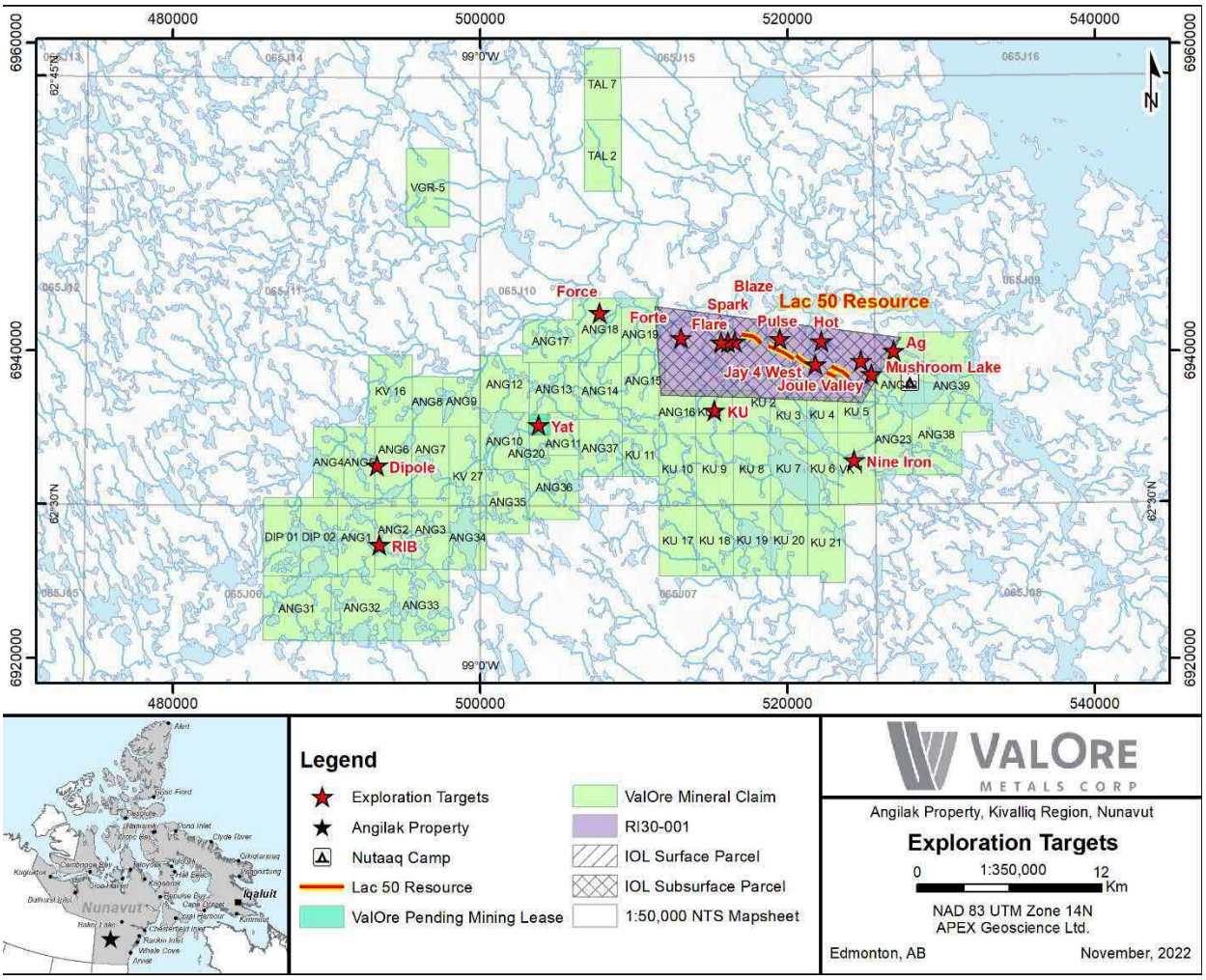


Figure 23: 2023 Exploration Targets

APPENDIX A

2022 Land Tenure

Claim Number	Tenure Type	Tenure Name	Record Date	Anniversary Date	Hectares	Owner
100039	Claim	DIP 01	8-Nov-21	8-Nov-24	1234.91	ValOre Metals Corp. (100%)
100040	Claim	DIP 02	8-Nov-21	8-Nov-24	1234.91	ValOre Metals Corp. (100%)
100041	Claim	KU 1	8-Nov-21	8-Nov-24	671.97	ValOre Metals Corp. (100%)
100042	Claim	KU 2	8-Nov-21	8-Nov-24	634.65	ValOre Metals Corp. (100%)
100043	Claim	KU 3	8-Nov-21	8-Nov-24	560.02	ValOre Metals Corp. (100%)
100044	Claim	KU 4	8-Nov-21	8-Nov-24	466.68	ValOre Metals Corp. (100%)
100045	Claim	KU 5	8-Nov-21	8-Nov-24	634.65	ValOre Metals Corp. (100%)
100046	Claim	KU 6	8-Nov-21	8-Nov-24	934.34	ValOre Metals Corp. (100%)
100047	Claim	KU 7	8-Nov-21	8-Nov-24	1121.20	ValOre Metals Corp. (100%)
100048	Claim	KU 8	8-Nov-21	8-Nov-24	1121.20	ValOre Metals Corp. (100%)
100049	Claim	KU 9	8-Nov-21	8-Nov-24	1121.20	ValOre Metals Corp. (100%)
100050	Claim	KU 10	8-Nov-21	8-Nov-24	1121.20	ValOre Metals Corp. (100%)
100051	Claim	KU 11	8-Nov-21	8-Nov-24	672.53	ValOre Metals Corp. (100%)
100122	Claim	KU 17	8-Nov-21	8-Nov-24	1122.73	ValOre Metals Corp. (100%)
100123	Claim	KU 18	8-Nov-21	8-Nov-24	1122.74	ValOre Metals Corp. (100%)
100124	Claim	KU 19	8-Nov-21	8-Nov-24	1122.74	ValOre Metals Corp. (100%)
100125	Claim	KU 20	8-Nov-21	8-Nov-24	1122.74	ValOre Metals Corp. (100%)
100121	Claim	KU 21	8-Nov-21	8-Nov-24	1197.65	ValOre Metals Corp. (100%)
101144	Claim	KV 16	3-Sep-21	3-Sep-27	1306.05	ValOre Metals Corp. (100%)
101429	Claim	KV 27	3-Sep-21	3-Sep-27	1121.15	ValOre Metals Corp. (100%)
100319	Claim	VK 1	13-Sep-21	13-Sep-23	1195.98	ValOre Metals Corp. (100%)
100320	Claim	TAL 2	1-Nov-21	1-Nov-23	1114.33	ValOre Metals Corp. (100%)
100321	Claim	TAL 7	1-Nov-21	1-Nov-23	1112.77	ValOre Metals Corp. (100%)
100322	Claim	VGR-5	18-May-21	18-May-24	1430.97	ValOre Metals Corp. (100%)
101511	Claim	ANG1	26-Oct-21	26-Oct-23	1234.91	ValOre Metals Corp. (100%)
101513	Claim	ANG2	26-Oct-21	26-Oct-23	1122.57	ValOre Metals Corp. (100%)
101514	Claim	ANG3	26-Oct-21	26-Oct-23	1122.57	ValOre Metals Corp. (100%)
101515	Claim	ANG4	26-Oct-21	26-Oct-23	934.20	ValOre Metals Corp. (100%)
102065	Claim	ANG5	26-Oct-21	26-Oct-23	934.20	ValOre Metals Corp. (100%)
102066	Claim	ANG6	26-Oct-21	26-Oct-23	1121.03	ValOre Metals Corp. (100%)
102067	Claim	ANG7	26-Oct-21	26-Oct-23	1121.03	ValOre Metals Corp. (100%)
102068	Claim	ANG8	26-Oct-21	26-Oct-23	653.17	ValOre Metals Corp. (100%)
102069	Claim	ANG9	26-Oct-21	26-Oct-23	802.45	ValOre Metals Corp. (100%)
101516	Claim	ANG10	26-Oct-21	26-Oct-23	1195.27	ValOre Metals Corp. (100%)
102070	Claim	ANG11	26-Oct-21	26-Oct-23	560.21	ValOre Metals Corp. (100%)
101517	Claim	ANG12	26-Oct-21	26-Oct-23	1175.29	ValOre Metals Corp. (100%)
102071	Claim	ANG13	26-Oct-21	26-Oct-23	1119.44	ValOre Metals Corp. (100%)
101518	Claim	ANG14	26-Oct-21	26-Oct-23	1044.84	ValOre Metals Corp. (100%)
102072	Claim	ANG15	26-Oct-21	26-Oct-23	1306.12	ValOre Metals Corp. (100%)
101519	Claim	ANG16	26-Oct-21	26-Oct-23	671.97	ValOre Metals Corp. (100%)
102073	Claim	ANG17	26-Oct-21	26-Oct-23	1006.53	ValOre Metals Corp. (100%)
101520	Claim	ANG18	26-Oct-21	26-Oct-23	1229.92	ValOre Metals Corp. (100%)
102074	Claim	ANG19	26-Oct-21	26-Oct-23	1006.32	ValOre Metals Corp. (100%)
102075	Claim	ANG20	26-Oct-21	26-Oct-23	168.10	ValOre Metals Corp. (100%)
101521	Claim	ANG22	26-Oct-21	26-Oct-23	1286.96	ValOre Metals Corp. (100%)
101522	Claim	ANG23	26-Oct-21	26-Oct-23	1120.59	ValOre Metals Corp. (100%)
102733	Claim	ANG31	19-Nov-21	19-Nov-23	1854.95	ValOre Metals Corp. (100%)
102734	Claim	ANG32	19-Nov-21	19-Nov-23	1742.48	ValOre Metals Corp. (100%)
102735	Claim	ANG33	19-Nov-21	19-Nov-23	1686.20	ValOre Metals Corp. (100%)
102736	Claim	ANG34	20-Nov-21	20-Nov-23	1010.38	ValOre Metals Corp. (100%)
102737	Claim	ANG35	20-Nov-21	20-Nov-23	1177.97	ValOre Metals Corp. (100%)
102738	Claim	ANG36	20-Nov-21	20-Nov-23	1345.89	ValOre Metals Corp. (100%)
102739	Claim	ANG37	20-Nov-21	20-Nov-23	1046.01	ValOre Metals Corp. (100%)
102802	Claim	ANG38	14-Feb-22	14-Feb-24	1867.50	ValOre Metals Corp. (100%)
102803	Claim	ANG39	14-Feb-22	14-Feb-24	1566.66	ValOre Metals Corp. (100%)
	Lease	L-6247	29-Aug-18	28-Aug-39	198.00	ValOre Metals Corp. (100%)
Total Mineral Tenure Area (ha)					59933.00	

APPENDIX B

2022 RC Drilling: Collar Table and Site Reclamation Photos

2022 Dipole RC Drill Hole Coordinates

Target Area	Drill Hole ID	X_E_N83Z14	Y_N_N83Z14	Azimuth (°)	Dip (°)	EOH (ft)	EOH (m)	Start	End
Dipole	RC22-DP-001	492959	6932246	135	-45	330	100.58	22-Apr-22	23-Apr-22
Dipole	RC22-DP-002	492959	6932246	135	-55	420	128.02	23-Apr-22	25-Apr-22
Dipole	RC22-DP-003	493028	6932314	135	-45	330	100.58	26-Apr-22	29-Apr-22
Dipole	RC22-DP-004	493028	6932314	135	-60	395	120.40	29-Apr-22	30-Apr-22
Dipole	RC22-DP-005	492920	6932216	135	-45	365	111.25	30-Apr-22	2-May-22
Dipole	RC22-DP-006	492920	6932216	135	-60	365	111.25	2-May-22	5-May-22
Dipole	RC22-DP-007	492920	6932216	135	-75	600	182.88	5-May-22	11-May-22
Dipole	RC22-DP-008	493142	6932410	135	-45	330	100.58	13-May-22	14-May-22
Dipole	RC22-DP-009	493142	6932410	135	-55	395	120.40	14-May-22	14-May-22
Dipole	RC22-DP-010	493253	6932515	135	-45	330	100.58	14-May-22	15-May-22
Dipole	RC22-DP-011	493253	6932515	135	-55	400	121.92	15-May-22	16-May-22
Dipole	RC22-DP-012	492778	6932072	135	-45	340	103.63	16-May-22	17-May-22
Dipole	RC22-DP-013	492778	6932072	135	-65	450	137.16	17-May-22	23-May-22
Dipole	RC22-DP-014	492870	6932204	135	-60	525	160.02	23-May-22	24-May-22
Dipole	RC22-DP-015	492870	6932204	135	-70	660	201.17	24-May-22	26-May-22
Dipole	RC22-DP-016	493840	6933058	135	-45	330	100.58	26-May-22	27-May-22
Dipole	RC22-DP-017	493840	6933058	135	-65	460	140.21	27-May-22	27-May-22

2022 Dipole RC Drill Site Reclamation Photos

RC22-DP-001, RC22-DP-002

RC22-DP-003, RC22-DP-004

RC22-DP-005, RC22-DP-006, RC22-DP-007

RC22-DP-008, RC22-DP-009 (Same Collar location as 22-DP-001 and 22-DP-002)

RC22-DP-010, 22RC-DP-011

RC22-DP-012, RC22-DP-013

RC22-DP-014, RC22-DP-015

RC22-DP-016, RC22-DP-017

2022 Yat RC Drill Hole Coordinates

Target Area	Drill Hole ID	X_E_N83Z14	Y_N_N83Z14	Azimuth (^{0})	Dip (^{0})	EOH (ft)	EOH (m)	Start	End
Yat	RC22-YAT-001	503870	6935121	135	-45	265	80.77	28-May-22	29-May-22
Yat	RC22-YAT-002	503859	6935107	135	-45	265	80.77	29-May-22	30-May-22
Yat	RC22-YAT-003	503859	6935107	135	-65	365	111.25	30-May-22	31-May-22
Yat	RC22-YAT-004	503870	6935121	135	-65	360	109.73	04-Jun-22	05-Jun-22

2022 Yat RC Drill Site Reclamation Photos

RC22-YAT-001, RC22-YAT-004

RC22-YAT-002, RC22-YAT-003

2022 Jay 4 West RC Drill Hole Coordinates

Target Area	Drill Hole ID	X_E_N83Z14	Y_N_N83Z14	Azimuth (°)	Dip (°)	EOH (ft)	EOH (m)	Start	End
J4West	RC22-J4W-001	521698	6939137	026	-45	360	109.73	06-Jun-22	07-Jun-22
J4West	RC22-J4W-002	521698	6939137	026	-65	425	129.54	07-Jun-22	08-Jun-22
J4West	RC22-J4W-003	521870	6939052	026	-45	265	80.77	08-Jun-22	11-Jun-22
J4West	RC22-J4W-004	521870	6939052	026	-65	360	109.73	10-Jun-22	11-Jun-22
J4West	RC22-J4W-005	522061	6938984	026	-45	265	109.73	11-Jun-22	12-Jun-22
J4West	RC22-J4W-006	522061	6938984	026	-65	430	131.06	13-Jun-22	14-Jun-22

2022 Jay 4 West RC Drill Site Reclamation Photos

RC22-J4W-001, RC22-J4W-002

RC22-J4W-003, RC22-J4W-004

RC22-J4W-005, RC22-J4W-006

APPENDIX C

2022 Soil Sampling Data

status	latitude	longitude	latitude	longitude	utm_zone	utm_eastii	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.5592429	-98.46889626	62.55924	-98.4689	14	527306.3	6936595	F545951	378			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Dark Brown	Matrix Supported Clasts,Clay Rich		<1 mm		Sub-Rounded	>10	3 out of 5		180	NW			
Regular Sample	62.55971105	-98.46894857	62.55971	-98.4689	14	527303.2	6936647	F545952	379			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Angular	>10	4 out of 5	Possible C horizon	180	N			
Regular Sample	62.56015416	-98.46898243	62.56015	-98.469	14	527301.1	6936697	F545953	380			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		181	S			
Regular Sample	62.56061457	-98.4690012	62.56061	-98.469	14	527299.7	6936748	F545954	381			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	A	10	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	5 out of 5		172	N			
Regular Sample	62.5610603	-98.46912391	62.56106	-98.4691	14	527292.9	6936798	F545955	382			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5	High sand content	176	S			
Regular Sample	62.56151513	-98.46926607	62.56152	-98.4693	14	527285.2	6936848	F545956	383			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	2 out of 5	Possible till	166	N			
Regular Sample	62.56191542	-98.46919164	62.56192	-98.4692	14	527288.7	6936893	F545957	384			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	20	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	4 out of 5		168	N			
Regular Sample	62.56238971	-98.46940923	62.56239	-98.4694	14	527277.1	6936946	F545958	385			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	7	Red Brown	Sandy,No Clasts					>10	4 out of 5	Silty sand	152	NE			
Regular Sample	62.56283417	-98.46942265	62.56283	-98.4694	14	527276	6936995	F545959	386			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	4 out of 5		163	N			
								F545960			22H																									
Regular Sample	62.56330257	-98.46947294	62.5633	-98.4695	14	527273	6937047	F545961	387			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		170	N			
Regular Sample	62.5637169	-98.46950982	62.56372	-98.4695	14	527270.7	6937093	F545962	388			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		177	W			
Regular Sample	62.56418358	-98.46961979	62.56418	-98.4696	14	527264.6	6937145	F545963	389			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		175	N			
Regular Sample	62.56462958	-98.46968178	62.56463	-98.4697	14	527261	6937195	F545964	390			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		184	N			
Regular Sample	62.56507585	-98.46976765	62.56508	-98.4698	14	527256.2	6937245	F545965	391			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		180	N			
Regular Sample	62.56551656	-98.4698119	62.56552	-98.4698	14	527253.5	6937294	F545966	392			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		170	N			
Regular Sample	62.56597678	-98.46989125	62.56598	-98.4699	14	527249	6937345	F545967	376			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	4 out of 5		180	E			
Regular Sample	62.56642392	-98.46997585	62.56642	-98.47	14	527244.2	6937395	F545968	377			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		145	NE			
Regular Sample	62.56687898	-98.47006336	62.56688	-98.4701	14	527239.3	6937445	F545969	395			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		178	NE			
Regular Sample	62.56732523	-98.47013678	62.56733	-98.4701	14	527235.1	6937495	F545970	396			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		170	N			
Regular Sample	62.56778569	-98.47017769	62.56779	-98.4702	14	527232.6	6937546	F545971	397			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		162	E			
Regular Sample	62.56824088	-98.47023468	62.56824	-98.4702	14	527229.3	6937597	F545972	398			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		176	N			
Regular Sample	62.56868742	-98.47032119	62.56869	-98.4703	14	527224.4	6937647	F545973	399			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		175	N			
Regular Sample	62.56913626	-98.47038019	62.56914	-98.4704	14	527221	6937697	F545974	400			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		180	N			
Regular Sample	62.5695987	-98.4704677	62.5696	-98.4705	14	527216.1	6937748	F545975	401			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		179	N			
Regular Sample	62.57046053	-98.47060047	62.57046	-98.4706	14	527208.4	6937844	F545976	403			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts		>10 mm		Sub-Angular	>10	1 out of 5	Frozen	186	S			
Regular Sample	62.57091652	-98.47065946	62.57092	-98.4707	14	527205	6937895	F545977	404			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Light Brown-Grey	Matrix Supported Clasts		>10 mm		Sub-Angular	>10	2 out of 5		176	SE			
Regular Sample	62.57135847	-98.47072586	62.57136	-98.4707	14	527201.2	6937944	F545978	405			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Light Brown-Grey	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5	On top of large regoli	177	S			
Regular Sample	62.57181466	-98.47079916	62.57181	-98.4708	14	527197	6937995	F545979	406			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Light Brown-Grey	Matrix Supported Clasts,Sandy,No Clasts					>10	2 out of 5		191	E			
								F545980			23b																									
Regular Sample	62.56530802	-98.48307359	62.56531	-98.4831	14	526572	6937265	F545981	324			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Clast Supported		>10 mm		Sub-Angular	>10	1 out of 5	Possible till	176	SE			
Regular Sample	62.56487878	-98.48350902	62.56488	-98.4835	14	526550	6937217	F545982	323			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		steep	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5	Possible till	172	SW			
Regular Sample	62.56444953	-98.48394444	62.56445	-98.4839	14	526528	6937169	F545983	322			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra			till	gentle	Dry	B	5	Brown	Clast Supported,Sandy		>10 mm		Sub-Rounded	>10	1 out of 5	Till	160	NE			
Regular Sample	62.56434486	-98.48793391	62.56434	-98.4879	14	526323	6937156	F545984	295			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		steep	Dry	B	10	Red Brown	Clast Supported,Gravely		>10 mm		Sub-Angular	>10	1 out of 5	Till	180	E			
Regular Sample	62.56474991	-98.48751873	62.56475	-98.4875	14	526344	6937201	F545985	296			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra			till	moderate	Dry	B	10	Red Brown	Clast Supported,Gravely		>10 mm		Sub-Angular	>10	3 out of 5	Till	161	S			
Regular Sample	62.56517916	-98.48708335	62.56518	-98.4871	14	526366	6937249	F545986	297			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	A	10	Red Brown	Clast Supported,Gravely		>10 mm		Sub-Angular	>10	3 out of 5	Till	180	SE			
Regular Sample	62.56561326	-98.4866317	62.56561	-98.4866	14	526388.8	6937298	F545987	298			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		>10 mm		Sub-Angular	>10	3 out of 5	Till	160	E			
Regular Sample	62.56605644	-98.48623306	62.56606	-98.4862	14	526408.9	6937347	F545988	299			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Clast Supported,Sandy,Gravely		>10 mm		Sub-Rounded	>10	3 out of 5	Till	190	SE			
Regular Sample	62.56647721	-98.48577809	62.56648	-98.4858	14	526431.9	6937394	F545989	300			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		moderate	Dry	B	20	Red Brown	Clast Supported,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5	Till	151	NE			
Regular Sample	62.56590872	-98.49022242	62.56591	-98.4902	14	526204	6937329	F545990	278			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	20	Brown	Clast Supported,Sandy,Gravely		>10 mm		Sub-Angular	>10	3 out of 5	Till	175	NW			
Regular Sample	62.56636847	-98.4897957	62.56637	-98.4898	14	526225.5	6937380	F545991	279			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	15	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		152	E			
Regular Sample	62.56677395	-98.48931659	62.56677	-98.4893	14	526249.8	6937426	F545992	280			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		170	NW			
Regular Sample	62.56690941	-98.48532043	62.56691	-98.4853	14	526455.1	6937442	F545993	301			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Red Brown	Clast Supported,Sandy,Gravely		1-10 mm		Sub-Angular	>10	4 out of 5		171	N			
Regular Sample	62.56734494	-98.48533398	62.56734	-98.4853	14	526454	6937491	F545994	302			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	25	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Rounded	>10	4 out of 5		173	NW			
Regular Sample	62.56780036	-98.48531038	62.5678	-98.4853	14	526454.8	6937542	F545995	303			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Brown	No Clasts,Clay Rich					>10	4 out of 5		144	N			
Regular Sample	62.56826003	-98.48532043	62.56826	-98.4853	14	526453.9	6937593	F545996	304			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Light Brown	No Clasts,Clay Rich					>10	4 out of 5		145	NW			
Regular Sample	62.56915789	-98.48531473	62.56916	-98.4853	14	526453.4	6937693	F545997	306			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		171	E			
Regular Sample	62.56959962	-98.4853268	62.5696	-98.4853	14	526452.4	6937742	F545998	307			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		151	W			
Duplicate Parent	62.57003758	-98.48528744	62.57004	-98.4853	14	526454	6937791	F545999	308			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Sandy,No Clasts					>10	4 out of 5		166	E			
Duplicate Sample	62.5700225	-98.485294	62.57002	-98.4853	14	526453.7	6937789	F546000	308	F545999		7/17/2022	Chase McKay																							
Regular Sample	62.57240588	-98.46681688	62.57241	-98.4668	14	527401.1	6938063	F546001	427			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		170	E			
Regular Sample	62.57283043	-98.46687488	62.57283	-98.4669	14	527397.7	6938110	F546002	428			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	30	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		175	N			
Regular Sample	62.57197346	-98.46670926	62.57197	-98.4667	14	527407	6938014	F546003	426			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		171	SW			
Regular Sample	62.57152061	-98.46664033	62.57152	-98.4666	14	527411	6937964	F546004	425			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	30	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		168	S			
Regular Sample	62.57113854	-98.46655335	62.57114	-98.4666	14	527415.8	6937921	F546005	424			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	35	Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	3 out of 5		165	S			
Regular Sample	62.57061204	-98.46642226	62.57061	-98.4664	14	527423	6937863	F546006	423			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	25	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		175	N			
Regular Sample	62.57020522	-98.46634313	62.57021	-98.4663	14	527427.5	6937818	F546007	422			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	40	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		188	N			
Regular Sample	62.56972433	-98.46636119	62.56972	-98.4664	14	527427	6937764	F546008	421			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		185	N			
Regular Sample	62.56931806	-98.46628949	62.56932	-98.4663	14	527431.1	6937719	F546009	420			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		181	W			
Regular Sample	62.56882619	-98.46622163	62.56883	-98.4662	14	527435	6937664	F546010	419			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Dry	B	7	Brown	Matrix Supported Clasts,Sandy					>10	4 out of 5		190	N			
Regular Sample	62.56838731	-98.46608732	62.56839	-98.4661	14	527442.3	6937615	F546011	418			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	15	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	4 out of 5		190	E			
Regular Sample	62.56790972	-98.46607491	62.56791	-98.4661	14	527443.4	6937562	F546012	417			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		176	E			
Regular Sample	62.56745792	-98.46598975	62.56746	-98.466	14	527448.2	6937512	F546013	416			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		196	N			
Regular Sample	62.56702991	-98.46594254	62.56703	-98.4659	14	527451	6937464	F546014	415			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		185	NE			
Regular Sample	62.56656727	-98.46592706	62.56657	-98.4659	14	527452.2	6937412	F546015	414			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5	With relatively large	175	NE			
Regular Sample	62.56613862	-98.46583318	62.56614	-98.4658	14	527457.4	6937365	F546016	413			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	11	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		180	NE			
Regular Sample	62.56565806	-98.46572924	62.56566	-98.4657	14	527463.2	6937311	F546017	412			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		177	N			
Regular Sample	62.56522831	-98.46569505	62.56523	-98.4657	14	527465.4	6937263	F546018	411			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		170	N			
Regular Sample	62.56481339	-98.46563336	62.56481	-98.4656	14	527468.9	6937217	F546019	410			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	4 out of 5	Fulcrum app says dup	176	NE			
								F546020			22H																									
Regular Sample	62.56432169	-98.46559815	62.56432	-98.4656	14	527471.2	6937162	F546021	409			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		183	E			
Regular Sample	62.56392174	-98.46541174	62.56392	-98.4654	14	527481.2	6937118	F546022	408			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		180	W			
Regular Sample	62.56343736	-98.46538446	62.56344	-98.4654	14	527483	6937064	F546023	407			7/16/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy	silty	1-10 mm		Sub-Angular	>10	2 out of 5	Encountered water ta	176	N			
Regular Sample	62.56346213	-98.48882477	62.56346	-98.4888	14	526278	6937057	F546024	293			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	10	Brown	Matrix Supported Clasts,Sandy,Gravely		>10 mm		Sub-Angular	>10	2 out of 5		168	N			
Regular Sample	62.56303006	-98.48922506	62.56303	-98.4892	14	526257.8	6937009	F546025	292			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		167	N			
Regular Sample	62.56174508	-98.49056599	62.56175	-98.4906	14	526190	6936865	F546026	289			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		178	N			
Regular Sample	62.56087475	-98.4914181	62.56087	-98.4914	14	526147	6936768	F546027	287			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	5	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	4 out of 5		190	N			
Regular Sample	62.56044339	-98.49180166	62.56044	-98.4918	14	526127.6	6936719	F546028	286			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		180	W			
Regular Sample	62.56005003	-98.49220969	62.56005	-98.4922	14	526107	6936675	F546029	285			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		170	E			
Regular Sample	62.55960336	-98.49276826	62.5596	-98.4928	14	526078.7	6936626	F546030	284			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	4	Orange Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	>10	4 out of 5		175	E			
Regular Sample	62.55918172	-98.49318668	62.55918	-98.4932	14	526057.5	6936578	F546031	283			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		181	SW			
Regular Sample	62.55870846	-98.49345457	62.55871	-98.4935	14	526044.2	6936526	F546032	282			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Orange Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		182	N			
Regular Sample	62.56623995	-98.50537162	62.56624	-98.5054	14	525425	6937360	F546033	225			7/17/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		135	N			
Regular Sample	62.57514069	-98.51177037	62.57514	-98.5118	14	525088.6	6938349	F546034	150			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Black Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		167	E			
Regular Sample	62.5746856	-98.51229306	62.57469	-98.5123	14	525062.1	6938298	F546035	149			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Moist	B	25	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		167	E			
Regular Sample	62.57433829	-98.51263739	62.57434	-98.5126	14	525044.7	6938259	F546036	148			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		177	W			
Regular Sample	62.57389014	-98.51307493	62.57389	-98.5131	14	525022.6	6938209	F546037	147			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	20	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	S			
Regular Sample	62.57344184	-98.51354201	62.57344	-98.5135	14	524999	6938159	F546038	146			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Outcrop		steep	Dry	B	25	Light Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		159	E			
Regular Sample	62.5730125	-98.51397712	62.57301	-98.514	14	524977	6938111	F546039	145			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Swampy Forest		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		168	S			
								F546040			23b																									
Regular Sample	62.57255677	-98.51435233	62.57256	-98.5144	14	524958.1	6938060	F546041	144			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		156	N			
Regular Sample	62.57215382	-98.51484731	62.57215	-98.5148	14	524933	6938015	F546042	143			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		162	N			
Regular Sample	62.57129623	-98.51566628	62.5713	-98.5157	14	524891.6	6937919	F546043	141			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Black Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		169	E			
Regular Sample	62.57043645	-98.51658754	62.57044	-98.5166	14	524845	6937823	F546044	139			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Orange	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		181	S			
Regular Sample	62.5700071	-98.51702257	62.57001	-98.517	14	524823	6937775	F546045	138			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		145	SE			
Regular Sample	62.56914841	-98.51789258	62.56915	-98.5179	14	524779	6937679	F546046	136			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		171	S			
Regular Sample	62.56871906	-98.51832757	62.56872	-98.5183	14	524757	6937631	F546047	135			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		157	E			
Regular Sample	62.56831456	-98.51880848	62.56831	-98.5188	14	524732.6	6937586	F546048	134			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Forest		flat	Wet	B	10	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		150	S			
Regular Sample	62.56786035	-98.51919751	62.56786	-98.5192	14	524713	6937535	F546049	133			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		172	S			
Regular Sample	62.56738949	-98.51970166	62.56739	-98.5197	14	524687.5	6937482	F546050	132			7/18/2022	Gianna De Ver	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Regular Sample	62.5733677	-98.46494906	62.57337	-98.4649	14	527496.2	6938171	F546051	445			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	30	Light Brown-Grey	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		182	N			
Regular Sample	62.57297174	-98.46491016	62.57297	-98.4649	14	527498.6	6938126	F546052	444			7/15/2022	Chase McKay	Unlikely Disturbed		Tundra	Plains		flat	Wet	B	30	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		190	N			
Regular Sample	62.57204666	-98.46475828	62.57205	-98.4648	14	527507.2	6938023	F546053	442			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	35	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		168	N			
Regular Sample	62.5715855	-98.46469693	62.57159	-98.4647	14	527510.8	6937972	F546054	441			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	45	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		170	N			
Regular Sample	62.57114194	-98.46461445	62.57114	-98.4646	14	527515.5	6937923	F546055	440			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	40	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		172	N			
Regular Sample	62.57025403	-98.46455343	62.57025	-98.4646	14	527519.4	6937824	F546056	438			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	35	Brown	Matrix Supported Clasts					>10	3 out of 5		164	N			
Regular Sample	62.56985586	-98.46441228	62.56986	-98.4644	14	527527	6937779	F546057	437			7/15/2022	Chase McKay	Unlikely Disturbed		tundra		tundra	flat	Wet	B	25	Light Grey	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		170	W			
Regular Sample	62.56934663	-98.46432846	62.56935	-98.4643	14	527531.8	6937723	F546058	436			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	35	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		190	E			
Duplicate Parent	62.57171786	-98.47486116	62.57172	-98.4749	14	526988.3	6937983	F546059	375			7/16/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		167	W			
Duplicate Sample	62.57165	-98.4748533	62.57165	-98.4749	14	526988.8	6937975	F546060	375	F546059		7/16/2022	Kiana Froese																							
Regular Sample	62.57120665	-98.47475857	62.57121	-98.4748	14	526994.1	6937926	F546061	374			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		168	W			

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.57076062	-98.47470559	62.57076	-98.4747	14	526997.2	6937876	F546062	373			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		164	W			
Regular Sample	62.57030994	-98.47461272	62.57031	-98.4746	14	527002.4	6937826	F546063	372			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		181	E			
Regular Sample	62.56986729	-98.47453158	62.56987	-98.4745	14	527007	6937776	F546064	371			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		172	E			
Regular Sample	62.56941366	-98.47448699	62.56941	-98.4745	14	527009.7	6937726	F546065	370			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		155	W			
Regular Sample	62.56896884	-98.47439647	62.56897	-98.4744	14	527014.7	6937676	F546066	369			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	W			
Regular Sample	62.56852755	-98.47432975	62.56853	-98.4743	14	527018.5	6937627	F546067	368			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		175	N			
Regular Sample	62.56806603	-98.4742523	62.56807	-98.4743	14	527022.9	6937576	F546068	367			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		178	E			
Regular Sample	62.56762412	-98.47422615	62.56762	-98.4742	14	527024.7	6937527	F546069	366			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		180	E			
Regular Sample	62.56716722	-98.47414937	62.56717	-98.4741	14	527029	6937476	F546070	365			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		183	W			
Regular Sample	62.56672699	-98.47402263	62.56673	-98.474	14	527036	6937427	F546071	364			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		192	NE			
Regular Sample	62.56626513	-98.47399581	62.56627	-98.474	14	527037.8	6937375	F546072	363			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		190	W			
Regular Sample	62.56582674	-98.47389456	62.56583	-98.4739	14	527043.4	6937327	F546073	362			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	15	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		187	W			
Regular Sample	62.56537197	-98.47383823	62.56537	-98.4738	14	527046.7	6937276	F546074	361			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		184	W			
Regular Sample	62.56492956	-98.47378258	62.56493	-98.4738	14	527049.9	6937227	F546075	360			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Brown	Sandy					1 to 10	3 out of 5		178	E			
Regular Sample	62.56447987	-98.47369742	62.56448	-98.4737	14	527054.7	6937177	F546076	359			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Brown	Sandy					1 to 10	3 out of 5		188	W			
Regular Sample	62.56358512	-98.47350866	62.56359	-98.4735	14	527065.2	6937077	F546077	358			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Brown	Sandy					1 to 10	2 out of 5		175	E			
Regular Sample	62.56312705	-98.47350181	62.56313	-98.4735	14	527066	6937026	F546078	357			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Sandy					1 to 10	2 out of 5		180	E			
Regular Sample	62.56268586	-98.47345602	62.56269	-98.4735	14	527068.8	6936977	F546079	356			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Dark Brown	Clay Rich					1 to 10	2 out of 5			W			
								F546080			22H																									
Regular Sample	62.56223815	-98.47337991	62.56224	-98.4734	14	527073.1	6936927	F546081	355			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Sandy					1 to 10	2 out of 5		178	E			
Regular Sample	62.5636069	-98.48482154	62.56361	-98.4848	14	526483.7	6937075	F546082	320			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Orange Brown	Clay Rich					1 to 10	3 out of 5		173	S			
Regular Sample	62.5640152	-98.48439205	62.56402	-98.4844	14	526505.4	6937120	F546083	321			7/16/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	45	Dark Brown	Clay Rich					1 to 10	3 out of 5		161	W			
Regular Sample	62.5575864	-98.49088702	62.55759	-98.4909	14	526177.1	6936402	F546084	309			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	A	25	Red	Sandy					1 to 10	2 out of 5		180	W			
Regular Sample	62.55801718	-98.49046726	62.55802	-98.4905	14	526198.4	6936450	F546085	310			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Red Brown	Sandy					1 to 10	2 out of 5		178	E			
Regular Sample	62.55930239	-98.48917779	62.5593	-98.4892	14	526263.5	6936593	F546086	313			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	10	Red Brown	Gravely					1 to 10	2 out of 5	need to filter outbigr	187	S			
Regular Sample	62.55972186	-98.48872483	62.55972	-98.4887	14	526286.4	6936640	F546087	314			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	10	Red Brown	Fluvial?					1 to 10	2 out of 5		170	N			
Regular Sample	62.56017749	-98.48828126	62.56018	-98.4883	14	526308.8	6936691	F546088	315			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	5	Light Brown	Fluvial?					1 to 10	2 out of 5		177	W			
Regular Sample	62.56058553	-98.48782293	62.56059	-98.4878	14	526332	6936737	F546089	316			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	A	10	Red Brown	Fluvial?					1 to 10	2 out of 5		172	W			
Regular Sample	62.56101657	-98.48741725	62.56102	-98.4874	14	526352.5	6936785	F546090	317			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Red Brown	Gravely					1 to 10	1 out of 5		190	E			
Regular Sample	62.56187154	-98.48655492	62.56187	-98.4866	14	526396.1	6936881	F546091	319			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Matrix Supported Clasts,Clast Supported		1-10 mm		Sub-Angular	1 to 10	1 out of 5		179	N			
Regular Sample	62.5614816	-98.49856082	62.56148	-98.4986	14	525779.2	6936832	F546092	265			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		165	W			
Regular Sample	62.56105721	-98.49900439	62.56106	-98.499	14	525756.8	6936785	F546093	264			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	20	Red Brown	Sandy					1 to 10	2 out of 5		190	W			
Regular Sample	62.56062183	-98.49940337	62.56062	-98.4994	14	525736.6	6936736	F546094	263			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Sandy					1 to 10	3 out of 5		180	W			
Regular Sample	62.56048016	-98.50344077	62.56048	-98.5034	14	525529.2	6936719	F546095	254			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		192	W			
Regular Sample	62.56091414	-98.50299887	62.56091	-98.503	14	525551.5	6936767	F546096	255			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	38	Light Brown	Clay Rich					1 to 10	2 out of 5		175	S			
Regular Sample	62.56136496	-98.50257508	62.56136	-98.5026	14	525572.9	6936818	F546097	256			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Red Brown	Sandy					1 to 10	2 out of 5		160	E			
Regular Sample	62.561779	-98.50215632	62.56178	-98.5022	14	525594.1	6936864	F546098	257			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	A	40	Red	Sandy		1-10 mm			1 to 10	2 out of 5		166	W			
Regular Sample	62.56221143	-98.50171007	62.56221	-98.5017	14	525616.7	6936912	F546099	258			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Red Brown	Sandy					1 to 10	2 out of 5		170	E			
								F546100			23b																									
Regular Sample	62.57248928	-98.46480723	62.57249	-98.4648	14	527504.3	6938073	F546101	443			7/15/2022	Chase McKay	Unlikely Disturbed		tundra	Plains		flat	Wet	B	25	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		156	S			
Regular Sample	62.56843252	-98.46420525	62.56843	-98.4642	14	527539	6937621	F546102	434			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	3 out of 5		183	N			
Regular Sample	62.56798344	-98.4641355	62.56798	-98.4641	14	527543	6937571	F546103	433			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	16	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		190	N			
Regular Sample	62.56753437	-98.46406576	62.56753	-98.4641	14	527547	6937521	F546104	432			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		191	N			
Regular Sample	62.5670853	-98.46399602	62.56709	-98.464	14	527551	6937471	F546105	431			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	32	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		162	W			
Regular Sample	62.56663623	-98.46392628	62.56664	-98.4639	14	527555	6937421	F546106	430			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	24	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		182	W			
Regular Sample	62.56618716	-98.46385654	62.56619	-98.4639	14	527559	6937371	F546107	429			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Grey	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		170	N			
Regular Sample	62.57081575	-98.47968963	62.57082	-98.4797	14	526741	6937880	F546108	352			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	3 out of 5		171	N			
Regular Sample	62.56946878	-98.47953805	62.56947	-98.4795	14	526750	6937730	F546109	349			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	3 out of 5		142	N			
Regular Sample	62.5685708	-98.47943701	62.56857	-98.4794	14	526756	6937630	F546110	347			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Red Brown	Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		180	N			
Regular Sample	62.56722382	-98.47928545	62.56722	-98.4793	14	526765	6937480	F546111	344			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	19	Brown	Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		180	N			
Regular Sample	62.56677483	-98.47923494	62.56677	-98.4792	14	526768	6937430	F546112	343			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	33	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5			N			
Regular Sample	62.56632584	-98.47918442	62.56633	-98.4792	14	526771	6937380	F546113	342			7/16/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		182	N			
Regular Sample	62.57238078	-98.49526817	62.57238	-98.4953	14	525939	6938048	F546114	252			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	11	Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		161	N			
Regular Sample	62.5719515	-98.49570353	62.57195	-98.4957	14	525917	6938000	F546115	251			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	25	Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		174	S			
Regular Sample	62.57152222	-98.49613888	62.57152	-98.4961	14	525895	6937952	F546116	250			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	22	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		182	S			
Regular Sample	62.57109294	-98.49657422	62.57109	-98.4966	14	525873	6937904	F546117	249			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	20	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		180	S			
Regular Sample	62.57066365	-98.49700954	62.57066	-98.497	14	525851	6937856	F546118	248			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	16	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		170	S			
Duplicate Parent	62.5689465	-98.49875072	62.56895	-98.4988	14	525763	6937664	F546119	244			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	17	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		170	S			
Duplicate Sample	62.5689218	-98.4987454	62.56892	-98.4987	14	525763.3	6937661	F546120	244	F546119		7/17/2022	Zach Buehler																							
Regular Sample	62.56851721	-98.49918598	62.56852	-98.4992	14	525741	6937616	F546121	243			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	12	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		168	N			
Regular Sample	62.56808792	-98.49962123	62.56809	-98.4996	14	525719	6937568	F546122	242			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	28	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		168	S			
Regular Sample	62.56765863	-98.50005646	62.56766	-98.5001	14	525697	6937520	f546123	241			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	15	Dark Brown	Clay Rich		1-10 mm		Sub-Angular	>10	1 out of 5		182	N			
Regular Sample	62.56722933	-98.50049169	62.56723	-98.5005	14	525675	6937472	F546124	240			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	30	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		158	N			
Regular Sample	62.56422422	-98.5035379	62.56422	-98.5035	14	525521	6937136	F546125	239			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	17	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		161	S			
Regular Sample	62.56379492	-98.50397302	62.56379	-98.504	14	525499	6937088	F546126	238			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	14	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		167	N			
Regular Sample	62.56336561	-98.50440813	62.56337	-98.5044	14	525477	6937040	F546127	237			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		151	N			
Regular Sample	62.5629363	-98.50484323	62.56294	-98.5048	14	525455	6936992	F546128	236			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	33	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	N			
Regular Sample	62.56250699	-98.50527832	62.56251	-98.5053	14	525433	6936944	F546129	235			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	26	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		140	N			
Regular Sample	62.56207768	-98.50571339	62.56208	-98.5057	14	525411	6936896	F546130	234			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	31	Light Brown	Clast Supported		1-10 mm		Sub-Angular	>10	3 out of 5		181	S			
Regular Sample	62.56164836	-98.50614845	62.56165	-98.5061	14	525389	6936848	F546131	233			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	33	Light Brown	Clast Supported		1-10 mm		Sub-Angular	>10	3 out of 5		177	N			
Regular Sample	62.56121905	-98.5065835	62.56122	-98.5066	14	525367	6936800	F546132	232			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Clast Supported,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		150	N			
Regular Sample	62.5619481	-98.50970317	62.56195	-98.5097	14	525206	6936880	F546133	215			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	26	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		148	N			
Regular Sample	62.56237742	-98.50926816	62.56238	-98.5093	14	525228	6936928	F546134	216			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Light Brown	Clast Supported		1-10 mm		Sub-Angular	>10	3 out of 5		170	N			
Regular Sample	62.56280675	-98.50883313	62.56281	-98.5088	14	525250	6936976	F546135	217			7/17/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	31	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	3 out of 5		183	N			
Regular Sample	62.57212218	-98.50327001	62.57212	-98.5033	14	525528	6938016	F546136	209			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	31	Dark Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		153	S			
Regular Sample	62.57169288	-98.50370525	62.57169	-98.5037	14	525506	6937968	F546137	208			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		152	S			
Regular Sample	62.57126357	-98.50414048	62.57126	-98.5041	14	525484	6937920	F546138	207			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		155	S			
Regular Sample	62.57083426	-98.5045757	62.57083	-98.5046	14	525462	6937872	F546139	206			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	23	Light Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		170	S			
								F546140			22H																									
Regular Sample	62.57040495	-98.50501091	62.5704	-98.505	14	525440	6937824	F546141	205			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	27	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		168	S			
Regular Sample	62.56997564	-98.5054461	62.56998	-98.5054	14	525418	6937776	F546142	204			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Light Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		169	S			
Regular Sample	62.56954633	-98.50588128	62.56955	-98.5059	14	525396	6937728	F546143	203			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	13	Light Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Regular Sample	62.56911702	-98.50631645	62.56912	-98.5063	14	525374	6937680	F546144	202			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		163	S			
Regular Sample	62.5686877	-98.5067516	62.56869	-98.5068	14	525352	6937632	F546145	201			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	33	Brown	Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		170	S			
Regular Sample	62.56825839	-98.50718674	62.56826	-98.5072	14	525330	6937584	F546146	200			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		154	S			
Regular Sample	62.56782907	-98.50762187	62.56783	-98.5076	14	525308	6937536	F546147	199			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Clast Supported	swamp mud	1-10 mm		Sub-Angular	>10	1 out of 5		169	S			
Regular Sample	62.56739975	-98.50805699	62.5674	-98.5081	14	525286	6937488	F546148	198			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	41	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	1 out of 5		163	S			
Regular Sample	62.56697043	-98.5084921	62.56697	-98.5085	14	525264	6937440	F546149	197			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	28	Dark Brown	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		145	S			
Regular Sample	62.56654111	-98.50892719	62.56654	-98.5089	14	525242	6937392	F546150	196			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	42	Light Brown-Grey	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		157	S			
Regular Sample	62.56262468	-98.50123666	62.56262	-98.5012	14	525640.7	6936959	F546151	259			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Red Brown	Sandy					1 to 10	2 out of 5		170	N			
Regular Sample	62.56308475	-98.50084674	62.56308	-98.5008	14	525660.3	6937010	F546152	260			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Orange Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		155	E			
Regular Sample	62.56882241	-98.50273367	62.56882	-98.5027	14	525558.4	6937649	F546153	231			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	7	Red Brown	Clast Supported		1-10 mm		Sub-Angular	1 to 10	2 out of 5		160	N			
Regular Sample	62.56841959	-98.50323558	62.56842	-98.5032	14	525532.9	6937604	F546154	230			7/17/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	15	Red Brown	Clast Supported		1-10 mm		Sub-Angular	1 to 10	2 out of 5		175	E			
Regular Sample	62.57412966	-98.5050692	62.57413	-98.5051	14	525433.8	6938239	F546155	184			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		gentle	Moist	B	15	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		190	W			
Regular Sample	62.57371224	-98.50553859	62.57371	-98.5055	14	525410.1	6938192	F546156	183			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		gentle	Moist	B	30	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	1 out of 5		161	W			
Regular Sample	62.57325775	-98.50596707	62.57326	-98.506	14	525388.4	6938141	F546157	182			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		flat	Dry	B	5	Red Brown	Sandy					1 to 10	2 out of 5		152	S			
Regular Sample	62.57285514	-98.50641467	62.57286	-98.5064	14	525365.8	6938096	F546158	181			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		gentle	Dry	B	15	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		180	N			
Regular Sample	62.57242303	-98.50687198	62.57242	-98.5069	14	525342.6	6938048	F546159	180			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		flat	Dry	B	15	Light Brown	Clast Supported,Gravely					1 to 10	2 out of 5		162	N			
								F546160			23b																									
Regular Sample	62.57200125	-98.50731589	62.572	-98.5073	14	525320.2	6938001	F546161	179			7/18/2022	Kiana Froese	Likely Disturbed	Tundra		Plains		moderate	Dry	B	5	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		151	E			
Regular Sample	62.57156851	-98.50768905	62.57157	-98.5077	14	525301.4	6937953	F546162	178			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		160	S			
Regular Sample	62.57112341	-98.50813095	62.57112	-98.5081	14	525279	6937903	F546163	177			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	15	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	W			
Regular Sample	62.57070316	-98.50858256	62.5707	-98.5086	14	525256.2	6937856	F546164	176			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		moderate	Dry	A	15	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		163	E			
Regular Sample	62.56984582	-98.5094402	62.56985	-98.5094	14	525212.8	6937760	F546165	174			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		170	W			
Regular Sample	62.56896389	-98.51034477	62.56896	-98.5103	14	525167.1	6937661	F546166	172			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		174	S			
Regular Sample	62.56856246	-98.51073001	62.56856	-98.5107	14	525147.6	6937616	F546167	171			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Sub-Angular	1 to 10	3 out of 5		160	S			
Regular Sample	62.56812133	-98.51120375	62.56812	-98.5112	14	525123.6	6937567	F546168	170			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Light Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		150	S			
Regular Sample	62.56769069	-98.51160642	62.56769	-98.5116	14	525103.3	6937519	F546169	169			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Sandy					1 to 10	2 out of 5		168	E			
Regular Sample	62.56728106	-98.51207245	62.56728	-98.5121	14	525079.7	6937473	F546170	168			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Orange Brown	Sandy					1 to 10	2 out of 5		150	W			
Regular Sample	62.56684284	-98.51243153	62.56684	-98.5124	14	525061.6	6937424	F546171	167			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	A	15	Red Brown	Clay Rich					1 to 10	3 out of 5		162	W			
Regular Sample	62.56640647	-98.51291902	62.56641	-98.5129	14	525036.9	6937375	F546172	166			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Light Brown	Clay Rich					1 to 10	3 out of 5		165	SE			

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.5659704	-98.51338841	62.56597	-98.5134	14	525013.2	6937327	F546173	165			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown	Clay Rich					1 to 10	3 out of 5		168	W			
Regular Sample	62.56556198	-98.51378672	62.56556	-98.5138	14	524993	6937281	F546174	164			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red	Clay Rich					1 to 10	3 out of 5		163	SW			
Regular Sample	62.56509686	-98.51424638	62.5651	-98.5142	14	524969.8	6937229	F546175	163			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown	Clay Rich					1 to 10	2 out of 5		150	W			
Regular Sample	62.56467606	-98.51468794	62.56468	-98.5147	14	524947.5	6937182	F546176	162			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		176	E			
Regular Sample	62.56427287	-98.51509463	62.56427	-98.5151	14	524926.9	6937137	F546177	161			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red Brown	Clay Rich					1 to 10	2 out of 5		160	S			
Regular Sample	62.56383044	-98.51557408	62.56383	-98.5156	14	524902.6	6937087	F546178	160			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		153	S			
Duplicate Parent	62.5634087	-98.51601698	62.56341	-98.516	14	524880.2	6937040	F546179	159			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		156	W			
Duplicate Sample	62.5634006	-98.515972	62.5634	-98.516	14	524882.5	6937039	F546180	159	F546179		7/18/2022	Kiana Froese																							
Regular Sample	62.56413817	-98.5191109	62.56414	-98.5191	14	524720.5	6937120	F546181	151			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red	Matrix Supported Clasts		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		170	W			
Regular Sample	62.56455541	-98.51870958	62.56456	-98.5187	14	524740.8	6937167	F546182	152			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		182	E			
Regular Sample	62.56498347	-98.51820163	62.56498	-98.5182	14	524766.6	6937215	F546183	153			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		160	W			
Regular Sample	62.56541507	-98.51786502	62.56542	-98.5179	14	524783.5	6937263	F546184	154			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		183	S			
Regular Sample	62.56571614	-98.52133244	62.56572	-98.5213	14	524605	6937295	F546185	128			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		170	W			
Regular Sample	62.56529922	-98.52183536	62.5653	-98.5218	14	524579.5	6937249	F546186	127			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		180	W			
Regular Sample	62.56484583	-98.52224272	62.56485	-98.5222	14	524559	6937198	F546187	126			7/18/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		176	S			
Regular Sample	62.57336168	-98.54171757	62.57336	-98.5417	14	523551.1	6938139	F546188	29			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Brown	Clast Supported,Sandy		1-10 mm		Sub-Rounded	1 to 10	2 out of 5			S			
Regular Sample	62.5736707	-98.54532246	62.57367	-98.5453	14	523365.6	6938173	F546189	14			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	7	Light Brown	Matrix Supported Clasts,Clay Rich		<1 mm		Sub-Rounded	1 to 10	3 out of 5			S			
Regular Sample	62.57309343	-98.54975816	62.57309	-98.5498	14	523138.2	6938107	F546190	2			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Forest		gentle	Wet	B	27	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	W			
Regular Sample	62.57266209	-98.55028387	62.57266	-98.5503	14	523111.5	6938058	F546191	3			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	4	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		160	W			
Regular Sample	62.57224897	-98.55066475	62.57225	-98.5507	14	523092.2	6938012	F546192	4			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	23	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	E			
Regular Sample	62.57180666	-98.55110664	62.57181	-98.5511	14	523069.8	6937963	F546193	5			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	3	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	2 out of 5		194	W			
Regular Sample	62.57140434	-98.55146337	62.5714	-98.5515	14	523051.8	6937918	F546194	6			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		170	W			
Regular Sample	62.57067335	-98.54836207	62.57067	-98.5484	14	523211.8	6937838	F546195	7			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		151	S			
Regular Sample	62.57108001	-98.54793962	62.57108	-98.5479	14	523233.2	6937883	F546196	8			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	13	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		162	S			
Regular Sample	62.57152697	-98.54751986	62.57153	-98.5475	14	523254.4	6937933	F546197	9			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	14	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		159	E			
Regular Sample	62.57194056	-98.54706354	62.57194	-98.5471	14	523277.5	6937979	F546198	10			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	4	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		164	S			
Regular Sample	62.57239167	-98.54666591	62.57239	-98.5467	14	523297.6	6938030	F546199	11			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Forest		gentle	Moist	B	23	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		164	E			
								F546200			22H																								
Regular Sample	62.56587339	-98.4791014	62.56587	-98.4791	14	526775.7	6937330	F546201	341			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Brown	No Clasts,Clay Rich					>10	3 out of 5		183	N			
Regular Sample	62.56545014	-98.47912621	62.56545	-98.4791	14	526774.8	6937282	F546202	340			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		174	N			
Regular Sample	62.56501684	-98.47959157	62.56502	-98.4796	14	526751.2	6937234	F546203	339			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	No Clasts,Clay Rich					>10	3 out of 5	Frozen	170	NE			
Regular Sample	62.56417493	-98.48040294	62.56417	-98.4804	14	526710.3	6937140	F546204	337			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Dark Brown	Clast Supported,Sandy,Clay Rich		>10 mm		Sub-Rounded	>10	2 out of 5		152	E			
Regular Sample	62.56333311	-98.49283426	62.56333	-98.4928	14	526072	6937041	F546205	276			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Sandy,No Clasts					>10	3 out of 5		180	NW			
Regular Sample	62.56159423	-98.49457037	62.56159	-98.4946	14	525984.3	6936847	F546206	272			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Light Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5	Very wet	177	W			
Regular Sample	62.56538773	-98.50625977	62.56539	-98.5063	14	525380.1	6937265	F546207	223			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		175	W			
Regular Sample	62.5649501	-98.50665204	62.56495	-98.5067	14	525360.3	6937216	F546208	222			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		191	NW			
Regular Sample	62.56454414	-98.50709628	62.56454	-98.5071	14	525337.8	6937170	F546209	221			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		190	N			
Regular Sample	62.56409383	-98.50749861	62.56409	-98.5075	14	525317.5	6937120	F546210	220			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Sandy,No Clasts					>10	4 out of 5		162	E			
Regular Sample	62.56365927	-98.50797974	62.56366	-98.508	14	525293.1	6937071	F546211	219			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Sandy,No Clasts					>10	4 out of 5		170	NW			
Regular Sample	62.56323607	-98.50839809	62.56324	-98.5084	14	525272	6937024	F546212	218			7/17/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		173	E			
Regular Sample	62.57533125	-98.51981968	62.57533	-98.5198	14	524674.8	6938367	F546213	117			7/18/2022	Chase McKay	Likely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		192	SE			
Regular Sample	62.57489268	-98.52025554	62.57489	-98.5203	14	524652.8	6938318	F546214	116			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		167	E			
Regular Sample	62.57446153	-98.52071486	62.57446	-98.5207	14	524629.5	6938270	F546215	115			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Angular	>10	3 out of 5		186	E			
Regular Sample	62.57402944	-98.5211762	62.57403	-98.5212	14	524606.2	6938222	F546216	114			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	3 out of 5		179	SE			
Regular Sample	62.5735995	-98.52159061	62.5736	-98.5216	14	524585.3	6938173	F546217	113			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		177	SE			
Regular Sample	62.57317513	-98.52207173	62.57318	-98.5221	14	524560.9	6938126	F546218	112			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		134	SE			
Regular Sample	62.57274595	-98.52250826	62.57275	-98.5225	14	524538.8	6938078	F546219	111			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Light Brown	Clast Supported,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		180	S			
								F546220			23b																								
Regular Sample	62.57231446	-98.52294646	62.57231	-98.5229	14	524516.6	6938030	F546221	110			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		171	E			
Regular Sample	62.57190813	-98.52333035	62.57191	-98.5233	14	524497.2	6937984	F546222	109			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Red Brown	Sandy,No Clasts					>10	4 out of 5		178	W			
Regular Sample	62.57148681	-98.52380376	62.57149	-98.5238	14	524473.3	6937937	F546223	108			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		168	E			
Regular Sample	62.57059876	-98.52467615	62.5706	-98.5247	14	524429.2	6937838	F546224	106			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		167	N			
Regular Sample	62.5702009	-98.52510732	62.5702	-98.5251	14	524407.3	6937794	F546225	105			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		174	E			
Regular Sample	62.56976195	-98.52551568	62.56976	-98.5255	14	524386.7	6937744	F546226	104			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		188	E			
Regular Sample	62.56887956	-98.52631364	62.56888	-98.5263	14	524346.4	6937646	F546227	102			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Red Brown	Sandy,No Clasts					>10	4 out of 5		170	E			
Regular Sample	62.56930045	-98.52596361	62.5693	-98.526	14	524364.1	6937693	F546228	103			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Red Brown	Sandy,No Clasts					>10	5 out of 5		173	E			
Regular Sample	62.56844754	-98.52683768	62.56845	-98.5268	14	524319.8	6937598	F546229	101			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		166	S			
Regular Sample	62.56800069	-98.52727521	62.568	-98.5273	14	524297.7	6937548	F546230	100			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		173	E			
Regular Sample	62.56759305	-98.52768444	62.56759	-98.5277	14	524277	6937502	F546231	99			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		156	E			
Regular Sample	62.56716367	-98.52811926	62.56716	-98.5281	14	524255	6937454	F546232	98			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Light Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		156	E			
Regular Sample	62.56674815	-98.52855999	62.56675	-98.5286	14	524232.7	6937408	F546233	97			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy,Gravely		>10 mm		Sub-Rounded	>10	2 out of 5		155	E			
Regular Sample	62.56631425	-98.52896769	62.56631	-98.529	14	524212.1	6937359	F546234	96			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		150	E			
Regular Sample	62.5653437	-98.52610542	62.56534	-98.5261	14	524360	6937252	F546235	125			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	35	Dark Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		164	E			
Regular Sample	62.565796	-98.52565952	62.5658	-98.5257	14	524382.6	6937303	F546236	124			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		172	E			
Regular Sample	62.56621616	-98.5252535	62.56622	-98.5253	14	524403.1	6937350	F546237	123			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		178	W			
Regular Sample	62.56663817	-98.52480087	62.56664	-98.5248	14	524426	6937397	F546238	122			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		173	N			
Duplicate Parent	62.5670612	-98.52436604	62.56706	-98.5244	14	524448	6937444	F546239	121			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Rounded	>10	3 out of 5		150	NE			
Duplicate Sample	62.56706372	-98.52437072	62.56706	-98.5244	14	524447.8	6937444	F546240	121	F546239		7/18/2022	Chase McKay																							
Regular Sample	62.56749057	-98.52393116	62.56749	-98.5239	14	524470	6937492	F546241	120			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		153	N			
Regular Sample	62.56791994	-98.52349627	62.56792	-98.5235	14	524492	6937540	F546242	119			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		163	E			
Regular Sample	62.5683493	-98.52306137	62.56835	-98.5231	14	524514	6937588	F546243	118			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Sandy,No Clasts					>10	4 out of 5		165	E			
Regular Sample	62.56713144	-98.51605753	62.56713	-98.5161	14	524875	6937455	F546244	158			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		194	E			
Regular Sample	62.5667021	-98.51649252	62.5667	-98.5165	14	524853	6937407	F546245	157			7/18/2022	Chase McKay	Unlikely Disturbed	Mixed		Plains		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		180	W			
Regular Sample	62.56627275	-98.51692749	62.56627	-98.5169	14	524831	6937359	F546246	156			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		182	W			
Regular Sample	62.5658434	-98.51736245	62.56584	-98.5174	14	524809	6937311	F546247	155			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		127	W			
Regular Sample	62.56614292	-98.52093724	62.56614	-98.5209	14	524625	6937343	F546248	129			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Sandy,No Clasts					>10	4 out of 5		168	E			
Regular Sample	62.56657228	-98.52050233	62.56657	-98.5205	14	524647	6937391	F546249	130			7/18/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		165	E			
Regular Sample	62.56909183	-98.53028729	62.56909	-98.5303	14	524142	6937668	F546250	90			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	30	Light Brown	Sandy,Clay Rich					>10	3 out of 5		156	N			
Regular Sample	62.57280093	-98.54620893	62.5728	-98.5462	14	523320.8	6938075	F546251	12			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Forest		gentle	Moist	B	17	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		191	S			
Regular Sample	62.57294486	-98.54224529	62.57294	-98.5422	14	523524.4	6938093	F546252	28			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	9	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		165	N			
Regular Sample	62.57253546	-98.54262549	62.57254	-98.5426	14	523505.1	6938047	F546253	27			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	A	30	Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		153	N			
Regular Sample	62.57209454	-98.54301978	62.57209	-98.543	14	523485.2	6937998	F546254	26			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	24	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		172	N			
Regular Sample	62.57165963	-98.54352169	62.57166	-98.5435	14	523459.8	6937949	F546255	25			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	6	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		155	W			
Regular Sample	62.57124897	-98.5439324	62.57125	-98.5439	14	523439	6937903	F546256	24			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	4	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		185	E			
Regular Sample	62.57080741	-98.54433406	62.57081	-98.5443	14	523418.7	6937854	F546257	23			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	6	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		201	S			
Regular Sample	62.5703796	-98.54481485	62.57038	-98.5448	14	523394.3	6937806	F546258	22			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	4	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	W			
Regular Sample	62.56921766	-98.54212526	62.56922	-98.5421	14	523533.5	6937678	F546259	36			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	3	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		164	N			
								F546260			22H																								
Regular Sample	62.56965106	-98.54164917	62.56965	-98.5416	14	523557.6	6937726	F546261	37			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		<1 mm		Angular	1 to 10	3 out of 5		169	N			
Regular Sample	62.57006946	-98.54125891	62.57007	-98.5413	14	523577.3	6937773	F546262	38			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		157	S			
Regular Sample	62.57048848	-98.54081333	62.57049	-98.5408	14	523599.9	6937820	F546263	39			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	7	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		163	N			
Regular Sample	62.57091939	-98.54038686	62.57092	-98.5404	14	523621.5	6937868	F546264	40			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	7	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	S			
Regular Sample	62.57135893	-98.5399416	62.57136	-98.5399	14	523644	6937917	F546265	41			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	26	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		167	N			
Regular Sample	62.57451465	-98.53285789	62.57451	-98.5329	14	524005.5	6938271	F546266	62			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	12	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		164	W			
Regular Sample	62.57494194	-98.53243511	62.57494	-98.5324	14	524026.9	6938319	F546267	63			7/19/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		183	S			
Regular Sample	62.51580408	-99.18119442	62.5158	-99.1812	14	490670.4	6931656	F546268	1072			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		195	N			
Regular Sample	62.51550297	-99.18055605	62.5155	-99.1806	14	490703.1	6931623	F546269	1073			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	1 out of 5		199	S			
Regular Sample	62.51522523	-99.17993747	62.51523	-99.1799	14	490734.9	6931592	F546270	1074			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		208	S			
Regular Sample	62.51491576	-99.17931017	62.51492	-99.1793	14	490767.1	6931557	F546271	1075			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		200	N			
Regular Sample	62.51431646	-99.17800963	62.51432	-99.178	14	490833.9	6931490	F546272	1077			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	S			
Regular Sample	62.51403963	-99.17735819	62.51404	-99.1774	14	490867.4	6931459	F546273	1078			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	7	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		190	S			
Regular Sample	62.51374856	-99.17671882	62.51375	-99.1767	14	490900.2	6931427	F546274	1079			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		207	S			
Regular Sample	62.51339791	-99.17603251	62.5134	-99.176	14	490935.4	6931388	F546275	1080			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		194	S			
Regular Sample	62.51314723	-99.17539146	62.51315	-99.1754	14	490968.4	6931360	F546276	1081			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		196	N			
Regular Sample	62.51286157	-99.17481679	62.51286	-99.1748	14	490997.9	6931328	F546277	1082			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		202	S			
Regular Sample	62.51255114	-99.17410903	62.51255	-99.1741	14	491034.2	6931293	F546278	1083			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		206	W			
Regular Sample	62.51225016	-99.17353839	62.51225	-99.1735	14	491063.5	6931259	F546279	1084			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		207	W			
								F546280			23b																								
Regular Sample	62.51198275	-99.17283799	62.51198	-99.1728	14	491099.5	6931230	F546281	1085			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		185	W			
Regular Sample	62.51166752	-99.17223617	62.51167	-99.1722	14	491130.4	6931194	F546282	1086			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		199	W			
Regular Sample	62.51135817	-99.17159546	62.51136	-99.1716	14	491163.3	6931160	F546283	1087			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	1 to 10	3 out of 5		219	W			

status	latitude	longitude	latitude	longitude	utm_zone	utm_eastin	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.51108456	-99.17092759	62.51108	-99.1709	14	491197.6	6931129	F546284	1088			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		191	W			
Regular Sample	62.51077396	-99.17029358	62.51077	-99.1703	14	491230.2	6931095	F546285	1089			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		200	N			
Regular Sample	62.51049153	-99.16968103	62.51049	-99.1697	14	491261.6	6931063	F546286	1090			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		218	W			
Regular Sample	62.51019671	-99.16900277	62.5102	-99.169	14	491296.5	6931030	F546287	1091			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		210	E			
Regular Sample	62.50989044	-99.16835535	62.50989	-99.1684	14	491329.7	6930996	F546288	1092			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		203	S			
Regular Sample	62.50959453	-99.16771062	62.50959	-99.1677	14	491362.8	6930963	F546289	1093			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		204	E			
Regular Sample	62.50929166	-99.16710343	62.50929	-99.1671	14	491394	6930929	F546290	1094			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		197	N			
Regular Sample	62.50898848	-99.1664198	62.50899	-99.1664	14	491429.2	6930895	F546291	1095			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	1 out of 5		199	S			
Regular Sample	62.50814143	-99.16451845	62.50814	-99.1645	14	491526.8	6930800	F546292	1098			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		205	E			
Regular Sample	62.50783637	-99.16385762	62.50784	-99.1639	14	491560.8	6930766	F546293	1099			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		200	S			
Regular Sample	62.51383847	-99.15995937	62.51384	-99.16	14	491763.2	6931435	F546294	1031			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		192	S			
Regular Sample	62.51412953	-99.16058298	62.51413	-99.1606	14	491731.2	6931467	F546295	1032			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		191	N			
Regular Sample	62.5144257	-99.16122202	62.51443	-99.1612	14	491698.4	6931500	F546296	1033			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		208	N			
Regular Sample	62.51473967	-99.16188855	62.51474	-99.1619	14	491664.1	6931535	F546297	1034			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		217	N			
Regular Sample	62.5150202	-99.16256849	62.51502	-99.1626	14	491629.2	6931567	F546298	1035			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		195	N			
Duplicate Parent	62.51531466	-99.16319411	62.51531	-99.1632	14	491597.1	6931599	F546299	1036			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		207	N			
Duplicate Sample	62.5153046	-99.1632214	62.5153	-99.1632	14	491595.7	6931598	F546300	1036	F546299		7/21/2022	Kiana Froese																							
Regular Sample	62.56864571	-98.53072688	62.56865	-98.5307	14	524119.8	6937618	F546301	91			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	20	Light Brown	Matrix Supported Clasts,Sandy		>10 mm		Rounded	>10	3 out of 5		185	NE			
Regular Sample	62.5682313	-98.53117581	62.56823	-98.5312	14	524097	6937572	F546302	92			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		162	NE			
Regular Sample	62.56780221	-98.53160162	62.5678	-98.5316	14	524075.5	6937524	F546303	93			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		165	E			
Regular Sample	62.56737188	-98.5320187	62.56737	-98.532	14	524054.4	6937476	F546304	94			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		155	E			
Regular Sample	62.56697429	-98.5324787	62.56697	-98.5325	14	524031.1	6937431	F546305	95			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Rounded	>10	4 out of 5		175	S			
Regular Sample	62.56851628	-98.53896294	62.56852	-98.539	14	523696.6	6937601	F546306	50			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Sandy,No Clasts					>10	5 out of 5		149	N			
Regular Sample	62.56892157	-98.53857502	62.56892	-98.5386	14	523716.2	6937646	F546307	51			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		148	E			
Regular Sample	62.56936578	-98.53808284	62.56937	-98.5381	14	523741.1	6937696	F546308	52			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		158	N			
Regular Sample	62.56978265	-98.53768587	62.56978	-98.5377	14	523761.2	6937742	F546309	53			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		155	N			
Regular Sample	62.57021005	-98.53723534	62.57021	-98.5372	14	523784	6937790	F546310	54			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	35	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		164	N			
Regular Sample	62.57063946	-98.5368006	62.57064	-98.5368	14	523806	6937838	F546311	55			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		171	N			
Regular Sample	62.57106626	-98.53636086	62.57107	-98.5364	14	523828.3	6937886	F546312	56			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	5	Red Brown	Sandy,No Clasts					>10	3 out of 5		151	E			
Regular Sample	62.57149083	-98.53595316	62.57149	-98.536	14	523848.9	6937933	F546313	57			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	15	Red Brown	Sandy,No Clasts					>10	4 out of 5		148	E			
Regular Sample	62.57193515	-98.53550054	62.57194	-98.5355	14	523871.8	6937983	F546314	58			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	4 out of 5		192	E			
Regular Sample	62.57235709	-98.53506153	62.57236	-98.5351	14	523894	6938030	F546315	59			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		160	SE			
Regular Sample	62.57279444	-98.534602	62.57279	-98.5346	14	523917.3	6938079	F546316	60			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		173	N			
Regular Sample	62.5726448	-98.53864342	62.57264	-98.5386	14	523709.7	6938061	F546317	44			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		162	W			
Regular Sample	62.57221776	-98.53907216	62.57222	-98.5391	14	523688	6938013	F546318	43			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		161	E			
Regular Sample	62.57178835	-98.53950689	62.57179	-98.5395	14	523666	6937965	F546319	42			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		163	E			
								F546320			22H																									
Regular Sample	62.56776066	-98.53480484	62.56776	-98.5348	14	523910.9	6937518	F546321	67			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	4 out of 5		160	E			
Regular Sample	62.56818978	-98.53432889	62.56819	-98.5343	14	523935	6937566	F546322	68			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		167	E			
Regular Sample	62.56863027	-98.5338939	62.56863	-98.5339	14	523957	6937615	F546323	69			7/19/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		147	E			
Regular Sample	62.51535892	-99.15486451	62.51536	-99.1549	14	492026	6931603	F546324	1030			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		162	NE			
Regular Sample	62.51566142	-99.15549953	62.51566	-99.1555	14	491993.4	6931637	F546325	1029			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		197	NW			
Regular Sample	62.51595568	-99.15614879	62.51596	-99.1561	14	491960	6931670	F546326	1028			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		171	E			
Regular Sample	62.51625116	-99.15679125	62.51625	-99.1568	14	491927	6931703	F546327	1027			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		154	SE			
Regular Sample	62.51654664	-99.15743373	62.51655	-99.1574	14	491894	6931736	F546328	1026			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	2 out of 5		182	NE			
Regular Sample	62.51684213	-99.15807621	62.51684	-99.1581	14	491861	6931769	F546329	1025			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich		>10 mm			>10	4 out of 5		173	NE			
Regular Sample	62.5171376	-99.15871871	62.51714	-99.1587	14	491828	6931802	F546330	1024			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	A	15	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	2 out of 5		153	E			
Regular Sample	62.51743308	-99.15936123	62.51743	-99.1594	14	491795	6931835	F546331	1023			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Clast Supported,Sandy		>10 mm		Sub-Rounded	>10	2 out of 5		177	NW			
Regular Sample	62.51773429	-99.16001301	62.51773	-99.16	14	491761.5	6931869	F546332	1022			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	No Clasts,Clay Rich					>10	4 out of 5		167	E			
Regular Sample	62.51802402	-99.16064629	62.51802	-99.1606	14	491729	6931901	F546333	1021			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	3 out of 5		161	NE			
Regular Sample	62.51831948	-99.16128884	62.51832	-99.1613	14	491696	6931934	F546334	1020			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	No Clasts,Clay Rich					>10	4 out of 5		171	NE			
Regular Sample	62.51861494	-99.16193141	62.51861	-99.1619	14	491663	6931967	F546335	1019			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	2 out of 5		182	NE			
Regular Sample	62.5189104	-99.16257398	62.51891	-99.1626	14	491630	6932000	F546336	1018			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	3 out of 5		157	NE			
Regular Sample	62.51920586	-99.16321657	62.51921	-99.1632	14	491597	6932033	F546337	1017			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Rounded	>10	3 out of 5		169	SW			
Regular Sample	62.51979676	-99.16450179	62.5198	-99.1645	14	491531	6932099	F546338	1015			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5	Photos didn't save in field		E			
Regular Sample	62.52009221	-99.16514442	62.52009	-99.1651	14	491498	6932132	F546339	1014			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Brown	Clast Supported,Sandy,Gravely		Angular		Sub-Angular	>10	1 out of 5	Very little to no fines	178	E			
								F546340			23b																									
Regular Sample	62.52038766	-99.16578706	62.52039	-99.1658	14	491465	6932165	F546341	1013			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		178	S			
Regular Sample	62.52097854	-99.16707238	62.52098	-99.1671	14	491399	6932231	F546342	1011			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		188	E			
Regular Sample	62.52127397	-99.16771506	62.52127	-99.1677	14	491366	6932264	F546343	1010			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		183	NE			
Regular Sample	62.52156941	-99.16835775	62.52157	-99.1684	14	491333	6932297	F546344	1009			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		202	SE			
Regular Sample	62.52284727	-99.16560646	62.52285	-99.1656	14	491475	6932439	F546345	996			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		197	S			
Regular Sample	62.52255183	-99.16496377	62.52255	-99.165	14	491508	6932406	F546346	997			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		200	E			
Regular Sample	62.52225073	-99.16432701	62.52225	-99.1643	14	491540.7	6932372	F546347	998			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy		>10 mm		Rounded	>10	1 out of 5	O contamination	204	E			
Regular Sample	62.52196093	-99.16367843	62.52196	-99.1637	14	491574	6932340	F546348	999			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		199	E			
Regular Sample	62.51989269	-99.15918012	62.51989	-99.1592	14	491805	6932109	F546349	1006			7/21/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	1 out of 5		181	SE			
Regular Sample	62.5155556	-99.14422205	62.51556	-99.1442	14	492574	6931624	F546350	944			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	28	Light Brown-Grey	Sandy,No Clasts,Clay Rich					>10	2 out of 5		180	NW			
Regular Sample	62.56700164	-98.5200674	62.567	-98.5201	14	524669	6937439	F546351	131			7/18/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		190	S			
Regular Sample	62.57719537	-98.52533262	62.5772	-98.5253	14	524390	6938573	F546352	89			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		176	S			
Regular Sample	62.57677754	-98.5256315	62.57678	-98.5256	14	524375	6938526	F546353	88			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		183	S			
Regular Sample	62.57634285	-98.52606487	62.57634	-98.5261	14	524353.1	6938477	F546354	87			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		171	N			
Regular Sample	62.57591879	-98.52650147	62.57592	-98.5265	14	524331	6938430	F546355	86			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		170	N			
Regular Sample	62.57548941	-98.52693643	62.57549	-98.5269	14	524309	6938382	F546356	85			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		168	N			
Regular Sample	62.57506003	-98.52737138	62.57506	-98.5274	14	524287	6938334	F546357	84			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Dark Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		180	N			
Regular Sample	62.57463065	-98.52780632	62.57463	-98.5278	14	524265	6938286	F546358	83			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		172	S			
Duplicate Parent	62.57418865	-98.52832496	62.57419	-98.5283	14	524238.7	6938237	F546359	82			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		158	S			
Duplicate Sample	62.57419298	-98.52832329	62.57419	-98.5283	14	524238.8	6938237	F546360	82	F546359		7/19/2022	Gianna De Vera																							
Regular Sample	62.57373525	-98.52859721	62.57374	-98.5286	14	524225.1	6938186	F546361	81			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		189	S			
Regular Sample	62.57331597	-98.52918193	62.57332	-98.5292	14	524195.4	6938139	F546362	80			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		>10 mm		Sub-Angular	>10	2 out of 5		172	S			
Regular Sample	62.57291312	-98.52954595	62.57291	-98.5295	14	524177	6938094	F546363	79			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		174	S			
								F546364																												
Regular Sample	62.57162998	-98.53088479	62.57163	-98.5309	14	524109.2	6937951	F546365	76			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		165	N			
Regular Sample	62.57119556	-98.53128538	62.5712	-98.5313	14	524089	6937902	F546366	75			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		179	N			
Regular Sample	62.57076617	-98.5317202	62.57077	-98.5317	14	524067	6937854	F546367	74			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		173	N			
Regular Sample	62.57033677	-98.53215502	62.57034	-98.5322	14	524045	6937806	F546368	73			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		161	N			
Regular Sample	62.56990738	-98.53258982	62.56991	-98.5326	14	524023	6937758	F546369	72			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	10	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		180	NE			
Regular Sample	62.56946015	-98.53298463	62.56946	-98.533	14	524003.1	6937708	F546370	71			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	3	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		177	S			
Regular Sample	62.56904858	-98.53345938	62.56905	-98.5335	14	523979	6937662	F546371	70			7/19/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		178	NE			
Regular Sample	62.51772068	-99.17705946	62.51772	-99.1771	14	490883.9	6931869	F546372	1071			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		177	NE			
Regular Sample	62.51747537	-99.17645327	62.51748	-99.1765	14	490915	6931842	F546373	1070			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		183	SE			
Regular Sample	62.51717998	-99.17581058	62.51718	-99.1758	14	490948	6931809	F546374	1069			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		174	E			
Regular Sample	62.51688458	-99.17516791	62.51688	-99.1752	14	490981	6931776	F546375	1068			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		199	N			
Regular Sample	62.51658918	-99.17452526	62.51659	-99.1745	14	491014	6931743	F546376	1067			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		165	E			
Regular Sample	62.51629829	-99.17393669	62.5163	-99.1739	14	491044.2	6931711	F546377	1066			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		183	E			
Regular Sample	62.51600554	-99.17321585	62.51601	-99.1732	14	491081.2	6931678	F546378	1065			7/21/2022	Gianna De Vera	Unlikely Disturbed	Mixed		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		156	W			
Regular Sample	62.51570295	-99.17259736	62.5157	-99.1726	14	491113	6931644	F546379	1064			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		208	W			
								F546380			22H																									
Regular Sample	62.51542979	-99.17193376	62.51543	-99.1719	14	491147.1	6931613	F546381	1063			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		178	E			
Regular Sample	62.51511212	-99.17131216	62.51511	-99.1713	14	491179	6931578	F546382	1062			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		129	W			
Regular Sample	62.51480961	-99.17070933	62.51481	-99.1707	14	491210	6931544	F546383	1061			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		156	E			
Regular Sample	62.51452128	-99.17002701	62.51452	-99.17	14	491245	6931512	F546384	1060			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		150	E			
Regular Sample	62.51422586	-99.16938445	62.51423	-99.1694	14	491278	6931479	F546385	1059			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		175	E			
Regular Sample	62.51393043	-99.16874191	62.51393	-99.1687	14	491311	6931446	F546386	1058			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		181	E			
Regular Sample	62.513635	-99.16809938	62.51364	-99.1681	14	491344	6931413	F546387	1057			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy	silty	1-10 mm		Sub-Angular	>10	3 out of 5		163	E			
Regular Sample	62.51333956	-99.16745686	62.51334	-99.1675	14	491377	6931380	F546388	1056			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		154	N			
Regular Sample	62.51304412	-99.16681435	62.51304	-99.1668	14	491410	6931347	F546389	1055			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Orange Brown	Matrix Supported Clasts,Sandy	silty	1-10 mm		Sub-Angular	>10	3 out of 5		179	SE			
Regular Sample	62.512804	-99.16616499	62.5128	-99.1662	14	491443.4	6931320	F546390	1054			7/21/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	SE			
Regular Sample	62.5221248	-99.15302183	62.52212	-99.153	14	492122.6	6932357	F546391	929			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		178	SE			
Regular Sample	62.523039	-99.15496201	62.52304	-99.155	14	492023	6932459	F546392	926			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		177	SE			
Regular Sample	62.52362998	-99.15624723	62.52363	-99.1562	14	491957	6932525	F546393	924			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		177	NE			
Regular Sample	62.52421254	-99.15754169	62.52421	-99.1575	14	491890.5	6932590	F546394	922			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		175	NE			

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.52451643	-99.15817515	62.52452	-99.1582	14	491858	6932624	f546395	921			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		179	NE			
Regular Sample	62.5248119	-99.15881782	62.52481	-99.1588	14	491825	6932657	F546396	920			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Orange Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		182	NE			
Regular Sample	62.52510738	-99.1594605	62.52511	-99.1595	14	491792	6932690	F546397	919			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		169	NE			
Regular Sample	62.52540285	-99.16010319	62.5254	-99.1601	14	491759	6932723	F546398	918			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		172	NE			
Regular Sample	62.52412509	-99.16285495	62.52413	-99.1629	14	491617	6932581	F546399	932			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		159	NE			
								F546400			23b																									
Regular Sample	62.56611179	-98.50936227	62.56611	-98.5094	14	525220	6937344	F546401	195			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	43	Dark Brown	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		167	S			
Regular Sample	62.56568246	-98.50979733	62.56568	-98.5098	14	525198	6937296	F546402	194			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	38	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		172	S			
Regular Sample	62.56525313	-98.51023239	62.56525	-98.5102	14	525176	6937248	F546403	193			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	37	Red Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		172	S			
Regular Sample	62.56482381	-98.51066743	62.56482	-98.5107	14	525154	6937200	F546404	192			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown-Grey	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		153	S			
Regular Sample	62.56439448	-98.51110246	62.56439	-98.5111	14	525132	6937152	F546405	191			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown-Grey	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		169	S			
Regular Sample	62.56396515	-98.51153748	62.56397	-98.5115	14	525110	6937104	F546406	190			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown-Grey	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		164	S			
Regular Sample	62.56353582	-98.51197248	62.56354	-98.512	14	525088	6937056	F546407	189			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	17	Light Brown-Grey	Clast Supported		1-10 mm		Sub-Angular	>10	3 out of 5		165	S			
Regular Sample	62.56310648	-98.51240747	62.56311	-98.5124	14	525066	6937008	F546408	188			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown-Grey	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		158	S			
Regular Sample	62.56267715	-98.51284245	62.56268	-98.5128	14	525044	6936960	F546409	187			7/18/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown-Grey	Clast Supported		1-10 mm		Sub-Angular	>10	2 out of 5		154	S			
Regular Sample	62.576251	-98.5427268	62.57625	-98.5427	14	523497	6938461	F546410	15			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	30	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	3 out of 5		172	S			
Regular Sample	62.57668043	-98.54229205	62.57668	-98.5423	14	523519	6938509	F546411	16			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	12	Red Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		163	S			
Regular Sample	62.57710985	-98.54185729	62.57711	-98.5419	14	523541	6938557	F546412	17			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	19	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	3 out of 5		167	S			
Regular Sample	62.57753928	-98.54142252	62.57754	-98.5414	14	523563	6938605	F546413	18			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	16	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		169	S			
Regular Sample	62.5779687	-98.54098773	62.57797	-98.541	14	523585	6938653	F546414	19			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	14	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		170	S			
Regular Sample	62.57839812	-98.54055293	62.5784	-98.5406	14	523607	6938701	F546415	20			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		151	S			
Regular Sample	62.57766969	-98.53741132	62.57767	-98.5374	14	523769	6938621	F546416	35			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	16	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		156	S			
Regular Sample	62.57724028	-98.53784615	62.57724	-98.5378	14	523747	6938573	F546417	34			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	16	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Regular Sample	62.57681087	-98.53828097	62.57681	-98.5383	14	523725	6938525	f546418	33			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	17	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Duplicate Parent	62.57638145	-98.53871578	62.57638	-98.5387	14	523703	6938477	F546419	32			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		moderate	Moist	B	13	Light Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		152	S			
Duplicate Sample	62.5763813	-98.5387231	62.57638	-98.5387	14	523702.6	6938477	F546420	32	F546419		7/19/2022	Zach Buehler																							
Regular Sample	62.57595204	-98.53915057	62.57595	-98.5392	14	523681	6938429	F546421	31			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	28	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		156	S			
Regular Sample	62.57522364	-98.53602871	62.57522	-98.536	14	523842	6938349	F546422	45			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	38	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		167	S			
Regular Sample	62.57565305	-98.53559388	62.57565	-98.5356	14	523864	6938397	F546423	46			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		moderate	Moist	B	14	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		151	S			
Regular Sample	62.57608245	-98.53515904	62.57608	-98.5352	14	523886	6938445	F546424	47			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		172	S			
Regular Sample	62.57651186	-98.53472418	62.57651	-98.5347	14	523908	6938493	F546425	48			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	12	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		156	S			
Regular Sample	62.57694126	-98.53428932	62.57694	-98.5343	14	523930	6938541	F546426	49			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	13	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		153	S			
Regular Sample	62.57622166	-98.53114787	62.57622	-98.5311	14	524092	6938462	F546427	66			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	21	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		166	S			
Regular Sample	62.57579227	-98.53158277	62.57579	-98.5316	14	524070	6938414	F546428	65			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	19	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Regular Sample	62.57536288	-98.53201766	62.57536	-98.532	14	524048	6938366	F546429	64			7/19/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		gentle	Wet	A	16	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		172	S			
Regular Sample	62.51262952	-99.18254172	62.51263	-99.1825	14	490600	6931303	F546430	1123			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		149	S			
Regular Sample	62.51233415	-99.18189909	62.51233	-99.1819	14	490633	6931270	F546431	1122			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		194	S			
Regular Sample	62.51203878	-99.18125646	62.51204	-99.1813	14	490666	6931237	F546432	1121			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	11	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		174	S			
Regular Sample	62.51174341	-99.18061385	62.51174	-99.1806	14	490699	6931204	F546433	1120			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		180	S			
Regular Sample	62.51144803	-99.17997124	62.51145	-99.18	14	490732	6931171	F546434	1119			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		162	S			
Regular Sample	62.51115265	-99.17932866	62.51115	-99.1793	14	490765	6931138	F546435	1118			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown-Grey	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		155	S			
Regular Sample	62.51085727	-99.17868608	62.51086	-99.1787	14	490798	6931105	F546436	1117			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	17	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		185	S			
Regular Sample	62.51056188	-99.17804352	62.51056	-99.178	14	490831	6931072	F546437	1116			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		182	N			
Regular Sample	62.5102665	-99.17740097	62.51027	-99.1774	14	490864	6931039	F546438	1115			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		162	S			
Regular Sample	62.5099711	-99.17675843	62.50997	-99.1768	14	490897	6931006	F546439	1114			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		180	S			
								F546440			22H																									
Regular Sample	62.50967571	-99.17611591	62.50968	-99.1761	14	490930	6930973	F546441	1113			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		175	N			
Regular Sample	62.50938031	-99.1754734	62.50938	-99.1755	14	490963	6930940	F546442	1112			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		187	S			
Regular Sample	62.50908491	-99.1748309	62.50908	-99.1748	14	490996	6930907	F546443	1111			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		197	S			
Regular Sample	62.50878951	-99.17418841	62.50879	-99.1742	14	491029	6930874	F546444	1110			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	11	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		170	S			
Regular Sample	62.5084941	-99.17354594	62.50849	-99.1735	14	491062	6930841	F546445	1109			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		151	S			
Regular Sample	62.50819869	-99.17290348	62.5082	-99.1729	14	491095	6930808	F546446	1108			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		175	S			
Regular Sample	62.50790328	-99.17226103	62.5079	-99.1723	14	491128	6930775	F546447	1107			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		166	S			
Regular Sample	62.50760786	-99.17161859	62.50761	-99.1716	14	491161	6930742	F546448	1106			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Dark Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		200	S			
Regular Sample	62.50731245	-99.17097617	62.50731	-99.171	14	491194	6930709	F546449	1105			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		176	S			
Regular Sample	62.50701702	-99.17033376	62.50702	-99.1703	14	491227	6930676	F546450	1104			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown-Grey	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		171	S			
Regular Sample	62.51560943	-99.16381001	62.51561	-99.1638	14	491565.4	6931632	F546451	1037			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		192	N			
Regular Sample	62.51590296	-99.16447721	62.5159	-99.1645	14	491531.2	6931665	F546452	1038			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		137	N			
Regular Sample	62.51619988	-99.16511156	62.5162	-99.1651	14	491498.6	6931698	F546453	1039			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		170	N			
Regular Sample	62.51649773	-99.16574255	62.5165	-99.1657	14	491466.2	6931732	F546454	1040			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		176	S			
Regular Sample	62.51678568	-99.16640975	62.51679	-99.1664	14	491431.9	6931764	F546455	1041			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		157	N			
Regular Sample	62.5170761	-99.16699581	62.51708	-99.167	14	491401.8	6931796	F546456	1042			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		174	W			
Regular Sample	62.51737967	-99.16770224	62.51738	-99.1677	14	491365.5	6931830	F546457	1043			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		178	N			
Regular Sample	62.51766003	-99.16829735	62.51766	-99.1683	14	491335	6931861	F546458	1044			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		159	S			
Regular Sample	62.51796065	-99.16893605	62.51796	-99.1689	14	491302.2	6931895	F546459	1045			7/21/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	N			
								F546460			23b																									
Regular Sample	62.52075492	-99.14450448	62.52075	-99.1445	14	492560.8	6932203	F546461	898			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		156	N			
Regular Sample	62.52106556	-99.14517872	62.52107	-99.1452	14	492526.1	6932238	F546462	899			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	N			
Regular Sample	62.52134434	-99.14572924	62.52134	-99.1457	14	492497.8	6932269	F546463	900			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	1 to 10	2 out of 5		170	S			
Regular Sample	62.52225398	-99.14770436	62.52225	-99.1477	14	492396.4	6932371	F546464	903			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown	Clay Rich					1 to 10	3 out of 5		157	S			
Regular Sample	62.52253676	-99.14834742	62.52254	-99.1483	14	492363.4	6932402	F546465	904			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Light Brown	Sandy,Clay Rich					1 to 10	3 out of 5		177	W			
Regular Sample	62.5231311	-99.14964795	62.52313	-99.1496	14	492296.6	6932469	F546466	906			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5	Hole filled with water	200	W			
Regular Sample	62.5234312	-99.15031582	62.52343	-99.1503	14	492262.3	6932502	F546467	907			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		206	E			
Regular Sample	62.52371769	-99.15096357	62.52372	-99.151	14	492229	6932534	F546468	908			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		160	W			
Regular Sample	62.52400711	-99.15156204	62.52401	-99.1516	14	492198.3	6932566	F546469	909			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	11	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		176	W			
Regular Sample	62.52430984	-99.15219001	62.52431	-99.1522	14	492166	6932600	F546470	910			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	9	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		175	E			
Regular Sample	62.52460916	-99.15284112	62.52461	-99.1528	14	492132.6	6932634	F546471	911			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		179	N			
Regular Sample	62.52491342	-99.15346775	62.52491	-99.1535	14	492100.4	6932668	F546472	912			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	N			
Regular Sample	62.52521227	-99.15411551	62.52521	-99.1541	14	492067.2	6932701	F546473	913			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Light Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Angular	1 to 10	2 out of 5	Hole filled with water	161	N			
Regular Sample	62.52825255	-99.15526483	62.52825	-99.1553	14	492008.8	6933040	F546474	897			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		149	W			
Regular Sample	62.52797059	-99.15460367	62.52797	-99.1546	14	492042.8	6933008	F546475	896			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	W			
Regular Sample	62.52765584	-99.15397435	62.52766	-99.154	14	492075.1	6932973	F546476	895			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		185	N			
Regular Sample	62.52677297	-99.15202875	62.52677	-99.152	14	492175	6932875	F546477	892			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		161	S			
Regular Sample	62.52649224	-99.15139843	62.52649	-99.1514	14	492207.3	6932843	F546478	891			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Outcrop		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	S			
Duplicate Parent	62.52619418	-99.15072855	62.52619	-99.1507	14	492241.7	6932810	F546479	890			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		161	S			
Duplicate Sample	62.5261949	-99.1507506	62.52619	-99.1508	14	492240.6	6932810	F546480	890	F546479		7/22/2022	Kiana Froese																							
Regular Sample	62.52589565	-99.15013075	62.5259	-99.1501	14	492272.4	6932777	F546481	889			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	S			
Regular Sample	62.52353222	-99.14498828	62.52353	-99.145	14	492536.5	6932513	F546482	881			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		151	S			
Regular Sample	62.52323428	-99.14429292	62.52323	-99.1443	14	492572.3	6932479	F546483	880			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5	Hole fill with water	153	S			
Regular Sample	62.5229382	-99.1436284	62.52294	-99.1436	14	492606.4	6932446	F546484	879			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		167	S			
Regular Sample	62.52263267	-99.14303195	62.52263	-99.143	14	492637	6932412	F546485	878			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	S			
Regular Sample	62.52234525	-99.14237347	62.52235	-99.1424	14	492670.9	6932380	F546486	877			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		165	S			
Regular Sample	62.52203353	-99.1417465	62.52203	-99.1417	14	492703	6932345	F546487	876			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		142	S			
Regular Sample	62.52268341	-99.14034136	62.52268	-99.1403	14	492775.5	6932418	F546488	870			7/22/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		168	N			
Regular Sample	62.53390864	-99.13019825	62.53391	-99.1302	14	493300.2	6933667	F546489	680			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Matrix Supported Clasts,Gravely		1-10 mm		Sub-Angular	1 to 10	1 out of 5	Hole full of water	174	N			
Regular Sample	62.53360616	-99.12956256	62.53361	-99.1296	14	493332.9	6933633	F546490	681			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Red Brown	Gravely		1-10 mm		Sub-Angular	1 to 10	1 out of 5	Possible c, no soil onl	174	W			
Regular Sample	62.53333075	-99.12888497	62.53333	-99.1289	14	493367.7	6933603	F546491	682			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		200	S			
Regular Sample	62.53305008	-99.12828516	62.53305	-99.1283	14	493398.5	6933571	F546492	683			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	1 out of 5		184	W			
Regular Sample	62.53243676	-99.12701514	62.53244	-99.127	14	493463.7	6933503	F546493	685			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	1 out of 5		183	W			
Regular Sample	62.53214309	-99.12637778	62.53214	-99.1264	14	493496.4	6933470	F546494	686			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	4	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		175	W			
Regular Sample	62.53184787	-99.12576087	62.53185	-99.1258	14	493528.1	6933437	F546495	687			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		186	S			
Regular Sample	62.53126948	-99.12442546	62.53127	-99.1244	14	493596.7	6933373	F546496	689			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown	Matrix Supported Clasts,Clay Rich		<1 mm		Sub-Angular	1 to 10	2 out of 5		187	S			
Regular Sample	62.53094131	-99.12377939	62.53094	-99.1238	14	493629.9	6933336	F546497	690			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		170	S			
Regular Sample	62.5306767	-99.12311822	62.53068	-99.1231	14	493663.8	6933306	F546498	691			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		187	W			
Regular Sample	62.52973329	-99.12539039	62.52973	-99.1254	14	493546.7	6933202	F546499	783			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	4 out of 5		160	N			
								F546500			22H																									
Regular Sample	62.5232387	-99.16092691	62.52324	-99.1609	14	491716	6932482	F546501	935			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Dark Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		153	NE			
Regular Sample	62.52294324	-99.16028425	62.52294	-99.1603	14	491749	6932449	F546502	936			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		163	SW			
Regular Sample	62.52205682	-99.15835637	62.52206	-99.1584	14	491848	6932350	F546503	939			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		176	NE			
Regular Sample	62.52176134	-99.15771377	62.52176	-99.1577	14	491881	6932317	F546504	940			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		149	NE			
Regular Sample	62.52146887	-99.15701732	62.52147	-99.157	14	491916.8	6932284	f546505	941			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	30	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		192	NE			

status	latitude	longitude	latitude	longitude	utm_zone	utm_eastii	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.52087489	-99.15578603	62.52087	-99.1558	14	491980	6932218	F546506	943			7/22/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	2025	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	SW			
Regular Sample	62.52396372	-99.13761874	62.52396	-99.1376	14	492916	6932560	F546507	843			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	C	25	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		173	SE			
Regular Sample	62.52453089	-99.13888995	62.52453	-99.1389	14	492850.7	6932623	f546508	845			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		168	NW			
Regular Sample	62.52514599	-99.14018863	62.52515	-99.1402	14	492784	6932692	F546509	847			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		187	W			
Regular Sample	62.52543965	-99.14082315	62.52544	-99.1408	14	492751.4	6932725	f546510	848			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		190	NW			
Regular Sample	62.52572504	-99.14152052	62.52573	-99.1415	14	492715.6	6932757	f546511	849			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		166	NW			
Regular Sample	62.52608021	-99.13945475	62.52608	-99.1395	14	492822	6932796	F546512	841			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		159	W			
Regular Sample	62.52548908	-99.13816976	62.52549	-99.1382	14	492888	6932730	F546513	839			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		157	W			
Regular Sample	62.52462957	-99.13631335	62.52463	-99.1363	14	492983.4	6932634	f546514	836			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Dark Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		181	SE			
Regular Sample	62.52524098	-99.13486592	62.52524	-99.1349	14	493058	6932702	f546515	830			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		153	E			
Regular Sample	62.52553657	-99.13550838	62.52554	-99.1355	14	493025	6932735	f546516	831			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5	Permafrost	183	W			
Regular Sample	62.52676635	-99.13541682	62.52677	-99.1354	14	493030	6932872	f546517	828			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		163	W			
Regular Sample	62.52617518	-99.13413188	62.52618	-99.1341	14	493096	6932806	F546518	826			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		155	NW			
Regular Sample	62.53253363	-99.12042183	62.53253	-99.1204	14	493803	6933513	F546519	706			7/23/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		171	NW			
								F546520			23b																									
Regular Sample	62.53823239	-99.11068797	62.53823	-99.1107	14	494305	6934147	f546521	761			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		194	NW			
Regular Sample	62.53852808	-99.11133046	62.53853	-99.1113	14	494272	6934180	f546522	760			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		190	W			
Regular Sample	62.53882378	-99.11197297	62.53882	-99.112	14	494239	6934213	f546523	759			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		156	W			
Regular Sample	62.53911946	-99.11261549	62.53912	-99.1126	14	494206	6934246	F546524	758			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		193	W			
Regular Sample	62.53941515	-99.11325802	62.53942	-99.1133	14	494173	6934279	F546525	757			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		191	W			
Regular Sample	62.53971083	-99.11390056	62.53971	-99.1139	14	494140	6934312	F546526	756			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		186	W			
Regular Sample	62.54000651	-99.11454311	62.54001	-99.1145	14	494107	6934345	f546527	755			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		192	SW			
Regular Sample	62.54030219	-99.11518568	62.5403	-99.1152	14	494074	6934378	F546528	754			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		192	W			
Regular Sample	62.54089353	-99.11647086	62.54089	-99.1165	14	494008	6934444	f546529	752			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Dark Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		197	W			
Regular Sample	62.5411892	-99.11711347	62.54119	-99.1171	14	493975	6934477	F546530	751			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		178	W			
Regular Sample	62.54148486	-99.11775608	62.54148	-99.1178	14	493942	6934510	F546531	750			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		161	W			
Regular Sample	62.54178053	-99.11839872	62.54178	-99.1184	14	493909	6934543	F546532	749			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		172	W			
Regular Sample	62.54388829	-99.12023442	62.54389	-99.1202	14	493815	6934778	F546533	28			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5	Permafrost	172	W			
Regular Sample	62.54359264	-99.11959172	62.54359	-99.1196	14	493848	6934745	F546534	29			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		168	E			
Regular Sample	62.54300132	-99.11830637	62.543	-99.1183	14	493914	6934679	F546535	31			7/24/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		186	W			
Regular Sample	62.53688545	-99.09948834	62.53689	-99.0995	14	494881	6933996	F546536	142			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		179	SE			
Regular Sample	62.53718119	-99.10013069	62.53718	-99.1001	14	494848	6934029	f546537	141			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		174	S			
Regular Sample	62.53747694	-99.10077306	62.53748	-99.1008	14	494815	6934062	f546538	140			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		<1 mm		Sub-Angular	>10	3 out of 5		183	S			
Duplicate Parent	62.53776427	-99.10139937	62.53776	-99.1014	14	494782.8	6934094	f546539	139			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		162	S			
Duplicate Sample	62.53776117	-99.10140138	62.53776	-99.1014	14	494782.7	6934094	f546540	139	f546539		7/25/2022	Gianna De Vera																							
Regular Sample	62.53808571	-99.1020545	62.53809	-99.1021	14	494749.2	6934130	F546541	138			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Orange Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		176	S			
Regular Sample	62.53836415	-99.10270023	62.53836	-99.1027	14	494716	6934161	f546542	137			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	3	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		<1 mm		Sub-Angular	>10	3 out of 5		190	S			
Regular Sample	62.53865988	-99.10334264	62.53866	-99.1033	14	494683	6934194	f546543	136			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	2 out of 5		176	S			
Regular Sample	62.53895561	-99.10398507	62.53896	-99.104	14	494650	6934227	F546544	135			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		165	S			
Regular Sample	62.53925133	-99.10462751	62.53925	-99.1046	14	494617	6934260	f546545	134			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		170	S			
Regular Sample	62.53954705	-99.10526997	62.53955	-99.1053	14	494584	6934293	F546546	133			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		166	S			
Regular Sample	62.53984277	-99.10591243	62.53984	-99.1059	14	494551	6934326	F546547	132			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		191	N			
Regular Sample	62.54013849	-99.10655491	62.54014	-99.1066	14	494518	6934359	F546548	131			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		190	N			
Regular Sample	62.54141514	-99.10379927	62.54142	-99.1038	14	494660	6934501	F546549	180			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		182	S			
Regular Sample	62.54111941	-99.10315679	62.54112	-99.1032	14	494693	6934468	F546550	179			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Angular	>10	3 out of 5		219	S			
Regular Sample	62.51526006	-99.14357972	62.51526	-99.1436	14	492607	6931591	F546551	945			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		143	N			
Regular Sample	62.51496574	-99.14292701	62.51497	-99.1429	14	492640.5	6931558	F546552	946			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	No Clasts,Clay Rich					>10	4 out of 5		179	NW			
Regular Sample	62.51466896	-99.14229512	62.51467	-99.1423	14	492673	6931525	F546553	947			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		154	SE			
Regular Sample	62.51437341	-99.14165283	62.51437	-99.1417	14	492706	6931492	F546554	948			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Moist	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		178	SW			
Regular Sample	62.51407785	-99.14101056	62.51408	-99.141	14	492739	6931459	F546555	949			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	5 out of 5		173	N			
Regular Sample	62.51378229	-99.1403683	62.51378	-99.1404	14	492772	6931426	F546556	950			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	A	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		175	S			
Regular Sample	62.51417288	-99.13568983	62.51417	-99.1357	14	493013	6931469	F546557	957			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		144	W			
Regular Sample	62.51476404	-99.13697429	62.51476	-99.137	14	492947	6931535	F546558	955			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		171	NW			
Regular Sample	62.51506539	-99.1376283	62.51507	-99.1376	14	492913.4	6931569	F546559	954			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		169	NW			
								F546560			22H																									
Regular Sample	62.51535876	-99.13823012	62.51536	-99.1382	14	492882.5	6931601	F546561	953			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Sandy,No Clasts,Clay Rich					>10	2 out of 5		171	N			
Regular Sample	62.51565075	-99.13890107	62.51565	-99.1389	14	492848	6931634	F546562	952			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Angular	>10	3 out of 5		177	NW			
Regular Sample	62.51692493	-99.13615778	62.51692	-99.1362	14	492989.6	6931776	F546563	958			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Moist	B	25	Red Brown	Sandy,No Clasts					>10	4 out of 5		186	W			
Regular Sample	62.51663246	-99.13550679	62.51663	-99.1355	14	493023	6931743	F546564	959			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Rounded	>10	4 out of 5		163	S			
Regular Sample	62.51633687	-99.13486453	62.51634	-99.1349	14	493056	6931710	F546565	960			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		169	W			
Regular Sample	62.51604129	-99.13422229	62.51604	-99.1342	14	493089	6931677	F546566	961			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,Clay Rich					>10	4 out of 5		178	W			
Regular Sample	62.5157457	-99.13358005	62.51575	-99.1336	14	493122	6931644	F546567	962			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	No Clasts,Clay Rich					>10	4 out of 5		196	W			
Regular Sample	62.5154501	-99.13293783	62.51545	-99.1329	14	493155	6931611	F546568	963			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		174	N			
Regular Sample	62.51516442	-99.13226523	62.51516	-99.1323	14	493189.6	6931579	F546569	964			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		196	W			
Regular Sample	62.51613606	-99.12890119	62.51614	-99.1289	14	493363	6931687	F546570	972			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		166	S			
Regular Sample	62.51643167	-99.12954338	62.51643	-99.1295	14	493330	6931720	F546571	971			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	20	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		190	N			
Regular Sample	62.51672728	-99.13018559	62.51673	-99.1302	14	493297	6931753	F546572	970			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		180	N			
Regular Sample	62.51702288	-99.13082781	62.51702	-99.1308	14	493264	6931786	F546573	969			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		194	NW			
Regular Sample	62.51730014	-99.13144514	62.5173	-99.1314	14	493232.3	6931817	F546574	968			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		184	NW			
Regular Sample	62.51761408	-99.1321123	62.51761	-99.1321	14	493198	6931852	F546575	967			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Red Brown	Sandy,No Clasts					>10	4 out of 5		209	SE			
Regular Sample	62.51820527	-99.13339683	62.51821	-99.1334	14	493132	6931918	F546576	965			7/22/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		212	NW			
Regular Sample	62.52075958	-99.12789165	62.52076	-99.1279	14	493416	6932202	F546577	981			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		156	S			
Regular Sample	62.52046396	-99.12724938	62.52046	-99.1272	14	493449	6932169	F546578	982			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		170	SW			
Regular Sample	62.52017167	-99.12658732	62.52017	-99.1266	14	493483	6932136	F546579	983			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		164	W			
								F546580			23b																									
Regular Sample	62.51987272	-99.12596487	62.51987	-99.126	14	493515	6932103	F546581	984			7/23/2022	Chase McKay	Unlikely Disturbed	Mixed		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		176	W			
Regular Sample	62.51957709	-99.12532263	62.51958	-99.1253	14	493548	6932070	F546582	985			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		152	SE			
Regular Sample	62.51928146	-99.12468041	62.51928	-99.1247	14	493581	6932037	F546583	986			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	4 out of 5		171	N			
Regular Sample	62.51898582	-99.1240382	62.51899	-99.124	14	493614	6932004	F546584	987			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		179	W			
Regular Sample	62.51869019	-99.12339601	62.51869	-99.1234	14	493647	6931971	F546585	988			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich					>10	4 out of 5		188	W			
Regular Sample	62.52026282	-99.12128526	62.52026	-99.1213	14	493756	6932146	F546586	995			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		170	N			
Regular Sample	62.52085411	-99.12256969	62.52085	-99.1226	14	493690	6932212	F546587	993			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		162	SE			
Regular Sample	62.52114975	-99.12321193	62.52115	-99.1232	14	493657	6932245	F546588	992			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		153	S			
Regular Sample	62.52145309	-99.12389237	62.52145	-99.1239	14	493622	6932279	F546589	991			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		180	SE			
Regular Sample	62.52174208	-99.12451699	62.52174	-99.1245	14	493589.9	6932311	F546590	990			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		138	SW			
Regular Sample	62.52203755	-99.12514798	62.52204	-99.1251	14	493557.5	6932344	F546591	989			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Rounded	>10	3 out of 5		162	E			
Regular Sample	62.53750289	-99.1340079	62.5375	-99.134	14	493105	6934068	F546592	774			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Matrix Supported Clasts		>10 mm		Sub-Angular	>10	4 out of 5		180	SE			
Regular Sample	62.5372073	-99.13336521	62.53721	-99.1334	14	493138	6934035	F546593	775			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		>10 mm		Angular	>10	4 out of 5		167	N			
Regular Sample	62.5354337	-99.12950931	62.53543	-99.1295	14	493336	6933837	F546594	781			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Clast Supported		>10 mm		Rounded	>10	1 out of 5	O contamination	189	SW			
Regular Sample	62.53513809	-99.1288667	62.53514	-99.1289	14	493369	6933804	F546595	782			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Rounded	>10	3 out of 5		162	W			
Regular Sample	62.53637684	-99.12877488	62.53638	-99.1288	14	493374	6933942	F546596	693			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Gravely		>10 mm		Sub-Angular	>10	2 out of 5		143	NW			
Regular Sample	62.53548999	-99.12684706	62.53549	-99.1268	14	493473	6933843	F546597	696			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	1 out of 5		157	SE			
Regular Sample	62.53460311	-99.12491936	62.5346	-99.1249	14	493572	6933744	F546598	699			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Light Brown-Grey	Sandy,No Clasts,Clay Rich					>10	3 out of 5		180	NW			
Duplicate Parent	62.53371621	-99.12299177	62.53372	-99.123	14	493671	6933645	F546599	702			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Sandy,Gravely		1-10 mm		Sub-Rounded	>10	2 out of 5		165	S			
Duplicate Sample	62.53371874	-99.12299048	62.53372	-99.123	14	493671.1	6933645	F546600	702	F546599		7/23/2022	Chase McKay																							
Regular Sample	62.5067216	-99.16969136	62.50672	-99.1697	14	491260	6930643	F546601	1103			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	21	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		164	S			
Regular Sample	62.51974188	-99.17279553	62.51974	-99.1728	14	491104	6932094	F546602	1051			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Dark Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		170	N			
Regular Sample	62.51944646	-99.17215284	62.51945	-99.1722	14	491137	6932061	F546603	1050			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		186	N			
Regular Sample	62.51915105	-99.17151015	62.51915	-99.1715	14	491170	6932028	F546604	1049			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Brown	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		184	S			
Regular Sample	62.51885563	-99.17086748	62.51886	-99.1709	14	491203	6931995	F546605	1048			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		182	S			
Regular Sample	62.51856021	-99.17022483	62.51856	-99.1702	14	491236	6931962	F546606	1047			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	28	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		153	S			
Regular Sample	62.51826478	-99.16958218	62.51826	-99.1696	14	491269	6931929	F546607	1046			7/21/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		190	S			
Regular Sample	62.51741315	-99.12614871	62.51741	-99.1261	14	493505	6931829	F546608	980			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	11	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		190	N			
Regular Sample	62.51770877	-99.12679091	62.51771	-99.1268	14	493472	6931862	F546609	979			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		203	N			
Regular Sample	62.51800439	-99.12743312	62.518	-99.1274	14	493439	6931895	F546610	978			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		172	N			
Regular Sample	62.51830001	-99.12807534	62.5183	-99.1281	14	493406	6931928	F546611	977			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		195	N			
Regular Sample	62.51859563	-99.12871758	62.5186	-99.1287	14	493373	6931961	F546612	976			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown-Grey	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		219	N			
Regular Sample	62.51889124	-99.12935983	62.51889	-99.1294	14	493340	6931994	F546613	975			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	26	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		198	N			
Regular Sample	62.51918685	-99.13000209	62.51919	-99.13	14	493307	6932027	F546614	974			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		198	N			
Regular Sample	62.51948245	-99.13064436	62.51948	-99.1306	14	493274	6932060	F546615	973			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		180	N			
Regular Sample	62.51977806	-99.13128664	62.51978	-99.1313	14	493241	6932093	F546616	863			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	24	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		174	N			

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.52007366	-99.13192894	62.52007	-99.1319	14	493208	6932126	F546617	862			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		197	N			
Regular Sample	62.52036926	-99.13257125	62.52037	-99.1326	14	493175	6932159	F546618	861			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Clay Rich		<1 mm		Sub-Angular	>10	2 out of 5		197	N			
Regular Sample	62.52066485	-99.13321358	62.52066	-99.1332	14	493142	6932192	F546619	860			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		212	N			
								F546620			22H																									
Regular Sample	62.52096044	-99.13385592	62.52096	-99.1339	14	493109	6932225	F546621	859			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		202	N			
Regular Sample	62.52125603	-99.13449826	62.52126	-99.1345	14	493076	6932258	F546622	858			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	11	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		173	N			
Regular Sample	62.52214278	-99.13642539	62.52214	-99.1364	14	492977	6932357	F546623	855			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	32	Dark brown/grey	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	1 out of 5		192	N			
Regular Sample	62.52243835	-99.13706779	62.52244	-99.1371	14	492944	6932390	F546624	854			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	31	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		185	N			
Regular Sample	62.52332942	-99.13899321	62.52333	-99.139	14	492845.1	6932489	F546625	850			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		181	N			
Regular Sample	62.52362063	-99.13963752	62.52362	-99.1396	14	492812	6932522	F546626	864			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	17	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		171	N			
Regular Sample	62.52421175	-99.14092246	62.52421	-99.1409	14	492746	6932588	F546627	866			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	24	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		185	N			
Regular Sample	62.52450731	-99.14156495	62.52451	-99.1416	14	492713	6932621	F546628	867			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		161	N			
Regular Sample	62.52480286	-99.14220745	62.5248	-99.1422	14	492680	6932654	F546629	868			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	N			
Regular Sample	62.52416416	-99.14358371	62.52416	-99.1436	14	492609	6932583	F546630	875			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	A	14	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		174	N			
Regular Sample	62.52386862	-99.14294121	62.52387	-99.1429	14	492642	6932550	F546631	874			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		171	N			
Regular Sample	62.52357307	-99.14229872	62.52357	-99.1423	14	492675	6932517	F546632	873			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		183	N			
Regular Sample	62.52327752	-99.14165625	62.52328	-99.1417	14	492708	6932484	F546633	872			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Orange Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		179	N			
Regular Sample	62.52298196	-99.14101378	62.52298	-99.141	14	492741	6932451	F546634	871			7/22/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		193	N			
Regular Sample	62.53437239	-99.14100933	62.53437	-99.141	14	492744	6933720	F546635	824			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		180	S			
Regular Sample	62.53407683	-99.14036664	62.53408	-99.1404	14	492777	6933687	F546636	823			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		202	S			
Regular Sample	62.53378127	-99.13972395	62.53378	-99.1397	14	492810	6933654	F546637	822			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	11	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		189	S			
Regular Sample	62.53348571	-99.13908128	62.53349	-99.1391	14	492843	6933621	F546638	821			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	17	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		201	S			
Regular Sample	62.53319014	-99.13843862	62.53319	-99.1384	14	492876	6933588	F546639	820			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		199	N			
								F546640			23b																									
Regular Sample	62.53289457	-99.13779598	62.53289	-99.1378	14	492909	6933555	F546641	819			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	14	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		162	N			
Regular Sample	62.532599	-99.13715334	62.5326	-99.1372	14	492942	6933522	F546642	818			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		187	N			
Regular Sample	62.53230342	-99.13651072	62.5323	-99.1365	14	492975	6933489	F546643	817			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		197	N			
Regular Sample	62.53200784	-99.13586812	62.53201	-99.1359	14	493008	6933456	F546644	816			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		178	N			
Regular Sample	62.5317321	-99.1352469	62.53173	-99.1352	14	493039.9	6933425	F546645	815			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		200	N			
Regular Sample	62.53141668	-99.13458294	62.53142	-99.1346	14	493074	6933390	F546646	814			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		186	N			
Regular Sample	62.53112109	-99.13394037	62.53112	-99.1339	14	493107	6933357	F546647	813			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Light Brown	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		192	N			
Regular Sample	62.5308255	-99.13329781	62.53083	-99.1333	14	493140	6933324	F546648	812			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		197	N			
Regular Sample	62.53052991	-99.13265527	62.53053	-99.1327	14	493173	6933291	F546649	811			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	16	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		183	S			
Regular Sample	62.53023431	-99.13201274	62.53023	-99.132	14	493206	6933258	F546650	810			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		186	N			
Regular Sample	62.53032857	-99.12665103	62.53033	-99.1267	14	493482	6933268	F546651	785			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		153	S			
Regular Sample	62.53060401	-99.12731789	62.5306	-99.1273	14	493447.7	6933299	F546652	786			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	N			
Regular Sample	62.53092306	-99.12800655	62.53092	-99.128	14	493412.3	6933334	F546653	787			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		198	NW			
Regular Sample	62.53119587	-99.12860736	62.5312	-99.1286	14	493381.5	6933365	F546654	788			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		166	N			
Regular Sample	62.53150285	-99.12930004	62.5315	-99.1293	14	493345.9	6933399	F546655	789			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		186	S			
Regular Sample	62.53180287	-99.12993103	62.5318	-99.1299	14	493313.5	6933433	F546656	790			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		185	S			
Regular Sample	62.53238434	-99.13118765	62.53238	-99.1312	14	493248.9	6933497	F546657	792			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	S			
Regular Sample	62.5327009	-99.13184814	62.5327	-99.1318	14	493215	6933533	F546658	793			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		167	N			
Duplicate Parent	62.53298698	-99.13252406	62.53299	-99.1325	14	493180.3	6933565	F546659	794			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		199	S			
Duplicate Sample	62.5330184	-99.1325879	62.53302	-99.1326	14	493177	6933568	F546660	794	F546659		7/23/2022	Kiana Froese																							
Regular Sample	62.53326147	-99.13311716	62.53326	-99.1331	14	493149.9	6933595	F546661	795			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	9	Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		177	E			
Regular Sample	62.53359472	-99.13380012	62.53359	-99.1338	14	493114.8	6933633	F546662	796			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		187	S			
Regular Sample	62.53387755	-99.13441099	62.53388	-99.1344	14	493083.4	6933664	F546663	797			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		195	N			
Regular Sample	62.53446811	-99.13570181	62.53447	-99.1357	14	493017.1	6933730	F546664	799			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		199	S			
Regular Sample	62.53505216	-99.13698826	62.53505	-99.137	14	492951.1	6933795	F546665	801			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		170	W			
Regular Sample	62.53535214	-99.13759645	62.53535	-99.1376	14	492919.9	6933829	F546666	802			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	N			
Regular Sample	62.53565382	-99.13824119	62.53565	-99.1382	14	492886.7	6933862	F546667	803			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	9	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	2 out of 5		163	S			
Regular Sample	62.53877235	-99.13125403	62.53877	-99.1313	14	493247	6934209	F546668	764			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		159	S			
Regular Sample	62.53848462	-99.13057242	62.53848	-99.1306	14	493282	6934177	F546669	765			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		149	N			
Regular Sample	62.5378943	-99.12932184	62.53789	-99.1293	14	493346.2	6934111	F546670	767			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	7	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		178	W			
Regular Sample	62.53759465	-99.12868649	62.53759	-99.1287	14	493378.8	6934078	F546671	768			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		197	E			
Regular Sample	62.53642108	-99.12610218	62.53642	-99.1261	14	493511.5	6933947	F546672	772			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		168	NE			
Regular Sample	62.53500036	-99.12021473	62.535	-99.1202	14	493814.2	6933788	F546673	717			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		183	NW			
Regular Sample	62.53440765	-99.11890011	62.53441	-99.1189	14	493881.7	6933722	F546674	719			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		151	SW			
Regular Sample	62.53410085	-99.118306	62.5341	-99.1183	14	493912.2	6933687	F546675	720			7/23/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		175	E			
Regular Sample	62.53540394	-99.11556043	62.5354	-99.1156	14	494053.7	6933832	F546676	734			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		146	S			
Regular Sample	62.53568521	-99.11619309	62.53569	-99.1162	14	494021.2	6933864	F546677	733			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		156	S			
Regular Sample	62.5359855	-99.11685962	62.53599	-99.1169	14	493987	6933897	F546678	732			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		155	N			
Regular Sample	62.53626166	-99.11745172	62.53626	-99.1175	14	493956.6	6933928	F546679	731			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	S			
								F546680			22H																									
Regular Sample	62.53656132	-99.11808439	62.53656	-99.1181	14	493924.1	6933962	F546681	730			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		185	S			
Regular Sample	62.53715383	-99.11940873	62.53715	-99.1194	14	493856.1	6934028	F546682	728			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	No Clasts,Clay Rich					1 to 10	3 out of 5		184	W			
Regular Sample	62.53744127	-99.12007224	62.53744	-99.1201	14	493822	6934060	F546683	727			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	50	Light Brown	No Clasts,Clay Rich					1 to 10	2 out of 5		167	SE			
Regular Sample	62.53803918	-99.12138853	62.53804	-99.1214	14	493754.4	6934126	F546684	725			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	45	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Angular	1 to 10	2 out of 5	Frozen	167	N			
Regular Sample	62.53772082	-99.12336264	62.53772	-99.1234	14	493652.8	6934091	F546685	762			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	1 out of 5		165	S			
Regular Sample	62.53800006	-99.12397753	62.538	-99.124	14	493621.2	6934122	F546686	679			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Light Brown-Grey	Clay Rich					1 to 10	3 out of 5		181	S			
Regular Sample	62.53857986	-99.1253002	62.53858	-99.1253	14	493553.3	6934187	F546687	677			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Grey	No Clasts,Clay Rich					1 to 10	2 out of 5		172	N			
Regular Sample	62.53886064	-99.12596438	62.53886	-99.126	14	493519.2	6934218	F546688	676			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Grey	No Clasts,Clay Rich					1 to 10	3 out of 5		180	N			
Regular Sample	62.53915672	-99.12660275	62.53916	-99.1266	14	493486.4	6934251	F546689	675			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Grey	No Clasts,Clay Rich					1 to 10	3 out of 5		161	N			
Regular Sample	62.53946454	-99.12726626	62.53946	-99.1273	14	493452.3	6934286	F546690	674			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		177	E			
Regular Sample	62.5397532	-99.12784662	62.53975	-99.1278	14	493422.5	6934318	F546691	673			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		178	S			
Regular Sample	62.54031735	-99.12912067	62.54032	-99.1291	14	493357.1	6934381	F546692	671			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	E			
Regular Sample	62.54162744	-99.1264398	62.54163	-99.1264	14	493495.3	6934527	F546693	664			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		183	N			
Regular Sample	62.54016986	-99.12321042	62.54017	-99.1232	14	493661.1	6934364	F546694	666			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	40	Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		182	S			
Regular Sample	62.53955623	-99.12188273	62.53956	-99.1219	14	493729.3	6934296	F546695	668			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	45	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		198	N			
Regular Sample	62.53926572	-99.12122928	62.53927	-99.1212	14	493762.9	6934263	F546696	669			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		194	S			
Regular Sample	62.53898093	-99.12057012	62.53898	-99.1206	14	493796.7	6934231	F546697	670			7/24/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		181	W			
Regular Sample	62.54672824	-99.11538776	62.54673	-99.1154	14	494064.9	6935094	F546698	198			7/25/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	N			
Regular Sample	62.54643378	-99.11467765	62.54643	-99.1147	14	494101.4	6935061	F546699	197			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		166	N			
								F546700			23b																									
Regular Sample	62.52993871	-99.13137022	62.52994	-99.1314	14	493239	6933225	F546701	809			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	17	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		159	N			
Regular Sample	62.52964311	-99.13072772	62.52964	-99.1307	14	493272	6933192	F546702	808			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		193	N			
Regular Sample	62.5293475	-99.13008522	62.52935	-99.1301	14	493305	6933159	F546703	807			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		199	N			
Regular Sample	62.52905189	-99.12944274	62.52905	-99.1294	14	493338	6933126	F546704	806			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		171	N			
Regular Sample	62.52875628	-99.12880028	62.52876	-99.1288	14	493371	6933093	F546705	805			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	24	Brown	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		180	S			
Regular Sample	62.53765393	-99.12602054	62.53765	-99.126	14	493516	6934084	F546706	708			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		183	N			
Regular Sample	62.53312493	-99.12170678	62.53312	-99.1217	14	493737	6933579	F546707	704			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	N			
Regular Sample	62.53676704	-99.12409272	62.53677	-99.1241	14	493615	6933985	F546708	711			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Swampy Forest		flat	Wet	B	26	Dark Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	2 out of 5		192	N			
Regular Sample	62.53617577	-99.12280757	62.53618	-99.1228	14	493681	6933919	F546709	713			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	26	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	>10	4 out of 5		178	N			
Regular Sample	62.53282928	-99.1210643	62.53283	-99.1211	14	493770	6933546	F546710	705			7/23/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Brown	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		197	N			
Regular Sample	62.53501741	-99.10095908	62.53502	-99.101	14	494805	6933788	F546711	58			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	31	Dark brown/grey	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	S			
Regular Sample	62.53531315	-99.10160141	62.53531	-99.1016	14	494772	6933821	F546712	57			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		176	S			
Regular Sample	62.53560888	-99.10224375	62.53561	-99.1022	14	494739	6933854	F546713	56			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		175	S			
Regular Sample	62.53590462	-99.1028861	62.5359	-99.1029	14	494706	6933887	F546714	55			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		180	S			
Regular Sample	62.53649608	-99.10417084	62.5365	-99.1042	14	494640	6933953	F546715	53			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	14	Light Brown-Grey	Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		177	S			
Regular Sample	62.5367918	-99.10481323	62.53679	-99.1048	14	494607	6933986	F546716	52			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	16	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		177	S			
Regular Sample	62.53708752	-99.10545564	62.53709	-99.1055	14	494574	6934019	F546717	51			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Brown	Sandy		1-10 mm		Sub-Rounded	>10	2 out of 5		183	S			
Regular Sample	62.53738324	-99.10609805	62.53738	-99.1061	14	494541	6934052	F546718	50			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	27	Dark Brown	Sandy		1-10 mm		Sub-Rounded	>10	2 out of 5		186	S			
Duplicate Parent	62.53767895	-99.10674048	62.53768	-99.1067	14	494508	6934085	F546719	49			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		180	S			
Duplicate Sample	62.537664	-99.1067498	62.53766	-99.1067	14	494507.5	6934083	F546720	49	F546719		7/24/2022	Zach Buehler																							
Regular Sample	62.53827038	-99.10802538	62.53827	-99.108	14	494442	6934151	F546721	47			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Grey	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		173	S			
Regular Sample	62.53856608	-99.10866784	62.53857	-99.1087	14	494409	6934184	F546722	46			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	31	Brown	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		181	S			
Regular Sample	62.53915749	-99.10995281	62.53916	-99.11	14	494343	6934250	F546723	44			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		173	S			
Regular Sample	62.53945318	-99.11059532	62.53945	-99.1106	14	494310	6934283	F546724	43			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	7	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		179	S			
Regular Sample	62.53974888	-99.11123784	62.53975	-99.1112	14	494277	6934316	F546725	42			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		183	S			
Regular Sample	62.54004457	-99.11188037	62.54004	-99.1119	14	494244	6934349	F546726	41			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Dark Brown	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		182	S			
Regular Sample	62.54034026	-99.11252291	62.54034	-99.1125	14	494211	6934382	F546727	40			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		178	S			

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_c	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.54063595	-99.11316546	62.54064	-99.1132	14	494178	6934415	F546728	39			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	18	Light Brown-Grey	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		178	S			
Regular Sample	62.54093163	-99.11380803	62.54093	-99.1138	14	494145	6934448	F546729	38			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	14	Light Brown-Grey	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		197	S			
Regular Sample	62.54122731	-99.11445061	62.54123	-99.1145	14	494112	6934481	F546730	37			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		190	S			
Regular Sample	62.54152298	-99.11509321	62.54152	-99.1151	14	494079	6934514	F546731	36			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		179	S			
Regular Sample	62.54181866	-99.11573581	62.54182	-99.1157	14	494046	6934547	F546732	35			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	8	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		181	S			
Regular Sample	62.54211433	-99.11637843	62.54211	-99.1164	14	494013	6934580	F546733	34			7/24/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	17	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		177	S			
Regular Sample	62.54801457	-99.1126102	62.54801	-99.1126	14	494208	6935237	F546734	244			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Light Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		173	S			
Regular Sample	62.54771888	-99.1119675	62.54772	-99.112	14	494241	6935204	F546735	243			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	24	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		176	S			
Regular Sample	62.5471275	-99.11068212	62.54713	-99.1107	14	494307	6935138	F546736	241			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	12	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		182	S			
Regular Sample	62.5468318	-99.11003944	62.54683	-99.11	14	494340	6935105	F546737	240			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Light Brown-Grey	Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		173	N			
Regular Sample	62.5465361	-99.10939679	62.54654	-99.1094	14	494373	6935072	F546738	239			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		175	S			
Regular Sample	62.54594469	-99.10811151	62.54594	-99.1081	14	494439	6935006	F546739	237			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Brown	Sandy		>10 mm		Sub-Angular	>10	2 out of 5		178	S			
								F546740			22H																									
Regular Sample	62.54564898	-99.10746889	62.54565	-99.1075	14	494472	6934973	F546741	236			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Dark Brown	Matrix Supported Clasts		>10 mm		Sub-Angular	>10	1 out of 5		175	S			
Regular Sample	62.54535327	-99.10682628	62.54535	-99.1068	14	494505	6934940	F546742	235			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	9	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		179	S			
Regular Sample	62.54505756	-99.10618369	62.54506	-99.1062	14	494538	6934907	F546743	234			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	18	Brown	Sandy		1-10 mm		Sub-Angular	>10	1 out of 5		180	S			
Regular Sample	62.54476184	-99.1055411	62.54476	-99.1055	14	494571	6934874	F546744	233			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		177	S			
Regular Sample	62.54417039	-99.10425598	62.54417	-99.1043	14	494637	6934808	F546745	231			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		179	N			
Regular Sample	62.54387467	-99.10361343	62.54387	-99.1036	14	494670	6934775	F546746	230			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	12	Light Brown	Sandy,Gravely		1-10 mm		Sub-Angular	>10	1 out of 5		176	S			
Regular Sample	62.54357894	-99.1029709	62.54358	-99.103	14	494703	6934742	F546747	229			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	23	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		183	S			
Regular Sample	62.53342678	-99.1223605	62.53343	-99.1224	14	493703.4	6933613	F546751	703			7/23/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	5	Red Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		173	NW			
Regular Sample	62.53551513	-99.10756841	62.53552	-99.1076	14	494465	6933844	F546752	1			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		180	E			
Regular Sample	62.53581084	-99.10821081	62.53581	-99.1082	14	494432	6933877	F546753	2			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		>10 mm		Sub-Rounded	>10	4 out of 5		179	N			
Regular Sample	62.53610655	-99.10885323	62.53611	-99.1089	14	494399	6933910	F546754	3			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Clast Supported,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		173	NW			
Regular Sample	62.53640531	-99.10951138	62.53641	-99.1095	14	494365.2	6933943	F546755	4			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Light Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Rounded	>10	3 out of 5		171	E			
Regular Sample	62.53669795	-99.1101381	62.5367	-99.1101	14	494333	6933976	F546756	5			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Rounded	>10	2 out of 5		171	E			
Regular Sample	62.53699364	-99.11078055	62.53699	-99.1108	14	494300	6934009	F546757	6			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Moist	B	15	Brown	Sandy,No Clasts					>10	1 out of 5		175	E			
Regular Sample	62.53729083	-99.11141004	62.53729	-99.1114	14	494267.7	6934042	F546758	7			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Brown	Sandy,No Clasts					>10	1 out of 5	Possibly fluvial	175	NW			
Regular Sample	62.53758503	-99.11206549	62.53759	-99.1121	14	494234	6934075	F546759	8			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Brown	Sandy,No Clasts					>10	1 out of 5		179	N			
								F546760			23b																									
Regular Sample	62.53817214	-99.11334023	62.53817	-99.1133	14	494168.5	6934141	F546761	10			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		176	N			
Regular Sample	62.53876776	-99.11463554	62.53877	-99.1146	14	494102	6934207	F546762	12			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Gravely,No Clasts,Clay Rich					>10	3 out of 5		166	S			
Regular Sample	62.53935911	-99.11592064	62.53936	-99.1159	14	494036	6934273	F546763	14			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	28	Red Brown	Sandy,No Clasts					>10	1 out of 5		180	NW			
Regular Sample	62.53965478	-99.1165632	62.53965	-99.1166	14	494003	6934306	F546764	15			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Sandy,No Clasts					>10	2 out of 5		180	NW			
Regular Sample	62.53995045	-99.11720579	62.53995	-99.1172	14	493970	6934339	F546765	16			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		181	S			
Regular Sample	62.54024611	-99.11784838	62.54025	-99.1178	14	493937	6934372	F546766	17			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Brown	Sandy,No Clasts,Clay Rich					>10	4 out of 5		173	SW			
Regular Sample	62.54054177	-99.11849099	62.54054	-99.1185	14	493904	6934405	F546767	18			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown-Grey	No Clasts,Clay Rich					>10	4 out of 5		181	NW			
Regular Sample	62.54083743	-99.1191336	62.54084	-99.1191	14	493871	6934438	F546768	19			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		178	NE			
Regular Sample	62.54202004	-99.12170421	62.54202	-99.1217	14	493739	6934570	F546769	23			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	35	Light Brown-Grey	No Clasts,Clay Rich					>10	4 out of 5		182	SE			
Regular Sample	62.54290696	-99.1236323	62.54291	-99.1236	14	493640	6934669	F546770	26			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		>10 mm		Sub-Angular	>10	4 out of 5		185	S			
Regular Sample	62.53902532	-99.11794074	62.53903	-99.1179	14	493932	6934236	F546771	740			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Brown	Sandy,No Clasts					>10	1 out of 5		186	SE			
Regular Sample	62.53843398	-99.11665561	62.53843	-99.1167	14	493998	6934170	F546772	742			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Light Brown-Grey	Sandy,No Clasts,Clay Rich					>10	4 out of 5		177	NW			
Regular Sample	62.53754697	-99.11472802	62.53755	-99.1147	14	494097	6934071	F546773	745			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Sandy,No Clasts					>10	4 out of 5		172	N			
Regular Sample	62.53695561	-99.11344303	62.53696	-99.1134	14	494163	6934005	F546774	747			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	2 out of 5		183	E			
Regular Sample	62.53725129	-99.11408552	62.53725	-99.1141	14	494130	6934038	F546775	746			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Brown	Matrix Supported Clasts,Sandy		>10 mm		Sub-Angular	>10	4 out of 5		175	SE			
Regular Sample	62.53665992	-99.11280055	62.53666	-99.1128	14	494196	6933972	F546776	748			7/24/2022	Chase McKay	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Brown	Sandy,No Clasts,Clay Rich					>10	3 out of 5		183	NW			
Regular Sample	62.54082368	-99.10251432	62.54082	-99.1025	14	494726	6934435	F546777	178			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		188	S			
Regular Sample	62.53990981	-99.1005652	62.53991	-99.1006	14	494826.1	6934333	f546778	175			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		188	S			
Duplicate Parent	62.53964072	-99.09994458	62.53964	-99.0999	14	494858	6934303	F546779	174			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Angular	>10	3 out of 5		186	S			
Duplicate Sample	62.5396252	-99.0999423	62.53963	-99.0999	14	494858.1	6934301	f546780	178	f546779		7/25/2022	Gianna De Vera																							
Regular Sample	62.53934497	-99.09930218	62.53934	-99.0993	14	494891	6934270	f546781	173			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		164	S			
Regular Sample	62.53908544	-99.09866184	62.53909	-99.0987	14	494923.9	6934241	F546782	172			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Sandy,No Clasts		1-10 mm		Sub-Angular	>10	3 out of 5			S			
Regular Sample	62.53875347	-99.09801741	62.53875	-99.098	14	494957	6934204	f546783	171			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		187	S			
Regular Sample	62.53845772	-99.09737504	62.53846	-99.0974	14	494990	6934171	f546784	170			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		183	S			
Regular Sample	62.5381539	-99.09673769	62.53815	-99.0967	14	495022.7	6934137	f546785	169			7/25/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	3 out of 5		178	S			
Regular Sample	62.54199507	-99.08845872	62.542	-99.0885	14	495449.3	6934564	F546786	305			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Clay Rich					1 to 10	3 out of 5		177	W			
Regular Sample	62.54199136	-99.08831555	62.54199	-99.0883	14	495456.7	6934564	F546786	305			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Clay Rich					1 to 10	3 out of 5	Original point and photos delete		W			
Regular Sample	62.58959658	-98.68622258	62.5896	-98.6862	14	516116.3	6939904	F546787	3			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	4 out of 5		173	N			
Regular Sample	62.5887492	-98.68717879	62.58875	-98.6872	14	516067.6	6939809	F546788	5			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	12	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		177	S			
Regular Sample	62.5879285	-98.6880257	62.58793	-98.688	14	516024.6	6939717	F546789	7			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	6	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		171	N			
Regular Sample	62.58547134	-98.69068645	62.58547	-98.6907	14	515889.2	6939443	F546790	13			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	5	Brown	Sandy					1 to 10	2 out of 5		185	S			
Regular Sample	62.58299948	-98.69329792	62.583	-98.6933	14	515756.4	6939167	F546791	19			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Orange Brown	Clast Supported,Sandy		>10 mm		Sub-Angular	1 to 10	2 out of 5		173	N			
Regular Sample	62.58218525	-98.6941532	62.58219	-98.6942	14	515712.9	6939076	F546792	21			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Red Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	S			
Regular Sample	62.5788761	-98.6976555	62.57888	-98.6977	14	515534.7	6938707	F546793	29			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Clast Supported,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		176	S			
Regular Sample	62.57809821	-98.69845312	62.5781	-98.6985	14	515494.1	6938620	F546794	31			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Clast Supported,Sandy		>10 mm		Sub-Angular	1 to 10	3 out of 5		178	W			
Regular Sample	62.57725173	-98.69936205	62.57725	-98.6994	14	515447.8	6938525	F546795	33			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	15	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5	174		S			
Regular Sample	62.57640106	-98.70021366	62.5764	-98.7002	14	515404.5	6938430	F546796	35			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	6	Light Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		180	W			
Regular Sample	62.57559237	-98.70108705	62.57559	-98.7011	14	515360	6938340	F546797	37			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Moist	B	9	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		184	N			
Regular Sample	62.57311551	-98.70360967	62.57312	-98.7036	14	515231.7	6938063	F546798	43			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	18	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		171	S			
Regular Sample	62.5706488	-98.70623119	62.57065	-98.7062	14	515098.2	6937788	F546799	49			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	16	Red Brown	Matrix Supported Clasts		1-10 mm		Sub-Angular	1 to 10	3 out of 5		178	W			
								F546800			22H																									
Regular Sample	62.54613268	-99.11408488	62.54613	-99.1141	14	494131.8	6935027	F546801	196			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		176	E			
Regular Sample	62.5458495	-99.113473	62.54585	-99.1135	14	494163.2	6934996	F546802	195			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		198	E			
Regular Sample	62.54554467	-99.11279608	62.54554	-99.1128	14	494198	6934962	F546803	194			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		181	E			
Regular Sample	62.54525561	-99.11215536	62.54526	-99.1122	14	494230.9	6934930	F546804	193			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		178	S			
Regular Sample	62.54495836	-99.11146604	62.54496	-99.1115	14	494266.3	6934896	F546805	192			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	23	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		185	E			
Regular Sample	62.54466836	-99.11083102	62.54467	-99.1108	14	494298.9	6934864	F546806	191			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		163	S			
Regular Sample	62.54436507	-99.11020305	62.54437	-99.1102	14	494331.1	6934830	F546807	190			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		163	N			
Regular Sample	62.54406085	-99.10955697	62.54406	-99.1096	14	494364.3	6934796	F546808	189			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		181	E			
Regular Sample	62.54376745	-99.10894208	62.54377	-99.1089	14	494395.9	6934764	F546809	188			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	9	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		180	N			
Regular Sample	62.54319424	-99.10767708	62.54319	-99.1077	14	494460.8	6934700	F546810	186			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	18	Brown	Sandy					1 to 10	3 out of 5		170	E			
Regular Sample	62.54288722	-99.10703972	62.54289	-99.107	14	494493.6	6934665	F546811	185			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		180	E			
Regular Sample	62.54259613	-99.1063799	62.5426	-99.1064	14	494527.5	6934633	F546812	184			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		165	S			
Regular Sample	62.54232544	-99.10573114	62.54233	-99.1057	14	494560.8	6934603	F546813	183			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Red	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		167	N			
Regular Sample	62.54201176	-99.10505757	62.54201	-99.1051	14	494595.4	6934568	F546814	182			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	19	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	NW			
Regular Sample	62.54171123	-99.10446513	62.54171	-99.1045	14	494625.8	6934534	F546815	181			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Light Brown	Sandy					1 to 10	4 out of 5		163	W			
Regular Sample	62.54300347	-99.10170916	62.543	-99.1017	14	494767.8	6934678	F546816	227			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	41	Light Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5		176	E			
Regular Sample	62.542698	-99.10105873	62.5427	-99.1011	14	494801.2	6934644	F546817	226			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		172	E			
Regular Sample	62.54209725	-99.09976255	62.5421	-99.0998	14	494867.8	6934577	F546818	224			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		162	N			
Regular Sample	62.54179286	-99.09915403	62.54179	-99.0992	14	494899	6934543	F546819	223			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		159	E			
								F546820			23b																									
Regular Sample	62.54150875	-99.09847354	62.54151	-99.0985	14	494934	6934511	F546821	222			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Red	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		154	E			
Regular Sample	62.54120353	-99.09785718	62.5412	-99.0979	14	494965.7	6934477	F546822	221			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	25	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		178	E			
Regular Sample	62.54089835	-99.09718059	62.5409	-99.0972	14	495000.4	6934443	F546823	220			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		163	N			
Regular Sample	62.54060584	-99.09657642	62.54061	-99.0966	14	495031.4	6934410	F546824	219			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	W			
Regular Sample	62.54032972	-99.09591928	62.54033	-99.0959	14	495065.2	6934379	F546825	218			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		159	E			
Regular Sample	62.54003767	-99.09525845	62.54004	-99.0953	14	495099.2	6934347	F546826	217			7/25/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	3 out of 5		153	E			
Regular Sample	62.56896976	-98.70794244	62.56897	-98.7079	14	515011.1	6937601	F546827	53			7/30/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	1 to 10	2 out of 5			N			
Regular Sample	62.53943841	-99.09397681	62.53944	-99.094	14	495165	6934280	F546828	215			7/25/2022	Zach Buehler	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	16	Brown	Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		181	S			
Regular Sample	62.5416027	-99.09313884	62.5416	-99.0931	14	495208.5	6934521	F546829	262			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		184	N			
Regular Sample	62.54191344	-99.09379933	62.54191	-99.0938	14	495174.5	6934556	F546830	263			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		180	S			
Regular Sample	62.54219712	-99.09443233	62.5422	-99.0944	14	495142	6934587	F546831	264			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	4 out of 5		170	NW			
Regular Sample	62.54249317	-99.09510959	62.54249	-99.0951	14	495107.2	6934620	F546832	265			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	7	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		178	NE			
Regular Sample	62.54278427	-99.09569599	62.54278	-99.0957	14	495077.1	6934653	F546833	266			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		185	S			
Regular Sample	62.54307953	-99.09632932	62.54308	-99.0963	14	495044.6	6934686	F546834	267			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	15	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		178	W			
Regular Sample	62.54337526	-99.09697406	62.54338	-99.097	14	495011.5	6934719	f546835	268			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		193	E			
Regular Sample	62.54367269	-99.09759499	62.54367	-99.0976	14	494979.6	6934752	F546836	269			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	20	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		178	N			
Regular Sample	62.54397227	-99.0982699	62.54397	-99.0983	14	494944.9	6934785	F546837	270			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	30	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		186	N			
Regular Sample	62.54426815	-99.09896627	62.54427	-99.099	14	494909.1	6934818	F546838	271			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Light Brown-Grey	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		179	S			
Duplicate Parent	62.54573465	-99.10217017	62.54573	-99.1022	14	494744.6	6934982	F546839	276			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	4 out of 5		189	E			
Duplicate Sample	62.5456902	-99.102189	62.54569	-99.1022	14	494743.6	6934977	F546840	276	F546839		7/31/2022	Kiana Froese																							

status	latitude	longitude	latitude	longitude	utm_zone	utm_easti	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_o	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
Regular Sample	62.54603298	-99.10279714	62.54603	-99.1028	14	494712.4	6935015	f546841	277			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	21	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		188	S			
Regular Sample	62.54633161	-99.10342142	62.54633	-99.1034	14	494680.3	6935049	f546842	278			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	6	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		183	N			
Regular Sample	62.54662947	-99.10405945	62.54663	-99.1041	14	494647.6	6935082	f546843	279			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	4 out of 5		187	N			
Regular Sample	62.54691836	-99.10473302	62.54692	-99.1047	14	494613	6935114	f546844	280			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Marsh/Swamp		flat	Wet	B	10	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		182	S			
Regular Sample	62.54782738	-99.10665616	62.54783	-99.1067	14	494514.2	6935216	f546845	283			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	4 out of 5		194	N			
Regular Sample	62.54839153	-99.10794564	62.54839	-99.1079	14	494448	6935279	f546846	285			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	8	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		175	N			
Regular Sample	62.54869602	-99.10851628	62.5487	-99.1085	14	494418.7	6935313	f546847	286			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	28	Light Brown-Grey	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		183	N			
Regular Sample	62.54898906	-99.10919655	62.54899	-99.1092	14	494383.8	6935345	f546848	287			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	3 out of 5		191	N			
Regular Sample	62.54928597	-99.10987113	62.54929	-99.1099	14	494349.1	6935378	f546849	288			7/31/2022	Kiana Froese	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	13	Red Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Rounded	1 to 10	4 out of 5		192	S			
Regular Sample	62.53528673	-99.0684139	62.53529	-99.0684	14	496479.7	6933816	f546901	331			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Light Brown	Clay Rich					1 to 10	3 out of 5		179	W			
Regular Sample	62.5358754	-99.06968661	62.53588	-99.0697	14	496414.3	6933881	f546902	333			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	35	Light Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		189	N			
Regular Sample	62.53645989	-99.07087483	62.53646	-99.0709	14	496353.2	6933947	f546903	335			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	40	Light Brown	Matrix Supported Clasts,Clay Rich		1-10 mm		Sub-Angular	1 to 10	2 out of 5		173	S			
Regular Sample	62.58999276	-98.68591249	62.58999	-98.6859	14	516132	6939948	f546905	2			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Red Brown	Sandy					1 to 10	4 out of 5		176	S			
Regular Sample	62.58917413	-98.68677881	62.58917	-98.6868	14	516087.9	6939857	f546906	4			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Red Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	4 out of 5		180	N			
Regular Sample	62.58834541	-98.6875999	62.58835	-98.6876	14	516046.2	6939764	f546907	6			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	10	Red Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		180	S			
Regular Sample	62.58752121	-98.6885084	62.58752	-98.6885	14	516000	6939672	f546908	8			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Red Brown	Sandy		>10 mm		Sub-Angular	1 to 10	3 out of 5		185	S			
Regular Sample	62.58422574	-98.69196894	62.58423	-98.692	14	515824	6939304	f546909	16			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	15	Red Brown	Sandy		>10 mm		Sub-Angular	1 to 10	3 out of 5		185	S			
Regular Sample	62.58260565	-98.69356379	62.58261	-98.6936	14	515742.9	6939123	f546910	20			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	15	Red	Clast Supported		>10 mm		Sub-Rounded	1 to 10	2 out of 5	Off point due to bedr	178	N			
Regular Sample	62.58173151	-98.69454078	62.58173	-98.6945	14	515693.2	6939025	f546911	22			7/30/2022	Houd Arar	Unlikely Disturbed	Coniferous		Forest		flat	Moist	A	35	Red Brown	Clay Rich		1-10 mm			>10	4 out of 5	Off-site due to bouldr	175	N			
Regular Sample	62.57763454	-98.69888772	62.57763	-98.6989	14	515472	6938568	f546912	32			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	20	Red Brown	Sandy					>10	5 out of 5		180	N			
Regular Sample	62.57681061	-98.69975235	62.57681	-98.6998	14	515428	6938476	f546913	34			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Sandy					>10	5 out of 5	Quartz clast	179	N			
Regular Sample	62.57598668	-98.70061693	62.57599	-98.7006	14	515384	6938384	f546914	36			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	10	Red Brown	Sandy		1-10 mm		Sub-Angular	1 to 10	3 out of 5		173	S			
Regular Sample	62.57104298	-98.70580343	62.57104	-98.7058	14	515120	6937832	f546915	48			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Dark Brown	Sandy					1 to 10	2 out of 5		176	S			
Regular Sample	62.57021901	-98.70666768	62.57022	-98.7067	14	515076	6937740	f546916	50			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Red Brown	Sandy					1 to 10	3 out of 5		163	S			
Regular Sample	62.56939504	-98.70753188	62.5694	-98.7075	14	515032	6937648	f546917	52			7/30/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Dry	B	20	Orange	Sandy					>10	4 out of 5			N			
Regular Sample	62.54344792	-99.09173805	62.54345	-99.0917	14	495280.8	6934727	f546918	310			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Brown	Clast Supported		>10 mm		Sub-Rounded	>10	2 out of 5		173	N			
Duplicate Parent	62.54406167	-99.09296107	62.54406	-99.093	14	495218	6934795	f546919	312			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	25	Red Brown	No Clasts,Clay Rich					>10	5 out of 5		185	S			
Duplicate Sample	62.5440521	-99.0929681	62.54405	-99.093	14	495217.6	6934794	f546920	312	f546919		7/31/2022	Houd Arar																							
Regular Sample	62.54437095	-99.09360722	62.54437	-99.0936	14	495184.8	6934830	f546921	313			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	35	Red Brown	Clay Rich					>10	3 out of 5		181	N			
Regular Sample	62.54465322	-99.09424597	62.54465	-99.0942	14	495152	6934861	f546922	314			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		gentle	Wet	B	5	Red Brown	Clay Rich					>10	4 out of 5		175	S			
Regular Sample	62.54613204	-99.09745844	62.54613	-99.0975	14	494987	6935026	f546923	319			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	45	Red Brown	Matrix Supported Clasts,Clay Rich		>10 mm		Rounded	>10	3 out of 5		179	S			
Regular Sample	62.54638927	-99.09818541	62.54639	-99.0982	14	494949.6	6935055	f546924	320			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	50	Red	Sandy,Clay Rich		<1 mm			>10	4 out of 5		187	S			
Regular Sample	62.54668821	-99.09869738	62.54669	-99.0987	14	494923.4	6935088	f546925	321			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	A	25	Red Brown	Sandy,Clay Rich					>10	4 out of 5		198	S			
Regular Sample	62.54740356	-99.09978233	62.5474	-99.0998	14	494867.7	6935168	f546926	323			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Dry	B	30	Orange Brown	Sandy,Clay Rich					>10	4 out of 5	Offpoint due to small	181	S			
Regular Sample	62.54771191	-99.10062522	62.54771	-99.1006	14	494824.4	6935202	f546927	324			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	30	Orange Brown	Sandy,Clay Rich					>10	4 out of 5		185	S			
Regular Sample	62.54790652	-99.10131381	62.54791	-99.1013	14	494789	6935224	f546928	325			7/31/2022	Houd Arar	Unlikely Disturbed	Alders		Plains		flat	Wet	B	30	Red Brown	Sandy,Clay Rich					>10	4 out of 5		172	S			
Regular Sample	62.54820226	-99.10195642	62.5482	-99.102	14	494756	6935257	f546929	326			7/31/2022	Houd Arar	Unlikely Disturbed	Alders		Plains		flat	Wet	B	50	Red Brown	Sandy,Clay Rich		>10 mm		Sub-Rounded	>10	3 out of 5		179	N			
Regular Sample	62.54909555	-99.10388611	62.5491	-99.1039	14	494656.9	6935357	f546930	329			7/31/2022	Houd Arar	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	20	Red Brown	Sandy,Clay Rich		<1 mm			>10	3 out of 5		188	W			
Regular Sample	62.5410106	-99.09186304	62.54101	-99.0919	14	495274	6934455	f546951	260			7/30/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Wet	B	5	Light Brown	Matrix Supported Clasts,Sandy,Clay Rich		1-10 mm		Sub-Angular	>10	3 out of 5		175	NW			
Regular Sample	62.54130638	-99.09250541	62.54131	-99.0925	14	495241	6934488	f546952	261			7/30/2022	Gianna De Vera	Unlikely Disturbed	Tundra		Plains		flat	Moist	B	25	Brown	Matrix Supported Clasts,Sandy		1-10 mm		Sub-Angular	>10	2 out of 5		191	NE			
No Sample	62.50693724	-99.16194574	62.50694	-99.1619	14	491659	6930666		1102			7/21/2022	Kiana Froese																							Swamp
No Sample	62.5072327	-99.16258806	62.50723	-99.1626	14	491626	6930699		1101			7/21/2022	Kiana Froese																							Swamp
No Sample	62.50750515	-99.16322026	62.50751	-99.1632	14	491593.5	6930729		1100			7/21/2022	Kiana Froese																							Swamp
No Sample	62.50840763	-99.16516487	62.50841	-99.1652	14	491493.6	6930830		1097			7/21/2022	Kiana Froese																							Swamp
																																				Swamp
No Sample	62.50870995	-99.16579988	62.50871	-99.1658	14	491461	6930864		1096			7/21/2022	Kiana Froese																							
No Sample	62.51461823	-99.17865033	62.51462	-99.1787	14	490801	6931524		1076			7/21/2022	Kiana Froese																							Swamp
No Sample	62.51245324	-99.16552938	62.51245	-99.1655	14	491476	6931281		1053			7/21/2022	Gianna De Vera																							Organic woody material
No Sample	62.51215779	-99.16488692	62.51216	-99.1649	14	491509	6931248		1052			7/21/2022	Gianna De Vera																							Organic woody material
No Sample	62.51950131	-99.16385918	62.5195	-99.1639	14	491564	6932066		1016			7/21/2022	Chase McKay																							Thick organic covering rocks
No Sample	62.5206831	-99.16642971	62.52068	-99.1664	14	491432	6932198		1012			7/21/2022	Chase McKay																							Swamp only organic
No Sample	62.51930173	-99.15789501	62.5193	-99.1579	14	491871	6932043		1008			7/21/2022	Chase McKay																							Lacustrine sand
No Sample	62.51959721	-99.15853756	62.5196	-99.1585	14	491838	6932076		1007			7/21/2022	Chase McKay																							Thick organic over boulders
No Sample	62.52018816	-99.1598227	62.52019	-99.1598	14	491772	6932142		1005			7/21/2022	Chase McKay																							Swamp
No Sample	62.52048363	-99.16046529	62.52048	-99.1605	14	491739	6932175		1004			7/21/2022	Chase McKay																							Swamp
No Sample	62.52077909	-99.16110789	62.52078	-99.1611	14	491706	6932208		1003			7/21/2022	Chase McKay																							Swamp tried local high point no soil only or
No Sample	62.52107456	-99.16175051	62.52107	-99.1618	14	491673	6932241		1002			7/21/2022	Chase McKay																							Swamp
No Sample	62.52137002	-99.16239313	62.52137	-99.1624	14	491640	6932274		1001			7/21/2022	Chase McKay																							Swamp only organic
No Sample	62.52166547	-99.16303577	62.52167	-99.163	14	491607	6932307		1000			7/21/2022	Chase McKay																							Thick organic over boulders
No Sample	62.52055847	-99.12192747	62.52056	-99.1219	14	493723	6932179		994			7/23/2022	Chase McKay																							Swamp
No Sample	62.51790968	-99.13275456	62.51791	-99.1328	14	493165	6931885		966			7/22/2022	Chase McKay																							Swamp
No Sample	62.51446846	-99.13633205	62.51447	-99.1363	14	492980	6931502		956			7/22/2022	Chase McKay																							Swamp
No Sample	62.51348673	-99.13972605	62.51349	-99.1397	14	492805	6931393		951			7/22/2022	Chase McKay																							Swamp
No Sample	62.52117037	-99.1564286	62.52117	-99.1564	14	491947	6932251		942			7/22/2022	Gianna De Vera																							Swamp. Organic woody material
No Sample	62.5223523	-99.15899898	62.52235	-99.159	14	491815	6932383		938			7/22/2022	Gianna De Vera																							Organic woody material. Swamp
No Sample	62.52264777	-99.15961161	62.52265	-99.1596	14	491782	6932416		937			7/22/2022	Gianna De Vera																							Swamp
No Sample	62.52353417	-99.16156957	62.52353	-99.1616	14	491683	6932515		934			7/22/2022	Gianna De Vera																							Organic woody material then rocks
No Sample	62.52382963	-99.16221225	62.52383	-99.1622	14	491650	6932548		933			7/22/2022	Gianna De Vera																							Organic woody material
No Sample	62.5215615	-99.15174918	62.52156	-99.1517	14	492188	6932294		931			7/22/2022	Gianna De Vera																							Lake
No Sample	62.521857	-99.15239172	62.52186	-99.1524	14	492155	6932327		930			7/22/2022	Gianna De Vera																							Organic woody material
No Sample	62.52244801	-99.15367684	62.52245	-99.1537	14	492089	6932393		928			7/22/2022	Gianna De Vera																							No horizon b. Organic then rocks
No Sample	62.5227435	-99.15431942	62.52274	-99.1543	14	492056	6932426		927			7/22/2022	Gianna De Vera																							No horizon b. Organic then rocks
No Sample	62.52333449	-99.15560461	62.52333	-99.1556	14	491990	6932492		925			7/22/2022	Gianna De Vera																							Organic woody material
No Sample	62.52392546	-99.15688986	62.52393	-99.1569	14	491924	6932558		923			7/22/2022	Gianna De Vera																							Swamp
No Sample	62.52638507	-99.15670851	62.52639	-99.1567	14	491934	6932832		917			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52608958	-99.15606583	62.52609	-99.1561	14	491967	6932799		916			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52580284	-99.15540297	62.5258	-99.1554	14	492001	6932767		915			7/22/2022	Kiana Froese																							Swamp
No Sample	62.5254986	-99.15478051	62.5255	-99.1548	14	492033	6932733		914			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52283904	-99.14899719	62.52284	-99.149	14	492330	6932436		905			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52195246	-99.14706965	62.52195	-99.1471	14	492429	6932337		902			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52165693	-99.14642716	62.52166	-99.1464	14	492462	6932304		901			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52736721	-99.1533136	62.52737	-99.1533	14	492109	6932941		894			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52707171	-99.15267093	62.52707	-99.1527	14	492142	6932908		893			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52559415	-99.14945779	62.52559	-99.1495	14	492307	6932743		888			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52529657	-99.14884564	62.5253	-99.1488	14	492338.4	6932710		887			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52500311	-99.14817262	62.525	-99.1482	14	492373	6932677		886			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52470759	-99.14753005	62.52471	-99.1475	14	492406	6932644		885			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52441206	-99.1468875	62.52441	-99.1469	14	492439	6932611		884			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52411653	-99.14624496	62.52412	-99.1462	14	492472	6932578		883			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52382474	-99.14556596	62.52382	-99.1456	14	492506.9	6932545		882			7/22/2022	Kiana Froese																							Swamp
No Sample	62.52509841	-99.14284997	62.5251	-99.1428	14	492647	6932687		869			7/22/2022	Zach Buehler																							SwAmp/lake
No Sample	62.52391619	-99.14027998	62.52392	-99.1403	14	492779	6932555		865			7/22/2022	Zach Buehler																							Swamp
No Sample	62.52155162	-99.13514063	62.52155	-99.1351	14	493043	6932291		857			7/22/2022	Zach Buehler																							Swamp
No Sample	62.5218472	-99.135783	62.52185	-99.1358	14	493010	6932324		856			7/22/2022	Zach Buehler																							Swamp
No Sample	62.52273393	-99.1377102	62.52273	-99.1377	14	492911	6932423		853			7/22/2022	Zach Buehler																							Swamp
No Sample	62.5230295	-99.13835263	62.52303	-99.1384	14	492878	6932456		852			7/22/2022	Zach Buehler																							Swamp
No Sample	62.52485042	-99.13954614	62.52485	-99.1395	14	492817	6932659		846			7/23/2022	Gianna De Vera																							Organic wooden material. Swamp area.
No Sample	62.52425929	-99.1382612	62.52426	-99.1383	14	492883	6932593		844			7/23/2022	Gianna De Vera																							Swamp area
No Sample	62.52637578	-99.14009726	62.52638	-99.1401	14	492789	6932829		842			7/23/2022	Gianna De Vera																							Swamp area full of water
No Sample	62.52578465	-99.13881225	62.52578	-99.1388	14	492855	6932763		840			7/23/2022	Gianna De Vera																							Swamp area full of organic woody y materia
No Sample	62.52519351	-99.13752728	62.52519	-99.1375	14	492921	6932697		838			7/23/2022	Gianna De Vera																							Swamp area full of organic woody material
No Sample	62.52489793	-99.13688482	62.5249	-99.1369	14	492954	6932664		837			7/23/2022	Gianna De Vera																							Organic woody material then rocks
No Sample	62.52671887	-99.13807831	62.52672	-99.1381	14	492893	6932867		835			7/23/2022	Gianna De Vera																							Swamp area full of water
No Sample	62.52642233	-99.13743581	62.52642	-99.1374	14	492926	6932834		834			7/23/2022	Gianna De Vera																							No horizon b. Organic woody material then
No Sample	62.52612772	-99.13679332	62.52613	-99.1368	14	492959	6932801		833			7/23/2022	Gianna De Vera																							Swamp area full of water
No Sample	62.52583215	-99.13615084	62.52583	-99.1362	14	492992	6932768		832			7/23/2022	Gianna De Vera																							Organic woody material
No Sample	62.52706193	-99.13605931	62.52706	-99.1361	14	492997	6932905		829			7/23/2022	Gianna De Vera																							No horizon b. Organic woody material then
No Sample	62.52647077	-99.13477434	62.52647	-99.1348	14	493063	6932839		827			7/23/2022	Gianna De Vera																							No horizon b organic woody material then r
No Sample	62.52587959	-99.13348942	62.52588	-99.1335	14	493129	6932773		825			7/23/2022	Gianna De Vera																							Organic woody material only
No Sample	62.52846067	-99.12815782	62.52846	-99.1282	14	493404	6933060		804			7/23/2022	Zach Buehler																							Swamp
No Sample	62.53477444	-99.13631335	62.53477	-99.1363	14	492985.7	6933764		800			7/23/2022	Kiana Froese																							Bedrock

status	latitude	longitude	latitude	longitude	utm_zone	utm_eastin	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_o	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
No Sample	62.53417307	-99.1350658	62.53417	-99.1351	14	493049.7	6933697		798			7/23/2022	Kiana Froese																							Bedrock
No Sample	62.53209144	-99.1305238	62.53209	-99.1305	14	493283	6933465		791			7/23/2022	Kiana Froese																							Bedrock
No Sample	62.53003337	-99.12604663	62.53003	-99.126	14	493513	6933235		784			7/23/2022	Kiana Froese																							Swamp
No Sample	62.5357293	-99.13015193	62.53573	-99.1302	14	493303	6933870		780			7/23/2022	Chase McKay																							Swamp
No Sample	62.53602491	-99.13079456	62.53602	-99.1308	14	493270	6933903		779			7/23/2022	Chase McKay																							No soils only o and boulders
No Sample	62.53632051	-99.1314372	62.53632	-99.1314	14	493237	6933936		778			7/23/2022	Chase McKay																							
No Sample	62.53661611	-99.13207986	62.53662	-99.1321	14	493204	6933969		777			7/23/2022	Chase McKay																							Organic and bouders
No Sample	62.53691171	-99.13272253	62.53691	-99.1327	14	493171	6934002		776			7/23/2022	Chase McKay																							Swamp
No Sample	62.53779848	-99.13465061	62.5378	-99.1347	14	493072	6934101		773			7/23/2022	Chase McKay																							Organic and cobble no fines
No Sample	62.5367108	-99.12675508	62.53671	-99.1268	14	493478	6933979		771			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53700642	-99.1273977	62.53701	-99.1274	14	493445	6934012		770			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53730204	-99.12804033	62.5373	-99.128	14	493412	6934045		769			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53818887	-99.1299683	62.53819	-99.13	14	493313	6934144		766			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53907568	-99.13189639	62.53908	-99.1319	14	493214	6934243		763			7/23/2022	Kiana Froese																							Swamp
No Sample	62.54059786	-99.11582826	62.5406	-99.1158	14	494041	6934411		753			7/24/2022	Gianna De Vera																							Organic
No Sample	62.53784264	-99.11537054	62.53784	-99.1154	14	494064	6934104		744			7/24/2022	Chase McKay																							Swamp
No Sample	62.53813831	-99.11601307	62.53814	-99.116	14	494031	6934137		743			7/24/2022	Chase McKay																							Swamp
No Sample	62.53872965	-99.11729817	62.53873	-99.1173	14	493965	6934203		741			7/24/2022	Chase McKay																							Swamp
No Sample	62.53932098	-99.11858332	62.53932	-99.1186	14	493899	6934269		739			7/24/2022	Chase McKay																							Swamp
No Sample	62.53961663	-99.11922591	62.53962	-99.1192	14	493866	6934302		738			7/24/2022	Chase McKay																							Swamp
No Sample	62.53991229	-99.11986852	62.53991	-99.1199	14	493833	6934335		737			7/24/2022	Chase McKay																							Swamp
No Sample	62.54020794	-99.12051114	62.54021	-99.1205	14	493800	6934368		736			7/24/2022	Chase McKay																							Swamp
No Sample	62.54050359	-99.12115377	62.5405	-99.1212	14	493767	6934401		735			7/24/2022	Chase McKay																							
No Sample	62.53686143	-99.11876789	62.53686	-99.1188	14	493889	6933995		729			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53774839	-99.12069556	62.53775	-99.1207	14	493790	6934094		726			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53833968	-99.12198073	62.53834	-99.122	14	493724	6934160		724			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53863532	-99.12262334	62.53864	-99.1226	14	493691	6934193		723			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53893096	-99.12326596	62.53893	-99.1233	14	493658	6934226		722			7/24/2022	Kiana Froese																							Swamp
No Sample	62.5392266	-99.12390859	62.53923	-99.1239	14	493625	6934259		721			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53469753	-99.11959492	62.5347	-99.1196	14	493846	6933754		718			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53528883	-99.12087994	62.53529	-99.1209	14	493780	6933820		716			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53558448	-99.12152247	62.53558	-99.1215	14	493747	6933853		715			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53588013	-99.12216501	62.53588	-99.1222	14	493714	6933886		714			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53647141	-99.12345014	62.53647	-99.1235	14	493648	6933952		712			7/23/2022	Zach Buehler																							Swamp
No Sample	62.53706267	-99.12473531	62.53706	-99.1247	14	493582	6934018		710			7/23/2022	Zach Buehler																							
No Sample	62.5373583	-99.12537792	62.53736	-99.1254	14	493549	6934051		709			7/23/2022	Zach Buehler																							Swamp
No Sample	62.53794955	-99.12666317	62.53795	-99.1267	14	493483	6934117		707			7/23/2022	Zach Buehler																							Swamp
No Sample	62.53401185	-99.12363429	62.53401	-99.1236	14	493838	6933678		701			7/23/2022	Chase McKay																							Swamp
No Sample	62.53430748	-99.12427682	62.53431	-99.1243	14	493605	6933711		700			7/23/2022	Chase McKay																							Swamp
No Sample	62.53489874	-99.12556192	62.5349	-99.1256	14	493539	6933777		698			7/23/2022	Chase McKay																							Swamp
No Sample	62.53519437	-99.12620448	62.53519	-99.1262	14	493506	6933810		697			7/23/2022	Chase McKay																							Swamp
No Sample	62.53578561	-99.12748966	62.53579	-99.1275	14	493440	6933876		695			7/23/2022	Chase McKay																							Swamp
No Sample	62.53608123	-99.12813226	62.53608	-99.1281	14	493407	6933909		694			7/23/2022	Chase McKay																							Swamp
No Sample	62.53667246	-99.12941751	62.53667	-99.1294	14	493341	6933975		692			7/23/2022	Chase McKay																							Swamp
No Sample	62.53154491	-99.12504103	62.53154	-99.125	14	493565.1	6933403		688			7/23/2022	Kiana Froese																							On bedrock
No Sample	62.53273368	-99.12763207	62.53273	-99.1276	14	493432	6933536		684			7/23/2022	Kiana Froese																							Swamp
No Sample	62.53828348	-99.12464324	62.53828	-99.1246	14	493587	6934154		678			7/24/2022	Kiana Froese																							Swamp
No Sample	62.54005854	-99.12847996	62.54006	-99.1285	14	493390	6934352		672			7/24/2022	Kiana Froese																							Swamp
No Sample	62.53985613	-99.12253117	62.53986	-99.1225	14	493696	6934329		667			7/24/2022	Kiana Froese																							Swamp
No Sample	62.54133429	-99.12574452	62.54133	-99.1257	14	493531	6934494		665			7/24/2022	Kiana Froese																							Swamp
No Sample	62.57068864	-98.46438747	62.57069	-98.4644	14	527527.5	6937872		439			7/15/2022	Chase McKay																							
No Sample	62.56888159	-98.46427499	62.56888	-98.4643	14	527535	6937671		435			7/16/2022	Zach Buehler																							
No Sample	62.57001839	-98.47051976	62.57002	-98.4705	14	527213	6937795		402			7/16/2022	Chase McKay																							Swamp only organic material
No Sample	62.57171373	-98.47979069	62.57171	-98.4798	14	526735	6937980		354			7/16/2022	Zach Buehler																							Swamp
No Sample	62.57126474	-98.47974016	62.57126	-98.4797	14	526738	6937930		353			7/16/2022	Zach Buehler																							Swamp
No Sample	62.57036676	-98.4796391	62.57037	-98.4796	14	526744	6937830		351			7/16/2022	Zach Buehler																							Swamp
No Sample	62.56991777	-98.47958858	62.56992	-98.4796	14	526747	6937780		350			7/16/2022	Zach Buehler																							Swamp
No Sample	62.56901979	-98.47948753	62.56902	-98.4795	14	526753	6937680		348			7/16/2022	Zach Buehler																							Swamp
No Sample	62.56812181	-98.47938649	62.56812	-98.4794	14	526759	6937580		346			7/16/2022	Zach Buehler																							SwAmp
No Sample	62.56767282	-98.47933597	62.56767	-98.4793	14	526762	6937530		345			7/16/2022	Zach Buehler																							Swamp
No Sample	62.56458735	-98.47995406	62.56459	-98.48	14	526733	6937186		338			7/17/2022	Chase McKay																							Swamp
No Sample	62.56372888	-98.48082498	62.56373	-98.4808	14	526689	6937090		336			7/17/2022	Chase McKay																							Boulders no soil
No Sample	62.56329965	-98.48126043	62.5633	-98.4813	14	526667	6937042		335			7/17/2022	Chase McKay																							Boulders
No Sample	62.53616919	-99.07028977	62.53617	-99.0703	14	4963813	6933914		334			7/30/2022	Houd Arar																							Swamp
No Sample	62.56072421	-98.48387282	62.56072	-98.4839	14	526535	6936754		334			7/17/2022	Kiana Froese																							
No Sample	62.56029496	-98.48430817	62.56029	-98.4843	14	526513	6936706		333			7/17/2022	Kiana Froese																							
No Sample	62.53557538	-99.06901104	62.53558	-99.069	14	496449	6933848		332			7/30/2022	Houd Arar																							Swamp
No Sample	62.55986571	-98.48474352	62.55987	-98.4847	14	526491	6936658		332			7/17/2022	Kiana Froese																							
No Sample	62.55943647	-98.48517885	62.55944	-98.4852	14	526469	6936610		331			7/17/2022	Kiana Froese																							
No Sample	62.54938518	-99.10452698	62.54939	-99.1045	14	494624	6935389		330			7/31/2022	Houd Arar																							Grass and organics
No Sample	62.55900722	-98.48561416	62.55901	-98.4856	14	526447	6936562		330			7/17/2022	Kiana Froese																							
No Sample	62.55857797	-98.48604947	62.55858	-98.486	14	526425	6936514		329			7/17/2022	Kiana Froese																							
No Sample	62.54879372	-99.10324168	62.54879	-99.1032	14	494690	6935323		328			7/31/2022	Houd Arar																							Marsh
No Sample	62.55814871	-98.48648476	62.55815	-98.4865	14	526403	6936466		328			7/17/2022	Kiana Froese																							
No Sample	62.54850915	-99.10259429	62.54851	-99.1026	14	4947232	6935291		327			7/31/2022	Houd Arar																							Marsh
No Sample	62.55774555	-98.48691367	62.55775	-98.4869	14	5263813	6936421		327			7/17/2022	Kiana Froese																							
No Sample	62.5572902	-98.48735531	62.55729	-98.4874	14	526359	6936370		326			7/17/2022	Kiana Froese																							
No Sample	62.55686095	-98.48779056	62.55686	-98.4878	14	526337	6936322		325			7/17/2022	Kiana Froese																							
No Sample	62.54701929	-99.09938607	62.54702	-99.0994	14	494888	6935125		322			7/31/2022	Houd Arar																							Marsh
No Sample	62.54583628	-99.09681592	62.54584	-99.0968	14	495020	6934993		318			7/31/2022	Houd Arar																							Marsh
No Sample	62.56145426	-98.48700788	62.56145	-98.487	14	5263732	6936834		318			7/17/2022	Kiana Froese																							Swamp
No Sample	62.54554052	-99.09617341	62.54554	-99.0962	14	495053	6934960		317			7/31/2022	Houd Arar																							Marsh
																																			A marsh
No Sample	62.54524476	-99.09553092	62.54524	-99.0955	14	495086	6934927		316			7/31/2022	Houd Arar																							
No Sample	62.54494899	-99.09488844	62.54495	-99.0949	14	495119	6934894		315			7/31/2022	Houd Arar																							Marsh on rocks
No Sample	62.55886924	-98.48960377	62.55887	-98.4896	14	526242	6936545		312			7/17/2022	Kiana Froese																							In the lake
No Sample	62.54376589	-99.09231864	62.54377	-99.0923	14	495251	6934762		311			7/31/2022	Houd Arar																							Organic then boulders
No Sample	62.55843997	-98.49003902	62.55844	-98.49	14	526220	6936497		311			7/17/2022	Kiana Froese																							Swamp
No Sample	62.54317433	-99.09103382	62.54317	-99.091	14	495317	6934696		309			7/31/2022	Houd Arar																							Marsh water laiden
No Sample	62.54287854	-99.09039143	62.54288	-99.0904	14	495350	6934663		308			7/31/2022	Houd Arar																							Organic rich very light soil
No Sample	62.54258275	-99.08974905	62.54258	-99.0897	14	495383	6934630		307			7/31/2022	Houd Arar																							Bog
No Sample	62.54228696	-99.08910669	62.54229	-99.0891	14	495416	6934597		306			7/31/2022	Houd Arar																							Bog
No Sample	62.56869126	-98.48531071	62.56869	-98.4853	14	526454	6937641		305			7/17/2022	Chase McKay																							Swamp only organic material
No Sample	62.56389139	-98.48838944	62.56389	-98.4884	14	526300	6937105		294			7/17/2022	Chase McKay																							Fluvial and boulders
No Sample	62.56261001	-98.48968841	62.56261	-98.4897	14	526234.4	6936962		291			7/17/2022	Gianna De Vera																							Dug 40cm with no change of horizon.
No Sample	62.56217435	-98.49013071	62.56217	-98.4901	14	526212	6936913		290			7/17/2022	Gianna De Vera																							Same site conditions. No horizon B after 40c
No Sample	62.56131582	-98.49100127	62.56132	-98.491	14	526168	6936817		288			7/17/2022	Gianna De Vera																							Site area is full of boulders. Root system stil
No Sample	62.54810851	-99.10728333	62.54811	-99.1073	14	494482	6935247		284			7/31/2022	Kiana Froese																							Swamp
No Sample	62.54751709	-99.10599803	62.54752	-99.106	14	494548	6935181		282			7/31/2022	Kiana Froese																							Swamp
No Sample	62.55831091	-98.49404783	62.55831	-98.494	14	526014	6936481		281			7/17/2022	Gianna De Vera																							Wet organic soil. Very close to swampy area
No Sample	62.54722137	-99.10535539	62.54722	-99.1054	14	494581	6935148		281			7/31/2022	Kiana Froese																							Swamp
No Sample	62.56547945	-98.49065776	62.56548	-98.4907	14	526182	6937281		277			7/17/2022	Chase McKay																							Swamp and bouders
No Sample	62.56290383	-98.49326953	62.5629	-98.4933	14	526050	6936993		275			7/17/2022	Chase McKay																							Boulders no soil
No Sample	62.545447	-99.10149986	62.54545	-99.1015	14	494779	6934950		275			7/31/2022	Kiana Froese																							Swamp
No Sample	62.56248951	-98.49374425	62.56249	-98.4937	14	526026	6936947		274			7/17/2022	Chase McKay																							Thick organic covering boulders no soil
No Sample	62.54514308	-99.10086092	62.54514	-99.1009	14	494811.8	6934916		274			7/31/2022	Kiana Froese																							Swamp
No Sample	62.56204528	-98.49414002	62.56205	-98.4941	14	526006	6936897		273			7/17/2022	Chase McKay																							Thick organic covering boulders no soil
No Sample	62.54483995	-99.10024066	62.54484	-99.1002	14	4948417	6934882		273			7/31/2022	Kiana Froese																							Swamp
No Sample	62.54455977	-99.09957227	62.54456	-99.0996	14	494878	6934851		272			7/31/2022	Kiana Froese																							Swamp
No Sample	62.56118673	-98.49501046	62.56119	-98.495	14	525962	6936801		271			7/17/2022	Chase McKay																							Swamp only organic holes fill with water

status	latitude	longitude	latitude	longitude	utm_zone	utm_eastin	utm_north	sample_id	grid_id	parent_sample_id	STD_ID	date	sampler	site_disturb	site_veg	site_veg_o	landform	landform_	slope	soil_moist	soil_hor	sample_de	smpl_color	smpl_mat	smpl_mat_other	avg_clast_	avg_clast_	clast_geometery	hor_thick_	sample_qu	smple_note	cps	site_photo_direction	ns_lndform	ns_lndform_other	ns_note
No Sample	62.56075745	-98.49544566	62.56076	-98.4954	14	525940	6936753		270			7/17/2022	Chase McKay																							Swamp
No Sample	62.56032817	-98.49588085	62.56033	-98.4959	14	525918	6936705		269			7/17/2022	Chase McKay																							Swamp
No Sample	62.55989888	-98.49631603	62.5599	-98.4963	14	525896	6936657		268			7/17/2022	Gianna De Vera																							Woody material and organic soil only
No Sample	62.5594696	-98.49675119	62.55947	-98.4968	14	525874	6936609		267			7/17/2022	Gianna De Vera																							All organic soil and woody material. Swamp
No Sample	62.55903478	-98.49709868	62.55903	-98.4971	14	525856.5	6936560		266			7/17/2022	Gianna De Vera																							Located in swamp area. Full of organic wood
No Sample	62.56018846	-98.49987276	62.56019	-98.4999	14	525712.9	6936688		262			7/17/2022	Kiana Froese																							Swamp
No Sample	62.55977795	-98.50032169	62.55978	-98.5003	14	525690.2	6936642		261			7/17/2022	Kiana Froese																							Swamp
No Sample	62.57281006	-98.4948328	62.57281	-98.4948	14	525961	6938096		253			7/17/2022	Zach Buehler																							Gravel/water
																																				Sand w/ no soil
No Sample	62.57023437	-98.49744486	62.57023	-98.4974	14	525829	6937808		247			7/17/2022	Zach Buehler																							
No Sample	62.56980508	-98.49788016	62.56981	-98.4979	14	525807	6937760		246			7/17/2022	Zach Buehler																							Sand w/ no soil
No Sample	62.56937579	-98.49831544	62.56938	-98.4983	14	525785	6937712		245			7/17/2022	Zach Buehler																							Sand w/ no soil
No Sample	62.54742319	-99.1113248	62.54742	-99.1113	14	494274	6935171		242			7/25/2022	Zach Buehler																							Swamp
No Sample	62.5462404	-99.10875414	62.54624	-99.1088	14	494406	6935039		238			7/25/2022	Zach Buehler																							Swamp
No Sample	62.54446612	-99.10489853	62.54447	-99.1049	14	494604	6934841		232			7/25/2022	Zach Buehler																							Swamp
No Sample	62.56796332	-98.50360774	62.56796	-98.5036	14	525514.2	6937553		229			7/17/2022	Kiana Froese																							No soil, straight to large rocks in 3 holes I di
No Sample	62.56754272	-98.50408148	62.56754	-98.5041	14	525490.2	6937505		228			7/17/2022	Kiana Froese																							Swamp
No Sample	62.54328321	-99.10232839	62.54328	-99.1023	14	494736	6934709		228			7/25/2022	Zach Buehler																							Swamp
No Sample	62.56710157	-98.50451432	62.5671	-98.5045	14	525468.3	6937456		227			7/17/2022	Kiana Froese																							No soil just big rocks until hit boulder
No Sample	62.56667059	-98.50491733	62.56667	-98.5049	14	525448	6937408		226			7/17/2022	Kiana Froese																							Dug multiple holes only found rocks at the e
No Sample	62.54242005	-99.10041232	62.54242	-99.1004	14	494834.4	6934613		225			7/25/2022	Kiana Froese																							Swamp
No Sample	62.56581197	-98.5057876	62.56581	-98.5058	14	525404	6937312		224			7/17/2022	Gianna De Vera																							Swamp area. Woody material and organic s
No Sample	62.53973418	-99.09461916	62.53973	-99.0946	14	495132	6934313		216			7/25/2022	Kiana Froese																							Swamp
No Sample	62.57426869	-98.50109361	62.57427	-98.5011	14	525638	6938256		214			7/18/2022	Zach Buehler																							Bedrock
No Sample	62.57383939	-98.50152891	62.57384	-98.5015	14	525616	6938208		213			7/18/2022	Zach Buehler																							Bedrock
No Sample	62.57341009	-98.50196421	62.57341	-98.502	14	525594	6938160		212			7/18/2022	Zach Buehler																							Bedrock
No Sample	62.57298079	-98.50239949	62.57298	-98.5024	14	525572	6938112		211			7/18/2022	Zach Buehler																							Bedrock
No Sample	62.57255149	-98.50283476	62.57255	-98.5028	14	525550	6938064		210			7/18/2022	Zach Buehler																							Boulderfield
No Sample	62.54348516	-99.10829698	62.54349	-99.1083	14	494429	6934732		187			7/25/2022	Kiana Froese																							Bedrock
No Sample	62.57500588	-98.50421827	62.57501	-98.5042	14	525476.8	6938337		186			7/18/2022	Kiana Froese																							on a massive bedrock
No Sample	62.57455965	-98.50466939	62.57456	-98.5047	14	525454	6938287		185			7/18/2022	Kiana Froese																							Bedrock
No Sample	62.54052794	-99.10187187	62.54053	-99.1019	14	494759	6934402		177			7/25/2022	Gianna De Vera																							Swamp area organic then rocks
No Sample	62.54023221	-99.10122943	62.54023	-99.1012	14	494792	6934369		176			7/25/2022	Gianna De Vera																							Swamp area. Organic woody material
No Sample	62.57026649	-98.50902141	62.57027	-98.509	14	525234	6937807		175			7/18/2022	Kiana Froese																							Boulder field
No Sample	62.56941737	-98.5099173	62.56942	-98.5099	14	525188.7	6937712		173			7/18/2022	Kiana Froese																							Swamp. Big rocks after O. In all 3 holes
No Sample	62.57175214	-98.51527836	62.57175	-98.5153	14	524911.2	6937970		142			7/18/2022	Gianna De Vera																							No horizon B. Organic then rocks.
No Sample	62.5708658	-98.5161525	62.57087	-98.5162	14	524867	6937871		140			7/18/2022	Gianna De Vera																							Organic soil. Swamp area
No Sample	62.56957776	-98.51745758	62.56958	-98.5175	14	524801	6937727		137			7/18/2022	Gianna De Vera																							Swamp area. Organic soil and woody materi
No Sample	62.5404342	-99.1071974	62.54043	-99.1072	14	494485	6934392		130			7/25/2022	Gianna De Vera																							Organic then rocks
No Sample	62.57102805	-98.52420539	62.57103	-98.5242	14	524453	6937886		107			7/18/2022	Chase McKay																							Swamp
No Sample	62.57248373	-98.52998082	62.57248	-98.53	14	524155	6938046		78			7/19/2022	Gianna De Vera																							Point in the lake.
No Sample	62.57205434	-98.53041569	62.57205	-98.5304	14	524133	6937998		77			7/19/2022	Gianna De Vera																							Point in the lake.
No Sample	62.57407469	-98.53332225	62.57407	-98.5333	14	523982	6938222		61			7/19/2022	Kiana Froese																							Lake
No Sample	62.53413017	-99.09903218	62.53413	-99.099	14	494904	6933689		61			7/24/2022	Zach Buehler																							Swamp
No Sample	62.53442592	-99.09967447	62.53443	-99.0997	14	494871	6933722		60			7/24/2022	Zach Buehler																							Swamp
No Sample	62.53472167	-99.10031677	62.53472	-99.1003	14	494838	6933755		59			7/24/2022	Zach Buehler																							Swamp
No Sample	62.56862038	-98.70823111	62.56862	-98.7082	14	514996.5	6937562		54			7/30/2022	Houd Arar																							2cm moss then rock
No Sample	62.53620035	-99.10352847	62.5362	-99.1035	14	494673	6933920		54			7/24/2022	Zach Buehler																							Swamp
No Sample	62.56979964	-98.70709285	62.5698	-98.7071	14	515054.4	6937693		51			7/30/2022	Kiana Froese																							Dug 60 cm no soil. Just water (multiple hol
No Sample	62.53797467	-99.10738292	62.53797	-99.1074	14	494475	6934118		48			7/24/2022	Zach Buehler																							Swamp
No Sample	62.57147693	-98.70531991	62.57148	-98.7053	14	515144.6	6937880		47			7/30/2022	Kiana Froese																							Rocks no soil under o horizon
No Sample	62.57186694	-98.70493913	62.57187	-98.7049	14	515164	6937924		46			7/30/2022	Houd Arar																							Grass with rock below
No Sample	62.57229422	-98.70455783	62.57229	-98.7046	14	515183.4	6937972		45			7/30/2022	Kiana Froese																							Huge rocks 40 cm under no soil
No Sample	62.53886179	-99.10931032	62.53886	-99.1093	14	494376	6934217		45			7/24/2022	Zach Buehler																							Swamp
No Sample	62.5726909	-98.70407479	62.57269	-98.7041	14	515208	6938016		44			7/30/2022	Houd Arar																							Swamp
No Sample	62.57351485	-98.7032104	62.57351	-98.7032	14	515252	6938108		42			7/30/2022	Houd Arar																							Wet grass thick o layer with rock under it
No Sample	62.57395361	-98.70282244	62.57395	-98.7028	14	515271.7	6938157		41			7/30/2022	Kiana Froese																							Boulder
No Sample	62.5743388	-98.70234596	62.57434	-98.7023	14	515296	6938200		40			7/30/2022	Houd Arar																							Wet grass thick organics then rock
No Sample	62.57476575	-98.70186958	62.57477	-98.7019	14	515320.3	6938248		39			7/30/2022	Kiana Froese																							Swamp
No Sample	62.57516274	-98.70148147	62.57516	-98.7015	14	515340	6938292		38			7/30/2022	Houd Arar																							Overburden with rocks below
No Sample	62.54241	-99.11702107	62.54241	-99.117	14	493980	6934613		33			7/24/2022	Zach Buehler																							Swamp
No Sample	62.54270566	-99.11766371	62.54271	-99.1177	14	493947	6934646		32			7/24/2022	Gianna De Vera																							Swamp area
No Sample	62.54329698	-99.11894904	62.5433	-99.1189	14	493881	6934712		30			7/24/2022	Gianna De Vera																							Organic woody material then rocks
No Sample	62.57849766	-98.69795792	62.5785	-98.698	14	515519.3	6938664		30			7/30/2022	Houd Arar																							Overburden with rock below
No Sample	62.57552262	-98.53958535	62.57552	-98.5396	14	523659	6938381		30			7/19/2022	Zach Buehler																							Lake
No Sample	62.57928237	-98.69715831	62.57928	-98.6972	14	515560	6938752		28			7/30/2022	Houd Arar																							Boulders
No Sample	62.54418394	-99.12087713	62.54418	-99.1209	14	493782	6934811		27			7/24/2022	Gianna De Vera																							Organic woody material
No Sample	62.57969432	-98.69672593	62.57969	-98.6967	14	515582	6938798		27			7/30/2022	Kiana Froese																							Boulders
No Sample	62.58010628	-98.69629353	62.58011	-98.6963	14	515604	6938844		26			7/30/2022	Houd Arar																							Alders and swamp
No Sample	62.54261132	-99.12298959	62.54261	-99.123	14	493673	6934636		25			7/24/2022	Chase McKay																							Thick organic covering boulders
No Sample	62.58051823	-98.69586113	62.58052	-98.6959	14	515626	6938890		25			7/30/2022	Kiana Froese																							Swamp
No Sample	62.54231568	-99.12234689	62.54232	-99.1223	14	493706	6934603		24			7/24/2022	Chase McKay																							Swamp
No Sample	62.58094273	-98.69534109	62.58094	-98.6953	14	515652.5	6938937		24			7/30/2022	Houd Arar																							Swamp
No Sample	62.58134213	-98.69499628	62.58134	-98.695	14	515670	6938982		23			7/30/2022	Kiana Froese																							Boulders
No Sample	62.54172439	-99.12106154	62.54172	-99.1211	14	493772	6934537		22			7/24/2022	Chase McKay																							Swamp
No Sample	62.54142874	-99.12041888	62.54143	-99.1204	14	493805	6934504		21			7/24/2022	Chase McKay																							Swamp
No Sample	62.56994008	-98.54523638	62.56994	-98.5452	14	523373	6937757		21			7/19/2022	Kiana Froese																							Swamp
No Sample	62.54113309	-99.11977624	62.54113	-99.1198	14	493838	6934471		20			7/24/2022	Chase McKay																							Swamp
No Sample	62.58342588	-98.69278796	62.58343	-98.6928	14	515782.4	6939215		18			7/30/2022	Houd Arar																							Overburden covering rock
No Sample	62.5838285	-98.69241413	62.58383	-98.6924	14	515801.3	6939260		17			7/30/2022	Kiana Froese																							Boulders
No Sample	62.58463768	-98.69153641	62.58464	-98.6915	14	515846	6939350		15			7/30/2022	Kiana Froese																							Boulders
No Sample	62.58504962	-98.69110388	62.58505	-98.6911	14	515868	6939396		14			7/30/2022	Houd Arar																							Boupder feild
No Sample	62.53906344	-99.11527808	62.53906	-99.1153	14	494069	6934240		13			7/24/2022	Chase McKay																							Swamp
No Sample	62.57324555	-98.54578346	62.57325	-98.5458	14	523342.3	6938125		13			7/19/2022	Kiana Froese																							Forest. Couldn't find ground without huge b
No Sample	62.58591809	-98.69023886	62.58592	-98.6902	14	515912	6939493		12			7/30/2022	Houd Arar																							Boulder feild
No Sample	62.53847208	-99.11399301	62.53847	-99.114	14	494135	6934174		11			7/24/2022	Chase McKay																							Swamp
No Sample	62.58630971	-98.68982278	62.58631	-98.6898	14	515933.1	6939537		11			7/30/2022	Kiana Froese																							Bedrock-no soil
No Sample	62.58669735	-98.68937361	62.5867	-98.6894	14	515956	6939580		10			7/30/2022	Houd Arar																							Boupder feild
No Sample	62.53788072	-99.11270799	62.53788	-99.1127	14	494201	6934108		9			7/24/2022	Chase McKay																							Swamp
No Sample	62.58713185	-98.68895944	62.58713	-98.689	14	515977	6939629		9			7/30/2022	Kiana Froese																							Swamp dug 40cm to water bedrock 3 holes
No Sample	62.57350731	-98.54934577	62.57351	-98.5493	14	523159	6938153		1			7/19/2022	Kiana Froese																							In all of the 4 holes dug, there were massive
No Sample	62.59043916	-98.68542463	62.59044	-98.6854	14	516156.8	6939998		1			7/30/2022	Kiana Froese																							Bedrock

APPENDIX D

2022 Core Drilling: Collar Table and Site Reclamation Photos

2022 Dipole Core Drill Hole Coordinates

Target Area	Drill Hole ID	X_E_N83Z14	Y_N_N83Z14	Azimuth (⁰)	Dip (⁰)	EOH (m)	Start	End
Dipole	22-DP-001	492959	6932246	135	-70	78.00	22-Jul-22	25-Jul-22
Dipole	22-DP-002	492959	6932246	135	-75	184.00	25-Jul-22	28-Jul-22
Dipole	22-DP-003	492992	6932281	135	-45	16.00	28-Jul-22	30-Jul-22
Dipole	22-DP-003A	492992	6932281	135	-45	114.00	30-Jul-22	05-Aug-22
Dipole	22-DP-004	493142	6932410	135	-70	169.00	01-Aug-22	05-Aug-22
Dipole	22-DP-005	493142	6932410	135	-82	211.00	05-Aug-22	08-Aug-22
Dipole	22-DP-006	492992	6932281	135	-65	145.00	05-Aug-22	07-Aug-22
Dipole	22-DP-007	492992	6932281	135	-82	202.00	07-Aug-22	09-Aug-22
Dipole	22-DP-008	493104	6932381	135	-45	165.00	20-Aug-22	22-Aug-22
Dipole	22-DP-009	492869	6932304	135	-55	250.00	10-Aug-22	14-Aug-22
Dipole	22-DP-010	493104	6932381	135	-70	178.00	10-Aug-22	12-Aug-22
Dipole	22-DP-011	492869	6932304	135	-70	6.00	15-Aug-22	15-Aug-22
Dipole	22-DP-011A	492869	6932304	135	-70	322.00	15-Aug-22	19-Aug-22
Dipole	22-DP-012	492908	6932351	135	-62	334.00	23-Aug-22	27-Aug-22
Dipole	22-DP-013	493155	6932327	135	-45	130.00	28-Aug-22	31-Aug-22
Dipole	22-DP-014	493067	6932348	135	-45	160.00	01-Sep-22	03-Sep-22

2022 Dipole Core Drill Site Reclamation Photos

22-DP-001, 22-DP-002

22-DP-003, 22-DP-003A, 22-DP-006, 22-DP-007

22-DP-004, 22-DP-005

22-DP-008, 22-DP-010

22-DP-009, 22-DP-011, 22-DP-011A

22-DP-012

22-DP-013

22-DP-014

2022 Jay 4 West Core Drill Hole Coordinates

Target Area	Drill Hole ID	X_E_N83Z14	Y_N_N83Z14	Azimuth (°)	Dip (°)	EOH (m)	Start	End
J4West	22-J4W-001	521740	6939113	026	-45	79.00	14-Aug-22	15-Aug-22
J4West	22-J4W-002	521740	6939113	026	-75	109.00	15-Aug-22	17-Aug-22
J4West	22-J4W-003	521708	6939144	026	-90	149.00	17-Aug-22	19-Aug-22
J4West	22-J4W-004	521783	6939090	026	-45	79.00	20-Aug-22	21-Aug-22
J4West	22-J4W-005	521783	6939090	026	-75	103.00	22-Aug-22	23-Aug-22
J4West	22-J4W-006	521827	6939069	026	-45	79.00	23-Aug-22	24-Aug-22
J4West	22-J4W-007	521827	6939069	026	-75	31.00	24-Aug-22	24-Aug-22
J4West	22-J4W-007A	521827	6939069	026	-75	109.00	24-Aug-22	27-Aug-22
J4West	22-J4W-008	521564	6939231	026	-45	79.00	28-Aug-22	31-Aug-22
J4West	22-J4W-009	521564	6939231	026	-75	109.00	31-Aug-22	03-Sep-22

2022 Jay 4 West Core Drill Site Reclamation Photos

22-J4W-001, 22-J4W-002

22-J4W-003

22-J4W-004, 22-J4W-005

22-J4W-006, 22-J4W-007, 22-J4W-007A

22-J4W-008, 22-J4W-009

APPENDIX E

Historic and 2022 Community Consultation Logs

Date	Time	Contact	Details
Wednesday, September 24, 2014		NIRB, AANDC, KIA, NWB, WSCC	Letter of closure from Maria Egerton
Monday, January 26, 2015	2-3 pm	KIA - Jeff Tulugak, Craig Beardsaw; KIV – Maria Egerton, Andrew Berry, Emily McNie	Informal meeting with KIA – discussed summer inspections, program and gave permission to use camp on snow mobile excursion to Ennadai Lake
Wednesday, January 28, 2015	6-10 pm	NTI - Keith Morrison, Jorgan Aitaok, Miguel Chenier, Chris Arko, Chris Kalluk, Carson Gillis, Ryan Gillis, Kate Chenier NIRB – Joe Ohokannoak KIA - Jeff Tulugak, Craig Beardsaw KIV - Jim Paterson, Jeff Ward, Andrew Berry, John Robins, Maria Egerton, Emily McNie, Reesa Meltzer	Annual Roundup dinner discussing Angilak property and Areva hearings and FEIS.
Tuesday, January 27, 2015	2:35- 2:55 pm	KIA - Jeff Tulugak, Craig Beardsaw in attendance	CSR session – Maria Egerton (De-Risking EA studies by Conducting Early-Stage Baseline Monitoring)
Thursday, March 5, 2015	3pm	Areva Final Hearing. Kiv – Maria Egerton, Jessie Oonark Gallery – Sheryl, Martha	Maria spoke to Sheryl (co-operator Jessie Oonark Art Gallery Baker Lake and Martha (artist and Baker community member) about the hearing that was taking place. Why it was taking place, where, and when and that they could attend any part and could speak during the community round table. Sheryl expressed here concerns about how mining changed the community in Manitoba where she grew up. The felt the introduction of strange men was a danger to young girls in the community. Martha expressed her desire for the children to have work, but was also concerned about how the Areva mine might change the community negatively with the introduction of income and use of drugs and lack of home care for children when parents were away working.
Saturday, March 7, 2015	1pm	Maria met a woman (Baker community member) selling caribou fur clothing at the community center during the hearing.	Maria explained that she worked for Kivalliq Energy, a uranium exploration company in permitting and environmental, and discussed some to the observations she collects on caribou as part of baseline studies and why (to assess caribou land use in the area and predict and mitigate potential impacts to caribou). Woman introduced her mother and explained that her mother had made the clothing and was born on the land around baker. Woman and Maria sat together during 2 and a half days of the hearing. The woman occasionally interpreted comments from community members and elders for Maria when they weren't captured by interpreters.
Saturday, June 6, 2015	2:30 PM	Robert Janes (Mayor Rankin Inlet), Joseph Aupaluktuq (Mayor Baker Lake), Paul Kanayok (Chairperson HTC), Peter Alareak (KIA Director), Norman Attungala (KIA Director), Alex Ishalook (Chairperson HTC)	Letter to, from JW re: request for community meeting letter and community factsheet in English and Inuktitut
Monday, June 29, 2015	7- 9:15 pm	Rankin Inlet Hamlet community visit and presentation. Andy Berry presented, Maria Egerton assisted. In attendance: Robert Janes (Mayor Rankin Inlet),Craig Beardsall (KIA),David Kanayok, Sam Twyee, Roger Subqut, Jerome Tattuinee, Willie Alogut, Jack Kabuitok, John Ayaruaq, Levi Curley, Alex Sammurtok, 2 women who chose not to provide their names	Q - Woman 1 - How can you ensure that the Uranium you sell won't end up being used for weapons? Do you have any buyers? Will you be flying yellowcake out? It's my understanding that if a plane carrying yellowcake crashed it would be an environmental disaster. A - Andy explained how Canadian Uranium is regulated by the CNSC A - Andy and Maria explained that we are an exploration company, that we are still a long way from selling or transporting yellowcake. Maria explained if and when the project ever became a mine, all aspects of it including whatever the proposed method of transportation of yellowcake would be, would have to go through a complete environmental review and related public hearings. Q – Jack - Does drilling release any radioactive particles to the air or soil? A - Andy explained that Kivalliq separates the hot drill cuttings from other drill muds and stores them in sealed drums. Q – Alex requested a paper copy of the entire presentation. Commented that the agreement with NTI was not favorable to the Inuit. He found the $50,000 advance royalty payments and the $1mil payment upon reaching stated resource level insufficient. A - Andy responded that Kiv has invested $55 million within the IOL to date. That there are significant costs related to exploration that are not reflected in the presentation and that he could email him a digital copy of the presentation. Comments: Jerome commented that he had seen the camp the year before and it was very clean. Also that when the helicopter landed, they saw caribou grazing on the rocks and he was concerned about stepping on uranium rock. He recalled that Andy used the scintillometer to measure radioactivity.
Tuesday, June 30, 2015	8:30-10 pm	Arviat Hamlet community visit and presentation. Andy Berry presenter, Maria Egerton assisted. In attendance: Emil Arnalak (interpreter), Phillip Kigusiutnak, Lucien Kabuitok, Roxanne Konek, Susan Konek, Sophie Kuksuk, Alysia Kuksuk, Martha Nutarasungnik, Laurent Pameolik, Jason Irksuk, Jason Irksuk Sr., Sandra Irksuk, Racheal Okotak, Matthew Okotak, David Illungiayok, Silis Illungiayok, John Akammak, Linda Sheetoga, Malena Sheetoga, Shanelle Sheetoga, Sarah Iblauk, Paul Iblauk, Stacey Kritaqliluk, Travis Kritaqliluk, Doyle Mukyungnik, Leo Mukyungnik, John Nungnilk, Janet Nungnilk, Charlie Alareak, Celina Iootna, Bobby Iootna, Lydia Mukyungnik, Cecelia Shamee, Ernie Sreetak, Peter Kritaqliluk, Peter Adjuk, Jonah Sewoee.	Emil Arnalak worked as interpreter and will be employed as a helper for the upcoming program. Our flight was delayed, Emil communicated our delay to community and set up hall in our absence. Former employees Martha Nutarasungnik, Ernie Sreetak, and Eugene Shamee came to greet us. Martha introduced us to her bother and sister-in –law Paul and Sandra Iblauk, both looking for work. Sandra Iblauk provided a resume – interested in work as a kitchen helper. Paul Iblauk provided a resume – has experience as a core splitter and is interested in work as a core splitter or drilling assistant. He expressed his interest in geology in general. David Illungiayok provided a resume - has experience as a core splitter and is interested in work as a core splitter or drilling assistant. Jason Irksuk Sr. commented to Andy that he was hungry. Peter Adjuk helped us carry bags back to hotel and commented that he too was hungry.
Thursday, July 2, 2015	7-9 pm	Baker Lake Hamlet community visit and presentation. Andy Berry presenter, Maria Egerton assisted. In attendance: Alexander Alooq (interpreter), Valerie Niego, Victoria Amarook (867) 793-4892	Q – Victoria asked if there are jobs A – Andy explained that for now we have only a few jobs and we have taken them back first. If we do well on our first few drill holes, we might have the opportunity to hire more Victoria is trained as a cook, or cook helper, and interested in working with us.
Saturday, July 4, 2015		INAC, KIA, NIRB, NWB, WSCC	Notification of the Commencement of Operations letters sent.
Friday, August 7, 2015		INAC, KIA, NIRB, NWB, WSCC	Notification of the Closure of Operations letters sent
Monday, January 25, 2016	11am	Government of Nunavut - Resident Geologist, Mike Beauregard	Talked with Andrew Berry at Roundup. Company and technical update
Wednesday, January 27, 2016	12-2pm	Jim Paterson, Jeff Ward, Andrew Berry, Cam Barker, Chris Arko, Chris Kalluk, Jorgan Aitaok	NTI/Kivalliq Lunch at Rogue. Company and technical update
Friday, June 24, 2016		INAC, KIA, NIRB, NWB, WSCC	Notification of the Commencement of Operations letters sent.
Wednesday, August 10, 2016		INAC, KIA, NIRB, NWB, WSCC	Notification of the Closure of Operations letters sent
November 7 to December 6, 2016		NTI - Director, Carson Gillis	Emails and telephone calls regarding Inuit Owned Land Parcels (IOLs).

Wednesday, January 25, 2017	6pm	NTI - Director, Carson Gillis NTI - Senior Advisor Lands Administration Planning and Management, Miguel Chenier NTI - Senior Advisor Minerals Oil and Gas Management, Jorgan Aitaok NTI - Manager GIS/IT, Chris Kalluk KIV - Jim Paterson/ Jeff Ward/ Andrew Berry/ Emily McNie	NTI Dinner at Rogue. Company and technical update
Friday, March 31, 2017		Nunavut Tunngavik Incorporated	Paid annual fees and royalty payments to NTI.
Wednesday, January 24, 2018	6pm	NTI - Senior Advisor Lands Administration Planning and Management, Miguel Chenier NTI - Senior Advisor Minerals Oil and Gas Management, Jorgan Aitaok NTI - Manager GIS/IT, Chris Kalluk KIV - Jim Paterson/ Jeff Ward/ Andrew Berry/ Emily McNie	NTI/Kivalliq Dinner at Steamworks. Company and technical update.
Monday, February 14, 2022	10 am -12 pm	Stephanie Lutz (APEX) - Arviat HTO	Called Arviat HTO to confirm contact information.
		Stephanie Lutz (APEX) - Hamlet of Whale Cove	Called Hamlet of Whale Cove to confirm council members and contact information.
		Stephanie Lutz (APEX) - Issatik HTO (Whale Cove)	Called Issatik HTO to request contact name and email, would only provide general email to send correspondence and documents.
		Stephanie Lutz (APEX) - Hamlet of Rankin Inlet	Called Rankin Inlet Hamlet for Mayor's contact information and Kangiqliniq HTO number as current one was not in use, they were busy and asked if would call back.
		Stephanie Lutz (APEX) - Aqigiq HTO (Chesterfield Inlet)	Called Aqigiq HTO to confirm contact information.
		Stephanie Lutz (APEX) - Baker Lake HTO	Called Baker Lake HTO to confirm contact information.
Thursday, February 17, 2022	6pm	Marina Carvalho - KIA (Luis Manzo) Marina Carvalho - Hamlet of Baker Lake Marina Carvalho - Hamlet of Whale Cove Marina Carvalho - Hamlet of Rankin Inlet Marina Carvalho - Hamlet of Chesterfield Inlet Marina Carvalho - Hamlet of Arviat Marina Carvalho - NTI (Carson Gilles) Marina Carvalho - Arviat HTO Marina Carvalho - Aqigiq HTO Marina Carvalho - Kangiqliniq HTO (Rankin Inlet) Marina Carvalho - Issatik HTO Marina Carvalho - Baker Lake HTO	Email to request Consultation
Friday, February 18, 2022		Marina Carvalho - Kangiqliniq HTO (Rankin Inlet)	Email response from Kangiqliniq HTO that consultation request would be presented to the board the following week.
February 23,2022	11am	Marina Carvalho - Hamlet of Baker Lake	Phone call to follow up email for Community Consultation. No answer
	12pm	Marina Carvalho - NTI	Carson from NTI responded the email acknowledging receipt and wishing "the best of luck and if we need more information or have any questions we will contact you"
	1pm	Marina Carvalho - Hamlet of Arviat	Phone call to follow up email for Community Consultation. No answer. Left a voice message to Melodie Obszarski
	1:30pm	Marina Carvalho - HTO Baker Lake	Spoke with Carmen and she explained they were returning to the office this week. I resent the email which she confirmed receipt and said she would bring the matter to the next Board Meeting (date to be determined next week).We expect to receive an email from them after the Board Meeting
	2pm	Marina Carvalho - Hamlet of Arviat	Spoke with Steve England and he explained that council meetings happen twice a month. In March they will be held on Mar 8th and Mar 22nd. He suggested the company to participate in the council meeting on the day before the Public Consultation. For public consultation we would need to rent the space and the Hamlet will advertise on Radio, Facebook and Arviat Local News. We need to send an official requirement to the mayor authorizing our participation in the council meeting. There is a limitation of 50 or 100 people due to COVID.
	2:30pm	Marina Carvalho - HTO Arviat	Spoke with Nicole who confirmed the receipt of the email and agree on an in-person consultation in the third week of March. She said we could suggest the date and time. We will follow up with an email to confirm the date.
February 24,2022	10:30am	Marina Carvalho - Hamlet of Baker Lake	Left a message for Sheldon Dorey to return my call
	10:30am	Marina Carvalho - Kangiqliniq HTO (Rankin Inlet)	Email received from Kangiqliniq HTO (Andre Aokaut) confirming that they would like to have an in-person consultation
	11am	Marina Carvalho - Hamlet of Arviat	Attempt to contact Steve to verify if we could meet with the Mayor March 21st or do all meetings on the same day (Council, HTO and Public) in order to accommodate meetings in Arviat. He was not in the office, left a message that I would call again in the afternoon.
	5pm	Marina Carvalho - Hamlet of Arviat (Melodie Obszarski)	Melodie returned the call from Wednesday. I explained that I had spoken with Steve and he suggested the date of March 22nd when they are having the Council Meeting. She confirmed that the Council Meetings are held during the evening from 6pm to 8pm.
	5pm	Marina Carvalho - Hamlet of Baker Lake	Spoke with Darlene and she asked me to call again tomorrow morning to speak directly to Sheldon about our visit (Sheldon was in training the whole day today)
	5pm	Marina Carvalho - Hamlet of Rankin Inlet	Phone call to follow up email for Community Consultation. Left a voice message to Darren Flynn asking to return my call
	6pm	Marina Carvalho - Hamlet of Rankin Inlet	Darren Flynn returned the call and confirmed that there are no restrictions for in-person consultation. He will answer my email tomorrow morning confirming their availability to receive us in March. he also pointed out that as of Feb 24, indoor meetings are limited to 25 people which he thinks that Public Consultation might not be the best option for now.
February 25,2022	10am	Marina Carvalho - Hamlet of Baker Lake	Tried to contact Sheldon Dorey but he was in meetings
	4pm	Marina Carvalho - Hamlet of Baker Lake	Tried to contact Sheldon Dorey again but he was not available.
February 28,2022	9am	Marina Carvalho - Hamlet of Baker Lake	Tried to contact Sheldon Dorey again but he was not in the office yet. I left a message with my phone number to return my call
	9am	Marina Carvalho - Hamlet of Rankin Inlet	Email to Darren Flynn (SAO) confirming their availability on March 21st
	11am	Marina Carvalho - Kangiqliniq HTO (Rankin Inlet)	Email to Andre (HTO) confirming their availability on March 21st
	12:30pm	Marina Carvalho - Hamlet of Baker Lake	Sheldon returned the call and informed that he and the Mayor won't be in town on the third week of March. They have medical appointment in Winnipeg
	4:30pm	Marina Carvalho - Hamlet of Arviat	Email to Steve England requesting to meet on March 15 or March 16 during the day following by the Public Consultation in the evening
	4:30pm	Marina Carvalho - Hamlet of Baker Lake	Email to Sheldon requesting to meet on March 15 or March 16 during the day following by the Public Consultation in the evening
	4:30pm	Marina Carvalho - Hamlet of Rankin Inlet	Email to Darren Flynn requesting to meet on March 14 during the day following by the Public Consultation in the evening
	4:30pm	Marina Carvalho - Kangiqliniq HTO (Rankin Inlet)	Email to Andre (HTO) requesting to change the date to March 14
	6:00pm	Marina Carvalho - Hamlet of Rankin Inlet	Darren returned my email confirming availability on March 14 during Council Meeting (1:30pm) and/or March 15 at 10:30am

March 1 - March 11, 2022	Marina Carvalho - Hamlet of Baker Lake	Several emails were exchanged in order to schedule meetings.
	Marina Carvalho - Hamlet of Rankin Inlet	All Hamlet & HTO representatives suggested in person meetings.
	Marina Carvalho - Hamlet of Arviat	Hamlets were requested to post the Public Meeting on their Facebook page and Local Radio.
	Marina Carvalho - Baker Lake HTO	
	Marina Carvalho - Kangiqliniq HTO (Rankin Inlet)	
	Marina Carvalho - Arviat HTO	
Monday, March 14, 2022	Kangiqliniq HTO (Rankin Inlet) In-Person Meeting	Questions raised regarding proposed drilling program (starting date and length of the program) and environmental baseline studies.
	Kangiqliniq HTO - Chairman, Samuel Alagalak	We explained Hemmera has been contracted to complete environmental baseline studies.
	Kangiqliniq HTO - Vice-chair, Sampson Kowmuk	Request for a map of the planned drilling area and which measures we would follow to protect the Caribou.
	Kangiqliniq HTO - Sectary Treasurer, Harry Ittinuar	We explained that the KIA Mobile Caribou Conservation Measures would be followed and Wildlife Monitors would be hired through the HTO's with authority to stop the activities if required.
	Kangiqliniq HTO - Director, Nigel Kubluitok	Concerns raised regarding low level helicopter flights and the exploration for Uranium.
	Kangiqliniq HTO - Director, Kaluk Tatty	HTO suggested that we should educate the people to not be afraid of Uranium.
	Kangiqliniq HTO - Director, Levi Curley	HTO expressed general support of the program as long as there was to be consistnet effective communicaiton and adherence to the other issues discussed.
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	
Monday, March 14, 2022	Rankin Inlet Public Meeting	Suggestion that all communication should improve as community members do not know who we are and what we are doing.
	Rankin Inlet - Community Member, Andrew Qkerolik	Suggestion to have a bilingual liaison officer for a better communication and to provide updates of the activities performed on a regular basis
	Rankin Inlet - Community Member, Mary Rose (translator)	
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	
Tuesday, March 15, 2022	Hamlet of Rankin Inlet	Attendees mentioned the importance of a good communication between the Company and Community. Questions regarding Job opportunities for local people and training certification, contracts with local
	Hamlet of Rankin Inlet - Deputy Mayor, Martha Hickes	business and how much investment would stay in Nunavut. Concerns raised regarding Caribou disturbance especially low level flights. All concerns were addressed and we committed to have two Wildlife Monitors
	Hamlet of Rankin Inlet - SAO, Darren Flynn	hired through the HTO onsite at all times the Project is running.
	Hamlet of Rankin Inlet - Councilor, Megan Pizzo Lyall	Expressed general support of the program as long as there was to be consistent effective communicaiton and adherence to the issues discussed.
	Hamlet of Rankin Inlet - Councilor, Justin Merrit	
	Hamlet of Rankin Inlet - Councilor, Michael Shouldice	
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	
Tuesday, March 15, 2022	Hamlet of Baker Lake In-Person Meeting	Questions raised regarding the exploration program and the next stages after the drilling program.
	Baker Lake Mayor Richard Aksawnee	They reinforced the importance of having the HTO supporting the project and that the Hamlet and the HTO positions must align.
	Baker Lake SAO Sheldon Dorey	Concerns raised about Caribou and environmental protection.
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	Discussion regarding Baker Lake as the main hub for logistics and resources. Questions raised regarding utilizing local business and people. Asked to keep communication open and clear.
		Expressed general support of the program as long as HTO was also in support.
Tuesday, March 15, 2022	HTO Baker Lake In-Person Meeting	Initial questions raised were about AREVA Resources Canada Inc.'s Kiggavik Uranium Mine Project, which was not allowed to proceed by NIRB in 2016 due to uncertainties and concerns with respect to
	Chairman, Phillip Putumiraqtuq	environmental and socioeconomic effects as a number of board members thought Angilak was the same project.
	Vice-chair, James Kalluk	Questions were similar to other meetings generally regarding Caribou protection, garbage and environmental issues.
	Secretary treasurer, Hosea Iksiraq	Board members wanted to know if the Wildlife Monitors would have authority to shut down the drills when caribou herds approached.
	Director, Eva Elytook	We confirmed that wildlife monitors would have the authority to follow the KIA Mobile Caribou Conservation Measures.
	Director, John Etegoyok	Questions were also raised regarding the size and continuity of exploration.
	Director, Joedee Joedee	Request for a site visit when possible.
	Director, Alex Justin Iqqaat	
	Director, Timothy Evviuk	
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	
	Translator - Sarah	
Tuesday, March 15, 2022	Baker Lake Public Meeting	Woman asked about NTI Agreement and also why there was no activity at the project between 2016 and 2021.
	Attendees: 13 people	Questions asked about job opportunities, who will post the jobs and what the shift hours would be.
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	Questions about COVID, such as if everyone coming to Nunavut would be fully vaccinated.
	Translator - Alexander	We explained all project personnel are following the Federal Guidance and everyone would be fully vaccinated and with a COVID plan in place, rapid testing and isolation, if needed.
Wednesday, March 16, 2022	Hamlet of Arviat In-Person Meeting	Questions regarding the stage of the project and if our current reserve was enough to become a mine.
	Hamlet of Arviat - Mayor, Joe Savikataaq Jr.	Colin explained that ValOre still needs to do more work to expand the reserve, that the potential is there but it can takes many years.
	Hamlet of Arviat - SAO, Steve England	They were happy to see us back performing some work because it was very quiet in the past few years.
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	The Mayor reinforced that they can provide trained workforce and asked us to consider Arviat as the main point for our Logistics.
Wednesday, March 16, 2022	Arviat HTO In-Person Meeting	Meeting cancelled due to lack of quorum.
	Arviat HTO - Chair, Sam Muckpah	To be rescheduled to a virtual meeting when in-person consultation trip concluded.
	Arviat HTO - Director, Gordy Kidlapik	
	Arviat HTO - Director, Thomas Ubluriak	
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	
	Translator - Bobby Suluk	
Wednesday, March 16, 2022	Arviat Public Meeting	PowerPoint presentation with large printed maps on walls, Q & A session and then gift raffle.
	Attendees: 7 people + 5 coming near the end	Some young men who joined mid-meeting asked about local business and job opportunities.
	ValOre - Colin Smith/ Marina Carvalho/ Tara Gunson (APEX)	There were no questions other than job opportunities.
	Translator - Bobby Suluk	We explained all job positions would be posted soon through the Hamlet.
Thursday, March 24, 2022	Arviat HTO	Virtual meeting scheduled for March 28, 2022 at 7 pm.
Monday, March 28, 2022	Arviat HTO	Virtual meeting was canceled by the HTO due to lack of quorum.
March 24 - April 04, 2022	Kangiqliniq HTO (Rankin Inlet)	All HTO's were contacted to request community member names for Wildlife Monitor positions.
	Baker Lake HTO	Baker Lake HTO provided referrals.
	Arviat HTO	

Tuesday, April 12, 2022	Kangiqliniq HTO (Rankin Inlet)	Received Letter of Non-Support for the Project. Reached out to discuss what had changed their minds since the meeting.
Thursday, May 5, 2022	Hamlet of Baker Lake	Received Letter of Support for the Project.
Thursday, July 28, 2022	Hamlet of Baker Lake - Mayor, Richard Aksawnee	Email site visit invitation.
	Hamlet of Baker Lake - SAO, Sheldon Dorey	Hamlet and HTO of Baker Lake confirmed the visit.
	Hamlet of Baker Lake - ASAO, Robert Seeteenak	Hamlet of Arviat could not go, but a virtual meeting for an activities update was scheduled.
	HTO Baker Lake - Manager, Carmen Ikuutaq	James Taipana and Valerie Niego responded the KIA would not be able to participate this time but would make theirselves available for next time.
	Hamlet of Arviat - Mayor, Joe Savikataaq Jr	
	Hamlet of Arviat - SAO, Steve England	
	Hamlet of Arviat - ASAO, Michael Cohen	
	KIA - CLO Baker Lake, Valerie Niego	
	KIA - Community Director, James Taipanak	
Monday, August 8, 2022	Nutaaq Camp Visit	The site visit was very positive.
	Baker Lake - Mayor, Richard Aksawnee	Visitors observed and were able to understand the activities performed in Nutaaq Camp and ValOre's commitment to run the program in terms of people, environment and wild life.
	Baker Lake - Hamlet representative, Willie	Following a quick presentation with coffee and cake, we engaged in a very positive open conversation about the project, our intent, and potential future development in Nunavut.
	Baker Lake - HTO Chair, Phillip Putumiraqtuq	
	Baker Lake - HTO Vice chair, James Kalluk	
	ValOre - Colin Smith/ Philo Schoeman (APEX)	
Tuesday, August 9, 2022	Zoom meeting	Mismatched schedules didn't allow for a site visit, but very positive Zoom meeting.
	Arviat - Mayor, Joe Savitaaq Jr.	Mr. Savitaaq was in favour of the project with the intent of increasing opportunities for Arviat and suggested to implement uranium information in future presentations to educate people about Uranium as it is
	Arviat - Acting SAO, Michael Cohen	currently feared in the community as being dangerous. Mr. Savitaaq also suggested it would be beneficial to dedicate a few slides on how uranium exploration and in particular, mining, can be conducted safely for
	ValOre - Colin Smith/ Marina Carvalho/ Philo Schoeman (APEX)	the proximal communities, employee, wildlife, and environment.

APPENDIX F

Summer 2022 Work completed and results obtained by Ausenco

2022 Field Program Summary Report – Angilak Environmental Baseline Monitoring Program

Photo: Alex Therriault

Prepared for:

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Vancouver BC V6C 2V6

Project No. 106892-01

February 8, 2023

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Executive Summary

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Table of Contents

Executive Summary ..... **i**

1.0 Introduction **1**
1.1 ValOre Site Description 1

2.0 Climate Station Refurbishment Assessment **3**
2.1 Results 3
2.2 Discussion and Recommendations 4

3.0 Atmospheric Contaminants Monitoring **5**
3.1 Methods 5
3.2 Results 7
3.3 Discussion and Recommendations 8

4.0 Surface Water Quality and Hydrology **9**
4.1 Methods 10
4.2 Results 11
4.2.1 Quality Assurance/Quality Control 15
4.3 Discussion and Recommendations 15

5.0 Wildlife and Wildlife Habitat **17**

6.0 Closure **18**

List of Tables (Within text)

Table 2-1 Estimated Repair Costs for Visually Degraded Climate Station Components 4
Table 3-1 Atmospheric Contaminants Monitoring Stations at the Angilak Uranium Project 7
Table 3-2 2022 Results for Total Particulates 7
Table 3-3 Atmospheric Contaminants Provincial Criteria 7
Table 4-1 Surface Water Quality Monitoring Stations at the Angilak Uranium Project 9
Table 4-2 Flow Monitoring Stations at the Angilak Uranium Project 10
Table 4-3 Observed In-Situ Parameter Measurements from July 15 to July 16, 2022 11
Table 4-4 Summary of CCME Guideline Exceedances by Surface Water Monitoring Stations, July 2022 12
Table 4-5 Flow Measurements Completed from July to September 2022 13
Table 5-1 Incidental Wildlife Sightings from 2022 17

List of Figures (Within text)

Figure 1-1 Project Location 2
Figure 3-1 Dustfall Station Locations 6

List of Appendices

Appendix A Photo Log
Appendix B Climate Station Quote
Appendix C Field Forms
Appendix D Raw and Refined Flow Data
Appendix E Surface Water Quality Results
Appendix F Analytical Laboratory Reports
Appendix G Dustfall Analytical Results
Appendix H Caribou Monitoring Plan

1.0 Introduction

ValOre (formerly Kivalliq Energy Corp.) executed a drill program at the Angilak Uranium Project (the Project) from April to June and July to September 2022. As part of the drill program, ValOre retained Ausenco (formerly Hemmera Envirochem Inc.) to re-initiate environmental baseline data collection activities. Ausenco completed previous baseline environmental data collection programs on this project from 2010 to 2014. The scope of the 2022 program closely followed previous programs, focusing on five aspects:

- Climate
- Atmospheric contaminants
- Surface water characterization
- Water quality and water level
- Incidental wildlife observations
- Caribou (*Rangifer tarandus*) Monitoring Plan (**Appendix H**) development.

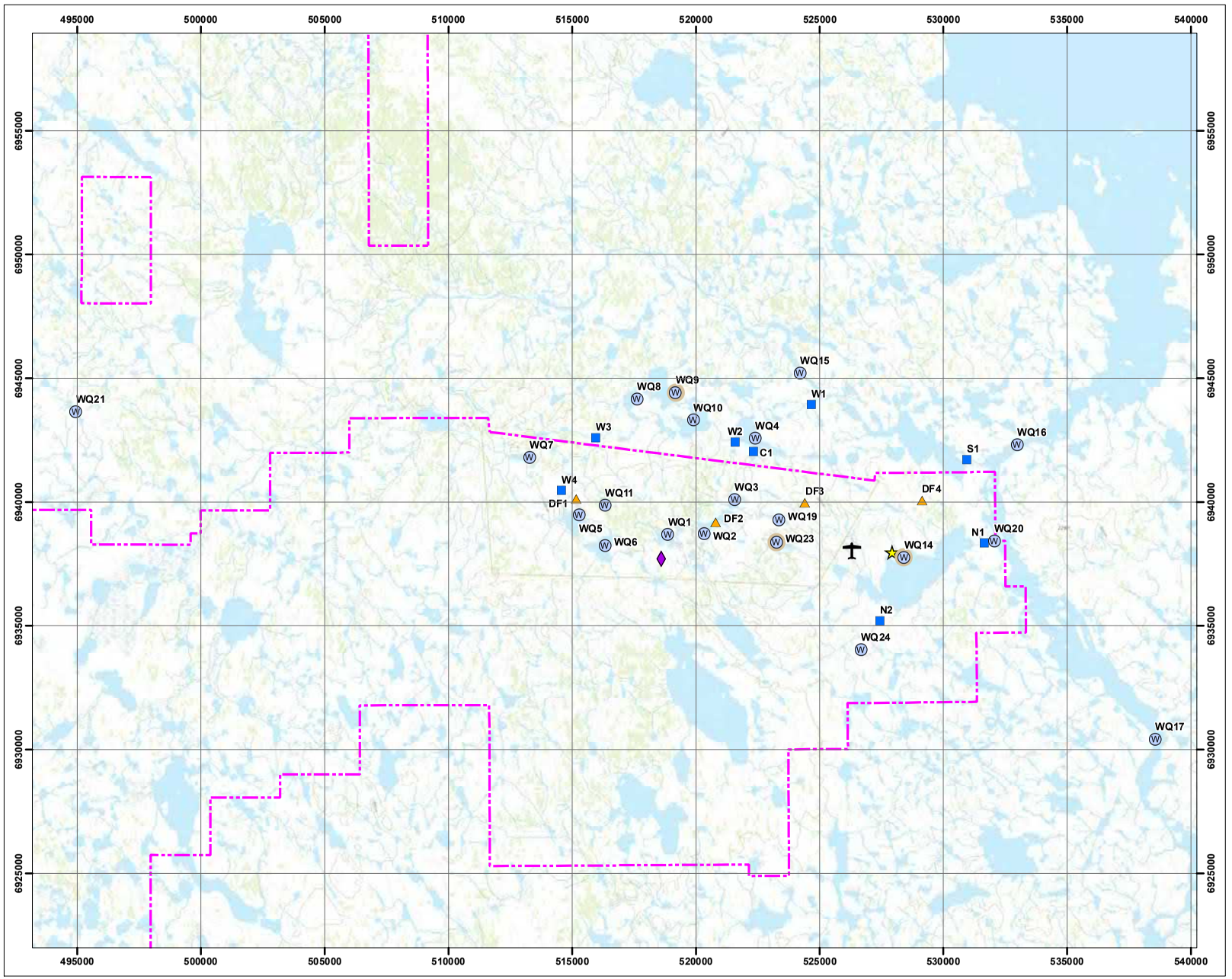
The Project is authorized under Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) Land Use Permit (LUP) N2019C0013, Kivalliq Inuit Association (KIA) Land Use Licence KVL308C09, Nunavut Water Board (NWB) Water Licence 2BE-ANG2227and Nunavut Impact Review Board (NIRB) File 08EN052.

Activities authorized at the Project include: the use of water and disposal of waste associated with camp operations, exploration drilling, geological mapping, rock, soil and till geochemical sampling, airborne and ground geophysical surveys, trenching and the establishment of fuel caches.

The goal of the environmental baseline data collection program was consistent with the initial work and follows Ausenco's Environmental Monitoring Toolkit for Exploration Projects approach. Mining is subject to considerable scrutiny by government regulators, Indigenous Groups, and the public, and uranium mining is of particular focus to regulators. To produce a robust and scientifically defensible Environmental Assessment (EA), a comprehensive and long-term data set is necessary. The purpose of the studies in this program are to capture data in a standardized manner relevant to potential future environmental baseline study requirements while remaining within a scale and scope consistent with ValOre's exploration program. While undertaking the baseline data collection, there was also an opportunity for ValOre to train local Inuit Environmental Monitors and build capacity within the local community to support the Project.

1.1 ValOre Site Description

The Angilak Uranium Project location (herein referred to as the "Site") is located approximately 230 km south-west of Baker Lake or approximately 325 km west of Rankin Inlet, within the Kivalliq Region of Nunavut. The Kivalliq Region is situated within Inuit traditional territory. In summer, the Site is only accessible by air (both helicopter and fixed wing aircraft). In winter the Site can be accessed by snowmachine. The Site is located at and around UTM coordinates (Zone 14) 528227 Easting and 6937523 Northing.



Angilak Environmental Baseline Monitoring Program
Nunvaut

Site Location

Legend

- Nutaaq Camp
- Airstrip
- Climate Station
- Dustfall Station
- Hydrometric Station
- Water Quality Station
- Sediment Sample Location
- Site Boundary

Notes

1. All mapped features are approximate and should be used for discussion purposes only.
2. This map is not intended to be a "stand-alone" document, but a visual aid of the information contained within the referenced Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

Sources

- Main Frame and Inset Basemap: ESRI World Topographic Map

N

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Kilometres

NAD 1983 UTM Zone 14N

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2.0 Climate Station Refurbishment Assessment

Climate monitoring of the proposed mine study area and the establishment of a baseline data set can help support streamflow monitoring, mine reclamation and engineering design, water balance modelling, water quality modelling, and water management planning during mine exploration, construction, and operation. As part of the baseline assessment, Ausenco found and evaluated the utility of a previously installed climate station.

The historical climate station is positioned at UTM coordinates (Zone 14) 518588 North and 6937702 East.and consists of the Onset Hobo Weather Station with an OTT Pluvio Rain Gauge and Alter Shield add-on. The system is powered by a 63 AHR AGM Solar Battery, which is charged using a 20-Watt Solar Panel. The station had been sitting idle in the tundra with no maintenance completed since 2016 when the last field program was concluded.

Ausenco personnel held a pre-field meeting with the original provider of the climate station, Hoskins Scientific. The intent of that meeting was to gain insights from an expert with respect to potential condition of the climate station. Doug Calvert (Hoskin Integrated System Manager), the individual who built the original station, was consulted.. Doug Calvert theorized that the entire station would likely need to be replaced as it had been sitting for nearly a decade in harsh winter conditions without maintenance and all the sensors could be degraded. On July 13th,2022, Ausenco's environmental technician conducted a visual inspection of the climate station to determine if it would be possible to salvage any components to save on the cost of replacement.

2.1 Results

The climate station is in degraded condition. The HOBO logger external box was found detached from the climate station stand. The box door was partially ajar, exposing all electrical components within the protective box to weathering. Water has penetrated the logger box, impacting the logger, the satellite communication chip, and all connecting wiring leaving visible corrosion on all electronic components. The rain gauge is in good visual condition, but external wires linking the rain gauge to the weather station are severed. The solar panel is detached from the station and connecting wires are severed beyond repair. The solar radiation sensor cable is frayed and beyond repair. Battery cables are severed beyond repair and the battery is not in working condition. The temperature sensor cables are severed and beyond repair. The humidity or the barometric pressure sensor is destroyed; identification of which is difficult based on the remaining pieces. The climate station tripod guy wiring is no longer attached to surrounding anchor points and the station is standing askew. A set of representative climate station photos can be found in **Appendix A**.

2.2 Discussion and Recommendations

Based on the visual inspection of the climate station, the station will require new parts including cables to each sensor, relative humidity and barometric pressure sensors, logger, sat-com link chip, battery, solar panel, guy wires and anchors, and a logger external box. The rain gauge appears to be in good physical condition, as does the tripod climate station stand. Ausenco proposes two options going forward with respect to getting the station operational:

Option 1: Purchase and replace only the sensors and cables that were visually noted as degraded. Option 1 would include replacing components in **Table 2-1** which is an estimated total of $7,400.

Table 2-1 Estimated Repair Costs for Visually Degraded Climate Station Components

Item	Unit Price
Hobo Energy Logger Pro Data Logger	$519.00
Solar Stream Iridium Telemetry Kit	$1795.00
Hoffman NEMA 4 enclosure 1	$1395.00
Guy Wire Kit	$100.00
Solar Panel Kit, 30 Watt	$350.00
Battery Enclosure System and Battery	$775.00
Wind Monitor and Conduit Sensor Cable Protection	$1892.00
Temp/RH Sensor and Conduit Sensor Cable Protection	$351.00
Barometric Pressure Sensor	$222.00
Estimated Total	$7400.00

Option 2: Replace all electronic components (sensor and wiring components) of weather station during next field visit. Power up station and begin collecting data.

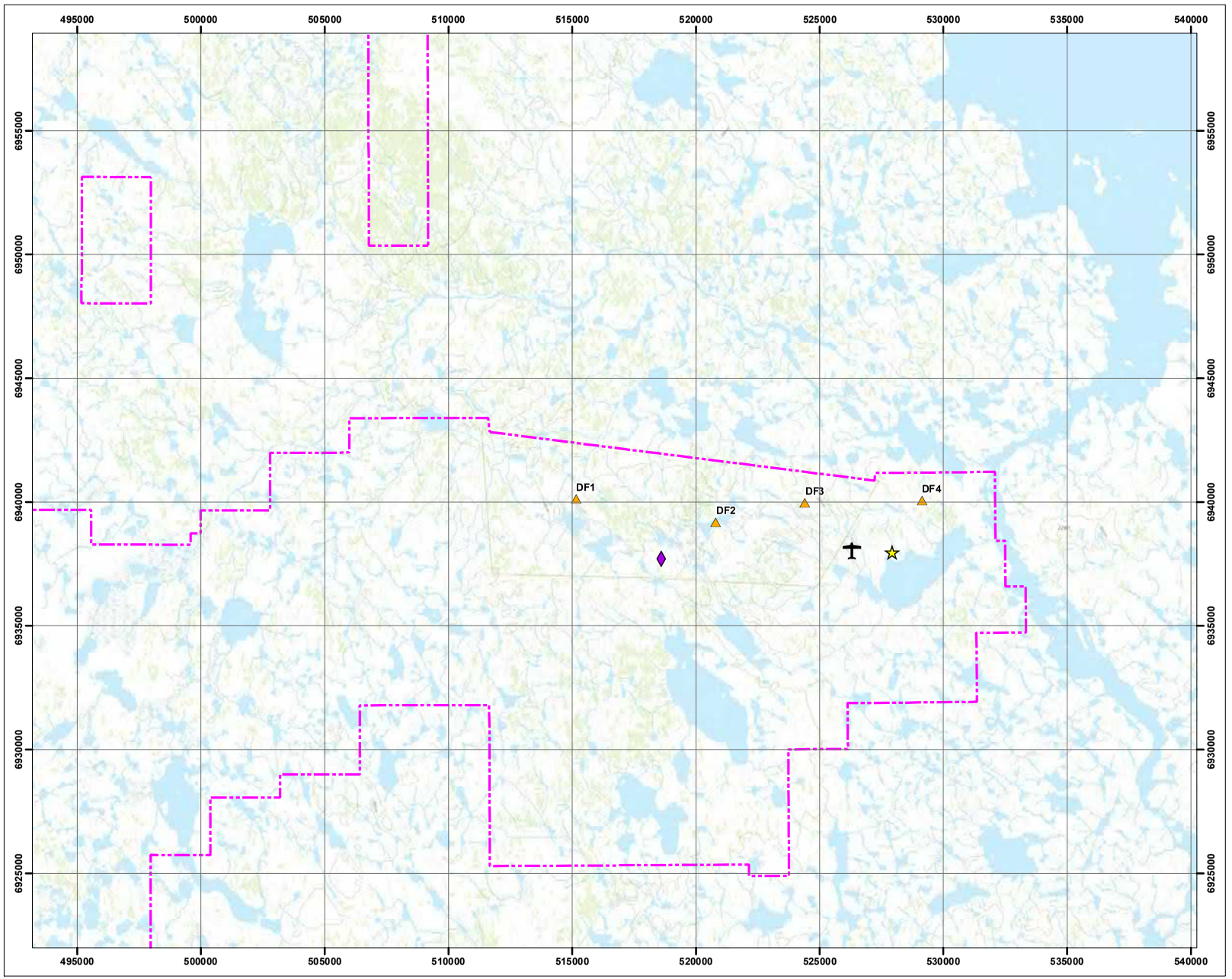
Given the remote location of the Site, difficulty gaining access and short field season, Option 2 would be the most practical as it would be more likely for the climate station to be operational during the next field visit. See **Appendix B** for a quote from Hoskins Scientific to build a new weather station totalling **$17,518.00**.

3.0 Atmospheric Contaminants Monitoring

The focus of the air quality monitoring program in 2022 was to continue the dustfall collection program initiated in 2010 through (seasonally) to 2012. Dustfall is a method used to describe air particles that settle under the influence of gravity and atmospheric conditions. Chemical analysis of dustfall particulates can help to identify atmospheric contaminants and their ecological impact within a described area.

3.1 Methods

During the 2022 program, the four previously installed dustfall stations were re-established. Dustfall canisters were installed within the erected dustfall stations and replaced every 30 days, sealed, and sent to ALS Environmental (ALS) for laboratory analyses. One sample per station was collected during the 2022 program. However, station DF1 was knocked over during the sampling period thus impacting results. The sampling coordinates are provided in **Table 3-1** and the locations shown on **Figure 3-1**.



Angilak Environmental Baseline Monitoring Program
Nunvaut

Dust Fall Stations

Legend

- Nutaaq Camp
- Airstrip
- Climate Station
- Dustfall Station
- Site Boundary

Notes

1. All mapped features are approximate and should be used for discussion purposes only.
2. This map is not intended to be a "stand-alone" document, but a visual aid of the information contained within the referenced Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

Sources

- Main Frame and Inset Basemap: ESRI World Topographic Map

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Kilometres

NAD 1983 UTM Zone 14N

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Table 3-1 Atmospheric Contaminants Monitoring Stations at the Angilak Uranium Project

Monitoring Component	Station ID	UTM Coordinates (NAD 1983 Zone 14N)	
		Easting	Northing
Dustfall Station	DF1	515159	6940119
	DF2	520809	6939187
	DF3	524411	6939969
	DF4	529124	6940061

3.2 Results

In total, a single set of samples were deployed, retrieved, and sent for total particulates and metals analysis during the 2022 program. **Appendix F** contains the ALS report, which includes details of the standards and procedures used for analyses and laboratory results. **Appendix F** also displays results from previous sampling years (2010 to 2012) summarized in one table.

Air quality samples were analysed for the following parameters:

- **Particulates:** Total dustfall particulates (**Table 3-2**).
- **Total Metals:** Aluminum, antimony, arsenic, barium, beryllium, bismuth, boron, cadmium, calcium, chromium, cobalt, copper, lead, lithium, magnesium, manganese, molybdenum, nickel, potassium, selenium, silver, sodium, strontium, thallium, tin, uranium, vanadium, zinc.

There are currently no dustfall criteria for Nunavut. As such, dustfall samples were compared to total particulate criteria from BC, Ontario, Alberta, and Quebec (**Table 3-3**). It was found that there were no exceedances over a 30-day period for total particulates.

Table 3-2 2022 Results for Total Particulates

Station ID	Total Dustfall Particulates (mg/dm^2/day)
DF1	<0.11*
DF2	0.30
DF3	0.32
DF4	0.31

Notes: The lowest dustfall detection limit ALS can analyse is 0.11 mg/dm2/day. Low concentrations of total particulates at DF1 are likely attributed to the station being knocked over during the sampling period.

Table 3-3 Atmospheric Contaminants Provincial Criteria

Jurisdiction	Receptor Type	Dustfall Criteria
British Columbia	Residential / Parkland	1.75 mg/dm^2/30 day
	Industrial / Other	2.90 mg/dm^2/30 day
Ontario	Any	70 mg/dm^2/30 day
Quebec	Any	50 mg/dm^2/30 day
Alberta	Residential / Recreation	53 mg/dm^2/30 day
	Commercial / Industrial	158 mg/dm^2/30 day

3.3 Discussion and Recommendations

The dustfall samples collected during the 2022 field season yield similar results to that of the previous programs. There are no notable exceedances or differentiations between the monitoring programs. The total particulates found at DF1 (<0.11 mg/dm^2/day) are significantly lower than that of the other stations. The lower concentrations of total particulates are likely due to the station being knocked over during the sampling period.

Site ground conditions consisting of bedrock and permafrost make it difficult to establish permanent dustfall collection stations. The 2022 program followed the method to erect the stations used in monitoring programs before it: Dig down to permafrost and use rocks and overburden to keep the dustfall stations erect. However, during the 2022 program, a dustfall station was found to be knocked over. The cause is undetermined. To overcome this problem Ausenco suggests that the stations be cemented into five-gallon pails with quick setting concrete and placed into the overburden as deep as permafrost would allow. This would add stability to each station and decrease the risk of sample disruption from weather events.

4.0 Surface Water Quality and Hydrology

Instantaneous flow measurements collected monthly (during open-water conditions) combined with regional streamflow and climate data will support mine reclamation engineering design, water balance modelling, water quality modelling, and water management planning during mine construction and operation.

The objective of the surface water quality monitoring program is to add to the existing baseline water quality data set collected in previous programs in areas of active exploration within the vicinity of the Angilak Project. The 2022 program focused on surface water flows in both the projected mine affected areas and upstream areas (hydrology), as well as surface water quality around Site (i.e., background surface water quality and mine-impacted surface water). The established surface water quality stations and hydrology stations are provided in **Table 4-1** and **Table 4-2**, respectively. The locations of all sampling stations are shown in **Table 4-1**.

Table 4-1 Surface Water Quality Monitoring Stations at the Angilak Uranium Project

Monitoring Component	Station ID	UTM Coordinates (NAD 1983 Zone 14N)	
		Easting	Northing
Water Quality Station	WQ1	518875	6938682
	WQ2	520323	6938718
	WQ3	521577	6940092
	WQ4	522399	6942567
	WQ5	515280	6939478
	WQ6	516328	6938229
	WQ7	513281	6941798
	WQ8	517630	6944156
	WQ9	519177	6944419
	WQ10	519896	6943305
	WQ11	516327	6939863
	WQ14	528403	6937762
	WQ15	524222	6945204
	WQ16	532976	6942307
	WQ17	538569	6930410
	WQ19	523358	6939271
	WQ20	532046	6938424
	WQ21	494953	6943644
	WQ23	523250	6938369
	WQ24	526672	6934031

Table 4-2 Flow Monitoring Stations at the Angilak Uranium Project

Monitoring Component	Station ID	UTM Coordinates (NAD 1983 Zone 14N)	
		Easting	Northing
Hydrometric Station	C1	522306	6942036
	N1	531664	6938345
	N2	527433	6935201
	S1	530948	6941716
	W1	524666	6943935
	W2	521589	6942415
	W3	515964	6942589
	W4	514572	6940459

4.1 Methods

The 2022 monitoring program consisted of one water grab sample at each water quality station. Water grab samples were collected from the middle of the stream, when possible, perpendicular to the flow and while facing upstream. Lake and stream samples were collected 0.1 m below surface. Sample bottles arrived clean to analytical standards, negating the need for rinsing. Sample containers and preservatives were obtained from ALS Winnipeg and brought to Baker Lake with Ausenco personnel in July. It is standard practice for dissolved metals and dissolved organic carbon samples to be field filtered with a 0.45 μm filter to remove any particles and to be preserved with nitric acid and hydrochloric acid, respectively while taking the sample in the field. However, ALS did not provide syringes and filters for the sampling program. Upon consultation with ALS, samples were not field filtered, and the preservatives were rinsed out of the dissolved sample containers. Ausenco was assured that this would not impact sample integrity. ALS filtered and preserved samples upon receipt. Water samples were packed with ice, placed in coolers, travelled with field staff to Winnipeg and were delivered to ALS Winnipeg for chemical analyses.

During the July 2022 monitoring event, sampling was completed at all 20 surface water quality stations. Eight staff gauges were installed at each of the hydrometric locations. However, biweekly flows were only conducted at seven of the eight stations as S1 was considered too deep and wide to conduct accurate flow readings. Using the hydrometeric data, stream discharge was calculated for seven of the eight stations. Stream discharge is the amount of water flowing through the stream at a given date and time. This was measured using the velocity-area method. Stream gauging was used to measure each of the hydrology location discharge or the volume of water moving through each channel per unit of time. The height of water in the stream channel, known as a stage or gauge height, was used to determine the discharge in each stream. The flow measurements were used to develop a best-fit rating curve for each station's discharge and stage height relationship. A rating curve was constructed by graphing manually derived discharge measurements (e.g., measured using the method described above) with a corresponding stage height. A best-fit curve was fit to these data points, and the equation of the line corresponds to the relationship between stage and discharge.

On each scheduled hydrology monitoring date, multiple measurements of water depth and velocity were collected across each hydrometric station stream channel, and the channel width was measured to calculate the area of the flow at the station. A flow meter and wading rod were used to collect water velocity

at 60% of the depth when depths were below 0.75 m and at 20% and 80% if stream depth is greater than 0.75 m. Each flow was conducted twice per location, per event. A staff gauge was installed at each station prior to conducting flow measurements to compare stream discharge with level of water. With sufficient discharge measurements, stream gauging via a staff gauge could negate the need for manual flow measurements.

Ausenco was present during the initial set of flow monitoring, after which trained ValOre staff continued to conduct stream monitoring through the season.

4.2 Results

Field in-situ water quality data was collected at each of the stations visited. A summary of field measurements including temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity readings are presented in **Table 4-3**. Field forms for each station are provided in **Appendix C**.

Table 4-3 Observed In-Situ Parameter Measurements from July 15 to July 16, 2022

Station	Date (dd/mm/yy)	Parameter					
		Temp. (°C)	pH (unitless)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)
WQ1	16/07/22	14.7	7.97	50.0	9.86	77.7	0.76
WQ2	16/07/22	15.5	7.84	54.4	9.75	77.3	0.37
WQ3	16/07/22	16.8	7.72	44.0	9.26	74.7	0.51
WQ4	15/07/22	18.9	6.87	41.4	8.84	151.7	1.38
WQ5	16/07/22	16.0	7.92	65.9	9.44	82.3	0
WQ6	16/07/22	15.5	7.87	48.9	9.48	80.1	0
WQ7	15/07/22	17.0	7.80	63.1	9.56	129.9	0
WQ8	15/07/22	20.0	8.25	70.0	9.62	125.9	0
WQ9	15/07/22	19.8	7.69	52.0	8.77	135.7	0.17
WQ10	15/07/22	19.4	7.72	45.0	9.01	142.5	0
WQ11	16/07/22	16.0	8.03	48.1	9.44	79.0	1.31
WQ14	16/07/22	13.9	7.25	38.9	9.88	59.2	0
WQ15	15/07/22	20.4	7.58	35.7	9.02	144.7	1.21
WQ16	16/07/22	15.8	7.70	26.1	9.72	89.2	0.07
WQ17	16/07/22	15.3	7.56	26.0	9.61	95.5	0
WQ19	16/07/22	16.3	7.70	42.2	9.46	72.0	0.04
WQ20	16/07/22	17.3	7.41	32.3	9.95	60.0	0
WQ21	16/07/22	14.3	7.83	57.0	9.93	79.1	2.87
WQ23	16/07/22	12.3	7.73	69.0	9.79	77.3	1.00
WQ24	16/07/22	12.1	7.63	79.8	10.14	77.4	1.32

Laboratory analytical results for surface water samples are summarized in **Appendix G**. Results were compared to Canadian Council of Ministers of the Environment Water Quality Guidelines for the Protection of Freshwater Aquatic Life (CCME). Analytical laboratory reports are provided in **Appendix F**.

A summary of all stations with concentrations exceeding CCME guidelines during the July 2022 sampling event is presented in **Table 4-4**.

Table 4-4 Summary of CCME Guideline Exceedances by Surface Water Monitoring Stations, July 2022

Sample Location	Parameters exceeding CCME-FAL guidelines	CCME-FAL Guidelines
WQ15	Iron (0.638mg/L)	Iron: 0.3 mg/l Aluminum: 100 µg/l Copper: 2 µg/l
WQ21	Iron (0.311mg/L)	
WQ23	Aluminum (107µg/L), Iron (0.614mg/L)	
WQ24	Copper (5.12 µg/L), Iron (0.683mg/L)	

A summary of surface water quantity and hydrometric monitoring tasks, as well as raw data for each station visited in July 2022 is provided in **Table 4-5**. Field forms for each station are provided in **Appendix C**. Raw and refined flow measurements are provided in **Appendix D**. Flow measurements were recorded biweekly at 7 stations during the 2022 field year (**Table 4-5**).

Table 4-5 Flow Measurements Completed from July to September 2022

Hydrology Event	Site ID	Date (dd/mm/yy)	Discharge (m^3/s)	SG Reading (m)	Comments
First Event	C1	14/07/2022	0.0884	0.631	
	N1	14/07/2022	4.8175	0.550	
	N2	15/07/2022	2.2061	0.472	
	W1	14/07/2022	2.8686	0.250	
	W2	15/07/2022	2.5525	0.600	
	W3	15/07/2022	0.7518	0.682	
	W4	15/07/2022	0.2014	0.660	
Second Event	C1	28/07/2022	No Flow	0.532	No flow readings conducted.
	N1	28/07/2022	2.3858	0.430	
	N2	28/07/2022	1.1901	0.400	
	W1	28/07/2022	1.5333	0.178	
	W2	28/07/2022	0.5597	Roughly 0.480	SG not legible from photo and is erroneous on field sheet.
	W3	28/07/2022	0.3441	0.622	
	W4	28/07/2022	0.0610	0.602	
Third Event	C1	11/08/2022	0.0801	0.481	
	N1	11/08/2022	2.5210	0.374	SG not legible from photo and is erroneous on field sheet. Approximate reading is from photo.
	N2	11/08/2022	0.8599	0.358	
	W1	11/08/2022	0.9511	0.144	
	W2	11/08/2022	0.3875	0.464	
	W3	11/08/2022	0.0662	0.595	
	W4	11/08/2022	0.4052	0.560	SG not legible from photo and is erroneous on field sheet. Approximate reading is from photo. 10/20 flow measurements were recorded as 0 where spots before and after displaying high velocities; this suggests an inadequate flow spot was chosen, little to no flow, or an instrument/user error.

Hydrology Event	Site ID	Date (dd/mm/yy)	Discharge (m^3/s)	SG Reading (m)	Comments
Fourth Event	C1	25/08/2022	*(0.78 to 1.1)	0.450	Flow is erroneous. Total of 6/20 readings between two traverses with no distances recorded.
	N1	25/08/2022	*(0.49 to 2.63)	0.284	Flow is erroneous. No distances recorded.
	N2	25/08/2022	*(0.53 to 0.91)	0.306	Flow is erroneous. No distances recorded.
	W1	25/08/2022	*(0.77 to 1.87)	0.112	Flow is erroneous. No distances recorded.
	W2	25/08/2022	*(0.37 to 1.01)	0.401	Flow is erroneous. No distances recorded.
	W3	25/08/2022	*(0.19 to 1.18)	0.544	Flow is erroneous. No distances recorded.
	W4	25/08/2022	n/a	0.495	No flow conducted.
Fifth Event	C1	08/09/2022	n/a	0.448	No flow conducted.
	N1	08/09/2022	0.5075	0.306	
	N2	08/09/2022	1.2687	0.352	
	W1	08/09/2022	n/a	0.128	No flow conducted. SG not legible from photo and is erroneous on field sheet. Approximate reading is from photo.
	W2	08/09/2022	n/a	0.448	No flow conducted.
	W3	08/09/2022	0.1580	0.612	13/21 flow measurements were recorded as 0; this suggests an inadequate flow spot was chosen, little to no flow, or an instrument/user error.
	W4	08/09/2022	n/a	n/a	SG not legible from photo. No flow conducted.

***Note:** Data was corrupted by human error and missing observation. Therefore, a range of possible flows is estimated with significant uncertainty.

4.2.1 Quality Assurance/Quality Control

The ALS laboratory QA/QC measures were reviewed in detail. Per **Appendix E** this included analytical data for two field duplicates. Due to logistical challenges a trip blank and field blank were not collected as per standard practice. As discussed below, there were only minor relative percent difference (RPD) exceedances during the July 2022 program. The sample blank and spike analyses were within the acceptable limits.

Sample hold times (three days) were exceeded for nitrate (as N), nitrate + nitrite (as N), and pH due to logistical challenges with conveyance of the samples to the analytical laboratory given the Site location. The field measurements of pH and laboratory measurements were generally comparable (**Appendix G**), suggesting that the laboratory pH results were not unduly influenced by exceeding the prescribed holding time. However, field measurements of pH are considered more accurate measurements of in-situ conditions as they are collected concurrently with the grab sample.

Samples and duplicates were generally comparable, sample integrity has been maintained, and the data are considered reliable. Full analytical laboratory reports are provided in **Appendix E**.

4.3 Discussion and Recommendations

There were four minor exceedances found within the surface water grab samples (**Table 4-5**). All exceedances are minor and are likely due to naturally occurring metals/metalloids within the area.

The hydrology data displays a general trend of declining flow throughout the open-water season. This seasonal variation of flow is expected; spring thaw and melt results in a temporary greater amount of regional water. As the summer continues, water is expected to exfiltrate into ground aquifers or move down gradient into connecting waterbodies. As winter freezing occurs, water levels and water movement are expected to decrease.

During the fourth hydrology field program (August 25, 2022), distances were not recorded. Distances are needed to determine flow accurately and to understand stream structure. Ausenco hydrologists have used the given discharge measurements along with the known stream width to determine a range of possible flows. However, the extrapolated data collected from the fourth event holds a degree of uncertainty.

Upon Ausenco's departure ValOre staff conducted hydrology flow measurements. It is recommended that future environmental monitoring and data collection programs follow similar structure to that of the July 2022 program. A training manual and training program once per-year will assist in keeping methods consistent between events.

Given the irregular and rocky nature of tundra waterways, some waterways may not be ideal for velocity by area discharge measurements. The irregular, boulder cross sections of smaller waterways can impede metered flow thus skewing results. It is recommended that smaller streams with boulder cross section be surveyed using salt dilution gauging potential. Dilution gauging methods use the addition of a tracer to the stream and discharge is measured by determining the dilution of the tracer. Dilution methods require complete mixing of the tracer and are best suited to steep streams where turbulence aids lateral and vertical mixing. There are several variations on dilution gauging methods (e.g., slug injection or constant rate injection, Rhodamine WT or salt tracers).

A salt slug of known mass is input at the injection location and the electrical conductivity (temperature compensated), ECT, response is measured at a downstream measurement site. A fundamental assumption of the method is that the tracer is fully mixed with the streamflow at the ECT measurement site. Consequently, determining an appropriate mixing reach is key to accurate measurements. A good mixing reach has minimal pools or backwater areas; no braiding; little to no in-stream vegetation and no significant losses or gains of water such as tributaries or groundwater fluxes. A constriction (e.g., boulder cascade, culvert) can aid mixing and provide a suitable mixing reach. Moore (2005) suggests that as a rough guide, the mixing length should be at least 25 stream widths. However, this is highly dependent on the stream characteristics. Validation of mixing should be undertaken by measuring ECT at a minimum of two locations, ideally on opposite sides of the stream. A specific conductivity meter (YSI ProPlus multi-meter) is used to measure ECT at 0.1 µs/cm resolution and a site-specific calibration is conducted before each measurement to determine the calibration factor, CFT. Background ECT is logged for several minutes before the salt is injected to measure the variability of the background conditions and a salt-slug is added to achieve a peak concentration of approximately 25 to 40 µs/cm above background. Experience is required to determine the amount of salt required to achieve the target response, but no more than 1 g of salt per L/s of streamflow should be used.

The salt (dry table salt only) is measured accurately with a scale and dissolved into a graduated bucket of stream water at the injection site. Once fully dissolved, the salt solution is injected at the upstream site and the ECT response is measured at the downstream location at two second intervals. A minimum of two trials, moving the location of the conductivity meter between trials, are conducted at each station.

The formula used to calculate discharge for the salt slug injections is:

$$Q = M / (CFT \times ABC)$$

Where Q is discharge (m^3/s), M is the mass of salt slug injection and ABC is the area under the ECT curve above background.

Ausenco recommends that each waterway should be further assessed throughout the project operating season to determine the flow method that would produce the highest accuracy. A tracer method such as salt dilution gauging can be used in response to seasonal water fluctuations (low water late in season). Each hydrology station can be assessed prior to conducting a flow measurement; should water levels not allow for an accurate velocity by area measurement, a salt flow may be feasible.

5.0 Wildlife and Wildlife Habitat

Wildlife incidental observations were collected through submission of wildlife sightings provided by onsite staff. These observations were compiled to produce a species list for the study area. The following information was logged with each observation:

- Species
- Age/sex
- Number
- Location
- Human activity at time of observation
- Wildlife behaviour at time of observation
- Changes in wildlife behaviour associated with human activities
- Weather
- Comments.

Between March 24, 2022 and September 13, 2022, ValOre staff and contractors made 170 incidental wildlife sightings of 20 different species on and around site, as summarized in **Table 5-1**.

Table 5-1 Incidental Wildlife Sightings from 2022

Species	Number of Reported Sightings (March 24, 2022 to September 13, 2022)
Arctic Hare (*Lepus arcticus*)	18
Ptarmigan (*Lagopu spp.*)	9
Arctic Fox (*Vulpes lagopus*)	22
Muskox (*Ovibos moschatus*)	8
Wolf (*Canis lupis*)	2
Sandhill Crane (*Grus canadensis*)	2
Red Fox (*Vulpes vulpes*)	2
Snowy Owl (*Nyctea scandiaca*)	3
Falcon (*Falco spp.*)	2
Snow Goose (*Anser caerulescens*)	3
Canadian Goose (*Branta canadensis*)	10
Loon (*Mergus spp.*)	1
Swan (*Cygnus*)	2
Wolverine (*Gulo gulo*)	3
Hawk (*Accipiter spp.*)	1
Moose (*Alces alces*)	3
Caribou (*Rangifer tarandus*)	64
Grizzly Bear (*Ursus arctos horribilis*)	7
Bald Eagle (*Haliaeetun leucocephalus*)	5
Golden Eagle (*Aquila chrysaetos*)	3

In addition to wildlife observation recording, Ausenco has developed a caribou monitoring plan (CMP) **(Appendix H**). A CMP was initially developed for the project in 2012 by Ausenco, however, an updated monitoring plan was needed to meet current permit requirements and expand the monitoring area to account for new drilling locations. The purpose of the CMP remains the same as it previously was; to capture data in a standardized manner relevant to potential future environmental baseline study requirements while remaining within a scale and scope consistent with ValOre's proposed exploration program. The CMP can be found in **Appendix H**.

6.0 Closure

During the 2022 Northern Canada field season, ValOre commissioned Ausenco to restart baseline monitoring and assessment, to provide data to support future permitting, assessment, and design for proposed uranium mining at the Angilak site in Nunavut.

This work consisted of a climate station evaluation, surface water flow and quality assessment, and dustfall measurement and assessment. This work was completed while training ValOre and local Indigenous staff, and detailed analysis and future recommendations are included within this report. Ausenco anticipates this information will form the basis of the comprehensive baseline and assessment program required to support the permitting and approval of larger exploration and mining programs in Nunavut and is proud to be able to assist ValOre with this effort.

We sincerely appreciate the opportunity to have assisted you with this project and if there are any questions, please do not hesitate to contact the undersigned by phone at 250.949.0678

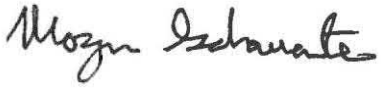
Report prepared by:
Ausenco Sustainability Inc.

Alex Therriault, B.Sc., BIT
Environmental Scientist

Report reviewed by:
Ausenco Sustainability Inc.

Laura Pacholski, M.Sc., P.Chem.
Mining Permitting Lead

Report reviewed by:
Ausenco Sustainability Inc.



Morgan Schauerte, B.Sc.
National Director Mining Sector Lead

Appendix A

Photo Log

Photo 1 Nutaaq Camp overview.

Photo 2 Nutaaq Camp overview.

Photo 3 Rain gauge (left) alongside the climate station (right).

Photo 4 Rain gauge close up.

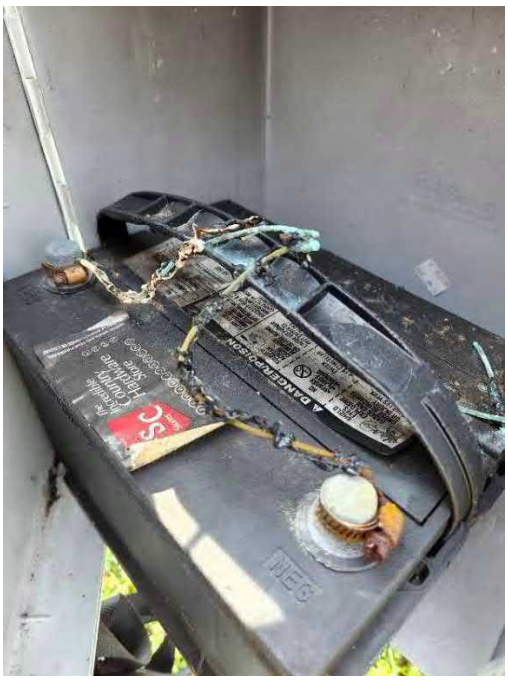


Photo 5 Climate station battery.

Photo 6 Climate station solar panel – wiring has been severed from station. Upon inspection the panel was not cracked but has been weathered and exposed to harsh climate for a prolonged period of time.

Photo 7 Inside logger box. HOBO ONSET logger (black) shows significant corrosion damage as does the satellite communication chip (green).

Photo 8 HOBO logger corrosion from being exposed to elements over prolonged period of time.

Photo 9 All logger sensor cables have been severed and destroyed over time.

Photo 10 Dustfall installation process. Dug down to permafrost and laid a rock foundation. Station was then erected and as dirt / rock mound was laid for support.

Photo 11 Erected dustfall station. Should the monitoring program continue, it is recommended that the stations be cemented in a 5-gallon pail and the pail be buried to permafrost.

Photo 12 Dustfall station 4.

Photo 13 Dustfall station 3.

Photo 14 Dustfall station 2.

Photo 15 Dustfall station 1.

Photo 16 Established hydrology station N1.

Photo 17 Established hydrology station S1.

Photo 18 Established hydrology station W1.

Photo 19 Established hydrology station N2.

Photo 20 Established hydrology station W2.

Photo 21 Established hydrology station W3.

Photo 22 Established hydrology station W4.

Photo 23 No flow collected at proposed hydrology station S1 due to wide waterway and deep water. This station will not be re-visited unless water levels drop significantly.

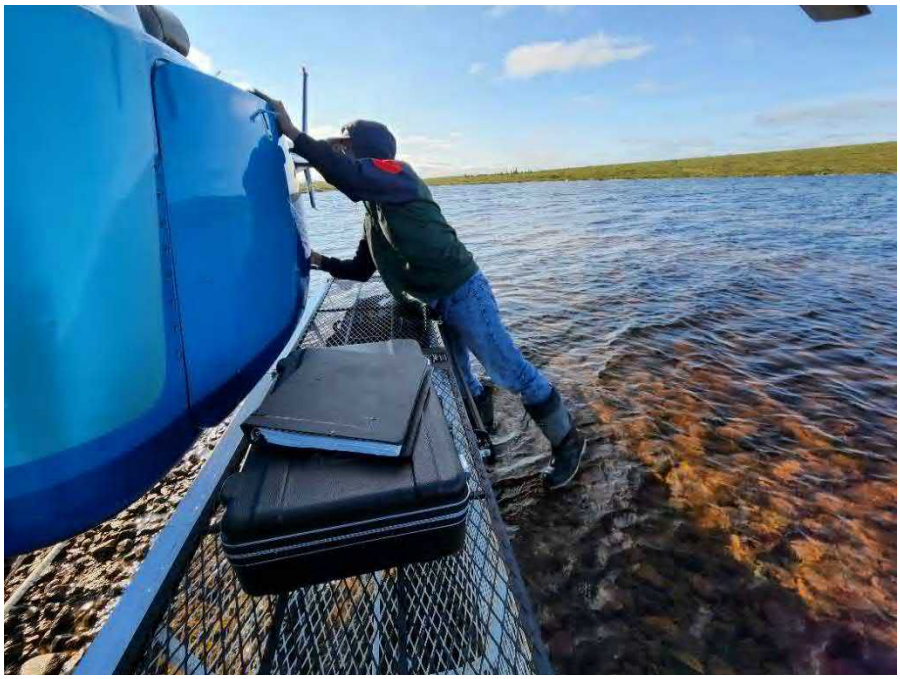


Photo 24 Water sampling training.

Photo 25 Angilak camp drone photo.

Photo 26 Angilak camp drone photo.

Photo 27 Angilak camp drone photo.

Appendix B

Climate Station Quote

HOSKIN SCIENTIFIC LIMITED

ENVIRONMENTAL Monitoring

SYSTEMS Integration

TELEMETRY Solutions

Quote : 261881

Contact : Alex Therriault

Date : 4/6/2022

Bill to : Hemmera Envirochem Inc.
Gahcho Kué Project
2237 2nd Ave
Ste 230
Gahcho Kué Project
Whitehorse, YT Y1A 0K7
Attn: Alex Therriault

Ship to : Hemmera Envirochem Inc.
Gahcho Kué Project
2237 2nd Ave
Ste 230
Gahcho Kué Project
Whitehorse, YT Y1A 0K7
Attn: Alex Therriault

Here is the quote you requested.

#	Item	Description	Qty	Unit Price	Extended
		Iridium Satellite Weather Station			
	SP10088 EE99-SS-IRD	SolarStream Iridium Telemetry Kit	1	$1,795.00	$1,795.00
	SP10018 EE99-H22-E14	Hoffman NEMA 4 enclosure 1 >High Arctic Solar Regulator >Wedimuller Terminals for Power and I/O >Cable glands for Sensors >High Capacity Desiccant Pack and Corrosion Inhibitors	1	$1,395.00	$1,395.00
	SP10137 EE99-EF-MM	Fiberglass Enclosure Mast Mounting Kit	1	$89.00	$89.00
	100353 E348-H22-001	HOBO Energy Logger Pro Data Logger. Indoor logger rated from -20° to 50°C with alkaline batteries & -40° to 70°C with lithium batteries.512Kb memory. 1 second to 18hr logging interval, user-specified. Logger comes with with 6 smart sensor inputs and up to 6 analogue inputs (analogue inputs require Analogue Input Modules). Can record 15 channels. Uses 8 AA batteries. (8 AA alkaline batteries included) Requires case for outdoor applications	1	$519.00	$519.00
	100316 E348-A-H22-MOUNT-1	H22 Mounting Feet Kit	1	$21.00	$21.00
	100359 E348-HWSB-LI	AA Lithium Battery 4 Pack	2	$37.00	$74.00
	SP10115 EE99-Solar-30	SOLAR PANEL KIT 30 WATT	1	$350.00	$350.00

continued on next page ...

Unless otherwise stated :

1. All items quoted in Canadian dollars.
2. Quote valid for 30 days.
3. Taxes extra if applicable.
4. F.O.B. Burnaby, British Columbia.
5. Terms net 30 days O.A.C.

www.hoskin.ca | Unit #100 18138-105 Ave. | Edmonton, AB | T5S 2T4 | t. 800.663.3023 f. 604.872.0281

#	Item	Description	Qty	Unit Price	Extended
	SP10037 EE99-EP-12V-63	Battery Enclosure System for 63 Ahr battery including battery · 12VDC 63 Ahr. AGM Solar Battery · Hoffman Nema 4 Enclosure 14"x12"x8" · Mounting Kit for Up to 2" Diameter Mast · Gortex Enclosure Vent · 3 Meter 14 Gauge Wiring Harness (battery to RTU Enclosure) · 3/8" Liquid Tight Conduit 3 Meters with Liquid Light Conduit Connector	1	$775.00	$775.00
	100373 E348-M-TPA-KIT	Complete 3m Tripod kit (includes 3m tripod, grounding kit, guy wire kit, 1/2" stake kit & mast level)	1	$491.00	$491.00
	100364 E348-M-GWA	Guy Wire Kit (recommended for windy locations or when mounting rain gauge on tripod; requires 1/2" stake kit for use with the 2m tripod or 3m mast)	1	$100.00	$100.00
	100314 E348-ADAPT-SER-USB	CABLE-USB232 with CABLE-PC-3.5	1	$91.00	$91.00
		SubTotal			**$5,700.00**
		Weather Station Sensors			
	108380 E444-200-05103	Wind Monitor	1	$1,784.00	$1,784.00
	SP10045 EE99-RMY-MAST-2"	Young wind monitor 05103 mast mounting kit for 1.5"-2" masts	1	$140.00	$140.00
	100451 E348-S-WCE-M003	Adapter for interfacing RM Young 05103 Wind Monitor (up to 100m/s) & 05103-45 Alpine Wind Monitor (for extreme cold environments up to 100m/s) with H21, H22, and U30 products	1	$229.00	$229.00
	SP10109 EE99-LTC-3M	3M Liquid tight Conduit Sensor Cable Protection	1	$108.00	$108.00
		SubTotal			**$2,261.00**
	100441 E348-S-THB-M002	Temp/RH Sensor (12-bit) w/ 2m Cable	1	$262.00	$262.00
	101675 ED62-RAD 06	6 Plate Solar Radiation Shield - Double Louvre	1	$265.00	$265.00
	SP10207 EE99-LTC-2M	2M Liquid tight Conduit Sensor Cable Protection	1	$89.00	$89.00
		SubTotal			**$616.00**
	100412 E348-S-BPA-CM10	Barometric Pressure Sensor, rate for -40 C to +70 C, must be used inside logger case, w/10cm Cable	1	$222.00	$222.00
		SubTotal			**$222.00**
	101218 E653-7004000090	Pluvio² L without heating device Collection area 200 cm²/1500 mm	1	$7,524.00	$7,524.00
	SP10005 EE99-PLU-MOUNT	10 m liquid tight conduit kit for Pluvio without heater Protects cable between datalogger enclosure and Pluvio	1	$200.00	$200.00
		SubTotal			**$7,724.00**

continued on next page ...

Unless otherwise stated :

1. All items quoted in Canadian dollars.
2. Quote valid for 30 days.
3. Taxes extra if applicable.
4. F.O.B. Burnaby, British Columbia.
5. Terms net 30 days O.A.C.

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#	Item	Description	Qty	Unit Price	Extended
		System Integration			
	INTEGRATION INTEGRATION	System Integration Charge >System Design >Datalogger and Iridium Telemetry and Programming >Documentation Package >Field Assembly and Commissioning Guide >Packing and Handlling Fee	1	$995.00	$995.00
	FREIGHT FREIGHT	FREIGHT FOB Edmonton PrePaid and Charge	1	$0.00	$0.00
		SubTotal			**$995.00**
		Running SubTotal			**$17,518.00**

Please contact me if I can be of further assistance.

Douglas Calvert, Systems Integration Manager
dcalvert@hoskin.ca

Unless otherwise stated :

1. All items quoted in Canadian dollars.
2. Quote valid for 30 days.
3. Taxes extra if applicable.
4. F.O.B. Burnaby, British Columbia.
5. Terms net 30 days O.A.C.

www.hoskin.ca | Unit #100 18138-105 Ave. | Edmonton, AB | T5S 2T4 | t. 800.663.3023 | f. 604.872.0281

STANDARD TERMS AND CONDITIONS OF SALE

1. By issuing a purchase order based on an Hoskin quote, the buyer agrees to the terms and conditions herein. Prices provided by Hoskin for a quote are applicable for 30 days from the date of the quote. Hoskin may modify the price of any quote if actual or expected delivery of an order is more than 6 months from the date of the quote.

2. Shipment terms are FOB Hoskin unless otherwise specified in the quote.

3. Order acceptance is subject to credit status.

4. Payment terms are Net 30 days from the date of invoicing. A monthly service charge of one and a half percent (1.5%) will be applied against any unpaid balance after the applicable 30 days.

5. Changes to an order already accepted by Hoskin may result in additional fees. In the event of a request for change to a pending order, sufficient details will have to be provided in a timely fashion. Hoskin will then advise the client of the costs arising of such changes as soon as possible. The client will then have 30 days to accept such additional costs failing which the request for change will be non-applicable.

6. Cancellation of an order will be subject to charges by Hoskin and/or its suppliers.

7. All goods received from Hoskin must be examined immediately upon arrival and any claims arising from damage in transport or to the non-conformity of the goods delivered in relation to the order must be communicated to Hoskin within 5 days of the date of delivery.

8. Warranties and Returns

   a. Warranties vary with each manufacturer represented by Hoskin. Standard manufacturers' warranties apply unless otherwise specified in the quote provided by Hoskin.

   b. Hoskin will be responsible for returning defective goods to the manufacturer or having such goods repaired within the warranty period. If there is a claim for defective goods within 30 days of delivery, all transportation cost will be incurred by Hoskin. In the event that a claim for defective goods is made more than 30 days after delivery, Hoskin shall incur only the transportation cost for the return to the client of the repaired or replaced good.

   c. A Return Authorization issued by Hoskin's customer service must accompany all goods returned, including those returned under warranty. Hoskin is under no obligations to accept goods returned without prior return authorization.

   d. Return/restocking approval will only be considered for current standard products and within 30 days of delivery.

   e. Returns will be subject to a minimum 20% restocking fee on the sale price of the returned goods. All transportation costs incurred by Hoskin and associated with a return will be charged to the buyer.

   f. The buyer is responsible to ensure that the returned goods are adequately packaged and insured against damage and loss arising from transportation.

   g. Hoskin is under no obligation to honor the warranty on an item that has been damaged, altered, or tampered without the permission of Hoskin. Hoskin is under no obligation to replace or restock an item that has been damaged, altered, or tampered with.

   h. Hoskin accepts no liability for consequential or indirect loss or damage arising from the use of the goods sold.

9. Conditions set forth in a Purchaser's order are binding only insofar as they do not conflict with the above Hoskin' conditions of sales. In the event of a conflict, the Hoskin' conditions of sale shall prevail.

10. Estimated delivery dates are on a best effort basis only on the part of Hoskin.

MODALITÉS ET CONDITIONS DE VENTE

1. Par la production d'un bon de commande selon un devis soumis par Hoskin, l'acheteur accepte les présentes modalités et conditions. Les prix établis par Hoskin dans un devis sont valides pendant les trente (30) jours suivant la date du devis. Hoskin se réserve le droit de modifier les prix indiqués au devis si la date du devis est à plus de six (6) mois de la date réelle ou prévue de livraison.

2. Hoskin assure la livraison franco bord sauf indication contraire dans le devis.

3. L'acceptation des commandes est conditionnelle à l'approbation du crédit.

4. Les modalités de paiement sont de trente (30) jours nets à partir de la date de facturation. Des frais administratifs équivalant à un et demi pour cent (1,5 %) du solde en souffrance seront ajoutés après cette période.

5. Des frais additionnels peuvent s'appliquer en cas de modification d'une commande déjà acceptée par Hoskin. En cas de modification d'une commande en attente, les informations requises doivent être fournies dans les plus brefs délais, après quoi Hoskin informera rapidement l'acheteur des nouveaux coûts. Celui-ci dispose ensuite de trente (30) jours pour accepter ces coûts, faute de quoi la modification sera annulée.

6. Des frais peuvent être facturés par Hoskin ou par ses fournisseurs en cas d'annulation d'une commande.

7. Les biens envoyés par Hoskin doivent être inspectés dès la réception, et toute réclamation liée aux dommages subis pendant le transport ou à la non-conformité des biens par rapport à la commande doit être soumise à Hoskin dans les cinq (5) jours suivant la livraison.

8. Garanties et retours

   a. Les garanties varient selon chaque fabricant représenté par Hoskin. Les garanties standards s'appliquent, sauf indication contraire dans le devis soumis par Hoskin.

   b. Hoskin s'occupe du retour des biens défectueux au fabricant ou de la réparation de ces biens pour la durée de la garantie. Hoskin couvre également les frais de transport pour toute réclamation liée à des biens défectueux soumise dans les trente (30) jours suivant la livraison. Si une telle réclamation est soumise au-delà de cette période, Hoskin couvre seulement la partie des frais de transport qui sont liés au retour à l'acheteur des biens réparés ou de remplacement.

   c. Tous les biens retournés, qu'ils soient couverts par une garantie ou non, doivent être accompagnés de l'autorisation de retour délivrée par le service à la clientèle de Hoskin, sans quoi Hoskin peut refuser les biens retournés.

   d. Hoskin peut accepter de reprendre ou de restocker des biens seulement si ceux-ci sont des produits standards actuels et s'ils sont retournés dans les trente (30) jours suivant la livraison.

   e. Les retours font l'objet de frais de restockage équivalant à au moins 20 % du prix de vente des biens retournés. Les frais de transport engagés par Hoskin pour un retour sont facturés à l'acheteur.

   f. L'acheteur doit veiller à ce que les biens retournés soient emballés adéquatement et couverts par une assurance contre les dommages ou la perte liés au transport.

   g. Si un article a subi des dommages, a été modifié ou a été altéré sans la permission d'Hoskin, Hoskin n'est aucunement tenu d'en honorer la garantie ni de remplacer ou restocker l'article en question.

   h. Hoskin refuse toute responsabilité concernant les pertes directes ou indirectes ou les dommages résultant de l'utilisation des biens vendus.

9. Les conditions énoncées par l'acheteur dans sa commande n'ont force exécutoire que si elles ne sont pas en conflit avec les présentes modalités et conditions de vente de Hoskin. En cas de conflit, ces dernières ont préséance.

10. Les dates de livraison estimées sont fondées seulement sur le meilleur effort possible de la part de Hoskin.

Appendix C

Field Forms

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ4	Project Number	106892-01
Date	July 15/22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates	—		
Weather	15°, light Rain		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.6
Temperature (°C)	18.9
DO (mg/L)	8.84
Conductivity (µs/cm)	41.4
pH	6.87
Redox (mV)	151.7
Turbidity (NTU)	1.38
Appearance / Odour	Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1332	(Yes) No	Yes Name: —	See COC

General Notes:

Site Name	WQ 15	Project Number	106892-01
Date	July 15/22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates	—		
Weather	15°, light Rain		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5
Temperature (°C)	20.4
DO (mg/L)	9.02
Conductivity (µs/cm)	35.7
pH	7.58
Redox (mV)	144.7
Turbidity (NTU)	1.21
Appearance / Odour	Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
13:45	(Yes) No	Yes Name: —	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 10	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	19.4
DO (mg/L)	9.01
Conductivity (µs/cm)	45.0
pH	7.72
Redox (mV)	142.5
Turbidity (NTU)	-0.20
Appearance / Odour	0.055

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1415	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

Site Name	WQ 9	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	14.8
DO (mg/L)	8.77
Conductivity (µs/cm)	52.0
pH	7.69
Redox (mV)	135.7
Turbidity (NTU)	0.17
Appearance / Odour	0.000

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1428	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 6	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° Windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	20.0
DO (mg/L)	9.62
Conductivity (µs/cm)	70.0
pH	8.25
Redox (mV)	125.4
Turbidity (NTU)	-0.03
Appearance / Odour	0.001)

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1450	Yes No	Yes Name:	

General Notes:

Site Name	WQ 7	Project Number	106892-01
Date	July 15, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	15° Windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	17.0
DO (mg/L)	9.56
Conductivity (µs/cm)	63.1
pH	7.80
Redox (mV)	129.9
Turbidity (NTU)	-0.09
Appearance / Odour	0.136

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1510	Yes No	Yes Name:	

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 17	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1m
Temperature (°C)	15.3
DO (mg/L)	9.61
Conductivity (µs/cm)	260.0
pH	7.56
Redox (mV)	95.5
Turbidity (NTU)	~0.06
Appearance / Odour	~~0.627~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
12:37	(Yes) No	(Yes) Name: DUP1	See COC

General Notes:

Site Name	WQ 20	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	17.3
DO (mg/L)	9.95
Conductivity (µs/cm)	32.3
pH	7.41
Redox (mV)	60.0
Turbidity (NTU)	0
Appearance / Odour	~~0.000~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1300	(Yes) No	Yes Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 16	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1 m
Temperature (°C)	15.6
DO (mg/L)	9.72
Conductivity (µs/cm)	26.1
pH	7.70
Redox (mV)	49.2
Turbidity (NTU)	0.07
Appearance / Odour	0.426

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1315	Yes No	Yes Name: DUP B	See COC

General Notes:

Site Name		Project Number	106892-01
Date		Client	ValOre
Sampler		Project Name	Angilak
Geographic Coordinates			
Weather			

Field Parameters (note units if different than those stated)	
Water Depth (m)	
Temperature (°C)	
DO (mg/L)	
Conductivity (µs/cm)	
pH	
Redox (mV)	
Turbidity (NTU)	
Appearance / Odour	

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
	Yes No	Yes Name:	

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 14	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	13.9
DO (mg/L)	9.88
Conductivity (µs/cm)	38.9
pH	7.25
Redox (mV)	59.2
Turbidity (NTU)	-0.01
Appearance / Odour	~~0.01~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0745	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 24	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool windy		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	12.1
DO (mg/L)	10.14
Conductivity (µs/cm)	79.8
pH	7.63
Redox (mV)	77.4
Turbidity (NTU)	1.32
Appearance / Odour	~~0.00~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0900	(Yes) No	~~Yes~~ Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 23	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	12.3
DO (mg/L)	9.79
Conductivity (µs/cm)	69.0
pH	7.73
Redox (mV)	77.3
Turbidity (NTU)	1.00
Appearance / Odour	~~Clear~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0820	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 19	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	~~16.3~~ 16.3
DO (mg/L)	9.46
Conductivity (µs/cm)	42.2
pH	7.70
Redox (mV)	72.0
Turbidity (NTU)	0.04
Appearance / Odour	~~Clear~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0840	(Yes) No	Yes Name:	0840

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 03	Project Number	106892-01
Date	July 16, 22.	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	16.8
DO (mg/L)	9.26
Conductivity (µs/cm)	44.0
pH	7.72
Redox (mV)	174.7
Turbidity (NTU)	0.51
Appearance / Odour	~~0.415~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0955	(Yes) No	Yes Name: ~~—~~	See coc

General Notes:

Site Name	WQ 02	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	15.5
DO (mg/L)	9.75
Conductivity (µs/cm)	54.4
pH	7.84
Redox (mV)	177.3
Turbidity (NTU)	0.37
Appearance / Odour	Clear ~~0.170~~

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0915	(Yes) No	Yes Name: ~~—~~	See coc

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ1	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	14.7
DO (mg/L)	9.86
Conductivity (µs/cm)	50.0
pH	7.97
Redox (mV)	77.7
Turbidity (NTU)	0.76
Appearance / Odour	~~0.000~~ clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
0940	(Yes) No	Yes ~~Name:~~	See COC

General Notes:

Site Name	WQ-6	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	90 cool wind		

Field Parameters (note units if different than those stated)		
Water Depth (m)	~~15.8~~	0.5m
Temperature (°C)	~~9.46~~	15.5
DO (mg/L)	~~4.17~~	9.46
Conductivity (µs/cm)	~~7.49~~	48.4
pH	~~79.17~~	7.87
Redox (mV)		80.1
Turbidity (NTU)		-0.05
Appearance / Odour	clear	~~0.084~~

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
10:00	(Yes) No	Yes ~~Name:~~	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ #5	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	1m
Temperature (°C)	16.0
DO (mg/L)	9.44
Conductivity (µs/cm)	65.9
pH	7.92
Redox (mV)	82.3
Turbidity (NTU)	-0.13
Appearance / Odour	~~0.533~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1010	(Yes) No	Yes Name:	See COC

General Notes:

Site Name	WQ 11	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK/AT	Project Name	Angilak
Geographic Coordinates			
Weather	9° cool wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5 m
Temperature (°C)	16.0
DO (mg/L)	9.44
Conductivity (µs/cm)	48.1
pH	6.03
Redox (mV)	79.0
Turbidity (NTU)	1.31
Appearance / Odour	~~0.268~~ Clear

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
1025	(Yes) No	Yes Name:	See COC

General Notes:

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SURFACE WATER SAMPLE COLLECTION SHEET

Site Name	WQ 21	Project Number	106892-01
Date	July 16, 22	Client	ValOre
Sampler	AK / AT	Project Name	Angilak
Geographic Coordinates			
Weather	4° cool, wind		

Field Parameters (note units if different than those stated)	
Water Depth (m)	0.5m
Temperature (°C)	14.3
DO (mg/L)	9.93
Conductivity (µs/cm)	57.0
pH	7.83
Redox (mV)	79.1
Turbidity (NTU)	2.87
Appearance / Odour	0.199

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
10:48	(Yes) No	Yes Name:	Clear

General Notes:

Site Name		Project Number	106892-01
Date		Client	ValOre
Sampler		Project Name	Angilak
Geographic Coordinates			
Weather			

Field Parameters (note units if different than those stated)	
Water Depth (m)	
Temperature (°C)	
DO (mg/L)	
Conductivity (µs/cm)	
pH	
Redox (mV)	
Turbidity (NTU)	
Appearance / Odour	

Sample Time (24 hr)	Field Preserved & Filtered if Required	QAQC Sample Collected	Analysis
	Yes No	Yes Name:	

General Notes:

Appendix D

Raw and Refined Flow Data

	Mean Q:	0.7012		Stage (m):			RPD (%):	136.7			Time:	#NUM!	
Station ID:	W3	Traverse:	1	Date	25/08/2022		Station ID:	W3	Traverse:	2	Date	25/08/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):			Time:			Staff Gauge @ Start	Height (m):			Time:		
Staff Gauge @ End	Height (m):			Time:			Staff Gauge @ End	Height (m):			Time:	0:00	
Right Bank: (m)		Left Bank: (m)		Total Width: (m)			Right Bank: (m)		Left Bank: (m)		Total Width: (m)		
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
	Right Bank							Right Bank					
	1.00	0.150	0.098	0.01				1.00	0.350	0.549	0.19		
	1.00	0.150	0.090	0.01				1.00	0.250	0.005	0.00		
	1.00	0.100	0.026	0.00				1.00	0.250	2.452	0.61		
	1.00	0.150	0.183	0.03				1.00	0.100	1.389	0.14		
	1.00	0.150	0.213	0.03				1.00	0.150	0.669	0.10		
	1.00	0.150	0.007	0.00				1.00	0.100	0.217	0.02		
	1.00	0.550	0.184	0.10				1.00	0.100	0.184	0.02		
	1.00	0.150	0.011	0.00				1.00	0.100	0.496	0.05		
	1.00	0.270	0.009	0.00				1.00	0.150	0.263	0.04		
	1.00	0.200	0.127	0.03				1.00	0.100	0.056	0.01		
			ΣQ (m^3/s)	0.2219	RPD (%)	see trav #2				ΣQ (m^3/s)	1.1804	RPD (%)	136.70

	Mean Q:	0.6583		Stage (m):		RPD (%):	87.3			Time:	#NUM!
Station ID:	W2	Traverse:	1	Date	25/08/2022	Station ID:	W2	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	3.14	0.350	0.206	0.227			3.143	0.700	0.019	0.042	
	3.14	0.200	0.087	0.055			3.143	0.210	0.044	0.029	
	3.14	0.400	0.014	0.018			3.143	0.300	0.096	0.091	
	3.14	0.300	0.002	0.002			3.143	0.300	0.010	0.009	
	3.14	0.200	0.057	0.036			3.143	0.300	0.042	0.040	
	3.14	0.200	0.022	0.014			3.143	0.200	0.324	0.204	
	3.14	0.500	0.013	0.020			3.143	0.450	0.376	0.532	
			ΣQ (m^3/s)	0.3709	RPD (%) see trav #2				ΣQ (m^3/s)	0.9458	RPD (%) 87.33

	Mean Q:	1.4501		Stage (m):			RPD (%):	57.9		Time:	#NUM!		
Station ID:	W1	Traverse:	1	Date	25/08/2022		Station ID:	W1	Traverse:	2	Date	25/08/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):			Time:			Staff Gauge @ Start	Height (m):			Time:		
Staff Gauge @ End	Height (m):			Time:			Staff Gauge @ End	Height (m):			Time:	0:00	
Right Bank: (m)		Left Bank: (m)		Total Width: (m)			Right Bank: (m)		Left Bank: (m)		Total Width: (m)		
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
	Right Bank							Right Bank					
	1.00	0.100	0.566	0.057				1.000	0.160	1.655	0.265		
	1.00	0.120	0.700	0.084				1.000	0.600	0.878	0.527		
	1.00	0.150	0.392	0.059				1.000	0.130	1.288	0.167		
	1.00	0.100	0.696	0.070				1.000	0.500	0.674	0.337		
	1.00	0.100	0.028	0.003				1.000	0.150	0.004	0.001		
	1.00	0.000	0.000	0.000				1.000	0.000	0.000	0.000		
	1.00	0.000	0.000	0.000				1.000	0.000	0.000	0.000		
	1.00	0.500	0.936	0.468				1.000	0.100	0.926	0.093		
	1.00	0.150	0.697	0.105				1.000	0.150	0.222	0.033		
	1.00	0.100	0.959	0.096				1.000	0.150	0.716	0.107		
	1.00	0.300	0.300	0.090				1.000	0.500	0.680	0.340		
			ΣQ (m^3/s)	1.0303	RPD (%)	see trav #2				ΣQ (m^3/s)	1.8699	RPD (%)	57.91

	Mean Q:	0.6754		Stage (m):		RPD (%):	41.4			Time:	#NUM!
Station ID:	N2	Traverse:	1	Date	25/08/2022	Station ID:	N2	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Let Bank						Right Bank				
	1.083	0.300	0.275	0.089			1.083	0.150	1.860	0.302	
	1.083	0.260	0.612	0.172			1.083	0.150	0.431	0.070	
	1.083	0.250	0.489	0.132			1.083	0.250	0.230	0.062	
	1.083	0.200	0.366	0.079			1.083	0.260	0.379	0.107	
	1.083	0.100	0.248	0.027			1.083	0.200	0.398	0.086	
	1.083	0.500	0.065	0.035			1.083	0.240	0.722	0.188	
			ΣQ (m^3/s)	0.5356	RPD (%) see trav #2				ΣQ (m^3/s)	0.8153	RPD (%) 41.41

	Mean Q:	1.1663		Stage (m):		RPD (%):	117.3			Time:	#NUM!
Station ID:	N1	Traverse:	1	Date	25/08/2022	Station ID:	N1	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	1.440	0.150	0.111	0.024			1.440	0.250	0.159	0.057	
	1.440	0.150	0.692	0.149			1.440	0.200	0.429	0.124	
	1.440	0.250	0.288	0.104			1.440	0.255	0.005	0.002	
	1.440	0.900	0.092	0.119			1.440	0.200	0.244	0.070	
	1.440	0.200	2.093	0.603			1.440	0.250	0.093	0.033	
	1.440	0.150	0.515	0.111			1.440	0.150	0.240	0.052	
	1.440	0.200	1.962	0.565			1.440	0.150	0.207	0.045	
	1.440	0.250	0.379	0.136			1.440	0.150	0.155	0.033	
	1.440	0.350	0.059	0.030			1.440	0.200	0.191	0.055	
	1.440	0.350	0.017	0.009			1.440	0.100	0.077	0.011	
			ΣQ (m^3/s)	1.8502	RPD (%) see trav #2				ΣQ (m^3/s)	0.4825	RPD (%) 117.26

	Mean Q:	0.9510		Stage (m):		RPD (%):	34.8			Time:	#NUM!
Station ID:	C1	Traverse:	1	Date	25/08/2022	Station ID:	C1	Traverse:	2	Date	25/08/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):			Time:		Staff Gauge @ Start	Height (m):			Time:	
Staff Gauge @ End	Height (m):			Time:		Staff Gauge @ End	Height (m):			Time:	0:00
Right Bank: (m)		Left Bank: (m)		Total Width: (m)		Right Bank: (m)		Left Bank: (m)		Total Width: (m)	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
	Right Bank						Right Bank				
	1.1667	0.3500	0.0310	0.0127			1.1667	0.5000	1.0200	0.5950	
	1.1667	0.5500	1.0030	0.6436			1.1667	0.1700	0.6500	0.1289	
	1.1667	0.1000	1.1090	0.1294			1.1667	0.3000	1.1210	0.3924	
			ΣQ (m^3/s)	0.7856	RPD (%) see trav #2				ΣQ (m^3/s)	1.1163	RPD (%) 34.77

	Mean Q:	0.0884		Stage (m):	0.631		RPD (%):	83.7		Time:	17:21		
Station ID:	C1	Traverse:	1	Date	14/07/2022		Station ID:	C1	Traverse:	2	Date	14/07/2022	
Sampler:	AT/AK	Recorder:	AT/AK	Meter Type & No.	Swoffer 3000		Sampler:	AT/AK	Recorder:	AT/AK	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.631		Time:	17:30		Staff Gauge @ Start	Height (m):	0.631		Time:	17:30	
Staff Gauge @ End	Height (m):	0.631		Time:	17:12		Staff Gauge @ End	Height (m):	0.631		Time:	17:12	
Right Bank: (m)	0.6	Left Bank: (m)	7.4	Total Width: (m)	6.8		Right Bank: (m)	0.6	Left Bank: (m)	7.4	Total Width: (m)	6.8	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.60	Right Bank						0.60	Right Bank					
1.00	0.4	0.59	0.00	8.26E-04			1.10	0.4	0.60	0.00	4.80E-04		
1.30	0.3	0.60	0.00	7.20E-04			1.40	0.3	0.60	0.01	1.08E-03		
1.60	0.3	0.60	0.00	3.60E-04			1.70	0.5	0.54	0.01	1.94E-03		
1.90	0.3	0.60	0.00	3.60E-04			2.30	0.6	0.55	0.01	1.98E-03		
2.20	0.3	0.20	0.004	2.40E-04			2.90	0.5	0.55	0.007	1.73E-03		
2.50	0.3	0.55	0.007	1.16E-03			3.20	0.3	0.45	0.008	1.08E-03		
2.80	0.3	0.48	0.020	2.88E-03			3.50	0.3	0.45	0.010	1.35E-03		
3.10	0.3	0.43	0.004	5.16E-04			3.80	0.3	0.40	0.008	9.60E-04		
3.40	0.3	0.45	0.002	2.70E-04			4.10	0.3	0.35	0.018	1.89E-03		
3.70	0.3	0.40	0.028	3.36E-03			4.40	0.3	0.30	0.015	1.35E-03		
4.00	0.3	0.25	0.014	1.05E-03			4.70	0.3	0.30	0.036	3.24E-03		
4.30	0.3	0.30	0.031	2.79E-03			5.00	0.3	0.25	0.160	1.20E-02		
4.60	0.3	0.30	0.006	5.40E-04			5.30	0.3	0.34	0.087	8.87E-03		
4.90	0.3	0.32	0.012	1.15E-03			5.60	0.3	0.30	0.178	1.60E-02		
5.20	0.3	0.37	0.070	6.48E-03			5.90	0.4	0.30	0.176	1.85E-02		
5.40	0.2	0.37	0.01	7.40E-04			6.30	0.4	0.30	0.14	1.67E-02		
5.60	0.3	0.38	0.06	5.51E-03			6.70	0.6	0.30	0.22	3.63E-02		
5.90	0.3	0.32	0.07	6.91E-03			7.40	3.4			0.00E+00		
6.20	0.8	0.25	0.08	1.56E-02				3.7			0.00E+00		
7.40	3.1			0.00E+00				0.0			0.00E+00		
	3.7			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	0.0514	RPD (%)	see trav #2				ΣQ (m^3/s)	0.1254	RPD (%)	83.71

	Mean Q:	4.8175		Stage (m):	0.550		RPD (%):	7.2			Time:	12:07	
Station ID:	N1	Traverse:	1	Date	14/07/2022		Station ID:	N1	Traverse:	2	Date	14/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.55		Time:	11:30		Staff Gauge @ Start	Height (m):	0.55		Time:	11:30	
Staff Gauge @ End	Height (m):	0.55		Time:	12:45		Staff Gauge @ End	Height (m):	0.55		Time:	12:45	
Right Bank: (m)	0.5	Left Bank: (m)	15	Total Width: (m)	14.5		Right Bank: (m)	0.5	Left Bank: (m)	15	Total Width: (m)	14.5	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.50	Right Bank						0.50	Right Bank					
1.10	0.7	0.52	0.46	1.54E-01			1.70	1.0	0.25	0.66	1.56E-01		
1.80	0.7	0.35	0.29	7.13E-02			2.40	0.8	0.40	0.14	4.23E-02		
2.50	0.7	0.36	0.08	1.94E-02			3.20	0.8	0.45	0.09	2.90E-02		
3.20	0.7	0.45	0.22	6.35E-02			3.90	0.7	0.50	0.16	5.71E-02		
3.80	0.7	0.36	0.265	6.20E-02			4.60	0.7	0.50	0.389	1.26E-01		
4.50	0.7	0.47	0.190	6.25E-02			5.20	0.7	0.55	0.307	1.10E-01		
5.20	0.7	0.70	0.354	1.73E-01			5.90	0.7	0.40	0.672	1.88E-01		
5.90	0.7	0.70	0.354	1.73E-01			6.60	0.7	0.50	0.668	2.34E-01		
6.60	0.7	0.60	0.713	2.99E-01			7.30	0.7	0.70	0.790	3.59E-01		
7.30	0.7	0.70	0.701	3.43E-01			7.90	0.7	0.75	0.698	3.40E-01		
8.00	0.8	0.75	0.682	3.84E-01			8.60	0.7	0.55	0.444	1.71E-01		
8.80	0.8	0.75	0.302	1.70E-01			9.30	0.7	0.25	0.135	2.36E-02		
9.50	0.7	0.75	0.072	3.78E-02			10.00	0.7	0.50	0.456	1.60E-01		
10.20	0.7	0.35	0.152	3.72E-02			10.70	0.8	0.36	0.129	3.48E-02		
10.90	0.7	0.60	0.326	1.37E-01			11.50	0.8	0.65	0.337	1.64E-01		
11.60	0.7	0.70	0.35	1.69E-01			12.20	0.7	0.60	0.87	3.67E-01		
12.30	0.7	0.60	0.91	3.83E-01			12.90	0.7	0.70	0.98	4.81E-01		
13.00	0.7	0.80	0.99	5.55E-01			13.60	1.1	0.85	1.79	1.60E+00		
13.70	0.8	0.95	1.48	1.05E+00			15.00	6.8			0.00E+00		
14.50	0.7	0.90	1.10	6.44E-01				7.5			0.00E+00		
15.00	7.3			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	4.9914	RPD (%)	see trav #2				ΣQ (m^3/s)	4.6437	RPD (%)	7.22

	Mean Q:	2.8686		Stage (m):	0.250		RPD (%):	12.2			Time:	16:15	
Station ID:	W1	Traverse:	1	Date	14/07/2022		Station ID:	W1	Traverse:	2	Date	14/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.25		Time:	16:00		Staff Gauge @ Start	Height (m):	0.25		Time:	16:00	
Staff Gauge @ End	Height (m):	0.25		Time:	16:30		Staff Gauge @ End	Height (m):	0.25		Time:	16:30	
Right Bank: (m)	0.4	Left Bank: (m)	9.1	Total Width: (m)	8.7		Right Bank: (m)	0.4	Left Bank: (m)	9.1	Total Width: (m)	8.7	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
0.40	Right Bank						0.40	Right Bank					
1.20	0.6	0.25	1.50	2.25E-01			0.60	0.3	0.20	1.34	8.01E-02		
1.60	0.4	0.18	2.50	1.80E-01			1.00	0.4	0.25	1.75	1.75E-01		
2.00	0.4	0.35	1.95	2.73E-01			1.40	0.4	0.15	1.39	8.32E-02		
2.40	0.4	0.35	0.91	1.27E-01			1.80	0.4	0.30	1.11	1.33E-01		
2.80	0.4	0.25	0.986	9.86E-02			2.20	0.4	0.35	0.700	9.80E-02		
3.20	0.4	0.25	1.518	1.52E-01			2.60	0.4	0.30	1.607	1.93E-01		
3.60	0.4	0.20	0.619	4.95E-02			3.00	0.4	0.35	1.662	2.33E-01		
4.00	0.4	0.15	0.711	4.27E-02			3.40	0.4	0.25	1.025	1.03E-01		
4.40	0.4	0.30	1.170	1.40E-01			3.80	0.4	0.25	0.770	7.70E-02		
4.80	0.4	0.25	0.397	3.97E-02			4.20	0.4	0.25	1.542	1.54E-01		
5.20	0.4	0.20	2.012	1.61E-01			4.60	0.4	0.30	0.612	7.34E-02		
5.60	0.4	0.20	1.186	9.49E-02			5.00	0.4	0.30	0.586	7.03E-02		
6.00	0.4	0.25	1.965	1.97E-01			5.40	0.4	0.25	2.344	2.34E-01		
6.40	0.4	0.25	2.059	2.06E-01			5.80	0.4	0.25	0.694	6.94E-02		
6.80	0.4	0.30	2.411	2.89E-01			6.20	0.4	0.30	0.416	4.99E-02		
7.20	0.4	0.35	2.50	3.50E-01			6.60	0.4	0.35	1.30	1.82E-01		
7.60	0.4	0.20	0.99	7.89E-02			7.00	0.4	0.30	2.74	3.28E-01		
8.00	0.4	0.30	1.91	2.30E-01			7.40	0.4	0.30	1.62	1.94E-01		
8.40	0.4	0.30	0.83	9.97E-02			7.80	0.4	0.25	1.05	1.05E-01		
8.80	0.4	0.28	0.10	9.80E-03			8.20	0.7	0.30	0.30	5.85E-02		
9.10	4.4			0.00E+00			9.10	4.1			0.00E+00		
			ΣQ (m^3/s)	3.0432	RPD (%)	see trav #2				ΣQ (m^3/s)	2.6940	RPD (%)	12.17

	Mean Q:	0.7518		Stage (m):	0.682		RPD (%):	25.6		Time:	11:29	
Station ID:	W3	Traverse:	1	Date	15/07/2022		Station ID:	W3	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.682		Time:	11:10		Staff Gauge @ Start	Height (m):	0.682		Time:	11:10
Staff Gauge @ End	Height (m):	0.682		Time:	11:48		Staff Gauge @ End	Height (m):	0.682		Time:	11:48
Right Bank: (m)	0.8	Left Bank: (m)	8	Total Width: (m)	7.2		Right Bank: (m)	0.8	Left Bank: (m)	8	Total Width: (m)	7.2
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.80	Right Bank						0.80	Right Bank				
1.70	0.6	0.16	0.23	2.24E-02			1.80	0.7	0.20	0.12	1.59E-02	
2.00	0.3	0.16	0.22	1.04E-02			2.10	0.3	0.15	0.49	2.21E-02	
2.30	0.3	0.24	0.77	5.52E-02			2.40	0.3	0.22	0.70	4.63E-02	
2.60	0.3	0.32	0.78	7.48E-02			2.70	0.3	0.30	1.03	9.26E-02	
2.90	0.3	0.15	1.618	7.28E-02			3.00	0.3	0.15	0.400	1.80E-02	
3.20	0.3	0.25	0.319	2.39E-02			3.30	0.3	0.50	1.887	2.83E-01	
3.50	0.3	0.20	1.743	1.05E-01			3.60	0.3	0.25	1.163	8.72E-02	
3.80	0.3	0.25	1.266	9.50E-02			3.90	0.3	0.22	0.640	4.22E-02	
4.10	0.3	0.20	0.624	3.74E-02			4.20	0.3	0.22	0.443	2.92E-02	
4.40	0.3	0.25	0.223	1.67E-02			4.50	0.3	0.15	0.289	1.30E-02	
4.70	0.3	0.13	0.068	2.65E-03			4.80	0.3	0.10	0.634	1.90E-02	
5.00	0.3	0.10	0.574	1.72E-02			5.10	0.3	0.12	0.034	1.22E-03	
5.30	0.4	0.13	0.008	4.16E-04			5.40	0.3	0.08	0.267	5.34E-03	
5.80	0.4	0.13	0.549	2.50E-02			5.60	0.3	0.10	0.697	1.74E-02	
6.00	0.3	0.15	0.222	8.33E-03			5.90	0.3	0.10	0.665	2.00E-02	
6.30	0.3	0.15	0.01	2.25E-04			6.20	0.6	0.10	0.17	9.35E-03	
6.60	0.3	0.10	0.11	3.21E-03			7.00	0.6	0.10	1.19	6.55E-02	
6.90	0.3	0.15	0.15	6.71E-03			7.30	0.3	0.12	0.20	7.02E-03	
7.20	0.4	0.15	0.46	2.42E-02			7.60	0.3	0.10	1.13	3.40E-02	
7.60	0.4	0.15	0.91	5.45E-02			7.90	0.2	0.10	0.98	1.95E-02	
8.00	3.8			0.00E+00			8.00	4.0			0.00E+00	
			ΣQ (m^3/s)	0.6556	RPD (%)	see trav #2				ΣQ (m^3/s)	0.8479	RPD (%) 25.57

	Mean Q:	0.2014		Stage (m):	0.660	RPD (%):	11.1			Time:	10:25
Station ID:	W4	Traverse:	1	Date	15/07/2022	Station ID:	W4	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.66		Time:	10:05	Staff Gauge @ Start	Height (m):	0.66		Time:	10:05
Staff Gauge @ End	Height (m):	0.66		Time:	10:45	Staff Gauge @ End	Height (m):	0.66		Time:	10:45
Right Bank: (m)	0.9	Left Bank: (m)	7.3	Total Width: (m)	6.4	Right Bank: (m)	0.9	Left Bank: (m)	7.3	Total Width: (m)	6.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	$Velocity_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank					0.90	Right Bank				
1.60	0.5	0.17	0.24	2.07E-02		1.00	0.2	0.15	0.18	5.28E-03	
1.90	0.3	0.37	0.15	1.67E-02		1.30	0.3	0.10	0.42	1.26E-02	
2.20	0.3	0.33	0.15	1.47E-02		1.60	0.3	0.10	0.22	6.66E-03	
2.50	0.3	0.28	0.18	1.53E-02		1.90	0.3	0.15	0.24	1.09E-02	
2.80	0.3	0.25	0.013	9.75E-04		2.20	0.3	0.32	0.032	3.07E-03	
3.10	0.3	0.17	0.096	4.90E-03		2.50	0.3	0.10	0.185	5.55E-03	
3.40	0.3	0.28	0.038	3.19E-03		2.80	0.3	0.15	0.180	8.10E-03	
3.70	0.3	0.20	0.107	6.42E-03		3.10	0.3	0.10	0.127	3.81E-03	
4.00	0.3	0.10	0.066	1.98E-03		3.40	0.3	0.13	0.078	3.04E-03	
4.30	0.3	0.30	0.002	1.80E-04		3.70	0.3	0.10	0.134	4.02E-03	
4.60	0.3	0.22	0.348	2.30E-02		4.00	0.3	0.10	0.098	2.94E-03	
4.90	0.3	0.10	0.174	5.22E-03		4.30	0.3	0.30	0.610	5.49E-02	
5.20	0.6	0.18	0.206	2.04E-02		4.60	0.3	0.22	0.304	2.01E-02	
6.00	0.6	0.26	0.114	1.63E-02		4.90	0.3	0.15	0.183	8.24E-03	
6.30	0.3	0.16	0.468	2.25E-02		5.20	0.7	0.45	0.021	6.14E-03	
6.60	0.5	0.33	0.11	1.80E-02		6.20	1.1	0.25	0.22	5.72E-02	
7.30	3.3			0.00E+00		7.30	3.1			0.00E+00	
	3.7			0.00E+00			3.7			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
			ΣQ (m^3/s)	0.1902	RPD (%) see trav #2				ΣQ (m^3/s)	0.2125	RPD (%) 11.08

	Mean Q:	2.5525		Stage (m):	0.600		RPD (%):	11.7			Time:	12:45	
Station ID:	W2	Traverse:	1	Date	15/07/2022		Station ID:	W2	Traverse:	2	Date	15/07/2022	
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000		Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	
Staff Gauge @ Start	Height (m):	0.6		Time:	12:30		Staff Gauge @ Start	Height (m):	0.6		Time:	12:30	
Staff Gauge @ End	Height (m):	0.6		Time:	13:00		Staff Gauge @ End	Height (m):	0.6		Time:	13:00	
Right Bank: (m)	3.3	Left Bank: (m)	12.9	Total Width: (m)	9.6		Right Bank: (m)	3.3	Left Bank: (m)	12.9	Total Width: (m)	9.6	
Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments		Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	
3.30	Right Bank						3.30	Right Bank					
3.70	0.5	0.15	0.20	1.36E-02			3.50	0.4	0.15	0.21	1.11E-02		
4.20	0.5	0.15	0.42	3.12E-02			4.00	0.5	0.15	0.36	2.73E-02		
4.70	0.5	0.25	0.92	1.15E-01			4.50	0.5	0.20	0.46	4.63E-02		
5.20	0.5	0.25	0.47	5.86E-02			5.00	0.5	0.20	0.75	7.48E-02		
5.70	0.5	0.35	1.214	2.12E-01			5.50	0.5	0.35	1.019	1.78E-01		
6.20	0.5	0.40	1.093	2.19E-01			6.00	0.5	0.35	1.029	1.80E-01		
6.70	0.5	0.40	1.529	3.06E-01			6.50	0.5	0.35	1.069	1.87E-01		
7.20	0.5	0.45	1.195	2.69E-01			7.00	0.5	0.40	1.013	2.03E-01		
7.70	0.5	0.45	1.001	2.25E-01			7.50	0.5	0.46	1.313	3.02E-01		
8.20	0.5	0.50	1.347	3.37E-01			8.00	0.5	0.47	1.035	2.43E-01		
8.70	0.5	0.50	0.784	1.96E-01			8.50	0.5	0.45	1.171	2.63E-01		
9.20	0.5	0.40	1.132	2.26E-01			9.00	0.5	0.50	0.764	1.91E-01		
9.70	0.5	0.45	0.844	1.90E-01			9.50	0.5	0.40	1.096	2.19E-01		
10.20	0.5	0.40	0.580	1.16E-01			10.00	0.5	0.32	0.811	1.30E-01		
10.70	0.5	0.34	0.650	1.11E-01			10.50	0.5	0.30	0.169	2.54E-02		
11.20	0.5	0.30	0.46	6.96E-02			11.00	1.2	0.30	0.34	1.21E-01		
11.70	0.9	0.30	0.03	7.40E-03			12.90	5.5			0.00E+00		
12.90	5.9			0.00E+00				6.5			0.00E+00		
	6.5			0.00E+00				0.0			0.00E+00		
	0.0			0.00E+00				0.0			0.00E+00		
	0.0			0.00E+00				0.0			0.00E+00		
			ΣQ (m^3/s)	2.7021	RPD (%)	see trav #2				ΣQ (m^3/s)	2.4029	RPD (%)	11.72

	Mean Q:	2.2061		Stage (m):	0.472	RPD (%):	5.0		Time:	16:21
Station ID:	N2	Traverse:	1	Date	15/07/2022	Station ID:	N2	Traverse:	2	Date	15/07/2022
Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000	Sampler:	AK/AT	Recorder:	AK/AT	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.472		Time:	16:07	Staff Gauge @ Start	Height (m):	0.472		Time:	16:07
Staff Gauge @ End	Height (m):	0.472		Time:	16:35	Staff Gauge @ End	Height (m):	0.472		Time:	16:35
Right Bank: (m)	0	Left Bank: (m)	9	Total Width: (m)	9	Right Bank: (m)	0	Left Bank: (m)	9	Total Width: (m)	9

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments	Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.00	Right Bank					0.00	Right Bank				
0.80	0.7	0.30	0.37	7.23E-02		1.00	0.8	0.20	1.53	2.30E-01	
1.30	0.5	0.20	1.18	1.18E-01		1.50	0.5	0.15	2.82	2.12E-01	
1.80	0.5	0.20	2.26	2.26E-01		2.00	0.5	0.15	2.05	1.54E-01	
2.30	0.5	0.25	0.79	9.81E-02		2.50	0.5	0.30	1.10	1.66E-01	
2.80	0.5	0.20	1.998	2.00E-01		3.00	0.5	0.27	0.456	6.16E-02	
3.30	0.5	0.28	1.203	1.68E-01		3.50	0.5	0.25	0.236	2.95E-02	
3.80	0.5	0.25	0.427	5.34E-02		4.00	0.5	0.30	0.204	3.06E-02	
4.30	0.5	0.25	0.801	1.00E-01		4.50	0.5	0.20	1.091	1.09E-01	
4.80	0.5	0.20	0.958	9.58E-02		5.00	0.5	0.20	0.639	6.39E-02	
5.30	0.5	0.16	0.799	6.39E-02		5.50	0.5	0.25	0.604	7.55E-02	
5.80	0.5	0.15	1.003	7.52E-02		6.00	0.5	0.28	1.599	2.24E-01	
6.30	0.5	0.26	0.632	8.22E-02		6.50	0.5	0.15	0.890	6.68E-02	
6.80	0.5	0.26	0.946	1.23E-01		7.00	0.5	0.27	0.994	1.34E-01	
7.30	0.5	0.25	1.282	1.60E-01		7.50	0.5	0.26	0.908	1.18E-01	
7.80	0.5	0.10	2.178	1.09E-01		8.00	0.5	0.25	0.785	9.81E-02	
8.30	0.5	0.37	2.40	4.45E-01		8.50	0.5	0.36	2.11	3.79E-01	
8.80	0.4	0.37	0.55	7.17E-02		9.00	4.3			0.00E+00	
9.00	4.4			0.00E+00			4.5			0.00E+00	
	4.5			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
	0.0			0.00E+00			0.0			0.00E+00	
			ΣQ (m^3/s)	2.2611	RPD (%) see trav #2				ΣQ (m^3/s)	2.1510	RPD (%) 4.99

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.472		Time:	9:30
Staff Gauge @ End	Height (m):	0.472		Time:	10:25
Right Bank: (m)	0.4	Left Bank: (m)	15.8	Total Width: (m)	15.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.40	Right Bank				
0.77	0.7	0.36	0.754	2.00E-01	
1.87	0.8	0.37	0.541	1.52E-01	
2.29	0.8	0.29	0.589	1.28E-01	
3.37	1.0	0.22	0.565	1.23E-01	
4.27	0.9	0.25	0.357	7.59E-02	
5.07	0.8	0.27	0.673	1.45E-01	
5.87	0.8	0.27	0.137	2.96E-02	
6.67	0.8	0.31	0.540	1.34E-01	
7.47	0.8	0.34	0.721	1.96E-01	
8.27	0.8	0.31	0.836	2.07E-01	
9.07	0.8	0.34	0.560	1.52E-01	
9.87	0.8	0.39	0.608	1.90E-01	
10.67	0.8	0.37	0.861	2.55E-01	
11.47	0.8	0.04	0.623	1.99E-02	
12.27	0.8	0.37	0.568	1.68E-01	
13.07	0.8	0.41	0.398	1.31E-01	
13.87	1.4	0.37	0.157	7.93E-02	
15.80	6.9			0.00E+00	
	7.9			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	2.3858	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.4		Time:	18:54
Staff Gauge @ End	Height (m):	0.4		Time:	19:24
Right Bank: (m)	0.6	Left Bank: (m)	10.4	Total Width: (m)	9.8

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.10	0.5	0.21	0.57	6.03E-02	
1.60	0.5	0.45	0.50	1.13E-01	
2.10	0.5	0.44	0.77	1.69E-01	
2.60	0.5	0.36	0.00	0.00E+00	
3.10	0.5	0.36	0.000	0.00E+00	
3.60	0.5	0.31	0.583	9.04E-02	
4.10	0.5	0.31	0.762	1.18E-01	
4.60	0.5	0.20	0.187	1.87E-02	
5.10	0.5	0.22	0.417	4.59E-02	
5.60	0.5	0.24	0.615	7.38E-02	
6.10	0.5	0.27	0.198	2.67E-02	
6.60	0.5	0.24	0.439	5.27E-02	
7.10	0.5	0.30	0.817	1.23E-01	
7.60	0.5	0.35	0.032	5.60E-03	
8.10	0.5	0.37	0.025	4.63E-03	
8.60	0.5	0.30	0.389	5.84E-02	
9.10	0.5	0.31	0.554	8.59E-02	
9.60	0.5	0.29	0.767	1.11E-01	
10.10	0.4	0.33	0.250	3.30E-02	
10.40	5.1			0.00E+00	
	5.2			0.00E+00	
			ΣQ (m^3/s)	1.1901	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W1	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.178		Time:	11:35
Staff Gauge @ End	Height (m):	0.178		Time:	12:27
Right Bank: (m)	0.3	Left Bank: (m)	16.6	Total Width: (m)	16.3

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.30	Right Bank				
1.10	0.8	0.13	0.44	4.53E-02	
1.90	0.8	0.30	0.68	1.62E-01	
2.70	0.8	0.28	0.29	6.47E-02	
3.50	0.8	0.19	0.51	7.72E-02	
4.30	0.8	0.15	0.746	8.95E-02	
5.10	0.8	0.15	0.333	4.00E-02	
5.90	0.8	0.02	0.686	1.10E-02	
6.70	0.8	0.25	0.590	1.18E-01	
7.50	1.2	0.15	0.237	4.27E-02	
9.10	1.2	0.11	0.679	8.96E-02	
9.90	0.8	0.10	0.457	3.66E-02	
10.70	0.8	0.15	0.243	2.92E-02	
11.50	0.8	0.15	0.938	1.13E-01	
12.30	0.8	0.02	0.171	2.74E-03	
13.10	0.8	0.25	0.623	1.25E-01	
13.90	0.8	0.31	0.617	1.53E-01	
14.70	0.8	0.25	0.641	1.28E-01	
15.50	0.8	0.22	0.215	3.78E-02	
16.30	0.6	0.80	0.382	1.68E-01	
16.60	8.2			0.00E+00	
	8.3			0.00E+00	
			ΣQ (m^3/s)	1.5333	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W2	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	~.480		Time:	14:01
Staff Gauge @ End	Height (m):	~.480		Time:	14:50
Right Bank: (m)	0.2	Left Bank: (m)	15	Total Width: (m)	14.8

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.20	Right Bank				
0.95	0.8	0.15	0.063	7.09E-03	
1.70	0.8	0.23	0.267	4.61E-02	
2.45	0.8	0.20	0.088	1.32E-02	
3.20	0.8	0.22	0.190	3.14E-02	
3.95	0.8	0.32	0.180	4.32E-02	
4.70	0.8	0.20	0.181	2.72E-02	
5.45	0.8	0.22	0.103	1.70E-02	
6.20	0.8	0.20	0.306	4.59E-02	
6.95	0.8	0.28	0.173	3.63E-02	
7.70	0.8	0.26	0.319	6.22E-02	
8.45	0.8	0.33	0.254	6.29E-02	
9.20	0.8	0.35	0.284	7.46E-02	
9.95	0.8	0.25	0.149	2.79E-02	
10.70	0.8	0.31	0.082	1.91E-02	
11.45	0.8	0.34	0.121	3.09E-02	
12.20	0.8	0.35	0.009	2.36E-03	
12.95	0.8	0.28	0.019	3.99E-03	
13.70	0.8	0.12	0.061	5.49E-03	
14.45	0.7	0.40	0.012	3.12E-03	
15.00	7.2			0.00E+00	
	7.5			0.00E+00	
			ΣQ (m^3/s)	0.5597	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.622		Time:	15:19
Staff Gauge @ End	Height (m):	0.622		Time:	
Right Bank: (m)	1.1	Left Bank: (m)	12.8	Total Width: (m)	11.7

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.10	Right Bank				
1.07	0.6	0.20	0.063	7.56E-03	
2.30	0.9	0.16	0.267	3.91E-02	
2.90	0.6	0.18	0.088	9.50E-03	
3.50	0.6	0.17	0.190	1.94E-02	
4.10	0.6	0.17	0.180	1.84E-02	
4.70	0.6	0.19	0.181	2.06E-02	
5.30	0.6	0.18	0.103	1.11E-02	
5.90	0.6	0.15	0.306	2.75E-02	
6.50	0.6	0.20	0.173	2.08E-02	
7.10	0.6	0.18	0.319	3.45E-02	
7.70	0.6	0.21	0.254	3.20E-02	
8.30	0.6	0.20	0.284	3.41E-02	
8.90	0.6	0.19	0.149	1.70E-02	
9.50	0.6	0.31	0.082	1.53E-02	
10.10	0.6	0.25	0.121	1.82E-02	
10.70	0.6	0.36	0.009	1.94E-03	
11.30	0.6	0.31	0.019	3.53E-03	
11.90	0.8	0.30	0.061	1.37E-02	
12.80	6.0		0.012	0.00E+00	
	6.4			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	0.3441	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W4	Traverse:	1	Date	28/07/2022
Sampler:	DH, CN	Recorder:	DH, CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.602		Time:	17:15
Staff Gauge @ End	Height (m):	0.602		Time:	17:50
Right Bank: (m)	0.6	Left Bank: (m)	8.3	Total Width: (m)	7.7

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.00	0.4	1.50	0.000	0.00E+00	
1.40	0.4	0.36	0.000	0.00E+00	
1.80	0.4	0.66	0.004	1.06E-03	
2.20	0.4	0.19	0.238	1.81E-02	
2.60	0.4	0.45	0.006	1.08E-03	
3.00	0.4	0.46	0.000	0.00E+00	
3.40	0.4	0.40	0.000	0.00E+00	
3.80	0.4	0.36	0.000	0.00E+00	
4.20	0.4	0.32	0.151	1.93E-02	
4.60	0.4	0.20	0.237	1.90E-02	
5.00	0.4	0.18	0.035	2.52E-03	
5.40	0.4	0.24	0.000	0.00E+00	
5.80	0.4	0.25	0.000	0.00E+00	
6.20	0.4	0.28	0.000	0.00E+00	
6.60	0.4	0.26	0.000	0.00E+00	
7.00	0.4	0.31	0.000	0.00E+00	
7.40	0.4	0.46	0.000	0.00E+00	
7.80	0.4	0.33	0.000	0.00E+00	
8.20	0.3	0.50	0.000	0.00E+00	
8.30	4.1			0.00E+00	
	4.2			0.00E+00	
			ΣQ (m^3/s)	0.0610	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	C1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.481		Time:	10:42
Staff Gauge @ End	Height (m):	0.481		Time:	11:09
Right Bank: (m)	0.7	Left Bank: (m)	4.85	Total Width: (m)	4.15

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.70	Right Bank				
1.05	0.4	0.10	0.115	4.03E-03	
1.40	0.4	0.15	0.103	5.41E-03	
1.75	0.4	0.20	0.138	9.66E-03	
2.10	0.4	0.15	0.212	1.11E-02	
2.45	0.4	0.30	0.100	1.05E-02	
2.80	0.4	0.25	0.155	1.36E-02	
3.15	0.4	0.25	0.140	1.23E-02	
3.50	0.4	0.30	0.091	9.56E-03	
3.85	0.4	0.35	0.000	0.00E+00	
4.20	0.4	0.15	0.076	3.99E-03	
4.55	0.3	0.40	0.000	0.00E+00	
4.85	2.3			0.00E+00	
	2.4			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	0.0801	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.374		Time:	16:01
Staff Gauge @ End	Height (m):	0.374		Time:	16:35
Right Bank: (m)	0.9	Left Bank: (m)	9.2	Total Width: (m)	8.3

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank				
1.35	0.5	0.25	1.638	1.84E-01	
1.80	0.5	0.25	2.443	2.75E-01	
2.25	0.5	0.25	1.319	1.48E-01	
2.70	0.5	0.25	2.168	2.44E-01	
3.15	0.5	0.45	0.467	9.46E-02	
3.60	0.5	0.40	0.151	2.72E-02	
4.05	0.5	0.25	0.150	1.69E-02	
4.50	0.5	0.20	2.605	2.61E-01	
5.05	0.5	0.35	1.138	1.99E-01	
5.50	0.5	0.30	1.407	1.90E-01	
5.95	0.5	0.10	1.165	5.24E-02	
6.40	0.5	0.15	1.211	8.17E-02	
6.85	0.5	0.20	2.042	1.84E-01	
7.30	0.5	0.25	2.442	2.81E-01	
7.77	0.5	0.30	1.094	1.48E-01	
8.20	0.5	0.30	0.842	1.24E-01	
8.75	0.5	0.20	0.111	1.11E-02	
9.20	4.4			0.00E+00	
	4.6			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
			ΣQ (m^3/s)	2.5210	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.358		Time:	16:01
Staff Gauge @ End	Height (m):	0.358		Time:	16:35
Right Bank: (m)	0.2	Left Bank: (m)	9.05	Total Width: (m)	8.85

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.20	Right Bank				
0.55	0.3	0.25	1.767	1.44E-01	
0.85	0.3	0.25	0.926	7.52E-02	
1.20	0.4	0.25	0.424	3.71E-02	
1.55	0.4	0.20	0.350	2.45E-02	
1.90	0.4	0.15	1.007	5.29E-02	
2.25	0.4	0.15	0.824	4.33E-02	
2.60	0.3	0.15	0.124	5.58E-03	
2.85	0.4	0.30	0.002	2.10E-04	
3.30	0.4	0.15	0.565	3.18E-02	
3.60	0.4	0.15	0.213	1.12E-02	
4.00	0.4	0.10	0.373	1.40E-02	
4.35	0.4	0.10	0.073	2.66E-03	
4.73	0.4	0.10	0.360	1.26E-02	
5.05	0.3	0.20	0.470	3.15E-02	
5.40	0.4	0.20	0.642	4.49E-02	
5.75	0.4	0.20	0.730	5.11E-02	
6.10	0.4	0.20	1.537	1.08E-01	
6.45	0.4	0.15	0.68	3.56E-02	
6.80	0.4	0.20	0.67	4.66E-02	
7.15	0.4	0.20	0.74	5.20E-02	
7.50	0.4	0.15	0.05	2.73E-03	
7.85	0.8	0.20	0.22	3.33E-02	
9.05	3.9				
			ΣQ (m^3/s)	0.8599	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W1	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.144		Time:	8:56
Staff Gauge @ End	Height (m):	0.144		Time:	10:10
Right Bank: (m)	0.9	Left Bank: (m)	10.5	Total Width: (m)	9.6

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.90	Right Bank				
1.35	0.5	0.20	0.042	3.78E-03	
1.80	0.5	0.15	0.381	2.57E-02	
2.25	0.5	0.10	0.703	3.16E-02	
2.70	0.5	0.15	0.108	7.29E-03	
3.15	0.5	0.50	0.968	2.18E-01	
3.60	0.4	0.10	1.462	6.21E-02	
4.00	0.4	0.15	1.153	7.35E-02	
4.45	0.4	0.15	0.338	2.15E-02	
4.85	0.4	0.15	0.308	1.96E-02	
5.30	0.5	0.20	0.211	2.00E-02	
5.80	0.5	0.20	0.552	5.24E-02	
6.25	0.5	0.40	0.707	1.27E-01	
6.70	0.5	0.20	0.835	7.52E-02	
7.15	0.5	0.10	0.408	1.84E-02	
7.60	0.5	0.10	0.254	1.14E-02	
8.05	0.5	0.25	0.456	5.13E-02	
8.50	0.4	0.25	0.051	5.74E-03	
8.95	0.4	0.25	0.30	3.15E-02	
9.35	0.4	0.10	0.76	3.23E-02	
9.80	0.6	0.10	1.09	6.26E-02	
10.50	4.9			0.00E+00	
	5.3			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.9511	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W2	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.464		Time:	11:30
Staff Gauge @ End	Height (m):	0.464		Time:	12:13
Right Bank: (m)	0.6	Left Bank: (m)	10	Total Width: (m)	9.4

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.60	Right Bank				
1.05	0.5	0.50	0.042	9.45E-03	
1.50	0.5	0.10	0.020	9.00E-04	
1.95	0.5	0.15	0.074	5.00E-03	
2.40	0.5	0.15	0.145	9.79E-03	
2.85	0.5	0.25	0.132	1.49E-02	
3.30	0.5	0.25	0.255	2.87E-02	
3.75	0.5	0.30	0.205	2.77E-02	
4.20	0.5	0.30	0.288	3.89E-02	
4.65	0.5	0.35	0.496	7.81E-02	
5.10	0.5	0.30	0.312	4.21E-02	
5.55	0.5	0.30	0.400	5.40E-02	
6.00	0.5	0.30	0.108	1.46E-02	
6.45	0.5	0.35	0.222	3.50E-02	
6.90	0.5	0.30	0.201	2.71E-02	
7.35	0.5	0.25	0.005	5.63E-04	
7.80	0.5	0.25	0.007	7.88E-04	
8.25	0.5	0.25	0.000	0.00E+00	
8.70	0.5	0.20	0.00	0.00E+00	
9.15	0.5	0.10	0.00	0.00E+00	
9.60	0.4	0.10	0.00	0.00E+00	
10.00	4.8			0.00E+00	
	5.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.3875	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.595		Time:	12:52
Staff Gauge @ End	Height (m):	0.595		Time:	14:00
Right Bank: (m)	0.7	Left Bank: (m)	12.6	Total Width: (m)	11.9

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.70	Right Bank				
1.05	0.4	0.20	0.000	0.00E+00	
1.40	0.4	0.30	0.000	0.00E+00	
1.75	0.4	0.35	0.000	0.00E+00	
2.10	0.4	0.20	0.133	9.31E-03	
2.45	0.4	0.20	0.019	1.33E-03	
2.80	0.4	0.15	0.000	0.00E+00	
3.15	0.4	0.20	0.000	0.00E+00	
3.50	0.4	0.20	0.046	3.22E-03	
3.85	0.4	0.20	0.355	2.49E-02	
4.20	0.4	0.20	0.000	0.00E+00	
4.55	0.4	0.20	0.000	0.00E+00	
4.90	0.4	0.15	0.172	9.03E-03	
5.25	0.4	0.15	0.164	8.61E-03	
5.60	0.4	0.15	0.000	0.00E+00	
5.95	0.4	0.15	0.000	0.00E+00	
6.30	0.4	0.15	0.122	6.41E-03	
6.65	0.4	0.15	0.060	3.15E-03	
7.00	0.4	0.15	0.01	3.15E-04	
7.35	2.8	0.15	0.00	0.00E+00	
12.60	3.7			0.00E+00	
	6.3			0.00E+00	
	0.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.0662	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W4	Traverse:	1	Date	11/08/2022
Sampler:	DH, PJ	Recorder:	DH, PJ	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.56		Time:	14:10
Staff Gauge @ End	Height (m):	0.56		Time:	14:46
Right Bank: (m)	0.5	Left Bank: (m)	5.65	Total Width: (m)	5.15

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.50	Right Bank				
0.75	0.2	0.25	0.000	0.00E+00	
0.95	0.2	0.45	0.000	0.00E+00	
1.20	0.3	0.30	1.305	9.79E-02	
1.45	0.3	0.15	0.000	0.00E+00	
1.70	0.3	0.25	0.000	0.00E+00	
1.95	0.3	0.15	0.720	2.70E-02	
2.20	0.3	0.10	0.248	6.20E-03	
2.45	0.3	0.35	0.000	0.00E+00	
2.70	0.3	0.20	0.000	0.00E+00	
2.95	0.3	0.30	1.374	1.03E-01	
3.20	0.3	0.60	0.000	0.00E+00	
3.45	0.3	0.45	0.000	0.00E+00	
3.70	0.3	0.35	1.517	1.33E-01	
3.95	0.3	0.10	0.393	9.83E-03	
4.20	0.3	0.15	0.000	0.00E+00	
4.45	0.3	0.20	0.000	0.00E+00	
4.70	0.3	0.10	0.094	2.35E-03	
4.95	0.3	0.20	0.210	1.05E-02	
5.20	0.3	0.20	0.113	5.65E-03	
5.45	0.2	0.15	0.296	9.99E-03	
5.65	2.7			0.00E+00	
	2.8			0.00E+00	
	0.0				
			ΣQ (m^3/s)	0.4052	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N1	Traverse:	1	Date	11/08/2022
Sampler:	CN,RA	Recorder:	CN,RA	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.306		Time:	16:01
Staff Gauge @ End	Height (m):	0.306		Time:	16:35
Right Bank: (m)	1	Left Bank: (m)	16.1	Total Width: (m)	15.1

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.00	Right Bank				
1.75	0.8	0.18	0.000	0.00E+00	
2.50	0.8	0.21	0.000	0.00E+00	
3.25	0.8	0.22	0.111	1.83E-02	
4.00	0.8	0.24	0.127	2.29E-02	
4.75	0.8	0.27	0.190	3.85E-02	
5.50	0.8	0.25	0.138	2.59E-02	
6.25	0.8	0.21	0.233	3.67E-02	
7.00	0.8	0.28	0.186	3.91E-02	
7.75	0.8	0.20	0.229	3.44E-02	
8.50	0.8	0.20	0.329	4.94E-02	
9.25	0.8	0.25	0.000	0.00E+00	
10.00	0.8	0.14	0.455	4.78E-02	
10.75	0.8	0.20	0.055	8.25E-03	
11.50	0.6	0.18	0.339	3.81E-02	
12.00	0.6	0.20	0.000	0.00E+00	
12.75	0.3	0.18	0.166	7.47E-03	
12.50	0.8	0.20	0.000	0.00E+00	
14.25	1.3	0.18	0.18	4.03E-02	
15.00	0.8	0.21	0.36	5.67E-02	
15.75	0.6	0.21	0.38	4.39E-02	
16.10	7.9			0.00E+00	
			ΣQ (m^3/s)	0.5075	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	N2	Traverse:	1	Date	11/08/2022
Sampler:	RA/CN	Recorder:	RA/CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.352		Time:	16:01
Staff Gauge @ End	Height (m):	0.352		Time:	16:35
Right Bank: (m)	0.5	Left Bank: (m)	10	Total Width: (m)	9.5

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
0.50	Right Bank				
1.00	0.5	0.04	3.200	6.40E-02	
1.50	0.5	0.31	5.490	8.51E-01	
2.00	0.5	0.30	0.115	1.73E-02	
2.50	0.5	0.31	0.255	3.95E-02	
3.00	0.5	0.20	0.000	0.00E+00	
3.50	0.5	0.17	0.000	0.00E+00	
4.00	0.5	0.17	0.000	0.00E+00	
4.50	0.5	0.24	0.000	0.00E+00	
5.00	0.5	0.31	0.002	3.10E-04	
5.50	0.5	0.35	0.731	1.28E-01	
6.00	0.5	0.31	0.169	2.62E-02	
6.50	0.5	0.00	0.000	0.00E+00	
7.00	0.5	0.28	0.000	0.00E+00	
7.50	0.5	0.28	0.089	1.25E-02	
8.00	0.5	0.28	0.362	5.07E-02	
8.50	0.5	0.30	0.317	4.76E-02	
9.00	0.5	0.26	0.249	3.19E-02	
9.50	0.5	0.00	0.00	0.00E+00	
10.00	4.8			0.00E+00	
	5.0			0.00E+00	
	0.0			0.00E+00	
	0.0			0.00E+00	
	0.0				
			ΣQ (m^3/s)	1.2687	RPD (%) see trav #2

	Mean Q:	#REF!		Stage (m):	#REF!
Station ID:	W3	Traverse:	1	Date	11/08/2022
Sampler:	RA/CN	Recorder:	RA/CN	Meter Type & No.	Swoffer 3000
Staff Gauge @ Start	Height (m):	0.612		Time:	12:52
Staff Gauge @ End	Height (m):	0.612		Time:	14:00
Right Bank: (m)	1	Left Bank: (m)	12	Total Width: (m)	11

Distance, x (m)	Width, Δx (m)	Depth, d (m)	Velocity$_{0.6d}$ (m/s)	Flow, ΔQ (m^3/s)	Comments
1.00	Right Bank				
1.50	0.5	0.25	0.000	0.00E+00	
2.00	0.8	0.30	0.000	0.00E+00	
3.00	0.8	0.18	0.116	1.57E-02	
3.50	0.5	0.22	0.104	1.14E-02	
4.00	0.5	0.15	0.393	2.95E-02	
4.50	0.5	0.20	0.000	0.00E+00	
5.00	0.5	0.20	0.047	4.70E-03	
5.50	0.5	0.18	0.177	1.59E-02	
6.00	0.5	0.21	0.000	0.00E+00	
6.50	0.5	0.00	0.000	0.00E+00	
7.00	0.5	0.14	0.000	0.00E+00	
7.50	0.5	0.12	0.000	0.00E+00	
8.00	0.5	0.14	0.000	0.00E+00	
8.50	0.5	0.19	0.000	0.00E+00	
9.00	0.5	0.31	0.000	0.00E+00	
9.50	0.5	0.50	0.123	3.08E-02	
10.00	0.5	0.57	0.015	4.28E-03	
10.50	0.5	0.46	0.199	4.58E-02	
11.00	0.5	0.40	0.000	0.00E+00	
11.50	0.5	0.36	0.000	0.00E+00	
12.00	0.3	0.10	0.000	0.00E+00	
12.00	6.0			0.00E+00	
	6.0				
			ΣQ (m^3/s)	0.1580	RPD (%) see trav #2

Appendix E

Surface Water Quality Results

Appendix E Surface Water Quality Results

				Location	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample ID	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample Date	16/07/2022	16/07/2022	16/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022	15/07/2022	15/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)													
Inorganics	Alkalinity (total) as CaCO3	mg/L	1		27.5	29.9	23.9	21.6	36.4	27.1	35.5	37.3	27.9	24.1	26.2	20.6	16.3
	Ammonia (as N)	mg/L	0	0.02|0.03|0.04|0.05|0.06|0.08|0.1|0.11|0.15|0.2|0.21|0.22|0.29|0.3|0.42|0.59|0.62|0.64|0.86|0.89|1.27|1.83|1.92|1.97|2.69|2.78|3.97|3.99|5.75|6.02|6.17|8.48|8.72|12.51|12.59|18.1|19|19.5|26.65|27.56|39.48|39.73|57.33|60.04|83.89|125.83|189.98	<0.01	<0.01	<0.01	0.011	0.011	<0.01	0.013	<0.01	0.012	0.014	0.01	0.027	<0.01
	Bicarbonate	mg/L	1		33.6	36.5	29.2	26.4	44.4	33.1	43.3	45.5	34	29.4	32	25.1	19.9
	Carbonate	mg/L	1		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
	Hardness as CaCO3	mg/L	0		27.6	29.6	23.7	21.2	35.2	26.6	35.7	38.5	27.8	24.1	25.4	20.6	17.9
	Hydroxide	mg/L	0		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
	Nitrate (as N)	mg/L	0		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	Nitrate and nitrite (as N)	mg/L	0		<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
	Nitrite (as N)	mg/L	0	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	pH (Lab)	pH Units	0		7.54	7.6	7.47	7.41	7.69	7.53	7.64	7.67	7.5	7.46	7.54	7.41	7.29
	Phosphorus	µg/L	3	Note	<30 - 9.8	<30 - 9.1	<30 - 9.8	<30 - 15	<30 - 7.6	<30 - 7.9	<30 - 9.1	<30 - 8	<30 - 12.8	<30 - 9.2	<30 - 10	<30 - 6.7	<30 - 28
	Phosphorus (Filtered)	µg/L	30	Note	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
	Total Dissolved Solids (Filtered)	mg/L	4		42.1	43.1	34.6	34.9	50	37.9	56	52	40.5	37.7	38.7	33.1	32.5
	Total Suspended Solids	mg/l	3	25	<3	<3	<3	4.5	<3	<3	<3	<3	<3	<3	<3	<3	13.9
	Acidity (as CaCO3)	µg/L	2,000		<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000	<2000
Metals	Aluminium	µg/L	3	5|100	15.6	8.8	19.6	53.3	6.2	8.1	17.6	10.3	45.3	10	7.6	14.4	83.7
	Aluminium (Filtered)	µg/L	1		7.9	3.4	11.5	6.6	3.6	4.4	8.5	6.5	9.2	7.5	4.3	9.4	6
	Antimony	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Antimony (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Arsenic	µg/L	0	5	0.14	0.1	0.14	0.14	<0.1	<0.1	0.16	0.15	0.13	0.13	<0.1	0.12	0.18
	Arsenic (Filtered)	µg/L	0		0.12	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	0.12	<0.1	<0.1	<0.1	<0.1	0.14
	Barium	µg/L	0		85.2	86.7	73.5	65.5	133	108	98.4	119	85.1	70.5	84.5	53.4	55
	Barium (Filtered)	µg/L	0		75.4	77.8	65.7	58	124	93.8	88.8	109	81.3	65.2	79.9	50.2	43
	Beryllium	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Beryllium (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Bismuth	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Bismuth (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Boron	µg/L	10	1500	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Boron (Filtered)	µg/L	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Cadmium	µg/L	0	Eqn|0.04|0.37	<0.005	0.0059	<0.005	0.0096	0.0105	<0.005	0.013	0.0063	0.0084	<0.005	<0.005	<0.005	0.0054
	Cadmium (Filtered)	µg/L	0		<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Calcium	mg/L	0		6.1	6.65	5.23	4.79	7.71	5.61	9.26	9.36	6.4	5.41	6.37	4.55	4.12
	Calcium (Filtered)	mg/L	0		6.15	6.74	5.37	4.89	7.56	5.71	8.8	9.05	6.48	5.54	6.27	4.6	4.16
	Cesium	µg/L	0		<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.024
	Cesium (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Chromium	µg/L	0	1	0.2	0.15	0.17	0.25	0.15	0.17	0.19	0.18	0.24	0.13	0.2	0.17	0.43
	Chromium (Filtered)	µg/L	0		0.18	0.1	0.13	<0.1	<0.1	0.12	0.14	0.1	<0.1	<0.1	<0.1	<0.1	0.15
	Cobalt	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.24
	Cobalt (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Copper	µg/L	1	Eqn|2|4	0.64	0.59	0.72	0.57	0.83	<0.5	0.77	0.78	0.69	0.51	0.76	0.68	0.72
	Copper (Filtered)	µg/L	0		0.56	0.49	0.55	0.45	0.66	0.41	0.67	0.62	0.55	0.43	0.61	0.47	0.52
	Cyanide	µg/L	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Iron	mg/L	0	0.3	0.192	0.064	0.106	0.153	0.029	0.069	0.116	0.093	0.103	0.051	0.116	0.033	0.638
	Iron (Filtered)	mg/L	0		0.112	0.032	0.047	0.036	0.013	0.035	0.041	0.037	0.026	0.025	0.068	0.015	0.059
	Lead	µg/L	0	Eqn|1|7	<0.05	<0.05	<0.05	0.054	<0.05	<0.05	<0.05	<0.05	0.055	<0.05	<0.05	<0.05	0.111
	Lead (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Lithium	µg/L	1		<1	<1	<1	<1	<1	<1	1.3	1.2	1.1	<1	<1	<1	1.2
	Lithium (Filtered)	µg/L	1		<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	1.1

Appendix E Surface Water Quality Results

				Location	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample ID	WQ1	WQ2	WQ3	WQ4	WQ5	WQ6	WQ7	WQ8	WQ9	WQ10	WQ11	WQ14	WQ15
				Sample Date	16/07/2022	16/07/2022	16/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022	15/07/2022	15/07/2022	15/07/2022	16/07/2022	16/07/2022	15/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)													
	Magnesium	mg/L	0		2.98	3.08	2.46	2.44	4.09	2.94	3.65	4.17	3.17	2.75	2.4	2.39	1.92
	Magnesium (Filtered)	mg/L	0		2.96	3.1	2.5	2.19	3.96	3	3.33	3.87	2.82	2.48	2.37	2.2	1.83
	Manganese	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	5.47	9.06	11.7	9.12	5.85	4.16	10.3	6.94	8.26	4.21	2.67	2.9	89.5
	Manganese (Filtered)	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	0.4	0.43	0.23	0.2	0.21	0.15	0.24	0.13	0.18	0.17	0.21	0.16	0.55
	Mercury	µg/L	0	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Mercury (Filtered)	µg/L	0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Molybdenum	µg/L	0	73	0.161	0.152	0.202	0.128	0.217	0.205	0.137	0.151	0.118	0.095	0.198	0.078	0.108
	Molybdenum (Filtered)	µg/L	0		0.145	0.14	0.184	0.153	0.21	0.202	0.151	0.142	0.135	0.116	0.182	0.083	0.113
	Nickel	µg/L	1	Eqn|25|150	0.81	0.72	0.59	0.59	0.61	0.61	0.76	0.66	0.67	<0.5	<0.5	0.53	0.83
	Nickel (Filtered)	µg/L	1		0.75	0.68	0.6	<0.5	0.52	0.57	0.69	0.63	0.52	<0.5	<0.5	0.53	0.56
	Potassium	mg/L	0		0.427	0.452	0.468	0.405	0.373	0.372	0.332	0.367	0.379	0.361	0.305	0.447	0.492
	Potassium (Filtered)	mg/L	0		0.406	0.426	0.448	0.385	0.35	0.334	0.317	0.358	0.361	0.35	0.287	0.442	0.454
	Rubidium	µg/L	0		1.22	0.94	1.12	1.02	0.9	0.96	0.97	0.96	1.04	0.98	0.87	0.96	2.1
	Rubidium (Filtered)	µg/L	0		1.03	0.94	1.02	0.89	0.73	0.77	0.84	0.91	0.92	0.87	0.79	0.89	1.75
	Selenium	µg/L	0	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Selenium (Filtered)	µg/L	0		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Silicon	µg/L	100		560	560	380	440	610	490	800	800	520	330	540	290	400
	Silicon (Filtered)	µg/L	50		480	517	346	341	587	510	737	791	427	326	465	240	206
	Silver	µg/L	0	0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Silver (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	0		0.774	0.795	0.706	0.635	0.658	0.647	1.07	0.952	0.689	0.623	0.487	0.699	0.725
	Sodium (Filtered)	mg/L	0		0.751	0.772	0.692	0.618	0.627	0.633	0.973	0.909	0.661	0.592	0.475	0.661	0.681
	Strontium	µg/L	0		88.3	79.9	66.1	59.7	127	100	85	104	74.7	64	73.7	73.3	54.6
	Strontium (Filtered)	µg/L	0		83.1	77.7	63.3	57.3	116	96.4	80.3	105	76.5	64.1	68.1	73.1	52.8
	Sulfur, elemental	µg/L	500		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
	Sulfur, elemental (Filtered)	µg/L	500		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
	Tellurium	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Tellurium (Filtered)	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Thallium	µg/L	0	0.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Thallium (Filtered)	µg/L	0		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Thorium	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Thorium (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Titanium	µg/L	0		0.33	<0.3	<0.3	1.95	<0.3	<0.3	0.44	<0.3	2.24	<0.3	<0.3	<0.3	2.82
	Titanium (Filtered)	µg/L	0		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.32	<0.3
	Tungsten	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Tungsten (Filtered)	µg/L	0		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Uranium	µg/L	0	15	0.173	0.188	0.153	0.113	0.436	0.338	0.156	0.162	0.153	0.114	0.177	0.07	0.097
	Uranium (Filtered)	µg/L	0		0.172	0.191	0.14	0.083	0.422	0.319	0.144	0.167	0.143	0.113	0.169	0.063	0.063
	Vanadium	µg/L	1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Vanadium (Filtered)	µg/L	1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Zinc	µg/L	3	7	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Zinc (Filtered)	µg/L	1	7	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1
	Zirconium	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.25
	Zirconium (Filtered)	µg/L	0		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Appendix E Surface Water Quality Results

				Location	WQ16			WQ17			WQ19	WQ20	WQ21	WQ23	WQ24
				Sample ID	WQ16	DUP B	RPD %	WQ17	DUP A	RPD %	WQ19	WQ20	WQ21	WQ23	WQ24
				Sample Date	16/07/2022	16/07/2022		16/07/2022	16/07/2022		16/07/2022	16/07/2022	16/07/2022	16/07/2022	16/07/2022
Parameter		**Units**	**LDL**	CCME Protection of Aquatic Life (FAL, long term)											
Inorganics	Alkalinity (total) as CaCO3	mg/L	1		10.9	10.5	4%	10.7	11	3%	21.8	15	30.6	36.2	38.6
	Ammonia (as N)	mg/L	0	0.02|0.03|0.04|0.05|0.06|0.08|0.1|0.11|0.15|0.2|0.21|0.22|0.29|0.3|0.42|0.59|0.62|0.64|0.86|0.89|1.27|1.83|1.92|1.97|2.69|2.78|3.97|3.99|5.75|6.02|6.17|8.48|8.72|12.51|12.59|18.1|19|19.5|26.65|27.56|39.48|39.73|57.33|60.04|83.89|125.83|189.98	0.014	<0.01	nc	0.014	<0.01	nc	<0.01	0.018	0.013	0.02	0.023
	Bicarbonate	mg/L	1		13.3	12.8	4%	13.1	13.4	2%	26.6	18.3	37.3	44.2	47.1
	Carbonate	mg/L	1		<0.6	<0.6	nc	<0.6	<0.6	nc	<0.6	<0.6	<0.6	<0.6	<0.6
	Hardness as CaCO3	mg/L	0		12.7	12.2	4%	12.9	12.2	6%	22.1	16.8	30.6	33.1	46.9
	Hydroxide	mg/L	0		<0.34	<0.34	nc	<0.34	<0.34	nc	<0.34	<0.34	<0.34	<0.34	<0.34
	Nitrate (as N)	mg/L	0		<0.02	<0.02	nc	<0.02	<0.02	nc	<0.02	<0.02	<0.02	<0.02	<0.02
	Nitrate and nitrite (as N)	mg/L	0		<0.07	<0.07	nc	<0.07	<0.07	nc	<0.07	<0.07	<0.07	<0.07	<0.07
	Nitrite (as N)	mg/L	0	0.06	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	pH (Lab)	pH Units	0		7.18	7.17	0%	7.16	7.21	1%	7.44	7.33	7.59	7.63	7.64
	Phosphorus	µg/L	3	Note	<30 - 8.4	<30 - 7.5	nc	<30 - 8.6	<30 - 7.9	nc	<30 - 6.4	<30 - 18.6	<30 - 12.3	<30 - 16.4	<30 - 12.3
	Phosphorus (Filtered)	µg/L	30	Note	<30	<30	nc	<30	<30	nc	<30	<30	<30	<30	<30
	Total Dissolved Solids (Filtered)	mg/L	4		25.1	23	9%	14.1	21.7	42%	42	29.2	40.4	81	90
	Total Suspended Solids	mg/l	3	25	<3	<3	nc	<3	<3	nc	<3	<3	<3	<3	<3
	Acidity (as CaCO3)	µg/L	2,000		<2000	<2000	nc	<2000	<2000	nc	<2000	<2000	<2000	<2000	<2000
Metals	Aluminium	µg/L	3	5|100	16.2	24.2	40%	20.9	15.6	29%	20.1	72.6	19.9	107	75
	Aluminium (Filtered)	µg/L	1		6.5	7.3	12%	7.6	6.1	22%	15	7.4	10.4	80	52.7
	Antimony	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Antimony (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Arsenic	µg/L	0	5	0.13	0.11	17%	0.15	0.12	22%	0.13	0.15	0.15	0.31	0.29
	Arsenic (Filtered)	µg/L	0		0.11	0.11	0%	0.11	<0.1	nc	0.11	0.11	0.14	0.25	0.26
	Barium	µg/L	0		12	13.1	9%	12.1	12	1%	50.4	36.3	132	129	74.6
	Barium (Filtered)	µg/L	0		11.3	11.7	3%	11.1	11.1	0%	45.3	33.2	126	114	71.4
	Beryllium	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Beryllium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Bismuth	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05
	Bismuth (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05
	Boron	µg/L	10	1500	<10	<10	nc	<10	<10	nc	<10	<10	<10	<10	<10
	Boron (Filtered)	µg/L	10		<10	<10	nc	<10	<10	nc	<10	<10	<10	<10	<10
	Cadmium	µg/L	0	Eqn|0.04|0.37	<0.005	<0.005	nc	0.0332	<0.005	nc	<0.005	0.0103	0.0065	0.0158	0.0082
	Cadmium (Filtered)	µg/L	0		0.0054	<0.005	nc	0.0103	<0.005	nc	<0.005	<0.005	<0.005	0.0091	<0.005
	Calcium	mg/L	0		3.24	3.25	0%	3.23	3.23	0%	5.06	3.89	7.16	10	13.9
	Calcium (Filtered)	mg/L	0		3.29	3.1	6%	3.36	3.17	6%	4.94	3.96	7.33	6.89	14.3
	Cesium	µg/L	0		<0.01	0.012	nc	<0.01	<0.01	nc	<0.01	0.016	<0.01	<0.01	0.011
	Cesium (Filtered)	µg/L	0		<0.01	0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Chromium	µg/L	0	1	0.14	0.25	56%	0.15	<0.1	nc	0.22	0.36	0.18	0.62	0.5
	Chromium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	0.14	<0.1	0.11	0.49	0.35
	Cobalt	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	0.12	<0.1
	Cobalt (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Copper	µg/L	1	Eqn|2|4	<0.5	<0.5	nc	0.59	<0.5	nc	1.05	0.56	0.77	1.88	5.12
	Copper (Filtered)	µg/L	0		0.32	0.3	6%	0.39	0.32	20%	0.95	0.45	0.63	1.58	4.44
	Cyanide	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	<1	1	<1
	Iron	mg/L	0	0.3	0.071	0.079	11%	0.065	0.056	15%	0.056	0.2	0.311	0.614	0.683
	Iron (Filtered)	mg/L	0		0.018	0.016	12%	0.015	0.014	7%	0.028	0.033	0.166	0.357	0.438
	Lead	µg/L	0	Eqn|1|7	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.055	0.174
	Lead (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	0.103
	Lithium	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	1.1	1.6	1.2
	Lithium (Filtered)	µg/L	1		<1	<1	nc	<1	<1	nc	<1	<1	1.2	1.2	1.3

Appendix E Surface Water Quality Results

				Location	WQ16			WQ17			WQ19	WQ20	WQ21	WQ23	WQ24
				Sample ID	WQ16	DUP B	RPD %	WQ17	DUP A	RPD %	WQ19	WQ20	WQ21	WQ23	WQ24
				Sample Date	16/07/2022	16/07/2022		16/07/2022	16/07/2022		16/07/2022	16/07/2022	16/07/2022	16/07/2022	16/07/2022
Parameter		Units	LDL	CCME Protection of Aquatic Life (FAL, long term)											
	Magnesium	mg/L	0		1.12	1.07	5%	1.11	1.07	4%	2.36	1.76	2.86	4.27	2.97
	Magnesium (Filtered)	mg/L	0		1.09	1.07	2%	1.09	1.04	5%	2.36	1.68	2.98	3.86	2.75
	Manganese	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	12.2	13.2	8%	14.3	12.1	17%	4.7	15.1	11.5	8.05	13.8
	Manganese (Filtered)	µg/L	0	200|220|240|250|260|270|290|300|310|320|330|350|370|380|390|400|420|430|440|460|470|480|490|500|520|530|540|550|560|570|590|600|610|620|640|650|660|670|690|700|710|720|730|740|750|760|770|790|830|840|860|880|890|930|940|1000|1100|1200|1300|1400|1500	0.44	0.26	51%	0.48	0.48	0%	0.31	0.29	0.69	2.15	3.07
	Mercury	µg/L	0	0.026	<0.005	<0.005	nc	<0.005	<0.005	nc	<0.005	<0.005	<0.005	<0.005	<0.005
	Mercury (Filtered)	µg/L	0		<0.005	<0.005	nc	<0.005	<0.005	nc	<0.005	<0.005	<0.005	<0.005	<0.005
	Molybdenum	µg/L	0	73	0.082	0.107	26%	0.087	0.089	2%	0.091	0.1	0.112	0.114	0.214
	Molybdenum (Filtered)	µg/L	0		0.096	0.086	11%	0.089	0.088	1%	0.087	0.098	0.099	0.085	0.229
	Nickel	µg/L	1	Eqn|25|150	<0.5	<0.5	nc	<0.5	<0.5	nc	1.01	0.57	0.68	2.21	2.14
	Nickel (Filtered)	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	0.95	<0.5	0.6	1.97	1.89
	Potassium	mg/L	0		0.493	0.493	0%	0.537	0.507	6%	0.394	0.489	0.533	0.322	0.676
	Potassium (Filtered)	mg/L	0		0.479	0.481	0%	0.514	0.481	7%	0.379	0.448	0.553	0.303	0.67
	Rubidium	µg/L	0		1.3	1.42	9%	1.38	1.28	8%	0.81	1.4	1.41	0.77	1.53
	Rubidium (Filtered)	µg/L	0		1.27	1.44	13%	1.35	1.34	1%	0.83	1.12	1.38	0.69	1.38
	Selenium	µg/L	0	1	<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.06	0.1
	Selenium (Filtered)	µg/L	0		<0.05	<0.05	nc	<0.05	<0.05	nc	<0.05	<0.05	<0.05	0.071	0.11
	Silicon	µg/L	100		220	210	5%	240	240	0%	1170	360	280	1070	710
	Silicon (Filtered)	µg/L	50		182	167	9%	181	189	4%	1090	220	219	1050	719
	Silver	µg/L	0	0.25	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	0.011
	Silver (Filtered)	µg/L	0		<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	0		0.595	0.566	5%	0.741	0.566	27%	1.01	0.681	0.82	1.7	0.858
	Sodium (Filtered)	mg/L	0		0.615	0.536	14%	0.636	0.531	18%	0.983	0.629	0.834	1.49	0.784
	Strontium	µg/L	0		16.5	17.5	6%	15.9	16.4	3%	55.3	48.8	148	101	65.4
	Strontium (Filtered)	µg/L	0		15.5	15.2	2%	16.2	15.3	6%	51.9	48.1	138	71.3	68.1
	Sulfur, elemental	µg/L	500		<500	<500	nc	<500	<500	nc	<500	<500	<500	<500	960
	Sulfur, elemental (Filtered)	µg/L	500		<500	<500	nc	<500	<500	nc	<500	<500	<500	<500	1290
	Tellurium	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2
	Tellurium (Filtered)	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<0.2
	Thallium	µg/L	0	0.8	<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Thallium (Filtered)	µg/L	0		<0.01	<0.01	nc	<0.01	<0.01	nc	<0.01	<0.01	<0.01	<0.01	<0.01
	Thorium	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Thorium (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tin (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Titanium	µg/L	0		0.32	0.44	32%	0.59	<0.3	nc	<0.3	2.74	<0.3	0.82	0.9
	Titanium (Filtered)	µg/L	0		<0.3	<0.3	nc	<0.3	<0.3	nc	<0.3	<0.3	<0.3	0.37	0.49
	Tungsten	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Tungsten (Filtered)	µg/L	0		<0.1	<0.1	nc	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1
	Uranium	µg/L	0	15	0.056	0.062	10%	0.056	0.055	2%	0.071	0.075	0.102	0.115	0.312
	Uranium (Filtered)	µg/L	0		0.049	0.051	4%	0.051	0.049	4%	0.07	0.055	0.098	0.08	0.31
	Vanadium	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5
	Vanadium (Filtered)	µg/L	1		<0.5	<0.5	nc	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5
	Zinc	µg/L	3	7	<3	<3	nc	<3	<3	nc	<3	<3	<3	3	<3
	Zinc (Filtered)	µg/L	1	7	<1	<1	nc	<1	<1	nc	<1	<1	<1	1.4	<1
	Zirconium	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	0.3	<0.2	<0.2	0.66	0.45
	Zirconium (Filtered)	µg/L	0		<0.2	<0.2	nc	<0.2	<0.2	nc	0.3	<0.2	<0.2	0.53	0.46

Appendix F

Analytical Laboratory Reports

HEMMERA ENVIROCHEM INC.
ATTN: NELSON DEBOGGARSKI
4515 CENTRAL BLVD F18
BURNABY BC V5H0C6

Date Received: 18-JUL-22
Report Date: 12-AUG-22 07:32 (MT)
Version: FINAL

Client Phone: 867-988-1429

Certificate of Analysis

Lab Work Order #: L2722873
Project P.O. #: NOT SUBMITTED
Job Reference: 106892-01
C of C Numbers:
Legal Site Desc:

Hua Wo
Chemistry Laboratory Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828806
Ammonia, Total (as N)	0.012		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	27.8		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0128		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	40.5		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0453		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0851		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000084		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	6.40		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00024		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00069		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.103		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000055		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0011		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	3.17		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00826		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000118		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00067		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.379		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00104		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.52		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.689		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0747		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00224		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000153		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0092		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0813		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.48		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.026		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.82		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000135		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00052		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.361		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00092		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.427		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.661		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0765		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000143		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	34.0		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	27.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	51.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.50		0.10	pH units		20-JUL-22	R5826879
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	0.013		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	35.7		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0091		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	56		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0176		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00016		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0984		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000130		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	9.26		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00019		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00077		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.116		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0013		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	3.65		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0103		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000137		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00076		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.332		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00097		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.80		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	1.07		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0850		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00044		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000156		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0085		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0888		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	8.80		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.041		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.33		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00024		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000151		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00069		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.317		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00084		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.737		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.973		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0803		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000144		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	43.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	35.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	67.2		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.64		0.10	pH units		20-JUL-22	R5826879
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	38.5		0.20	mg/L		11-AUG-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0080		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	52		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0103		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.119		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000063		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	9.36		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00018		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00078		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.093		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	4.17		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00694		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000151		0.000050	mg/L	19-JUL-22	11-AUG-22	R5841052
Nickel (Ni)-Total	0.00066		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.367		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.80		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.952		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.104		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000162		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0065		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.109		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	9.05		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.037		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.87		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000142		0.000050	mg/L	20-JUL-22	11-AUG-22	R5841052
Nickel (Ni)-Dissolved	0.00063		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.358		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00091		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.791		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.909		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.105		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000167		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	45.5		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	37.3		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	71.3		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.67		0.10	pH units		20-JUL-22	R5826879
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	24.1		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0092		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	37.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0100		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0705		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	5.41		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00051		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.051		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.75		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00421		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000095		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.361		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00098		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.33		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.623		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0640		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000114		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0075		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0652		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.54		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00043		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.025		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.48		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000116		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.350		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00087		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.326		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.592		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0641		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000113		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	29.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	24.1		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	45.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.46		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	17.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0280		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	32.5		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	13.9		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0837		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00018		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0550		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000054		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.12		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000024		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00043		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	0.00024		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00072		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.638		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000111		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.92		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0895		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000108		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00083		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.492		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00210		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.40		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.725		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0546		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00282		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000097		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00025		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0060		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0430		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.16		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00052		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.059		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0011		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.83		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00055		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000113		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00056		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.454		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00175		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.206		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.681		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0528		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000063		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	19.9		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	16.3		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	35.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.29		0.10	pH units		20-JUL-22	R5826879
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.011		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	21.2		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0150		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	34.9		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	4.5		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0533		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00014		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0655		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000096		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.79		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00025		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00057		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.153		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000054		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.44		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00912		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000128		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00059		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.405		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00102		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.44		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.635		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0597		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00195		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000113		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0066		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0580		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.89		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00045		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.036		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.19		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000153		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.385		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00089		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.341		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.618		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0573		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000083		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	26.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	21.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	41.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.41		0.10	pH units		20-JUL-22	R5826879
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0086		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	14.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0209		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0121		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000332		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	3.23		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00059		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.065		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.11		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0143		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000087		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.537		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00138		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.24		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.741		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0159		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00059		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000056		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0076		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0111		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000103		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.36		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00039		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.015		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00048		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000089		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.514		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00135		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.181		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.636		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0162		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000051		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	13.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	10.7		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.16		0.10	pH units		20-JUL-22	R5826879
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.018		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	16.8		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0186		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	29.2		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0726		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0363		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000103		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	3.89		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000016		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00036		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00056		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.200		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.76		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0151		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000100		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00057		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.489		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00140		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.36		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.681		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0488		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00274		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000075		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0074		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0332		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.96		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00045		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.033		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.68		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00029		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000098		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.448		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00112		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.220		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.629		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0481		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000055		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	18.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	15.0		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	33.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.33		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.7		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0084		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	25.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0162		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0120		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	3.24		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00014		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.071		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.12		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0122		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000082		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.493		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00130		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.22		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.595		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0165		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00032		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000056		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0065		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0113		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000054		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.29		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00032		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.018		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00044		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000096		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.479		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.182		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.615		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0155		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000049		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	13.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	10.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.18		0.10	pH units		20-JUL-22	R5826879
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.027		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	20.6		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0067		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	33.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0144		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00012		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0534		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.55		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00017		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00068		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.033		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.39		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00290		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000078		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00053		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.447		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.29		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.699		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0733		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000070		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0094		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0502		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.60		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00047		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.015		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.20		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00016		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000083		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00053		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.442		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00089		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.240		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.661		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0731		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00032		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000063		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	25.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	20.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	40.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.41		0.10	pH units		20-JUL-22	R5826879
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.023		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	46.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0123		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	90		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0750		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00029		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0746		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000082		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	13.9		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00050		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00512		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.683		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000174		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.97		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0138		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000214		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00214		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.676		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00153		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	0.000100		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.71		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.858		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0654		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	0.96		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00090		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000312		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00045		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0527		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00026		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0714		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	14.3		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00035		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00444		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.438		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	0.000103		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0013		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.75		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00307		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000229		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00189		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.670		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	0.000110		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.719		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.784		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0681		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	1.29		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00049		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000310		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00046		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	47.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	38.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	82.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.64		0.10	pH units		20-JUL-22	R5826879
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.020		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	33.1		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Cyanide, Total	0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0164		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	81	RRV	13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.107		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00031		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.129		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000158		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	10.0		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00062		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	0.00012		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00188		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.614		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000055		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0016		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	4.27		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00805		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000114		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00221		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.322		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00077		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	0.000060		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	1.07		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	1.70		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.101		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00082		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000115		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00066		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0800		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00025		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.114		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000091		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.89		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00049		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00158		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.357		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.86		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00215		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000085		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00197		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.303		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00069		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	0.000071		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	1.05		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	1.49		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0713		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00037		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000080		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	0.0014		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00053		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	44.2		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	36.2		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	70.0		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.63		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		27-JUL-22	R5830199
Hardness (as CaCO3)	22.1		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0064		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	42.0		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0201		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0504		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.06		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00022		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00105		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.056		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.36		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00470		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000091		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00101		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.394		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00081		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	1.17		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	1.01		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0553		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000071		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	0.00030		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0150		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0453		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.94		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00095		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.028		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.36		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00031		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000087		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00095		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.379		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00083		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	1.09		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.983		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0519		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000070		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00030		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	26.6		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	21.8		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	43.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.44		0.10	pH units		20-JUL-22	R5826879
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	23.7		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0098		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	34.6		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0196		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0735		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.23		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00072		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.106		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.46		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0117		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000202		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00059		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.468		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00112		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.38		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.706		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0661		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000153		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0115		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0657		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.37		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.047		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.50		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00023		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000184		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.448		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00102		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.346		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.692		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0633		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000140		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	29.2		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	23.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	45.0		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.47		0.10	pH units		20-JUL-22	R5826879
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	29.6		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0091		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	43.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0088		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0867		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000059		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	6.65		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00059		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.064		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	3.08		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00906		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000152		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00072		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.452		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00094		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.56		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.795		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0799		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000188		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0034		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0778		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000059		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.74		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00049		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.032		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.10		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00043		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000140		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00068		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.426		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.517		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.772		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0777		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000191		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	36.5		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	29.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	55.9		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.60		0.10	pH units		20-JUL-22	R5826879
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	27.6		0.20	mg/L		22-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0098		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	42.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0156		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0852		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	6.10		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00064		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.192		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.98		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00547		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000161		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00081		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.427		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00122		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.56		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.774		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0883		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	0.00033		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000173		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0079		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0754		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.15		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00056		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.112		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.96		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00040		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000145		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00075		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.406		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00103		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.480		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.751		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0831		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000172		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	33.6		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	27.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	51.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.54		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	26.6		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0079		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	37.9		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0081		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.108		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.61		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.069		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.94		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00416		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000205		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00061		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.372		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.49		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.647		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.100		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000338		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0044		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0938		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.71		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00041		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.035		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.00		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000202		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00057		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.334		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00077		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.510		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.633		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0964		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000319		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	0.0013		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	33.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	27.1		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	49.9		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.53		0.10	pH units		20-JUL-22	R5826879
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.011		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	35.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0076		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	50		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0062		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.133		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000105		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	7.71		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00083		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.029		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	4.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00585		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000217		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00061		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.373		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00090		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.61		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.658		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.127		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000436		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0036		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.124		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	7.56		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00066		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.013		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.96		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00021		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000210		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00052		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.350		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00073		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.587		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.627		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.116		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000422		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	44.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	36.4		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	67.3		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.69		0.10	pH units		20-JUL-22	R5826879
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	25.4		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0100		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	38.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0076		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0845		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	6.37		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00076		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.116		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.40		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00267		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000198		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.305		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00087		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.54		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.487		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0737		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000177		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0043		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0799		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.27		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00061		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.068		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.37		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00021		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000182		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.287		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00079		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.465		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.475		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0681		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000169		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	32.0		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	26.2		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	48.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.54		0.10	pH units		20-JUL-22	R5826879
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.013		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	30.6		0.20	mg/L		26-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0123		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	40.4		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0199		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.132		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000065		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	7.16		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00077		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.311		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	0.0011		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.86		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0115		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000112		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00068		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.533		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00141		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.28		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.820		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.148		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000102		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0104		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00014		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.126		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	7.33		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00011		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00063		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.166		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.98		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00069		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000099		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.553		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.219		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.834		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.138		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000098		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	37.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	30.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	57.7		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.59		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0079		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	21.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0156		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0120		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	3.23		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.056		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	1.07		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0121		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000089		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.507		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00128		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.24		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.566		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0164		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000055		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0061		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0111		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.17		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00032		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.014		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.04		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00048		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000088		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.481		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.189		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.531		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0153		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000049		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	13.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	11.0		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.21		0.10	pH units		20-JUL-22	R5826879
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		25-JUL-22	R5828570
Hardness (as CaCO3)	12.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0075		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	23.0		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0242		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0131		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	3.25		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	0.000012		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00025		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.079		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	1.07		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0132		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000107		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.493		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00142		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.21		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.566		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0175		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	0.00044		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000062		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0073		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0117		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.10		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00030		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.016		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.07		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00026		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000086		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.481		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00144		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.167		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.536		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0152		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000051		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	12.8		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	10.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	27.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.17		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-WT	Water	Acidity (as CaCO3)	APHA 2310 B - Potentiometric Titration
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.			
ALK-HCO3HCO3-CALC-WP	Water	Alkalinity, Bicarbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L			
ALK-OHOH-CALC-WP	Water	Alkalinity, Hydroxide	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.			
ALK-TITR-WP	Water	Alkalinity, Total (as CaCO3)	APHA 2320B
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.			
CN-T-L-CFA-WT	Water	Low Level Total Cyanide in water by CFA	ISO 14403-2:2002
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, however it would be less than 1% and could be as low as zero.			
EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc			
EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
HARDNESS-CALC-WP	Water	Hardness Calculated	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-D-CVAA-WP	Water	Mercury Dissolved	APHA 3030B/EPA 1631E (mod)
Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			
HG-T-CVAA-WP	Water	Mercury Total	EPA 1631E (mod)
Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
MET-D-CCMS-WP	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-CCMS-WP	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod.)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS-L
This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically after persulphate digestion of the sample.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540 D (modified)
Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105 C.			
TDS-WP	Water	Total Dissolved Solids (TDS)	APHA 2540 SOLIDS C,E
A well-mixed sample is filtered through a glass fiber filter paper. The filtrate is then evaportaed to dryness in a pre-weighed vial and dried at 180 – 2C. The increase in vial weight represents the total dissolved solids.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

L2722873-COFC

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Page 1 of 2

Report To		Report Format / Distribution	Turnaround Time (TAT) Requested
Company:	Hemmera	Select Report Format: PDF EXCEL EDD (DIGITAL)	Regular (Standard TAT if received by 3 pm - business days)
Contact:	Alex Therriault / Nelson Debogorski	Merge QC/QCI Reports with COC: YES NO	4 day [P4] if received by 3 pm - 50% rush surcharge minimum
Phone:	604-955-1400	Compare Results to Criteria on Report - provide details below if box checked: YES NO	3 day [P3] if received by 3 pm - 75% rush surcharge minimum
Company address below will appear on the final report		Select Distribution: EMAIL FAX	2 day [P2] if received by 3 pm - 100% rush surcharge minimum
Street:	4915 Central Blvd Ste B	Email 1: Alex.Therriault@hemmeracan	Same day [E] if received by 3 pm - 200% rush surcharge minimum
City/Province:	Burnaby, BC	Email 2: Nelson.Debogorski@hemmeracan	Date and Time Required for all E&P TATs:
Postal Code:	V5H 0C6	Email 3:	For all tests with rush TATs requested, please contact your AM to confirm availability.
Invoice To	Same as Report To: YES NO	Invoice Recipients	Analysis Requested
	Copy of Invoice with Report: YES NO	Select Invoice Distribution: EMAIL MAIL FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:		Email 1 or Fax:	
Contact:		Email 2:	
Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center: PO#	
Job #:	106892-01	Major/Minor Code: Routing Code:	
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact: Sampler:	

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	SAMPLES ON HOLD
1	WQ9	15-Jul-22	1428	H2O	9	X
2	WQ 7		1510			X
3	WQ8		1450			X
4	WQ10		1415			X
5	WQ 15		1345			X
6	WQ 4		1330			X
7	WQ17	16-Jul-22	12:37			X
8	WQ 20		13:00			X
9	WQ16		13:15			X
10	WQ14		07:45			X
11	WQ 24		08:00			X
12	WQ 23		08:20			X

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? YES NO

Are samples for human consumption/use? YES NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

ALS failed to provide Syringes + filters. All dissolved samples contain no preservative and were not filtered

SHIPMENT RELEASE (client use)

Released by: Alex Therriault Date: July 18, 2022 Time: 0700

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: NONE ICE ICE PACKS FROZEN

Submission Comments identified on Separate Attachment

Cooler Custody Seals Intact: YES NO N/A Sample Custody Seals Intact: YES NO N/A

COOLER TEMPERATURES °C

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by: Date: JUL 2022

FINAL SHIPMENT RECEPTION (ALS use only)

Received by: Date:

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

HEMMERA ENVIROCHEM INC.
ATTN: NELSON DEBOGGARSKI
4515 CENTRAL BLVD F18
BURNABY BC V5H0C6

Date Received: 18-JUL-22
Report Date: 23-AUG-22 17:05 (MT)
Version: FINAL REV. 2

Client Phone: 867-988-1429

Certificate of Analysis

Lab Work Order #: L2722873
Project P.O. #: NOT SUBMITTED
Job Reference: 106892-01
C of C Numbers:
Legal Site Desc:

Comments: Update report formats

Hua Wo
Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828806
Ammonia, Total (as N)	0.012		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	27.8		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0128		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	40.5		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0453		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0851		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000084		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	6.40		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00024		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00069		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.103		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000055		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0011		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	3.17		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00826		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000118		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00067		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.379		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00104		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.52		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.689		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0747		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00224		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000153		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0092		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0813		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.48		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.026		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.82		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000135		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00052		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.361		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00092		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.427		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.661		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0765		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000143		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	34.0		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-1 WQ9							
Sampled By: CLIENT on 15-JUL-22 @ 14:28							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	27.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	51.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.50		0.10	pH units		20-JUL-22	R5826879
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	0.013		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	35.7		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0091		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	56		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0176		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00016		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0984		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000130		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	9.26		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00019		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00077		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.116		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0013		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	3.65		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0103		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000137		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00076		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.332		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00097		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.80		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	1.07		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0850		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00044		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000156		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0085		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0888		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	8.80		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00067		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.041		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.33		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00024		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000151		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00069		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.317		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00084		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.737		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.973		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0803		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-2 WQ7							
Sampled By: CLIENT on 15-JUL-22 @ 15:10							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000144		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	43.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	35.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	67.2		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.64		0.10	pH units		20-JUL-22	R5826879
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	38.5		0.20	mg/L		11-AUG-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0080		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	52		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0103		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.119		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000063		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	9.36		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00018		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00078		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.093		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	4.17		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00694		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000151		0.000050	mg/L	19-JUL-22	11-AUG-22	R5841052
Nickel (Ni)-Total	0.00066		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.367		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.80		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.952		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.104		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000162		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0065		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.109		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	9.05		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00062		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.037		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.87		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-3 WQ8							
Sampled By: CLIENT on 15-JUL-22 @ 14:50							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000142		0.000050	mg/L	20-JUL-22	11-AUG-22	R5841052
Nickel (Ni)-Dissolved	0.00063		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.358		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00091		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.791		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.909		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.105		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000167		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	45.5		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	37.3		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	71.3		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.67		0.10	pH units		20-JUL-22	R5826879
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		26-JUL-22	R5828808
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	24.1		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0092		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	37.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0100		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0705		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	5.41		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00051		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.051		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.75		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00421		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000095		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.361		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00098		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.33		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.623		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0640		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000114		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0075		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0652		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-4 WQ10							
Sampled By: CLIENT on 15-JUL-22 @ 14:15							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.54		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00043		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.025		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.48		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000116		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.350		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00087		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.326		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.592		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0641		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000113		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	29.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	24.1		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	45.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.46		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	17.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0280		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	32.5		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	13.9		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0837		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00018		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0550		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000054		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.12		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000024		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00043		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	0.00024		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00072		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.638		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000111		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.92		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0895		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000108		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00083		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.492		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00210		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.40		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.725		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0546		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00282		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000097		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00025		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0060		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0430		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.16		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00052		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.059		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0011		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.83		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00055		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000113		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00056		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.454		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00175		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.206		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.681		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0528		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000063		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	19.9		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-5 WQ15							
Sampled By: CLIENT on 15-JUL-22 @ 13:45							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	16.3		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	35.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.29		0.10	pH units		20-JUL-22	R5826879
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.011		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	21.2		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0150		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	34.9		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	4.5		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0533		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00014		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0655		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000096		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.79		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00025		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00057		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.153		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000054		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.44		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00912		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000128		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00059		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.405		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00102		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.44		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.635		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0597		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00195		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000113		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0066		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0580		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.89		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00045		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.036		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.19		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000153		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.385		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00089		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.341		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.618		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0573		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-6 WQ4							
Sampled By: CLIENT on 15-JUL-22 @ 13:30							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000083		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	26.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	21.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	41.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.41		0.10	pH units		20-JUL-22	R5826879
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0086		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	14.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0209		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0121		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000332		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	3.23		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00059		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.065		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.11		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0143		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000087		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.537		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00138		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.24		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.741		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0159		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00059		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000056		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0076		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0111		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000103		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.36		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00039		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.015		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00048		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-7 WQ17							
Sampled By: CLIENT on 16-JUL-22 @ 12:37							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000089		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.514		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00135		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.181		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.636		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0162		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000051		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	13.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	10.7		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.16		0.10	pH units		20-JUL-22	R5826879
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.018		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	16.8		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0186		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	29.2		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0726		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00015		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0363		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000103		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	3.89		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000016		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00036		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00056		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.200		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.76		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0151		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000100		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00057		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.489		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00140		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.36		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.681		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0488		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00274		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000075		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0074		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0332		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-8 WQ20							
Sampled By: CLIENT on 16-JUL-22 @ 13:00							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.96		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00045		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.033		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.68		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00029		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000098		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.448		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00112		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.220		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.629		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0481		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000055		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	18.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	15.0		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	33.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.33		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.014		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.7		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0084		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	25.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0162		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00013		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0120		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	3.24		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00014		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.071		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	1.12		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0122		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000082		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.493		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00130		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.22		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.595		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0165		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00032		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000056		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0065		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0113		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000054		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.29		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00032		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.018		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00044		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000096		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.479		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00127		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.182		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.615		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0155		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000049		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	13.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-9 WQ16							
Sampled By: CLIENT on 16-JUL-22 @ 13:15							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	10.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.18		0.10	pH units		20-JUL-22	R5826879
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5828811
Ammonia, Total (as N)	0.027		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	20.6		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0067		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	33.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0144		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00012		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0534		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	4.55		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00017		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00068		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.033		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	<0.0010		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.39		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00290		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000078		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00053		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.447		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.29		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.699		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0733		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000070		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0094		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0502		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.60		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00047		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.015		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.20		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00016		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000083		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00053		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.442		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00089		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.240		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.661		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0731		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-10 WQ14							
Sampled By: CLIENT on 16-JUL-22 @ 07:45							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00032		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000063		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	25.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	20.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	40.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.41		0.10	pH units		20-JUL-22	R5826879
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.023		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	46.9		0.20	mg/L		25-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0123		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	90		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0750		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00029		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.0746		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000082		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	13.9		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00050		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00512		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.683		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000174		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0012		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	2.97		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.0138		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000214		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00214		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.676		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00153		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	0.000100		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	0.71		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	0.000011		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	0.858		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.0654		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	0.96		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00090		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000312		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00045		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0527		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00026		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0714		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	14.3		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00035		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00444		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.438		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	0.000103		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0013		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.75		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00307		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-11 WQ24							
Sampled By: CLIENT on 16-JUL-22 @ 08:00							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000229		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00189		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.670		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	0.000110		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.719		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.784		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0681		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	1.29		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00049		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000310		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00046		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	47.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	38.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	82.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.64		0.10	pH units		20-JUL-22	R5826879
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.020		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	33.1		0.20	mg/L		25-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Cyanide, Total	0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0164		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	81	RRV	13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.107		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Arsenic (As)-Total	0.00031		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Barium (Ba)-Total	0.129		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Boron (B)-Total	<0.010		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cadmium (Cd)-Total	0.0000158		0.0000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Calcium (Ca)-Total	10.0		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Chromium (Cr)-Total	0.00062		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Cobalt (Co)-Total	0.00012		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Copper (Cu)-Total	0.00188		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Iron (Fe)-Total	0.614		0.010	mg/L	19-JUL-22	21-JUL-22	R5828431
Lead (Pb)-Total	0.000055		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Lithium (Li)-Total	0.0016		0.0010	mg/L	19-JUL-22	21-JUL-22	R5828431
Magnesium (Mg)-Total	4.27		0.0050	mg/L	19-JUL-22	21-JUL-22	R5828431
Manganese (Mn)-Total	0.00805		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Molybdenum (Mo)-Total	0.000114		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Nickel (Ni)-Total	0.00221		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Potassium (K)-Total	0.322		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Phosphorus (P)-Total	<0.030		0.030	mg/L	19-JUL-22	21-JUL-22	R5828431
Rubidium (Rb)-Total	0.00077		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Selenium (Se)-Total	0.000060		0.000050	mg/L	19-JUL-22	21-JUL-22	R5828431
Silicon (Si)-Total	1.07		0.10	mg/L	19-JUL-22	21-JUL-22	R5828431
Silver (Ag)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Sodium (Na)-Total	1.70		0.050	mg/L	19-JUL-22	21-JUL-22	R5828431
Strontium (Sr)-Total	0.101		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Sulfur (S)-Total	<0.50		0.50	mg/L	19-JUL-22	21-JUL-22	R5828431
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Thorium (Th)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Tin (Sn)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Titanium (Ti)-Total	0.00082		0.00030	mg/L	19-JUL-22	21-JUL-22	R5828431
Tungsten (W)-Total	<0.00010		0.00010	mg/L	19-JUL-22	21-JUL-22	R5828431
Uranium (U)-Total	0.000115		0.000010	mg/L	19-JUL-22	21-JUL-22	R5828431
Vanadium (V)-Total	<0.00050		0.00050	mg/L	19-JUL-22	21-JUL-22	R5828431
Zinc (Zn)-Total	0.0030		0.0030	mg/L	19-JUL-22	21-JUL-22	R5828431
Zirconium (Zr)-Total	0.00066		0.00020	mg/L	19-JUL-22	21-JUL-22	R5828431
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0800		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00025		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.114		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-12 WQ23							
Sampled By: CLIENT on 16-JUL-22 @ 08:20							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000091		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.89		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00049		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00158		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.357		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.86		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00215		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000085		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00197		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.303		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00069		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	0.000071		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	1.05		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	1.49		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0713		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	0.00037		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000080		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	0.0014		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00053		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					24-JUL-22	R5828427
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	22-JUL-22	24-JUL-22	R5828607
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	44.2		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	36.2		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	70.0		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.63		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		27-JUL-22	R5830199
Hardness (as CaCO3)	22.1		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	24-JUL-22	24-JUL-22	R5828607
Phosphorus (P)-Total	0.0064		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	42.0		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0201		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0504		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.06		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00022		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00105		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.056		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.36		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00470		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000091		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00101		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.394		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00081		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	1.17		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	1.01		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0553		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000071		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	0.00030		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0150		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0453		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	4.94		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00095		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.028		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.36		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00031		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000087		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00095		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.379		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00083		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	1.09		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.983		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0519		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000070		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	0.00030		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	26.6		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-13 WQ19							
Sampled By: CLIENT on 16-JUL-22 @ 08:40							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	21.8		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	43.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.44		0.10	pH units		20-JUL-22	R5826879
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	23.7		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0098		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	34.6		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0196		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0735		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.23		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00072		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.106		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.46		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0117		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000202		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00059		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.468		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00112		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.38		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.706		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0661		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000153		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0115		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0657		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.37		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00013		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00055		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.047		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.50		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00023		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000184		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.448		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00102		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.346		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.692		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0633		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-14 WQ3							
Sampled By: CLIENT on 16-JUL-22 @ 08:55							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000140		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	29.2		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	23.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	45.0		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.47		0.10	pH units		20-JUL-22	R5826879
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	29.6		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0091		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	43.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0088		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0867		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000059		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	6.65		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00059		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.064		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	3.08		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00906		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000152		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00072		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.452		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00094		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.56		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.795		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0799		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000188		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0034		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0778		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	0.0000059		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.74		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00049		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.032		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.10		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00043		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-15 WQ2							
Sampled By: CLIENT on 16-JUL-22 @ 09:15							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000140		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00068		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.426		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00094		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.517		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.772		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0777		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000191		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	36.5		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	29.9		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	55.9		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.60		0.10	pH units		20-JUL-22	R5826879
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	27.6		0.20	mg/L		22-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0098		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	42.1		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0156		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00014		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0852		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	6.10		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00064		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.192		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.98		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00547		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000161		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00081		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.427		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00122		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.56		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.774		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0883		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	0.00033		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000173		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0079		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0754		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-16 WQ1							
Sampled By: CLIENT on 16-JUL-22 @ 09:40							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.15		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00056		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.112		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.96		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00040		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000145		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00075		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.406		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00103		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.480		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.751		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0831		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000172		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	33.6		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	27.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	51.1		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.54		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	26.6		0.20	mg/L		22-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0079		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	37.9		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0081		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.108		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	5.61		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00017		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.069		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.94		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00416		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000205		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00061		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.372		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00096		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.49		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.647		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.100		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000338		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					20-JUL-22	R5826285
Aluminum (Al)-Dissolved	0.0044		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0938		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	5.71		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00041		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.035		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.00		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000202		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00057		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.334		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00077		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.510		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.633		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0964		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000319		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	0.0013		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	33.1		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-17 WQ6							
Sampled By: CLIENT on 16-JUL-22 @ 10:00							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	27.1		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	49.9		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.53		0.10	pH units		20-JUL-22	R5826879
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.011		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	35.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0076		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	50		13	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0062		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.133		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000105		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	7.71		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00083		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.029		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	4.09		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00585		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000217		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00061		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.373		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00090		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.61		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.658		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.127		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000436		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0036		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.124		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	7.56		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00066		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.013		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	3.96		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00021		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000210		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00052		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.350		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00073		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.587		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.627		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.116		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-18 WQ5							
Sampled By: CLIENT on 16-JUL-22 @ 10:25							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000422		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	44.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	36.4		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	67.3		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.69		0.10	pH units		20-JUL-22	R5826879
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	25.4		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0100		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	38.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0076		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0845		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Calcium (Ca)-Total	6.37		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00020		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00076		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.116		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.40		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.00267		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000198		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.305		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00087		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.54		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.487		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0737		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000177		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0043		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0799		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	6.27		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00061		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.068		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.37		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00021		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-19 WQ11							
Sampled By: CLIENT on 16-JUL-22 @ 10:48							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Molybdenum (Mo)-Dissolved	0.000182		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.287		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00079		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.465		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.475		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0681		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000169		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO3)	32.0		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	26.2		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	48.4		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.54		0.10	pH units		20-JUL-22	R5826879
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	0.013		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	30.6		0.20	mg/L		26-JUL-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0123		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	40.4		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0199		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00015		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.132		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	0.0000065		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	7.16		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00018		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	0.00077		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.311		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	0.0011		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	2.86		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0115		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000112		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	0.00068		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.533		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00141		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.28		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.820		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.148		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000102		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0104		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00014		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.126		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-20 WQ21							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	7.33		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	0.00011		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00063		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.166		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	0.0012		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	2.98		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00069		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000099		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	0.00060		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.553		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00138		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.219		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.834		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.138		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000098		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	37.3		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	30.6		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	57.7		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.59		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		20-JUL-22	R5827421
Hardness (as CaCO3)	12.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0079		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	21.7		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0156		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00012		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0120		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	3.23		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.056		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	1.07		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0121		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000089		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.507		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Total	0.00128		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.24		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.566		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0164		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	<0.00030		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Uranium (U)-Total	0.000055		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0061		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0111		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.17		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00032		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.014		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.04		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00048		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000088		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.481		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00134		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.189		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.531		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0153		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000049		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	13.4		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-21 DUP A							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Alkalinity, Carbonate							
Carbonate (CO3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as CaCO3)							
Alkalinity, Total (as CaCO3)	11.0		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	26.8		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.21		0.10	pH units		20-JUL-22	R5826879
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Nitrate + Nitrite							
Nitrate in Water by IC							
Nitrate (as N)	<0.020		0.020	mg/L		18-JUL-22	R5826916
Nitrate+Nitrite							
Nitrate and Nitrite as N	<0.070		0.070	mg/L		21-JUL-22	
Nitrite in Water by IC							
Nitrite (as N)	<0.010		0.010	mg/L		18-JUL-22	R5826916
Miscellaneous Parameters							
Acidity (as CaCO3)	<2.0		2.0	mg/L		27-JUL-22	R5829156
Ammonia, Total (as N)	<0.010		0.010	mg/L		25-JUL-22	R5828570
Hardness (as CaCO3)	12.2		0.20	mg/L		26-JUL-22	
Cyanide, Total	<0.0010		0.0010	mg/L		20-JUL-22	R5826858
Mercury (Hg)-Total	<0.0000050		0.0000050	mg/L	28-JUL-22	28-JUL-22	R5830823
Phosphorus (P)-Total	0.0075		0.0030	mg/L		04-AUG-22	R5836262
Total Dissolved Solids	23.0		4.0	mg/L		21-JUL-22	R5828605
Total Suspended Solids	<3.0		3.0	mg/L		21-JUL-22	R5828369
Total Metals in Water by CRC ICPMS							
Aluminum (Al)-Total	0.0242		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Total	0.00011		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Total	0.0131		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Boron (B)-Total	<0.010		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Total	<0.0000050		0.0000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Total	3.25		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Total	0.000012		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Total	0.00025		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Total	0.079		0.010	mg/L	20-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Total	<0.0010		0.0010	mg/L	20-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Total	1.07		0.0050	mg/L	20-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Total	0.0132		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Total	0.000107		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Potassium (K)-Total	0.493		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Total	<0.030		0.030	mg/L	20-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Total Metals in Water by CRC ICPMS							
Rubidium (Rb)-Total	0.00142		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Total	<0.000050		0.000050	mg/L	20-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Total	0.21		0.10	mg/L	20-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Total	0.566		0.050	mg/L	20-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Total	0.0175		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Total	<0.50		0.50	mg/L	20-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Total	<0.000010		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Tin (Sn)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Total	0.00044		0.00030	mg/L	20-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Total	<0.00010		0.00010	mg/L	20-JUL-22	21-JUL-22	R5827988
Uranium (U)-Total	0.000062		0.000010	mg/L	20-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Total	<0.00050		0.00050	mg/L	20-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Total	<0.0030		0.0030	mg/L	20-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Total	<0.00020		0.00020	mg/L	20-JUL-22	21-JUL-22	R5827988
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	LAB					21-JUL-22	R5827785
Aluminum (Al)-Dissolved	0.0073		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Arsenic (As)-Dissolved	0.00011		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Barium (Ba)-Dissolved	0.0117		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Boron (B)-Dissolved	<0.010		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Calcium (Ca)-Dissolved	3.10		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Cesium (Cs)-Dissolved	0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Copper (Cu)-Dissolved	0.00030		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Iron (Fe)-Dissolved	0.016		0.010	mg/L	21-JUL-22	21-JUL-22	R5827988
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Magnesium (Mg)-Dissolved	1.07		0.0050	mg/L	21-JUL-22	21-JUL-22	R5827988
Manganese (Mn)-Dissolved	0.00026		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Molybdenum (Mo)-Dissolved	0.000086		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	21-JUL-22	21-JUL-22	R5827988
Potassium (K)-Dissolved	0.481		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Rubidium (Rb)-Dissolved	0.00144		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silicon (Si)-Dissolved	0.167		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sodium (Na)-Dissolved	0.536		0.050	mg/L	21-JUL-22	21-JUL-22	R5827988
Strontium (Sr)-Dissolved	0.0152		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	21-JUL-22	21-JUL-22	R5827988
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2722873-22 DUP B							
Sampled By: CLIENT on 16-JUL-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	21-JUL-22	21-JUL-22	R5827988
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	21-JUL-22	21-JUL-22	R5827988
Uranium (U)-Dissolved	0.000051		0.000010	mg/L	21-JUL-22	21-JUL-22	R5827988
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	21-JUL-22	21-JUL-22	R5827988
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	21-JUL-22	21-JUL-22	R5827988
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	21-JUL-22	21-JUL-22	R5827988
Mercury Dissolved							
Dissolved Mercury Filtration Location	LAB					02-AUG-22	R5834098
Mercury (Hg)-Dissolved	<0.0000050		0.0000050	mg/L	02-AUG-22	03-AUG-22	R5834199
pH, Conductivity and Total Alkalinity							
Alkalinity, Bicarbonate							
Bicarbonate (HCO_3)	12.8		1.2	mg/L		21-JUL-22	
Alkalinity, Carbonate							
Carbonate (CO_3)	<0.60		0.60	mg/L		21-JUL-22	
Alkalinity, Hydroxide							
Hydroxide (OH)	<0.34		0.34	mg/L		21-JUL-22	
Alkalinity, Total (as $CaCO_3$)							
Alkalinity, Total (as $CaCO_3$)	10.5		1.0	mg/L		20-JUL-22	R5826879
Conductivity							
Conductivity	27.5		1.0	umhos/cm		20-JUL-22	R5826879
pH							
pH	7.17		0.10	pH units		20-JUL-22	R5826879

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ACIDITY-WT	Water	Acidity (as CaCO3)	APHA 2310 B - Potentiometric Titration
ALK-CO3CO3-CALC-WP	Water	Alkalinity, Carbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by carbonate is calculated and reported as mg CO3 2-/L.			
ALK-HCO3HCO3-CALC-WP	Water	Alkalinity, Bicarbonate	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by bicarbonate is calculated and reported as mg HCO3-/L			
ALK-OHOH-CALC-WP	Water	Alkalinity, Hydroxide	CALCULATION
The Alkalinity of water is a measure of its acid neutralizing capacity.Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. The fraction of alkalinity contributed by hydroxide is calculated and reported as mg OH-/L.			
ALK-TITR-WP	Water	Alkalinity, Total (as CaCO3)	APHA 2320B
The Alkalinity of water is a measure of its acid neutralizing capacity. Alkalinity is imparted by bicarbonate, carbonate and hydroxide components of water. Total alkalinity is determined by titration with a strong standard mineral acid to the successive HCO3- and H2CO3 endpoints indicated electrometrically.			
CN-T-L-CFA-WT	Water	Low Level Total Cyanide in water by CFA	ISO 14403-2:2002
This analysis is carried out using procedures adapted from ISO Method 14403:2002 "Determination of Total Cyanide using Flow Analysis (FIA and CFA)". Total or strong acid dissociable (SAD) cyanide is determined by in-line UV digestion along with sample distillation and final determination by colourimetric analysis. Method Limitation: This method is susceptible to interference from thiocyanate (SCN). If SCN is present in the sample, there could be a positive interference with this method, however it would be less than 1% and could be as low as zero.			
EC-SCREEN-WP	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other test eg. IC, TDS, TSS, etc			
EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.			
EC-WP	Water	Conductivity	APHA 2510B
Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes.			
HARDNESS-CALC-WP	Water	Hardness Calculated	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-D-CVAA-WP	Water	Mercury Dissolved	APHA 3030B/EPA 1631E (mod)
Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			
HG-T-CVAA-WP	Water	Mercury Total	EPA 1631E (mod)
Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
MET-D-CCMS-WP	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)
Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
MET-T-CCMS-WP	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020B (mod.)
Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.			
Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.			
NH3-COL-WP	Water	Ammonia by colour	APHA 4500 NH3 F
Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourmetrically.			
NO2+NO3-CALC-WP	Water	Nitrate+Nitrite	CALCULATION
NO2-IC-N-WP	Water	Nitrite in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
NO3-IC-N-WP	Water	Nitrate in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.			
P-T-COL-WP	Water	Phosphorus, Total	APHA 4500 P PHOSPHORUS-L
This analysis is carried out using procedures adapted from APHA METHOD 4500-P "Phosphorus". Total Phosphorus is determined colourmetrically after persulphate digestion of the sample.			
PH-WP	Water	pH	APHA 4500H
The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode.			
SOLIDS-TOTSUS-WP	Water	Total Suspended Solids	APHA 2540 D (modified)
Total suspended solids in aquesous matrices is determined gravimetrically after drying the residue at 103 105 C.			
TDS-WP	Water	Total Dissolved Solids (TDS)	APHA 2540 SOLIDS C,E
A well-mixed sample is filtered through a glass fiber filter paper. The filtrate is then evaportaed to dryness in a pre-weighed vial and dried at 180 – 2C. The increase in vial weight represents the total dissolved solids.			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: HEMMERA ENVIROCHEM INC.
4515 CENTRAL BLVD F18
BURNABY BC V5H0C6
Contact: NELSON DEBOGGARSKI

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ACIDITY-WT	**Water**							
Batch R5828806								
WG3752337-3 DUP		**L2722873-1**						
Acidity (as CaCO3)		<2.0	<2.0	RPD-NA	mg/L	N/A	20	26-JUL-22
WG3752337-2 LCS								
Acidity (as CaCO3)			105		%		85-115	26-JUL-22
WG3752337-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		3	26-JUL-22
Batch R5828808								
WG3752338-2 LCS								
Acidity (as CaCO3)			108.64		%		85-115	26-JUL-22
WG3752338-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		3	26-JUL-22
Batch R5828811								
WG3752339-2 LCS								
Acidity (as CaCO3)			108.9		%		85-115	27-JUL-22
WG3752339-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		3	27-JUL-22
Batch R5829156								
WG3752733-2 LCS								
Acidity (as CaCO3)			108.6		%		85-115	27-JUL-22
WG3752733-1 MB								
Acidity (as CaCO3)			<2.0		mg/L		3	27-JUL-22
ALK-TITR-WP	**Water**							
Batch R5826879								
WG3751046-36 DUP		**L2722873-13**						
Alkalinity, Total (as CaCO3)		21.8	22.0		mg/L	0.9	20	20-JUL-22
WG3751046-24 LCS								
Alkalinity, Total (as CaCO3)			102.9		%		85-115	20-JUL-22
WG3751046-29 LCS								
Alkalinity, Total (as CaCO3)			101.6		%		85-115	20-JUL-22
WG3751046-21 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	20-JUL-22
WG3751046-26 MB								
Alkalinity, Total (as CaCO3)			<1.0		mg/L		1	20-JUL-22
CN-T-L-CFA-WT	**Water**							
Batch R5826858								
WG3750822-3 DUP		**L2722873-1**						
Cyanide, Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	20-JUL-22
WG3750822-8 DUP		**L2722873-21**						

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-T-L-CFA-WT	**Water**							
Batch R5826858								
WG3750822-8 DUP		**L2722873-21**						
Cyanide, Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	20-JUL-22
WG3750822-2 LCS								
Cyanide, Total			102.2		%		80-120	20-JUL-22
WG3750822-7 LCS								
Cyanide, Total			100.2		%		80-120	20-JUL-22
WG3750822-1 MB								
Cyanide, Total			<0.0010		mg/L		0.001	20-JUL-22
WG3750822-6 MB								
Cyanide, Total			<0.0010		mg/L		0.001	20-JUL-22
WG3750822-4 MS		**L2722873-1**						
Cyanide, Total			98.3		%		70-130	20-JUL-22
WG3750822-9 MS		**L2722873-21**						
Cyanide, Total			98.1		%		70-130	20-JUL-22
EC-WP	**Water**							
Batch R5826879								
WG3751046-36 DUP		**L2722873-13**						
Conductivity		43.1	43.3		umhos/cm	0.5	10	20-JUL-22
WG3751046-23 LCS								
Conductivity			98.9		%		90-110	20-JUL-22
WG3751046-28 LCS								
Conductivity			98.4		%		90-110	20-JUL-22
WG3751046-21 MB								
Conductivity			<1.0		umhos/cm		1	20-JUL-22
WG3751046-26 MB								
Conductivity			<1.0		umhos/cm		1	20-JUL-22
HG-D-CVAA-WP	**Water**							
Batch R5828607								
WG3752147-2 LCS								
Mercury (Hg)-Dissolved			89.9		%		80-120	24-JUL-22
WG3752147-1 MB								
Mercury (Hg)-Dissolved			<0.0000050		mg/L		0.000005	24-JUL-22
Batch R5834199								
WG3754316-3 DUP		**L2722873-13**						
Mercury (Hg)-Dissolved		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	03-AUG-22
WG3754316-2 LCS								
Mercury (Hg)-Dissolved			103.1		%		80-120	03-AUG-22
WG3754316-1 MB								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-CVAA-WP	**Water**							
Batch R5834199								
WG3754316-1 MB								
Mercury (Hg)-Dissolved			<0.0000050		mg/L		0.000005	03-AUG-22
WG3754316-4 MS		**L2722873-14**						
Mercury (Hg)-Dissolved			96.7		%		70-130	03-AUG-22
HG-T-CVAA-WP	**Water**							
Batch R5828607								
WG3752149-2 LCS								
Mercury (Hg)-Total			90.6		%		80-120	24-JUL-22
WG3752149-1 MB								
Mercury (Hg)-Total			<0.0000050		mg/L		0.000005	24-JUL-22
Batch R5830823								
WG3753385-7 DUP		**L2722873-18**						
Mercury (Hg)-Total		<0.0000050	<0.0000050	RPD-NA	mg/L	N/A	20	28-JUL-22
WG3753385-6 LCS								
Mercury (Hg)-Total			102.7		%		80-120	28-JUL-22
WG3753385-5 MB								
Mercury (Hg)-Total			<0.0000050		mg/L		0.000005	28-JUL-22
WG3753385-8 MS		**L2722873-19**						
Mercury (Hg)-Total			103.4		%		70-130	28-JUL-22
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3750685-2 LCS								
Aluminum (Al)-Dissolved			104.3		%		80-120	21-JUL-22
Antimony (Sb)-Dissolved			102.8		%		80-120	21-JUL-22
Arsenic (As)-Dissolved			100.8		%		80-120	21-JUL-22
Barium (Ba)-Dissolved			99.3		%		80-120	21-JUL-22
Beryllium (Be)-Dissolved			118.1		%		80-120	21-JUL-22
Bismuth (Bi)-Dissolved			99.6		%		80-120	21-JUL-22
Boron (B)-Dissolved			122.3	MES	%		80-120	21-JUL-22
Cadmium (Cd)-Dissolved			99.96		%		80-120	21-JUL-22
Calcium (Ca)-Dissolved			109.8		%		80-120	21-JUL-22
Cesium (Cs)-Dissolved			105.4		%		80-120	21-JUL-22
Chromium (Cr)-Dissolved			100.6		%		80-120	21-JUL-22
Cobalt (Co)-Dissolved			101.4		%		80-120	21-JUL-22
Copper (Cu)-Dissolved			99.0		%		80-120	21-JUL-22
Iron (Fe)-Dissolved			99.4		%		80-120	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3750685-2 LCS								
Lead (Pb)-Dissolved			101.7		%		80-120	21-JUL-22
Lithium (Li)-Dissolved			126.5	MES	%		80-120	21-JUL-22
Magnesium (Mg)-Dissolved			103.1		%		80-120	21-JUL-22
Manganese (Mn)-Dissolved			101.8		%		80-120	21-JUL-22
Molybdenum (Mo)-Dissolved			104.8		%		80-120	21-JUL-22
Nickel (Ni)-Dissolved			100.5		%		80-120	21-JUL-22
Phosphorus (P)-Dissolved			113.8		%		80-120	21-JUL-22
Potassium (K)-Dissolved			104.0		%		80-120	21-JUL-22
Rubidium (Rb)-Dissolved			102.0		%		80-120	21-JUL-22
Selenium (Se)-Dissolved			98.7		%		80-120	21-JUL-22
Silicon (Si)-Dissolved			110.0		%		80-120	21-JUL-22
Silver (Ag)-Dissolved			103.1		%		80-120	21-JUL-22
Sodium (Na)-Dissolved			101.3		%		80-120	21-JUL-22
Strontium (Sr)-Dissolved			107.0		%		80-120	21-JUL-22
Sulfur (S)-Dissolved			105.7		%		80-120	21-JUL-22
Tellurium (Te)-Dissolved			99.0		%		80-120	21-JUL-22
Thallium (Tl)-Dissolved			100.5		%		80-120	21-JUL-22
Thorium (Th)-Dissolved			99.6		%		80-120	21-JUL-22
Tin (Sn)-Dissolved			101.9		%		80-120	21-JUL-22
Titanium (Ti)-Dissolved			102.3		%		80-120	21-JUL-22
Tungsten (W)-Dissolved			100.9		%		80-120	21-JUL-22
Uranium (U)-Dissolved			99.5		%		80-120	21-JUL-22
Vanadium (V)-Dissolved			101.7		%		80-120	21-JUL-22
Zinc (Zn)-Dissolved			104.7		%		80-120	21-JUL-22
Zirconium (Zr)-Dissolved			101.9		%		80-120	21-JUL-22
WG3751081-2 LCS								
Aluminum (Al)-Dissolved			100.3		%		80-120	21-JUL-22
Antimony (Sb)-Dissolved			98.4		%		80-120	21-JUL-22
Arsenic (As)-Dissolved			101.1		%		80-120	21-JUL-22
Barium (Ba)-Dissolved			102.4		%		80-120	21-JUL-22
Beryllium (Be)-Dissolved			103.3		%		80-120	21-JUL-22
Bismuth (Bi)-Dissolved			100.1		%		80-120	21-JUL-22
Boron (B)-Dissolved			105.1		%		80-120	21-JUL-22
Cadmium (Cd)-Dissolved			100.6		%		80-120	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3751081-2 LCS								
Calcium (Ca)-Dissolved			103.1		%		80-120	21-JUL-22
Cesium (Cs)-Dissolved			99.1		%		80-120	21-JUL-22
Chromium (Cr)-Dissolved			101.0		%		80-120	21-JUL-22
Cobalt (Co)-Dissolved			101.3		%		80-120	21-JUL-22
Copper (Cu)-Dissolved			101.3		%		80-120	21-JUL-22
Iron (Fe)-Dissolved			95.8		%		80-120	21-JUL-22
Lead (Pb)-Dissolved			99.4		%		80-120	21-JUL-22
Lithium (Li)-Dissolved			107.3		%		80-120	21-JUL-22
Magnesium (Mg)-Dissolved			101.1		%		80-120	21-JUL-22
Manganese (Mn)-Dissolved			103.6		%		80-120	21-JUL-22
Molybdenum (Mo)-Dissolved			101.7		%		80-120	21-JUL-22
Nickel (Ni)-Dissolved			101.5		%		80-120	21-JUL-22
Phosphorus (P)-Dissolved			106.1		%		80-120	21-JUL-22
Potassium (K)-Dissolved			102.5		%		80-120	21-JUL-22
Rubidium (Rb)-Dissolved			102.6		%		80-120	21-JUL-22
Selenium (Se)-Dissolved			96.1		%		80-120	21-JUL-22
Silicon (Si)-Dissolved			103.2		%		80-120	21-JUL-22
Silver (Ag)-Dissolved			100.3		%		80-120	21-JUL-22
Sodium (Na)-Dissolved			96.4		%		80-120	21-JUL-22
Strontium (Sr)-Dissolved			101.4		%		80-120	21-JUL-22
Sulfur (S)-Dissolved			93.9		%		80-120	21-JUL-22
Tellurium (Te)-Dissolved			97.7		%		80-120	21-JUL-22
Thallium (Tl)-Dissolved			100.8		%		80-120	21-JUL-22
Thorium (Th)-Dissolved			98.7		%		80-120	21-JUL-22
Tin (Sn)-Dissolved			101.9		%		80-120	21-JUL-22
Titanium (Ti)-Dissolved			98.9		%		80-120	21-JUL-22
Tungsten (W)-Dissolved			98.7		%		80-120	21-JUL-22
Uranium (U)-Dissolved			99.1		%		80-120	21-JUL-22
Vanadium (V)-Dissolved			102.2		%		80-120	21-JUL-22
Zinc (Zn)-Dissolved			103.0		%		80-120	21-JUL-22
Zirconium (Zr)-Dissolved			99.4		%		80-120	21-JUL-22
WG3750685-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3750685-1 MB								
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Boron (B)-Dissolved			<0.010		mg/L		0.01	21-JUL-22
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	21-JUL-22
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	21-JUL-22
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	21-JUL-22
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-22
Phosphorus (P)-Dissolved			<0.030		mg/L		0.03	21-JUL-22
Potassium (K)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	21-JUL-22
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	21-JUL-22
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3750685-1 MB								
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-22
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
WG3751081-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Boron (B)-Dissolved			<0.010		mg/L		0.01	21-JUL-22
Cadmium (Cd)-Dissolved			<0.0000050		mg/L		0.000005	21-JUL-22
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	21-JUL-22
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	21-JUL-22
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-22
Phosphorus (P)-Dissolved			<0.030		mg/L		0.03	21-JUL-22
Potassium (K)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	21-JUL-22
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	21-JUL-22
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	21-JUL-22
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5827988								
WG3751081-1 MB								
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	21-JUL-22
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	21-JUL-22
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	21-JUL-22
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	21-JUL-22
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	21-JUL-22
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	21-JUL-22
MET-T-CCMS-WP	**Water**							
Batch R5827988								
WG3750680-2 LCS								
Aluminum (Al)-Total			105.4		%		80-120	21-JUL-22
Antimony (Sb)-Total			102.8		%		80-120	21-JUL-22
Arsenic (As)-Total			102.0		%		80-120	21-JUL-22
Barium (Ba)-Total			107.6		%		80-120	21-JUL-22
Beryllium (Be)-Total			112.1		%		80-120	21-JUL-22
Bismuth (Bi)-Total			103.1		%		80-120	21-JUL-22
Boron (B)-Total			107.8		%		80-120	21-JUL-22
Cadmium (Cd)-Total			102.5		%		80-120	21-JUL-22
Calcium (Ca)-Total			108.6		%		80-120	21-JUL-22
Cesium (Cs)-Total			107.7		%		80-120	21-JUL-22
Chromium (Cr)-Total			102.8		%		80-120	21-JUL-22
Cobalt (Co)-Total			103.1		%		80-120	21-JUL-22
Copper (Cu)-Total			100.7		%		80-120	21-JUL-22
Iron (Fe)-Total			97.7		%		80-120	21-JUL-22
Lead (Pb)-Total			96.2		%		80-120	21-JUL-22
Lithium (Li)-Total			114.2		%		80-120	21-JUL-22
Magnesium (Mg)-Total			102.0		%		80-120	21-JUL-22
Manganese (Mn)-Total			107.0		%		80-120	21-JUL-22
Molybdenum (Mo)-Total			109.7		%		80-120	21-JUL-22
Nickel (Ni)-Total			101.8		%		80-120	21-JUL-22
Potassium (K)-Total			106.1		%		80-120	21-JUL-22
Phosphorus (P)-Total			117.8		%		80-120	21-JUL-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	**Water**							
Batch R5827988								
WG3750680-2 LCS								
Rubidium (Rb)-Total			100.2		%		80-120	21-JUL-22
Selenium (Se)-Total			96.7		%		80-120	21-JUL-22
Silicon (Si)-Total			109.0		%		80-120	21-JUL-22
Silver (Ag)-Total			109.1		%		80-120	21-JUL-22
Sodium (Na)-Total			104.9		%		80-120	21-JUL-22
Strontium (Sr)-Total			110.8		%		80-120	21-JUL-22
Sulfur (S)-Total			105.4		%		80-120	21-JUL-22
Tellurium (Te)-Total			107.3		%		80-120	21-JUL-22
Thallium (Tl)-Total			100.8		%		80-120	21-JUL-22
Thorium (Th)-Total			96.9		%		80-120	21-JUL-22
Tin (Sn)-Total			104.1		%		80-120	21-JUL-22
Titanium (Ti)-Total			104.8		%		80-120	21-JUL-22
Tungsten (W)-Total			99.5		%		80-120	21-JUL-22
Uranium (U)-Total			99.7		%		80-120	21-JUL-22
Vanadium (V)-Total			103.2		%		80-120	21-JUL-22
Zinc (Zn)-Total			101.4		%		80-120	21-JUL-22
Zirconium (Zr)-Total			107.8		%		80-120	21-JUL-22
WG3750680-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	21-JUL-22
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Arsenic (As)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Barium (Ba)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Boron (B)-Total			<0.010		mg/L		0.01	21-JUL-22
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	21-JUL-22
Calcium (Ca)-Total			<0.050		mg/L		0.05	21-JUL-22
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Copper (Cu)-Total			<0.00050		mg/L		0.0005	21-JUL-22
Iron (Fe)-Total			<0.010		mg/L		0.01	21-JUL-22
Lead (Pb)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Lithium (Li)-Total			<0.0010		mg/L		0.001	21-JUL-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	**Water**							
Batch R5827988								
WG3750680-1 MB								
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	21-JUL-22
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	21-JUL-22
Potassium (K)-Total			<0.050		mg/L		0.05	21-JUL-22
Phosphorus (P)-Total			<0.030		mg/L		0.03	21-JUL-22
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Selenium (Se)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Silicon (Si)-Total			<0.10		mg/L		0.1	21-JUL-22
Silver (Ag)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Sodium (Na)-Total			<0.050		mg/L		0.05	21-JUL-22
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Sulfur (S)-Total			<0.50		mg/L		0.5	21-JUL-22
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Tin (Sn)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	21-JUL-22
Tungsten (W)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Uranium (U)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Vanadium (V)-Total			<0.00050		mg/L		0.0005	21-JUL-22
Zinc (Zn)-Total			<0.0030		mg/L		0.003	21-JUL-22
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Batch R5828431								
WG3750222-2 LCS								
Aluminum (Al)-Total			111.5		%		80-120	21-JUL-22
Antimony (Sb)-Total			113.5		%		80-120	21-JUL-22
Arsenic (As)-Total			107.3		%		80-120	21-JUL-22
Barium (Ba)-Total			108.3		%		80-120	21-JUL-22
Beryllium (Be)-Total			116.8		%		80-120	21-JUL-22
Bismuth (Bi)-Total			107.6		%		80-120	21-JUL-22
Boron (B)-Total			114.1		%		80-120	21-JUL-22
Cadmium (Cd)-Total			108.9		%		80-120	21-JUL-22
Calcium (Ca)-Total			109.0		%		80-120	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	**Water**							
Batch R5828431								
WG3750222-2 LCS								
Cesium (Cs)-Total			104.9		%		80-120	21-JUL-22
Chromium (Cr)-Total			109.3		%		80-120	21-JUL-22
Cobalt (Co)-Total			108.1		%		80-120	21-JUL-22
Copper (Cu)-Total			106.9		%		80-120	21-JUL-22
Iron (Fe)-Total			105.3		%		80-120	21-JUL-22
Lead (Pb)-Total			107.2		%		80-120	21-JUL-22
Lithium (Li)-Total			122.8	MES	%		80-120	21-JUL-22
Magnesium (Mg)-Total			123.0	MES	%		80-120	21-JUL-22
Manganese (Mn)-Total			109.8		%		80-120	21-JUL-22
Molybdenum (Mo)-Total			105.3		%		80-120	21-JUL-22
Nickel (Ni)-Total			108.2		%		80-120	21-JUL-22
Potassium (K)-Total			108.6		%		80-120	21-JUL-22
Phosphorus (P)-Total			114.2		%		80-120	21-JUL-22
Rubidium (Rb)-Total			109.1		%		80-120	21-JUL-22
Selenium (Se)-Total			102.7		%		80-120	21-JUL-22
Silicon (Si)-Total			110.5		%		80-120	21-JUL-22
Silver (Ag)-Total			103.8		%		80-120	21-JUL-22
Sodium (Na)-Total			115.7		%		80-120	21-JUL-22
Strontium (Sr)-Total			111.3		%		80-120	21-JUL-22
Sulfur (S)-Total			109.8		%		80-120	21-JUL-22
Tellurium (Te)-Total			98.0		%		80-120	21-JUL-22
Thallium (Tl)-Total			105.8		%		80-120	21-JUL-22
Thorium (Th)-Total			102.3		%		80-120	21-JUL-22
Tin (Sn)-Total			103.9		%		80-120	21-JUL-22
Titanium (Ti)-Total			107.5		%		80-120	21-JUL-22
Tungsten (W)-Total			105.0		%		80-120	21-JUL-22
Uranium (U)-Total			105.7		%		80-120	21-JUL-22
Vanadium (V)-Total			109.8		%		80-120	21-JUL-22
Zinc (Zn)-Total			108.4		%		80-120	21-JUL-22
Zirconium (Zr)-Total			100.5		%		80-120	21-JUL-22
WG3750222-1 MB								
Aluminum (Al)-Total			<0.0030		mg/L		0.003	21-JUL-22
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Arsenic (As)-Total			<0.00010		mg/L		0.0001	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	**Water**							
Batch R5828431								
WG3750222-1 MB								
Barium (Ba)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Beryllium (Be)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Bismuth (Bi)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Boron (B)-Total			<0.010		mg/L		0.01	21-JUL-22
Cadmium (Cd)-Total			<0.0000050		mg/L		0.000005	21-JUL-22
Calcium (Ca)-Total			<0.050		mg/L		0.05	21-JUL-22
Cesium (Cs)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Chromium (Cr)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Copper (Cu)-Total			<0.00050		mg/L		0.0005	21-JUL-22
Iron (Fe)-Total			<0.010		mg/L		0.01	21-JUL-22
Lead (Pb)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Lithium (Li)-Total			<0.0010		mg/L		0.001	21-JUL-22
Magnesium (Mg)-Total			<0.0050		mg/L		0.005	21-JUL-22
Manganese (Mn)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Molybdenum (Mo)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Nickel (Ni)-Total			<0.00050		mg/L		0.0005	21-JUL-22
Potassium (K)-Total			<0.050		mg/L		0.05	21-JUL-22
Phosphorus (P)-Total			<0.030		mg/L		0.03	21-JUL-22
Rubidium (Rb)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Selenium (Se)-Total			<0.000050		mg/L		0.00005	21-JUL-22
Silicon (Si)-Total			<0.10		mg/L		0.1	21-JUL-22
Silver (Ag)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Sodium (Na)-Total			<0.050		mg/L		0.05	21-JUL-22
Strontium (Sr)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Sulfur (S)-Total			<0.50		mg/L		0.5	21-JUL-22
Tellurium (Te)-Total			<0.00020		mg/L		0.0002	21-JUL-22
Thallium (Tl)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Thorium (Th)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Tin (Sn)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Titanium (Ti)-Total			<0.00030		mg/L		0.0003	21-JUL-22
Tungsten (W)-Total			<0.00010		mg/L		0.0001	21-JUL-22
Uranium (U)-Total			<0.000010		mg/L		0.00001	21-JUL-22
Vanadium (V)-Total			<0.00050		mg/L		0.0005	21-JUL-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WP	**Water**							
Batch R5828431								
WG3750222-1 MB								
Zinc (Zn)-Total			<0.0030		mg/L		0.003	21-JUL-22
Zirconium (Zr)-Total			<0.00020		mg/L		0.0002	21-JUL-22
NH3-COL-WP	**Water**							
Batch R5827421								
WG3751185-39 DUP		**L2722873-9**						
Ammonia, Total (as N)		0.014	0.014		mg/L	2.0	20	20-JUL-22
WG3751185-30 LCS								
Ammonia, Total (as N)			103.0		%		85-115	20-JUL-22
WG3751185-34 LCS								
Ammonia, Total (as N)			103.3		%		85-115	20-JUL-22
WG3751185-38 LCS								
Ammonia, Total (as N)			104.7		%		85-115	20-JUL-22
WG3751185-29 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	20-JUL-22
WG3751185-33 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	20-JUL-22
WG3751185-37 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	20-JUL-22
WG3751185-40 MS		**L2722873-9**						
Ammonia, Total (as N)			96.2		%		75-125	20-JUL-22
Batch R5828570								
WG3752353-2 LCS								
Ammonia, Total (as N)			100.8		%		85-115	25-JUL-22
WG3752353-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	25-JUL-22
Batch R5830199								
WG3753210-2 LCS								
Ammonia, Total (as N)			97.2		%		85-115	27-JUL-22
WG3753210-1 MB								
Ammonia, Total (as N)			<0.010		mg/L		0.01	27-JUL-22
NO2-IC-N-WP	**Water**							
Batch R5826916								
WG3750217-7 DUP		**L2722873-10**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	18-JUL-22
WG3750217-2 LCS								
Nitrite (as N)			98.3		%		90-110	18-JUL-22
WG3750217-6 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-N-WP	**Water**							
Batch R5826916								
WG3750217-6 LCS								
Nitrite (as N)			98.2		%		90-110	18-JUL-22
WG3750217-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	18-JUL-22
WG3750217-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	18-JUL-22
WG3750217-8 MS		**L2722873-10**						
Nitrite (as N)			98.9		%		75-125	18-JUL-22
NO3-IC-N-WP	**Water**							
Batch R5826916								
WG3750217-7 DUP		**L2722873-10**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	20	18-JUL-22
WG3750217-2 LCS								
Nitrate (as N)			98.8		%		90-110	18-JUL-22
WG3750217-6 LCS								
Nitrate (as N)			98.9		%		90-110	18-JUL-22
WG3750217-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	18-JUL-22
WG3750217-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	18-JUL-22
WG3750217-8 MS		**L2722873-10**						
Nitrate (as N)			98.7		%		75-125	18-JUL-22
P-T-COL-WP	**Water**							
Batch R5836262								
WG3754265-11 DUP		**L2722873-16**						
Phosphorus (P)-Total		0.0098	0.0093		mg/L	4.7	20	04-AUG-22
WG3754265-6 LCS								
Phosphorus (P)-Total			99.7		%		80-120	04-AUG-22
WG3754265-5 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	04-AUG-22
WG3754265-9 MB								
Phosphorus (P)-Total			<0.0030		mg/L		0.003	04-AUG-22
WG3754265-12 MS		**L2722873-17**						
Phosphorus (P)-Total			101.2		%		70-130	04-AUG-22
PH-WP	**Water**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WP	**Water**							
Batch R5826879								
WG3751046-36 DUP		**L2722873-13**						
pH		7.44	7.44	J	pH units	0.00	0.2	20-JUL-22
WG3751046-22 LCS								
pH			7.03		pH units		6.9-7.1	20-JUL-22
WG3751046-27 LCS								
pH			7.02		pH units		6.9-7.1	20-JUL-22
SOLIDS-TOTSUS-WP	**Water**							
Batch R5828369								
WG3750926-6 DUP		**L2722873-12**						
Total Suspended Solids		<3.0	<3.0	RPD-NA	mg/L	N/A	20	21-JUL-22
WG3750926-2 LCS								
Total Suspended Solids			103.2		%		85-115	21-JUL-22
WG3750926-5 LCS								
Total Suspended Solids			98.2		%		85-115	21-JUL-22
WG3750926-1 MB								
Total Suspended Solids			<3.0		mg/L		3	21-JUL-22
WG3750926-4 MB								
Total Suspended Solids			<3.0		mg/L		3	21-JUL-22
TDS-WP	**Water**							
Batch R5828605								
WG3750921-2 LCS								
Total Dissolved Solids			97.8		%		85-115	21-JUL-22
WG3750921-5 LCS								
Total Dissolved Solids			97.3		%		85-115	21-JUL-22
WG3750921-1 MB								
Total Dissolved Solids			<4.0		mg/L		4	21-JUL-22
WG3750921-4 MB								
Total Dissolved Solids			<4.0		mg/L		4	21-JUL-22

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
pH							
	1	15-JUL-22 14:28	20-JUL-22 09:54	0.25	115	hours	EHTR-FM
	2	15-JUL-22 15:10	20-JUL-22 09:54	0.25	115	hours	EHTR-FM
	3	15-JUL-22 14:50	20-JUL-22 09:54	0.25	115	hours	EHTR-FM
	4	15-JUL-22 14:15	20-JUL-22 09:54	0.25	116	hours	EHTR-FM
	5	15-JUL-22 13:45	20-JUL-22 09:54	0.25	116	hours	EHTR-FM
	6	15-JUL-22 13:30	20-JUL-22 09:54	0.25	116	hours	EHTR-FM
	7	16-JUL-22 12:37	20-JUL-22 09:54	0.25	93	hours	EHTR-FM
	8	16-JUL-22 13:00	20-JUL-22 09:54	0.25	93	hours	EHTR-FM
	9	16-JUL-22 13:15	20-JUL-22 09:54	0.25	93	hours	EHTR-FM
	10	16-JUL-22 07:45	20-JUL-22 09:54	0.25	98	hours	EHTR-FM
	11	16-JUL-22 08:00	20-JUL-22 09:54	0.25	98	hours	EHTR-FM
	12	16-JUL-22 08:20	20-JUL-22 09:54	0.25	98	hours	EHTR-FM
	13	16-JUL-22 08:40	20-JUL-22 09:54	0.25	97	hours	EHTR-FM
	14	16-JUL-22 08:55	20-JUL-22 09:54	0.25	97	hours	EHTR-FM
	15	16-JUL-22 09:15	20-JUL-22 09:54	0.25	97	hours	EHTR-FM
	16	16-JUL-22 09:40	20-JUL-22 09:54	0.25	96	hours	EHTR-FM
	17	16-JUL-22 10:00	20-JUL-22 09:54	0.25	96	hours	EHTR-FM
	18	16-JUL-22 10:25	20-JUL-22 09:54	0.25	96	hours	EHTR-FM
	19	16-JUL-22 10:48	20-JUL-22 09:54	0.25	95	hours	EHTR-FM
	20	16-JUL-22	20-JUL-22 09:54	0.25	94	hours	EHTR-FM
	21	16-JUL-22	20-JUL-22 09:54	0.25	94	hours	EHTR-FM
	22	16-JUL-22	20-JUL-22 09:54	0.25	94	hours	EHTR-FM

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2722873 were received on 18-JUL-22 10:45.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

L2722873-COFC

ALS www.alsglobal.com

Page 1 of 2

Report To		Report Format / Distribution	Turnaround Time (TAT) Requested
Company:	Hemmera	Select Report Format: PDF EXCEL EDD (DIGITAL)	Regular (Standard TAT if received by 3 pm - business days)
Contact:	Alex Therriault / Nelson Debogorski	Merge QC/QCI Reports with COC: YES NO	4 day [P4] if received by 3 pm - 50% rush surcharge minimum
Phone:	604-955-1400	Compare Results to Criteria on Report - provide details below if box checked: YES NO	3 day [P3] if received by 3 pm - 75% rush surcharge minimum
Company address below will appear on the final report		Select Distribution: EMAIL FAX	2 day [P2] if received by 3 pm - 100% rush surcharge minimum
Street:	4915 Central Blvd Ste B	Email 1: Alex.Therriault@hemmeracan	Same day [E] if received by 3 pm - 200% rush surcharge minimum
City/Province:	Burnaby, BC	Email 2: Nelson.Debogorski@hemmeracan	Date and Time Required for all E&P TATs:
Postal Code:	V5H 0C6	Email 3:	For all tests with rush TATs requested, please contact your AM to confirm availability.
Invoice To	Same as Report To: YES NO	Invoice Recipients	Analysis Requested
	Copy of Invoice with Report: YES NO	Select Invoice Distribution: EMAIL MAIL FAX	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below
Company:		Email 1 or Fax:	
Contact:		Email 2:	
Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center: PO#	
Job #:	106892-01	Major/Minor Code: Routing Code:	
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact: Sampler:	

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	SAMPLES ON HOLD
1	WQ9	15-Jul-22	1428	H2O	9	X
2	WQ 7		1510			X
3	WQ8		1450			X
4	WQ10		1415			X
5	WQ 15		1345			X
6	WQ 4		1330			X
7	WQ17	16-Jul-22	12:37			X
8	WQ 20		13:00			X
9	WQ16		13:15			X
10	WQ14		07:45			X
11	WQ 24		08:00			X
12	WQ 23		08:20			X

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? YES NO

Are samples for human consumption/use? YES NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

ALS failed to provide Syringes + filters. All dissolved samples contain no preservative and were not filtered

SHIPMENT RELEASE (client use)

Released by: Alex Therriault Date: July 18, 2022 Time: 0700

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: NONE ICE ICE PACKS FROZEN

Submission Comments identified on Separate Attachment

Cooler Custody Seals Intact: YES NO N/A Sample Custody Seals Intact: YES NO N/A

COOLER TEMPERATURES °C

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by: Date: JUL 2022

FINAL SHIPMENT RECEPTION (ALS use only)

Received by: Date:

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Appendix G

Dustfall Analytical Results

Ausenco Sustainability Inc
ATTN: NELSON DEBOGORSKI
1020-800 WEST PENDER STREET
VANCOUVER BC V6C 2V6

Date Received: 15-SEP-22
Report Date: 30-SEP-22 06:54 (MT)
Version: FINAL

Client Phone: 604-669-0424

Certificate of Analysis

Lab Work Order #: L2733171
Project P.O. #: NOT SUBMITTED
Job Reference: VALORE METALS
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 20-SEP-22 14:42

Hua Wo
Chemistry Laboratory Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L2733171-1	L2733171-2	L2733171-3	L2733171-4	
Description	DUST FALL	DUST FALL	DUST FALL	DUST FALL	
Sampled Date	13-SEP-22	13-SEP-22	13-SEP-22	13-SEP-22	
Sampled Time	14:25	14:34	14:45	12:10	
Client ID	DF1	DF2	DF3	DF4	
Grouping / **Analyte**					
DUSTFALL					
Particulates Total Dustfall (mg/dm2.day)	<0.11	0.30	0.32	0.31	
Metals Aluminum (Al)-Total (mg/dm2.day)	0.000331	0.000150	0.000213	0.000127	
Antimony (Sb)-Total (mg/dm2.day)	<0.0000022	<0.0000021	<0.0000023	<0.0000023	
Arsenic (As)-Total (mg/dm2.day)	<0.0000022	<0.0000021	<0.0000023	<0.0000023	
Barium (Ba)-Total (mg/dm2.day)	0.0000134	0.0000342	0.0000345	0.0000570	
Beryllium (Be)-Total (mg/dm2.day)	<0.000011	<0.000010	<0.000011	<0.000012	
Bismuth (Bi)-Total (mg/dm2.day)	<0.000011	<0.000010	<0.000011	<0.000012	
Boron (B)-Total (mg/dm2.day)	<0.00022	<0.00021	<0.00023	<0.00023	
Cadmium (Cd)-Total (mg/dm2.day)	<0.0000011	<0.0000010	<0.0000011	<0.0000012	
Calcium (Ca)-Total (mg/dm2.day)	0.00077	0.00405	0.00899	0.00272	
Chromium (Cr)-Total (mg/dm2.day)	<0.000011	<0.000010	<0.000011	<0.000012	
Cobalt (Co)-Total (mg/dm2.day)	<0.0000022	<0.0000021	<0.0000023	<0.0000023	
Copper (Cu)-Total (mg/dm2.day)	<0.000011	<0.000010	0.000012	<0.000012	
Iron (Fe)-Total (mg/dm2.day)	<0.00066	<0.00062	<0.00068	<0.00070	
Lead (Pb)-Total (mg/dm2.day)	<0.0000011	0.0000013	<0.0000011	<0.0000012	
Lithium (Li)-Total (mg/dm2.day)	<0.00011	<0.00010	<0.00011	<0.00012	
Magnesium (Mg)-Total (mg/dm2.day)	0.00038	0.00065	0.00234	0.00094	
Manganese (Mn)-Total (mg/dm2.day)	0.0000427	0.0000506	0.000118	0.0000641	
Molybdenum (Mo)-Total (mg/dm2.day)	<0.0000011	<0.0000010	<0.0000011	0.0000015	
Nickel (Ni)-Total (mg/dm2.day)	<0.000011	<0.000010	<0.000011	<0.000012	
Phosphorus (P)-Total (mg/dm2.day)	<0.0011	0.0014	0.0071	<0.0012	
Potassium (K)-Total (mg/dm2.day)	<0.0011	0.0022	0.0102	0.0029	
Selenium (Se)-Total (mg/dm2.day)	<0.000022	<0.000021	<0.000023	<0.000023	
Silicon (Si)-Total (mg/dm2.day)	<0.0011	<0.0010	<0.0011	<0.0012	
Silver (Ag)-Total (mg/dm2.day)	<0.00000022	<0.00000021	<0.00000023	<0.00000023	
Sodium (Na)-Total (mg/dm2.day)	<0.0011	0.0027	0.0092	0.0068	
Strontium (Sr)-Total (mg/dm2.day)	0.0000043	0.0000093	0.0000217	0.0000117	
Thallium (Tl)-Total (mg/dm2.day)	<0.0000022	<0.0000021	<0.0000023	<0.0000023	
Tin (Sn)-Total (mg/dm2.day)	<0.0000022	0.0000102	0.0000311	<0.0000023	
Titanium (Ti)-Total (mg/dm2.day)	<0.00022	<0.00021	<0.00023	<0.00023	
Uranium (U)-Total (mg/dm2.day)	<0.00000022	<0.00000021	<0.00000023	<0.00000023	
Vanadium (V)-Total (mg/dm2.day)	<0.000022	<0.000021	<0.000023	<0.000023	
Zinc (Zn)-Total (mg/dm2.day)	<0.000066	0.000066	0.000070	0.000101	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Barium (Ba)-Total	DUP-H	L2733171-1, -2, -3, -4

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
DUSTFALLS-T.DM2-VA	Dustfall	Dustfalls Total+Fixed & Vol (mg/dm2.day)	BCMOE DUSTFALLS

Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.

MET-DUST(DM2)-MS-VA	Dustfall	Total Metals in Dustfalls by ICPMS	EPA 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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L2733171-COFC

st Form

COC Number: 20 - 961305

Page of

Report To	Contact and company name below will appear on the final report	Select Report Format: ☐ PDF ☑ EXCEL ☐ EDD (DIGITAL)	Turnaround Time (TAT) Requested	AFFIX ALS BARCODE LABEL HERE (ALS use only)
Company:	VALORE METALS CORP.	Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A	☐ Routine [R] If received by 3pm M-F - no surcharges apply	
Contact:	Nelson Debogorski	☐ Compare Results to Criteria on Report - provide details below if box checked	☐ 4 day [P4] If received by 3pm M-F - 20% rush surcharge minimum	
Phone:	647-668-4255	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	☐ 3 day [P3] If received by 3pm M-F - 25% rush surcharge minimum	
	Company address below will appear on the final report	Email 1 or Fax: Alex.Imeri@thermuera.com	☐ 2 day [P2] If received by 3pm M-F - 50% rush surcharge minimum	
Street:	1020 - 800 West Pender St	Email 2: Nelson.Debogorski@thermuera.com	☐ 1 day [E] If received by 3pm M-F - 100% rush surcharge minimum	
City/Province:	Vancouver B.C	Email 3:	☐ Same day [E2] If received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests	
Postal Code:	V6E 2V6		Date and Time Required for all E&P TATs:	dd-mmm-yy hh:mm am/pm
Invoice To	Same as Report To ☑ YES ☐ NO	**Invoice Recipients**	For all tests with rush TATs requested, please contact your AM to confirm availability.	
	Copy of Invoice with Report ☑ YES ☐ NO	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	**Analysis Request**	
Company:		Email 1 or Fax: Nelson.Debogorski@thermuera.com		
Contact:		Email 2:		

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#:
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler:

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below: Total Metals	Total Metals (Particulates)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	DF 1	16 Aug 22	14H25	Dust	1	X	X			
		TO								
		13 SEPT 22	11H42							
	DF 2	16 AUG 22	14H34	DUST	1	X	X			
		TO								
		13 SEPT 22	11H50							
	DF 3	16 AUG 22	14H45	DUST	1	X	X			
		TO								
		13 SEPT 22	11H58							
	DF 4	16 AUG 22	15H05	DUST	1	X	X			
		TO								
		13 SEPT 22	12H10							

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments Identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
20.8							

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date:	Time:	Received by:	Date: SEP 15 2022	Time: 3:21	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Appendix H

Caribou Monitoring Plan

Angilak Environmental Baseline Monitoring - Caribou Monitoring Plan

Prepared for:

ValOre Metals Corp
1020 – 800 West Pender St.
Vancouver, BC V6C 2V6

Project No. 106892-01

December 21, 2022

Prepared by:

Ausenco Sustainability Inc.
401 – 9 Avenue SW, Suite 1430
Calgary, AB, Canada T2P 3C4
T +1.403.264.0671
F +1.403.264.0670
W ausenco.com

Table of Contents

1.0 Introduction 1

2.0 Background 2

2.1 Qamanirjuaq Caribou Herd 2

2.2 Previous Caribou Monitoring 4

3.0 Monitoring Surveys 5

3.1 Wildlife Incidental Observation Log 5

3.2 Wildlife Incident and Mortality Log 5

3.3 Caribou Count Surveys 6

3.3.1 Survey Stations 6

3.3.2 Sampling Effort 6

3.4 Remote Camera Monitoring 7

3.4.1 Zone of Influence Monitoring 7

3.4.2 Water Crossing Monitoring 7

3.5 Reporting 7

4.0 Closure 8

5.0 References 9

List of Tables

Table 1 Angilak Project Incidental Wildlife, Wildlife Interactions, and Caribou Reporting Requirements. 8

List of Figures

Figure 1 Caribou Telemetry Locations and Habitat in Angilak Project Area. 3

Appendices

Appendix A Wildlife Incidental Observation Log

1.0 Introduction

Ausenco Sustainability Inc. (Ausenco), a wholly owned subsidiary of Ausenco Engineering Canada Inc., was retained by ValOre Metal Corp (ValOre) to complete a Caribou (*Rangifer tarandus*) Monitoring Plan (CMP) for the Angilak Uranium Project (the Project). The Project is situated in the Kivalliq region on crown and indigenous owned land (IOL). The Project consists of 53 active mineral claims, 1 mineral lease, and current infrastructure includes the Nutaaq camp, an airstrip, and a temporary camp. ValOre (formerly Kivalliq Energy Corp.) completed a drilling program in 2022 in the Project area (April to September) and conducted environmental baseline data collection.

Ausenco (formerly Hemmera) previously completed a Caribou Monitoring Plan for the Project in 2012 in the *Angilak Project Environmental Monitoring Program 2011 Summary* (Hemmera 2013). To meet current permitting requirements and extend the monitoring area to include new drilling locations, Ausenco has developed this Caribou Monitoring Plan. The purpose of the CMP remains the same as it previously was; to capture data in a standardized manner relevant to potential future environmental baseline study requirements while remaining within a scale and scope consistent with ValOre's proposed exploration program. This CMP provides a brief background on the Qamanirjuaq herd that overlaps with the Project footprint, a description of the previous CMP, and an updated monitoring protocol.

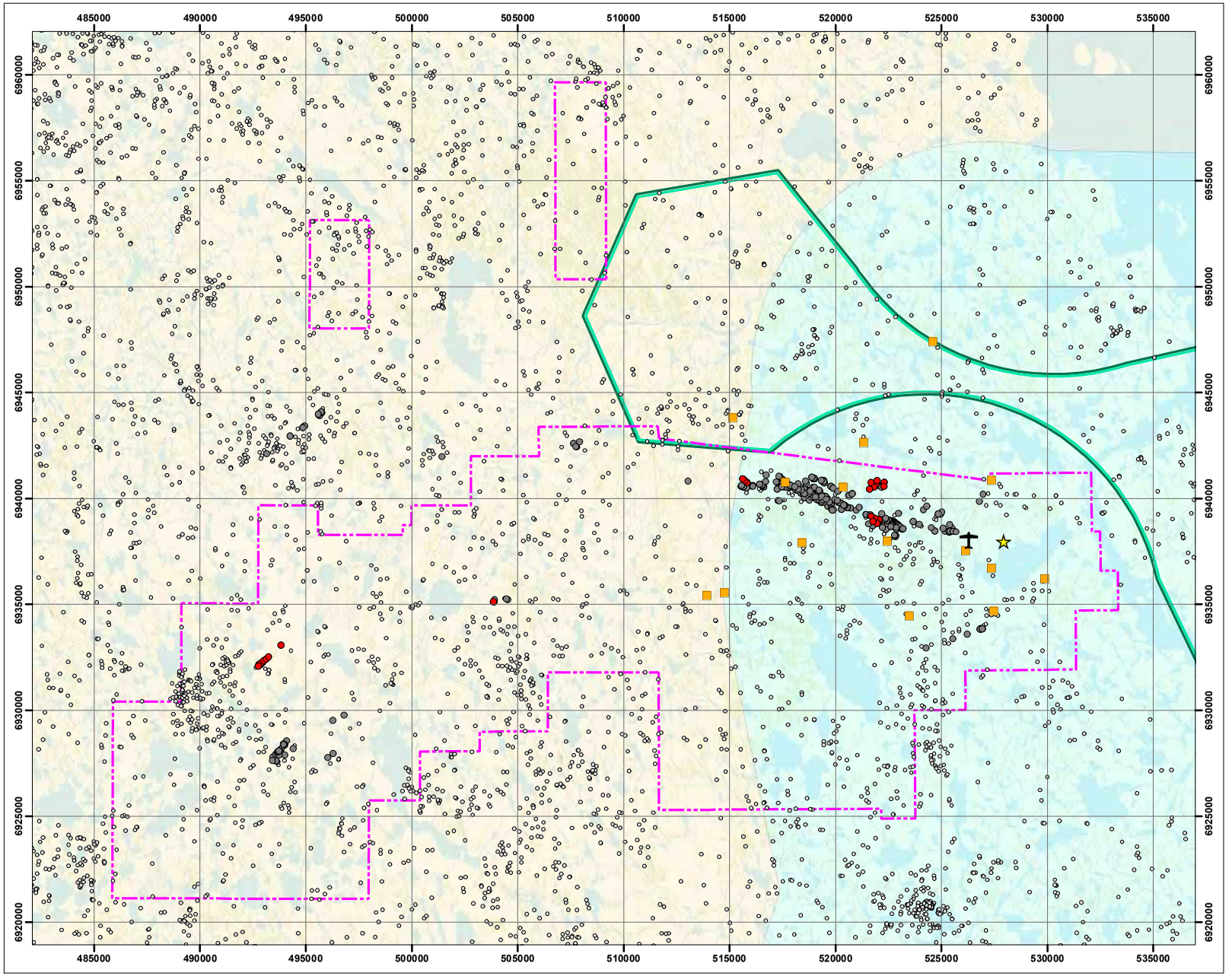
The CMP is intended to be a living document that will be updated as required. To engage with regulatory boards and government advisory committees, the CMP will be sent to the Kivalliq Inuit Association (KIA), Government of Nunavut Department of Environment, and the Inuit Environment Advisory Board for consultation. Any comments received on this CMP or changes made to it will be tracked.

2.0 Background

2.1 Qamanirjuaq Caribou Herd

The Qamanirjuaq caribou are barren ground caribou with a range that overlaps Nunavut, Northwest Territories, Saskatchewan, and Manitoba. The heard calves near Qamanirjuaq Lake in the Kivalliq Region of Nunavut in the spring (BQCMB 2014). During winter the Qamanirjuaq herd migrates south to wintering grounds that it is shares with the Beverly herd in southeastern Northwest Territories (NWT) and northeastern Saskatchewan. During non-winter and non-calving periods the Qamanirjuaq herd is primarily found in the Kivalliq region and inland from Hudson Bay (BQCMB 2014). The herd primarily moves through the Project area during the calving migration and post-calving migration (Figure 1) (Hemmera 2012, 2013). Due to the cultural significance of caribou to Indigenous people and the complexities of managing caribou across jurisdictional boundaries, the Beverly and Qamanirjuaq Caribou Management Board (BQCMB) was established to monitor caribou populations and provide recommendations on caribou management to the governments of Canada, Nunavut, NWT, and Manitoba.

Population surveys and calving ground density surveys suggest that the Qamanirjuaq herd is declining (BQCMB 2014). Between 2008 and 2012 the density of caribou at calving grounds declined by 10 to 20% (BQCMB 2014). The Beverley and Qamanirjuaq herds are believed to be under threat from irresponsible hunting practices, climate, and industrial exploration and development projects, such as hydroelectric dams, roads, and mining (BQCMB 2014, 2021, COSEWIC 2016). Barren ground caribou are listed as threatened in the NWT, and are considered a threatened species by the Committee on the Status of Endangered Wildlife in Canada. The listing of barren ground caribou as threatened under the Canadian *Species At Risk Act* is supported by the BQCMB (BQCMB 2021), however, it is not currently supported by the Nunavut Wildlife Management Board (NWMB 2022).



Angilak Environmental Baseline Monitoring Program
Nunvaut

Caribou Monitoring Plan

Legend

- Nutaaq Camp
- Airstrip
- Proposed Drilling Location (2022)
- Drilling Location (1977 - 2015)
- Caribou Telemetry Location
- Historical Height of Land (HOL) Survey Station
- Site Boundary
- Caribou Post-Calving Area
- Caribou Rutting Area
- Caribou Summer and Late Summer Area

Notes

1. All mapped features are approximate and should be used for discussion purposes only.
2. This map is not intended to be a "stand-alone" document, but a visual aid of the information contained within the referenced Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

Sources

- Main Frame and Inset Basemap: ESRI World Topographic Map

N

1:175,000

0 2 4 6 8 10
Kilometres

NAD 1983 UTM Zone 14N

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106892-01	Production Date: Nov 16, 2022	Figure 1

Ausenco

ValOre Metals Corp.

2.2 Previous Caribou Monitoring

Previously collected caribou monitoring data consists of:

- Incidental observations (Hemmera 2010, 2012, 2013, ValOre 2022)
- Calving migration and post-calving migration counts (2011 to 2012) (Hemmera 2012, 2013)
- Behavioural observations and habitat use around anthropogenic disturbances (e.g., camp, camp-to-drill flight path, and drilling area) and undisturbed (control areas) (2010).

Incidental observations were collected by Kivalliq staff during exploration activities. The calving migration and post-calving migration counts and were completed from 13 height of land (HOL) stations that provided oversight of approximately 80% of the study area, which was a 5-km buffer around Project infrastructure (e.g., camp, dill sites) and the flight path between camp and the drill sites (Hemmera 2012). Behaviour and habitat use data was collected during the HOL surveys but was only collected in 2010 due to a change in the migratory pathway of caribou in 2011, such that caribou did not pass close enough to the HOL stations to complete the surveys. Behavioural data was collected by documenting the behaviour of a particular individual every 15 seconds for 30 minutes or until the individual was out of site. Habitat use data was collected by counting the number of caribou every 10 minutes in the following broad habitat types: vegetated lowlands, vegetated hilltop, vegetated hillside, and rock outcrop/boulder field.

The calving migration pulse through the Project area tends to last approximately one week and occurs around the last week of June and first week of July (Hemmera 2013). However, in 2012 a small group of caribou remained at the Project area for approximately 3 weeks starting in early June. The 2012 calving migration also changed compared to previous years and occurred further southeast by the Kazan River (Hemmera 2013). In 2011 and 2012 the post-calving migration occurred in the first week of August. With climate change, the timing of calving and post-calving migrations are likely more variable than they were historically (McNeil et al. 2005).

Counts between years and migration periods were highly variable (Hemmera 2012, 2013), which may have been due to different migratory pathways taken between years. The surveys only count caribou from a fixed area and should not be considered population counts for the entire herd. In 2011, caribou spent the majority of their time feeding (40 to 60%) and were predominately found in vegetated lowlands, which was also the most abundant habitat type (Hemmera 2012).

3.0 Monitoring Surveys

As a part of ValOre's KIA Land Use License (Number KVL308C09), they are required to monitor caribou. ValOre's KIA Land Use License requires a baseline monitoring plan and annual reporting (**Section 3.5**). Additionally, Inuit must be involved in baseline monitoring programs. Specific to caribou, wildlife monitoring personnel, must be present whenever caribou are reasonably expected to be present. ValOre is required to monitor the location and number of caribou on the Project site and report these to KIA. The previous wildlife monitoring plan (Hemmera 2012, 2013), was updated to meet monitoring requirement stipulated in this permit.

The updated CMP consists of four components: a wildlife incidental observation log, a wildlife incident and mortality log, caribou count surveys, and remote camera surveys.

3.1 Wildlife Incidental Observation Log

Wildlife incidental observations will be collected following the methods of previous monitoring years (Hemmera 2013, ValOre 2022). The overall objective of the Wildlife Incidental Observation Log is to describe wildlife use in the Project area and surrounding habitat, produce a species list, and document wildlife behaviour in the Project area.

Any species observations (individuals, tracks, or scat) within the Project area either on land or by air, outside of designated surveys, will be documented in the Wildlife Incidental Observation Log (**Appendix A**). Notes on general behavioural will be recorded when possible. Information documented will include:

- species
- age and sex
- number
- location
- human activity, if any
- wildlife behaviour at time of observation
- changes in wildlife behaviour associated with human activities
- weather
- comments.

The Wildlife Incidental Observation Log will be reviewed annually to update the Project species list and review changes to the numbers of species and individuals across monitoring years. Data will also be reviewed for any concerning wildlife behaviour, such as animals fleeing the area.

3.2 Wildlife Incident and Mortality Log

Wildlife interactions, incidents, and mortalities will be recorded to provide a record of these events and inform adaptive management actions. The KIA Land Use Permit requires that these incidents be recorded and reported on a quarterly basis to KIA. Incidents and interactions can include wildlife showing signs of habituation, human-wildlife encounters, wildlife eating human food or garbage, as well as observations of hunting.

The following information should be collected during each wildlife interaction, incident, or mortality:

- Date and time
- Location
- Species
- Description of event
- Actions taken to prevent future occurrences (if applicable), e.g., removal of wildlife attractant.

3.3 Caribou Count Surveys

As a part of the KIA Land Use Permit, caribou need to be monitored when they are present in the vicinity of the Project. The effort required to monitor caribou will depend on the time of year and the number of caribou observed.

3.3.1 Survey Stations

To monitor caribou, HOL stations will be used to count caribou. A total of 13 HOL stations were previously established to survey caribou during the calving and post-calving migration (**Figure 1**). Approximately 4 to 6 additional HOL survey stations will also be added to the western part of the Project boundary to provide coverage over the larger Project area within sight of proposed drilling locations. A reconnaissance flight will be required to identify the additional HOL stations prior to the 2023 monitoring period. The new stations will occur on land features that provide a good line of sight to count animals. These additional HOL stations will be outside IOL and are recommended to monitor caribou in the vicinity of the drilling locations and implement any required management actions if needed (ValOre 2022).

3.3.2 Sampling Effort

Daily monitoring of caribou must be completed if 10 or more caribou are observed on IOL within 50 km of the Project boundary between June 1 and July 15 (as per the KIA Land Use Permit). Between July 16 and September 30 monitoring must be completed every second day if 25 or more caribou are observed on IOL within 30 km of the Project boundary or on a daily basis if 25 or more caribou are observed within a 5 km buffer (as per the KIA Land Use Permit).

To provide consistent sampling effort between survey stations and year, time spent surveying at each station will last 20 minutes. Surveys will be restricted to weather conditions that are suitable for counting animals from the stations, i.e., clear weather with good visibility. Monitoring will be conducted by a team of two observers. If all HOL stations cannot be surveyed in a day, the stations on IOL will be prioritized and any remaining stations will be surveyed when there is time.

Data recorded will include: observers, location date, start time, end time, weather conditions, number of females, number of males, number of unidentified sex, direction of travel, comments on behaviours observed (e.g., feeding, resting, moving), general comments, and incidental observations of other species. During the post calving migration (around the first week of August), the sex-age class of individuals will also be recorded (calves, adult females, and adult males).

During migratory periods, the migration paths (length and approximate width) will be recorded on maps to provide an annual record of the movement corridors through the study area. This will be completed after the HOL surveys have been completed and observers have a sense of caribou movement corridors.

3.4 Remote Camera Monitoring

Due to natural variations in the migratory pathway of caribou between years (McNeil et al. 2005, COSEWIC 2016), the count surveys will not provide reliable data on impacts of Project infrastructure on caribou. To address this data gap and meet KIA Land Use Monitoring requirements that have been not addressed in the HOL count surveys, a remote camera monitoring program will be implemented to monitor behaviour around project infrastructure and at water crossings. The KIA Land Use Permit requires caribou monitoring at water crossings and monitoring if caribou are observed in proximity to the Project boundary between October 1 and May 3. The remote cameras will also serve an additional benefit of recording baseline data on other wildlife species present in the area.

3.4.1 Zone of Influence Monitoring

Caribou can be sensitive to anthropogenic disturbances and avoid anthropogenic features, such as roads, drill sites, and camps by large distances (Nellemann and Cameron 1996, Johnson et al. 2015). The distance to which caribou avoid these features is termed the zone of influence, and results in habitat loss (Johnson et al. 2015).

Similar to the TMAC monitoring program (TMAC Resources 2019), a set of 3 cameras will be set up to monitor the zone of influence of the Nutaaq camp, temporary (west) camp, and the airstrip. One camera will be set up close to the project infrastructure, within 500 m. A second camera will be set up within the zone of influence, between 500 m and 4 km (Nellemann and Cameron 1996), and a third camera in a control area outside the zone of influence, between 4 and 10 km away from an anthropogenic a disturbance. Locations of cameras within the zone of influence and the control area will be a randomly selected location in vegetated lowland, which was the most abundant and most commonly used habitat type during previous monitoring (Hemmera 2012). The zone of influence of the airstrip and Nutaaq camp will overlap, to monitor over a larger area, cameras in the zone of influence of these features will be placed far away from one another (e.g., >2 km away). As the temporary camp moves location, the cameras will be moved to keep them within the aforementioned zones, as required. Additional cameras will be added if more Project infrastructure (e.g., buildings, roads) are added.

3.4.2 Water Crossing Monitoring

Remote cameras will be used to meet KIA Land Use permit requirements to monitor caribou at water crossings on IOL. The remote cameras will be set up at water crossings on IOL, focusing on areas that caribou were previously documented to move through (Hemmera 2012, 2013).

3.5 Reporting

As per the KIA land use permit and ValOre's Environmental and Wildlife Management Plan (ValOre 2022), ValOre is required to submit written reports on incidental wildlife observations, wildlife interaction, and caribou (Table 1).

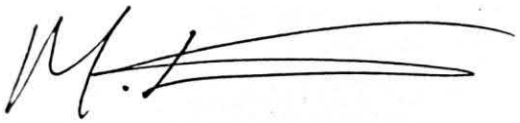
Table 1 Angilak Project Incidental Wildlife, Wildlife Interactions, and Caribou Reporting Requirements.

Report	Timing	Agency Submitted To
Wildlife sightings and interactions	Quarterly basis	KIA
Wildlife sightings and interactions	Annual	KIA, Crown-Indigenous Relations and Northern Affairs Canada, and Nunavut Impact Review Board
Incidents that result in killing or relocation of wildlife	Immediately following incident	KIA
Presence of caribou (location and estimated numbers)	Immediately, as per monitoring requirements stated in **Sections 3.3.1** to **3.4.2**.	KIA and Government of Nunavut (large herd sightings)

4.0 Closure

We sincerely appreciate the opportunity to have assisted you with this project and if there are any questions, please do not hesitate to contact the undersigned by phone at 604.669.0424.

Report prepared by:
Ausenco



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Appendix A

Wildlife Incidental Observation Log

Appendix A Wildlife Incidental Observation Log

Date	Observer Name	Time	Location	Distance from location if applicable	NAD 83 Zone 14		Wildlife Species	Tracks or signs only	# of Individuals	# of Individuals observed (0 if observed before this year)	# of Observations	Comments on animal (sex, age, color pattern, doubt on identification, general comment on species)	Behaviour when first observed	Habitat (staging waterfowl only)	Traveling towards …	Observer activitiy	Possible animal-disturbing activities around?	Did the wildlife change their behaviour?	New behavior or extra behavior		Explain why if necessay	General comments and other behaviour observed	Scat	Scat Age	Particular weather		Photo
					UTM Est	UTM North		Put in X if yes					4 Legged	Bird				Put in X if yes	4 Legged	Bird			Put in X if yes	(Fresh/Old)	Wind	Weather	Put in X if yes
																											X

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APPENDIX G

2022 Incidental Wildlife Sightings

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?: 2

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/24/2022

b. Time (exact or approximate): 8:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Adult Size, White

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Scared, ran away

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 3 weeks

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572935 -98.460148 b. Datum: NAD83

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
North of the burns
Heading North

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Colton Sushelnicki

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: PTARMIGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/24/22

b. Time (exact or approximate): ~08H30

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): DIFFERENT AGES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING AT EASE.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? MOSTLY IN THE MORNING.

f. Was any action taken? ☐ Yes ☒ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? W OF FUEL BERMS

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
ON A SLOPE FACING WEST.
~ 40 - 100 IN GROUP.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☒	Overcast

Recent Conditions: GOOD WEATHER.

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number:

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Ptarmagin
(see Common Species List on reverse)

b. How many in each group?: 40

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/30/2022

b. Time (exact or approximate): 8:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Different sizes

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating berries and twigs minding their busesiness

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? mornings

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD83

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of the Burms and going South towards the Lake

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☑	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Colton Sushelnicki

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

02

1. What was sighted?

a. Species sighted: PTARMAGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/~~09~~/22

b. Time (exact or approximate): ~0900

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): ALL DIFFERENT AGES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING AT EASE MOVING ALONG CONTOUR, SOUTHWARD.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? ~2-3 WEEKS

f. Was any action taken? ☐ Yes ☒ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD 83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary?

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
ON W SLOPE, W OF FUEL BERMS
50 — 100 ANIMALS

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☒	Overcast

Recent Conditions: GOOD WEATER.

f. Was a photo taken? ☐ Yes ☐ No
Photo (file) name/number:

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: PTARMAGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/03/2022

b. Time (exact or approximate): _____

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): ALL DIFFERENT SIZES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING SE OF CAMP ON SLOPE.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 2-3 weeks.

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.570666 -98.455062 b. Datum: NAD 83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
SOUTH EAST SLOPE OF CAMP.
50 - 100 ANIMALS

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: GOOD WEATER.

f. Was a photo taken? ☐ Yes ☐ No
Photo (file) name/number: _____

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic fox
(see Common Species List on reverse)

b. How many in each group?: 1

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☒	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 4/14/22

b. Time (exact or approximate): 5:00.

☐ Day ☐ Night ☐ Dusk ☒ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): _____

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
traveling North - South going towards lake

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 2-300 feet

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
East side of camp
Crossing a small
ice patch.

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☒ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: -24 Calm
Morning

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORI METALS COR

1. What was sighted?

a. Species sighted: Red Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 12:20pm

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Red Fox has long tail

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Minding his/her business

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.554167°N 98°45'41"W b. Datum: _____

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 2 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of the camp site walking from east to west on the lake

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Petulik
Christopher
Nowlook

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 2:20PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large in size healthy

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc. ran off once he or she saw me.

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.57320'N 98.45989'W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling: resting under the trailer

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS CO

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 9:50 pm

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): small hare

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking by the helicopter

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.57177°N 98.45605°W b. Datum: none

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
In camp walking by the helicopter

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

Observed by: Chris Nakookik

Incidental Wildlife Sightings / Sign Form

VALORI METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/15/22

b. Time (exact or approximate): 7:30AM

[ ] Day [ ] Night [ ] Dusk [X] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size hare

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating for awhile

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57346'N 98.45850'W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
heading towards the trailer

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: Snowy Owl
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/19/22

b. Time (exact or approximate): 10:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size, all white,

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Looking for prey

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? Few minutes

f. Was any action taken? [ ] Yes [X] No If so, what? SINGLE SIGHTING

3. Where was the sighting?

a. GPS Coordinates: 62°55649 N 98°61084 W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 8.26 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
on a hill. Flew towards West

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: falcon
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/21/22

b. Time (exact or approximate): 11:25AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): medium size, white and Black color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
falcon flying above me,

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 minutes

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°56802S.N 98°67340I.W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 11.8 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
on top of the hill flew towards north from south

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/21/22

b. Time (exact or approximate): 9:00PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large Size, White.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hanging around Nortn side camp

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? 2 Minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°572339.N 98°456264°W b. Datum: None

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
resting near core rock samples. walked towards North

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Wolverine
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/25/2022

b. Time (exact or approximate): _____

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): _____

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Running around

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 508893 6935126 b. Datum: NAD83

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 20 km west

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Sighted from the Helicopter

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Tom

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/23/22

b. Time (exact or approximate): 6:15 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): medium size white in color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hare has been coming around for few day

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°571449, N 98°456065, W b. Datum: None

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hanging around my camp tent, ran North west when I spot the hare

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Christopher Nazoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 27 04 2022

b. Time (exact or approximate): 9:51am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white arctic fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Hiding in the core yard

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572 -98.456 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
In the core yard
behind the core shack

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☑ Yes ☐ No
Photo (file) name/number: _____

Observed by: Craig T.R.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: ~~Arctic~~ Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 27-04-2022

b. Time (exact or approximate): 8am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white arctic fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Sitting around - not scared

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? All morning

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5721735 -98.4566919 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Around the coreshack

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Samson

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Artic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/27/2022

b. Time (exact or approximate): 11 Am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Typical Artic Fox - All white

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
It was about 20ft away - Just walked by calmly

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? 10 minutes

f. Was any action taken? ☑ Yes ☐ No If so, what? Turned on chainsaw and scared it away

3. Where was the sighting?

a. GPS Coordinates: Pad 1 b. Datum:

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 30-40 km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number:

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions:

Observed by: Joseph Pyke

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: 2 foxes
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/01/2022

b. Time (exact or approximate): ~~1745~~ 1745 am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown foxes

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
moves out of the way - not afraid

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? almost daily

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571829 -98.4557514 b. Datum: WGS 84

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
By the office + E1 tents

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Samson

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?: 2

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/24/2022

b. Time (exact or approximate): 8:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Adult Size, White

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Scared, ran away

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 3 weeks

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572935 -98.460148 b. Datum: NAD83

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
North of the burns
Heading North

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Colton Sushelnicki

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: PTARMIGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/24/22

b. Time (exact or approximate): ~08H30

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): DIFFERENT AGES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING AT EASE.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? MOSTLY IN THE MORNING.

f. Was any action taken? ☐ Yes ☒ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? W OF FUEL BERMS

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
ON A SLOPE FACING WEST.
~ 40 - 100 IN GROUP.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☒	Overcast

Recent Conditions: GOOD WEATHER.

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number:

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Ptarmagin
(see Common Species List on reverse)

b. How many in each group?: 40

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 03/30/2022

b. Time (exact or approximate): 8:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Different sizes

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating berries and twigs minding their busesiness

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? mornings

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD83

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of the Burms and going South towards the Lake

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☑	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Colton Sushelnicki

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

02

1. What was sighted?

a. Species sighted: PTARMAGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/~~09~~/22

b. Time (exact or approximate): ~0900

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): ALL DIFFERENT AGES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING AT EASE MOVING ALONG CONTOUR, SOUTHWARD.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? ~2-3 WEEKS

f. Was any action taken? ☐ Yes ☒ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.572731 -98.459411 b. Datum: NAD 83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary?

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
ON W SLOPE, W OF FUEL BERMS
50 — 100 ANIMALS

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☒	Overcast

Recent Conditions: GOOD WEATER.

f. Was a photo taken? ☐ Yes ☐ No
Photo (file) name/number:

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: PTARMAGIN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/03/2022

b. Time (exact or approximate): _____

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): ALL DIFFERENT SIZES

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING SE OF CAMP ON SLOPE.

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 2-3 weeks.

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.570666 -98.455062 b. Datum: NAD 83

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
SOUTH EAST SLOPE OF CAMP.
50 - 100 ANIMALS

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: GOOD WEATER.

f. Was a photo taken? ☐ Yes ☐ No
Photo (file) name/number: _____

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic fox
(see Common Species List on reverse)

b. How many in each group?: 1

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☒	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 4/14/22

b. Time (exact or approximate): 5:00.

☐ Day ☐ Night ☐ Dusk ☒ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): _____

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
traveling North - South going towards lake

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 2-300 feet

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
East side of camp
Crossing a small
ice patch.

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☒ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: -24 Calm
Morning

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORI METALS COR

1. What was sighted?

a. Species sighted: Red Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 12:20pm

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Red Fox has long tail

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Minding his/her business

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.554167°N 98°45'41"W b. Datum: _____

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 2 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of the camp site walking from east to west on the lake

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Petulik
Christopher
Nowlook

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 2:20PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large in size healthy

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc. ran off once he or she saw me.

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.57320'N 98.45989'W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling: resting under the trailer

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS CO

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/14/22

b. Time (exact or approximate): 9:50 pm

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): small hare

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking by the helicopter

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.57177°N 98.45605°W b. Datum: none

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
In camp walking by the helicopter

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

Observed by: Chris Nakookik

Incidental Wildlife Sightings / Sign Form

VALORI METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/15/22

b. Time (exact or approximate): 7:30AM

[ ] Day [ ] Night [ ] Dusk [X] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size hare

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating for awhile

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57346'N 98.45850'W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
heading towards the trailer

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: Snowy Owl
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/19/22

b. Time (exact or approximate): 10:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size, all white,

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Looking for prey

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? Few minutes

f. Was any action taken? [ ] Yes [X] No If so, what? SINGLE SIGHTING

3. Where was the sighting?

a. GPS Coordinates: 62°55649 N 98°61084 W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 8.26 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
on a hill. Flew towards West

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALOR METALS COR

1. What was sighted?

a. Species sighted: falcon
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/21/22

b. Time (exact or approximate): 11:25AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): medium size, white and Black color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
falcon flying above me,

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 minutes

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°56802S.N 98°67340I.W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 11.8 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
on top of the hill flew towards north from south

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/21/22

b. Time (exact or approximate): 9:00PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large Size, White.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hanging around Nortn side camp

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? 2 Minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°572339.N 98°456264°W b. Datum: None

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
resting near core rock samples. walked towards North

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Christopher Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Wolverine
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/25/2022

b. Time (exact or approximate): _____

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): _____

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Running around

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 508893 6935126 b. Datum: NAD83

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 20 km west

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Sighted from the Helicopter

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Tom

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Arctic hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/23/22

b. Time (exact or approximate): 6:15 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): medium size white in color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hare has been coming around for few day

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°571449, N 98°456065, W b. Datum: None

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hanging around my camp tent, ran North west when I spot the hare

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Christopher Nazoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 27 04 2022

b. Time (exact or approximate): 9:51am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white arctic fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Hiding in the core yard

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572 -98.456 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
In the core yard
behind the core shack

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☑ Yes ☐ No
Photo (file) name/number: _____

Observed by: Craig T.R.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: ~~Arctic~~ Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 27-04-2022

b. Time (exact or approximate): 8am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white arctic fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Sitting around - not scared

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? All morning

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5721735 -98.4566919 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Around the coreshack

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Samson

Incidental Wildlife Sightings / Sign Form

VALORE METALS COR

1. What was sighted?

a. Species sighted: Artic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/27/2022

b. Time (exact or approximate): 11 Am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Typical Artic Fox - All white

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
It was about 20ft away - Just walked by calmly

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? 10 minutes

f. Was any action taken? ☑ Yes ☐ No If so, what? Turned on chainsaw and scared it away

3. Where was the sighting?

a. GPS Coordinates: Pad 1 b. Datum:

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 30-40 km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number:

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions:

Observed by: Joseph Pyke

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: 2 foxes
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/01/2022

b. Time (exact or approximate): ~~1745~~ 1745 am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown foxes

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
moves out of the way - not afraid

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? almost daily

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571829 -98.4557514 b. Datum: WGS 84

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
By the office + E1 tents

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Samson

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Hawk
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): May 14, 2022

b. Time (exact or approximate): 1:48 PM

☑ Day	☐ Night	☐ Dusk	☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Light Brown

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Fly - By South east camp

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.570538, -98.4155047 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 300 Meters

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of camp
Shore line going east

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: Partly cloudy

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Moose (confirmed)
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): ~~04~~ 05/15-16/2022

b. Time (exact or approximate): Morning

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Cow & Calf

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 Days

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°31.82'N 98°59.28'W b. Datum: WGS 84

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 15 NM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

4. Weather Conditions:

Snowfall	[X]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[X]	Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number:

Observed by: J. Pretorius

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?: 14

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Auduit	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/29/2022

b. Time (exact or approximate): 3:24 PM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 3 male antlers coming up from South going north walking on Ridge 900 meters from JH13 Collar ~~Buffer~~ DRILL PAD

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? ± 1 MIN THEN GONE.

f. Was any action taken? ☐ Yes ☑ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62° 35' 08", 98° 34' 38" b. Datum: NAD83

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary?

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
6 km west of Nuyaaq camp going North

4. Weather Conditions:

Snowfall	☐ Light	Rainfall	☐ Light
	☐ Moderate		☑ Moderate
	☐ Heavy		☐ Heavy
Wind	☑ Breeze	Sky	☐ Clear Sky
	☐ Moderate		☑ Partly Cloudy
	☐ Strong		☐ Overcast

Recent Conditions: Raining on and off

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number:

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?: 21

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/03/2022

b. Time (exact or approximate): 10:40 AM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 3 anther's Bull's 12 Female 6 male light Brown and white color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing on tundra Northeast of camp 1 Pregnaned cow laying on tundra

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 22:00 PM

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.572035, -98.45617 b. Datum: WGS84

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 500 meter's

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
600 meter's Northeast of cook's tent traveling North, Northeast group of Caribou

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☑	Moderate		☑	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: the 3 day's windy snowy and Raining in the past 3 days

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06-04-22

b. Time (exact or approximate): 8:45am

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): too far to be able to see how many male/female

d. Behaviour ; Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating - slowly walking westward

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5176396 -98.4399633 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☒ No d. If not, how far from camp boundary? 2.8 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South of the camp
The caribou not bothered by airplane noise or helicopter

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☒ Breeze ☐ Moderate ☐ Strong	Sky	☒ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: previouse day showers, snow, cold

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Sjh.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/4/22

b. Time (exact or approximate): 9:45pm

☐ Day	☑ Night	☑ Dusk	☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 30 caribou, white + tanned

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating walking

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 11 hrs

f. Was any action taken? ☑ Yes ☐ No If so, what? shut down drill stayed quiet until 8:30 am

3. Where was the sighting?

a. GPS Coordinates: 62.544397 98.930032 b. Datum: WGS 84

c. Was sighting within ~~camp~~ YAT? ☐ Yes ☑ No d. If not, how far from camp boundary? .5 km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
1 km south west

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☑ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: Warm

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number:

Observed by: Kirk Fagan

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
9	Adult		Male
	Sub-Audult		Female
2	Yearling / newborn	X	Unknown
	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/05/2022

b. Time (exact or approximate): 8am

Day	Night	Dusk	Dawn
X			

c. Description (e.g. any notes on species, size, color, antlers, etc.):
Largest caribou followed the herd aways back. 2 yearlings in the middle of the herd.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking around 2 lakes took 2 hours. walked around another hill which took 2 hours.

e. Was the individual / group sighted over a period of time? X Yes ☐ No If so, for how long? 4½ hours

f. Was any action taken? X Yes ☐ No If so, what? Stopped drilling

3. Where was the sighting?

a. GPS Coordinates: 62.543318 98.934710 b. Datum: WGS84

c. Was sighting within ~~camp~~? X Yes ☒ No d. If not, how far from camp boundary? _____
YAT present

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
~~North~~ east of drill pad YAT1b, travelled ~~South~~ around a hill. Last seen between 2 lakes southwest of the drill.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	X	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes X No
Photo (file) name/number: _____

Observed by: Kiana Froese

SUMP.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: CARIBOU
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☐	Male
☒	Sub-Audult	☐	Female
☒	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): JUNE 5TH, 2022.

b. Time (exact or approximate): 1235

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 25+. NEWBORN'S PRESENT. ANTLER COUNT UNKNOWN.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
STATIONARY - GRAZING / LAYING DOWN.

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☒ Yes ☐ No If so, what? FLIGHT OPERATIONS WITHIN AREA DISCONTINUED.

3. Where was the sighting?

a. GPS Coordinates: N62.572696 W.98.507316 b. Datum: WGS 84

c. Was sighting within ~~camp~~ SUMP? ☒ Yes ☐ No d. If not, how far from camp boundary? —

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
TOP OF HILLSIDE WEST OF SUMP

25+ IN NUMBERS

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: PREVIOUS DAY, STRONG WINDS & SNOWFALL.

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: TROY WHITE
PILOT - GSH

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06-05-22

b. Time (exact or approximate): 7:30 am

[ ] Day [ ] Night [ ] Dusk [X] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): bull caribou - 8 of them

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating, relaxed - all day long

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? past week

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.549305 -98.4560723 b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? 2.5 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South-west of the camp - 8 to 10 of them

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: _____

J4WEST.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: CARIBOU. (see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☒	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): JUNE 6TH, 2022.

b. Time (exact or approximate): 0715.

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): LARGE HERD (30+ NUMBERS) ~~GREA~~ UNKNOWN SEX / ANTLER COUNT.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
GRAZING IN SOUTHWEST DIRECTION.

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 0715 - 1230

f. Was any action taken? ☒ Yes ☐ No If so, what? FLIGHT OPERATIONS DISCONTINUED WITHIN AREA.

3. Where was the sighting?

a. GPS Coordinates: N.62.581538 W.98.579880 b. Datum: WGS84

c. Was sighting within ~~camp~~? ☒ Yes ☐ No d. If not, how far from camp boundary? —

J4WEST

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

GRAZING WITHIN AREA.

SLOW TRAVEL IN SOUTH WESTERLY DIRECTION.

30+ IN NUMBERS.

4. Weather Conditions:

Snowfall	☐ Light	Rainfall	☐ Light		
	☐ Moderate		☐ Moderate		
	☐ Heavy		☐ Heavy		
Wind	☒ Breeze	Sky	☒ Clear Sky		
	☐ Moderate		☐ Partly Cloudy		
	☐ Strong		☐ Overcast		

Recent Conditions: SAME AS ABOVE.

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: TROY WHITE

PILOT - GSM

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age
- [X] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [X] Male
- [ ] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 06-06-22

b. Time (exact or approximate): 8:00 am

- [X] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): male due to the coloration of the neck & size - color of neck is white -

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating - walking a bit - laying down - relaxing even when helicopters take off

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5541121 -98.4735519 b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? ~~[illegible] Km~~ 2.2 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
The helicopter flew over them coming from the other camp & the caribou group of 16 did not ~~[illegible]~~ indicate that they were bothered by the noise

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [X] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [X] Clear Sky
- [ ] Partly Cloudy
- [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/07/22

b. Time (exact or approximate): 600am

☐	☑	☑	☐
Day	Night	Dusk	Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white + tan, dozen with antlers
50 + caribou

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
curious, 5.5 hrs, eating

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 5.5 hrs

f. Was any action taken? ☑ Yes ☐ No If so, what? shut down kept still + quiet
shut down tent 10:30 am

3. Where was the sighting?

a. GPS Coordinates: 62.583964 -93.576827 b. Datum: WGS 84

c. Was sighting within ~~camp~~ J4W3a? ☐ Yes ☑ No d. If not, how far from camp boundary? 100 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hillside from drill pad

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☑ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: beautifully warm

f. Was a photo taken? ☐ Yes ☐ No
Photo (file) name/number:

Observed by: Kirk K. Frasse

YAT.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: CARIBOU. (see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☐	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): JUNE 7TH, 2022.

b. Time (exact or approximate): 0745

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): CARIBOU - UNKNOWN ANTLERS. 12-15 IN NUMBERS.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
STATIONARY - GRAZING.

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☒ Yes ☐ No If so, what? FLIGHT OPERATIONS WITHIN AREA DISCONTINUED.

3. Where was the sighting?

a. GPS Coordinates: N. 62.54700 W.98.92477 b. Datum: WGS 84

c. Was sighting within ~~camp~~ YAT? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
SOUTH EAST 300-400 METERS FROM DRILL PAD AREA.
APPROX 12-15 IN NUMBERS.

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy		Rainfall	☐ Light ☐ Moderate ☐ Heavy	
Wind	☒ Breeze ☐ Moderate ☐ Strong		Sky	☒ Clear Sky ☐ Partly Cloudy ☐ Overcast	

Recent Conditions: SAME AS ABOVE

Observed by: TROY WHITE
PILOT - LSH.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06-07-22

b. Time (exact or approximate): 6:30am

☐ Day ☐ Night ☐ Dusk ☒ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown males in a group of 16 - adult due to the size & coloration

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating walking slowly northward

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? most of the morning

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.582283 -98.5255995 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

On the hillside eating & slowly walking northward

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☒	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06-08-'22

b. Time (exact or approximate): 6:30am

☐ Day ☐ Night ☐ Dusk ☒ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown male caribou 21 of them - neck white - back almost tan - antlers growing -

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating, walking around slowly with no general direction

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? most of the day

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62-558584 -98.419812 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? 2.4 km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Eating - then walked a bit eastward when the piper came & landed
largest group yet - 21 of them
to date - no female no ~~calves~~ calves

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: [signature]

To date - no real direction, some going east, west, north. No females or calves

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: GRIZZLY BEAR
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☒	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/08/22

b. Time (exact or approximate): 23H00

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): VERY BIG, ASH/KHAKI COAT, LOOKED VERY HEALTHY.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
SAW IT 2M AWAY FROM TENT W5, LOOKING CURIOUSLY AT ME.

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☒ Yes ☐ No If so, what? WAVED MY ARMS AT IT FROM 50m AWAY, IT RAN OFF TO THE WEST

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
NEXT TO TENT W5. AFTER SCARING HIM, HE RAN OFF TO THE WEST OF CAMP.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☐ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Nutaaq Camp

1. What was sighted?

a. Species sighted: Grizzly Bear
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☒	Adult	☒	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/08/22

b. Time (exact or approximate): 11:04PM

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Brown and light yellow

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking / standing / running

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 15 mins

f. Was any action taken? ☐ Yes ☒ No If so, what? By the time I saw the Bear was far enough not to take action

3. Where was the sighting?

a. GPS Coordinates: N 62.571312 W 98.457922 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? 143 yds

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
not sure where it came from. Walking towards West

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☒ Yes ☐ No
Photo (file) name/number: _____

Observed by: Chris Naglodlak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age
- [X] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [X] Male
- [ ] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 06-09-22

b. Time (exact or approximate): all day

- [X] Day
- [X] Night
- [X] Dusk
- [X] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): bull caribou growing horns. White neck, tan body

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
For the past week we have had caribou all around the camp eating, walking around, no general direction

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? past week

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hard to pinpoint one area the caribou are all around the camp at a distance of 2 to 3 km or more. Easier to see in the early morning

Count could be at any given time - 100 to 200

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [X] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [X] Clear Sky
- [ ] Partly Cloudy
- [ ] Overcast

Recent Conditions: [illegible]

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☑	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/09/22

b. Time (exact or approximate): 9:15 pm

☐ Day ☑ Night ☑ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white + tanned dozen antlers
50 + caribou

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating + laying down

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 3 hrs

f. Was any action taken? ☑ Yes ☐ No If so, what? didn't go to rig (drill)

3. Where was the sighting?

a. GPS Coordinates: 62.580338 -98.569524 b. Datum: WGS 84

c. Was sighting within ~~camp~~? ☐ Yes ☑ No d. If not, how far from ~~camp~~ boundary? 1 Km 2nd group
RC22-J4W2A 300 meter 1st group

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
300 meters south east of drill pad
another group 1 Km away

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature] Kirk Fenske

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Nutacq Camp

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/09/23

b. Time (exact or approximate): 2:30PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 4 caribou

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking and eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 30MINS

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.571846 W98.466248 b. Datum:

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 608 yds

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Coming from North
Walking South

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris McCooke

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/10/22

b. Time (exact or approximate): 10:24pm

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 20 Caribou some with antler and some had No antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking and eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 7 hours

f. Was any action taken? [X] Yes [ ] No If so, what? Stopped the drillers equipment

3. Where was the sighting?

a. GPS Coordinates: N62.580162 W98.578828 b. Datum: nere

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 4.0 miles drill

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from South
Walking North

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Windy Clear Sky

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris McTaddle

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/11/22

b. Time (exact or approximate): 6:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): too far to see gender and the color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating and resting

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 1 hour

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.627194 98.565796 b. Datum: nene

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 5.2 miles drill

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
walking past

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[X]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: windy

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number:

Observed by: Chris Makowski

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: CARIBOU
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

(4)

2. When was the sighting?

a. Date (MM/DD/YY): 06/12/2022

b. Time (exact or approximate): 06H30

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): MOST OF GROUP OF 4 FULLY GROWN

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
~15 MINS GRAZING ON W SIDE, THEN WALKING EAST PAST THE QUANSET, KEEPING GOING EAST

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 15 min.

f. Was any action taken? [X] Yes [ ] No If so, what? HELI FLIGHT WAITED, AFTER THEY MOVED EAST, HELI DIVERTED WEST.

3. Where was the sighting?

a. GPS Coordinates: 62,574354 98.463695 b. Datum: WGS 84

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? AT QUANSET MOVING E.

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
CLOSE TO STAND OF TREES IN OPEN AREA

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: P. SCHOEMAN

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?: 43

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/12/2022

b. Time (exact or approximate): 11:25 AM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Caribou Cow's, white body Brown Belly, Bull's with velvet antlers with Sub-Audult

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Feeding/Grazing Pregnant Cow's laying most of the time down

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 7 hours

f. Was any action taken? ☐ Yes ☐ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.579681 - 98.566189 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 6 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
RC 341a Southeast going West From drill site 1½ Km to 2 Km

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☑	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: Sunny Days

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Grizzly Bear
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☒	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/12/22

b. Time (exact or approximate): 9:00PM

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Yellow color Medium size

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking and resting

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 5 hours

f. Was any action taken? ☒ Yes ☐ No If so, what? Helicopter tried to scare it away further from drill site

3. Where was the sighting?

a. GPS Coordinates: N62.61211 W98.58451 b. Datum: none

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from ~~camp~~ boundary? 3.6KM Drill

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
Came from Northwest
walking Southeast

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☒ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☒ Partly Cloudy ☐ Overcast

Recent Conditions: Sunny

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number:

Observed by: Chris Nabcoeik

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/13/22

b. Time (exact or approximate): 8:09PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Two male with antlers

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking and eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 30Mins

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.573132 -98.567395 b. Datum: none

c. Was sighting within ~~camp~~ Drill? [X] Yes [ ] No d. If not, how far from camp boundary?

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walking West
Coming from east

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Maclaren

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/14/22

b. Time (exact or approximate): 6:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): about 13 male and 3 female and 2 yearling

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking and eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 1 hr

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: N 62.57189 W98.58929 b. Datum: none

c. Was sighting within ~~camp~~ Drill? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from South walked by Drill site and walked back to South

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Bald Eagle
(see Common Species List on reverse)

b. How many in each group?: 1

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/10/2022

b. Time (exact or approximate): 7:50 PM

☐ Day ☐ Night ☑ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Full grown Brown Body with "White crown head" white tail

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
First appeared over camp lake Fishing, but then caught a Sea Gull chick, Ate a bit of it on tent ~~&~~ 7 chimney then Flown away

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571650, - 98.45 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
100 Ft From Cook's tent and then started to fly South of camp

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☑ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: Sunny Hot days

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roy

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Bald Egale
(see Common Species List on reverse)

b. How many in each group?: 1

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/13/2022

b. Time (exact or approximate): 11:42 AM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Full Grown Adult with white crown head, Brown Body and white tail

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
It was Glading over lake ~~Service~~ Surface Catching Fish

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.570933, -98.45 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☑ No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
800 to 1000 yards From Cook's tent Flying South From South west. South of Nutaqq camp.

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: Calm Sunny days

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Roger Ouimpuq

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: WHITE SWAN
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/16/2022

b. Time (exact or approximate): 5:00PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White Swan with Black Bead

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Swimming in the pond

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°55886 3 99°07237 b. Datum: [illegible]

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 32 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
on the pond swimming towards east

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Luis Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/17/2022

b. Time (exact or approximate): 4:38 PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): white on the belly
Black/Brown body

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hanging around the ~~fuel~~ fuel barrels

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57310N 98°45912W b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
took off towards North

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakashuk

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[ ]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[X]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/18/2022

b. Time (exact or approximate): ~3:16PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Small hare Grey in color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hanging around the camp (Nutaq camp)

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 hours

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57110 N 98°45585 b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
came in South of camp and hung around few hours and went North

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[ ]	Clear Sky
	[ ]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: windy/cloudy

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/19/2022

b. Time (exact or approximate): 7:48 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size, Grey/white

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting/eating.

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57375 N 98°46048 b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
ran North when the hare spotted me

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[ ]	Clear Sky
	[ ]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: raining/light wind

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris McKoolock

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☒	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/19/2022

b. Time (exact or approximate): 9:30 AM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): two yearling, Grey/white

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting ~~on the~~ around the ~~[illegible]~~ plate

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? few days

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57353 N 98°46605 b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Believed to be a resting place/hiding place

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☒	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☑	Moderate		☒	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: rainy/windy

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Musk ox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/19/2022

b. Time (exact or approximate): 4:10PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Black with goldish back short horn

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
showed up near landing strip

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 40 minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57032N 98°48732W b. Datum: C

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 1.6 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walking south bound. running at times

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: fog/shower rain

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Christopher Nakooka

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☒	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/20/2022

b. Time (exact or approximate): 1:55PM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): small hare grey in color
No antlers ?

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting near the sample boxes

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? few days

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57213N 98°45640W b. Datum: ∅

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hid- in between the sample boxes

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☒ Moderate ☐ Heavy
Wind	☐ Breeze ☒ Moderate ☐ Strong	Sky	☐ Clear Sky ☐ Partly Cloudy ☒ Overcast

Recent Conditions: rainy / foggy

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Bald Eagle
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/22/2022

b. Time (exact or approximate): 9:42 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White head and tail with Yellow Beak, brown/Black body

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Flying around the pond

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52859 N 99°14406 b. Datum: _____

c. Was sighting within camp? [ ] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Flew North bound

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: White Swan
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/25/2022

b. Time (exact or approximate): 2:45 PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Two adult male/female With 3 chicks White body with black beak

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Swimming on the Pond

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 45 minutes

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.54075 N 99.08534 W b. Datum: -

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 32 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hanging out on the Pond

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: cloudy / Breeze

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic wolf
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/25/2022

b. Time (exact or approximate): 12:05PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White/Grey/Black Large size wolf

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walked towards us while having lunch, when I stood up the wolf started walking back Northwest

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 5 minutes

f. Was any action taken? [X] Yes [ ] No If so, what? Air horn then bear, Danger, horn was faulty so banger was used

3. Where was the sighting?

a. GPS Coordinates: 62°54294N 99.10531W b. Datum: E

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 33KM

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Headed Northwest
(Soil sample Location)

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Cloudy with breeze

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Nakodlak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: PTARMIGAN
(see Common Species List on reverse)

b. How many in each group?: 1 MALE, 1 FEMALE, 8 CHICKS

Age		Sex	
☒	Adult	☒	Male
☐	Sub-Audult	☒	Female
☒	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/26/2022

b. Time (exact or approximate): 09H30

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 2 ADULTS CAMOUFLAGED IN MED BROWN & KHAKI, COCK HAS RED THINGS ON ITS HEAD, ALSO SLIGHTLY BIGGER.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 15 mins

f. Was any action taken? ☐ Yes ☒ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.571800 98.456374 b. Datum: NAD 83

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? —

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

S AND SW OF CORE SHACK, GRAZING DOWN THE SLOPE. COCK WATCHING OVER CHICKS.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☒	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions:

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number:

Observed by:

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: musk ox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/26/2022

b. Time (exact or approximate): 7:45AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 4 yearling, 10 female 6 male. Black in color with horns

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting / eating

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°51'259 N 99°102632 b. Datum: _____

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 34 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hanging around the pond / resting

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Cloudy / windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☒	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/27/2022

b. Time (exact or approximate): 7:21AM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Small hare White/Grey Long ears pointing up

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
hanging around Base camp

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 1 week or so

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57080N 98°45717W b. Datum: _____

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walking towards Base camp

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☒	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: Sunny / windy

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Chris Nakoslak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Canada geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07-29-'22

b. Time (exact or approximate): _____

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 20 full grown Canada geese - brown back, black beak + head

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating - which could be grass?

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? this afternoon

f. Was any action taken? ☐ Yes ☑ No If so, what? —

3. Where was the sighting?

a. GPS Coordinates: 62.5714391 -98.4524553 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

By the side of a small pond - sometimes swimming in the pond to relocate

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☑	Strong		☐	Overcast

Recent Conditions: very windy

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Canada geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07-30-22

b. Time (exact or approximate): _____

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 10 full grown canada geese sometime swimming in the - sometimes eating grass on the land. Brown ~~color~~ color -

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
swimming in the pond - eat on the land all day

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? 2 days now

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 52.5716766 -98.4515061 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (i.e. "on hill next to cook's tent"), as well as the direction the wildlife was traveling:
swimming back & forth, eating on land - staying in the area.
230 m. from the camp

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy		
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast		

Recent Conditions: ~~Some~~ ~~dust~~ ~~drizzle~~
Some drizzle

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/30/2022

b. Time (exact or approximate): 8:05 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Dark brown color
Large size antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
running around / eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 hours

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°55100 N 99°07117 b. Datum: ?

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 31 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Caribou was running Walking ~~back and~~ back and forth ~~the~~ around the soil crew sampling

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Wakeland

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Grizzly
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☒	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/30/2022

b. Time (exact or approximate): 9:48 AM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Young Grizzly Brown color - fat

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Most likely sensing a caribou close by

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☒ Yes ☐ No If so, what? Chopper flew above the Grizzly leading to safe place where there isn't anyone close by

3. Where was the sighting?

a. GPS Coordinates: 62°51'53"N 99°02'78" b. Datum: D

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 30km

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Ran off east from temp camp close by the soil crew

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☒	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☒	Moderate		☒	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: windy

f. Was a photo taken? ☒ Yes ☐ No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Musk Ox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/30/22

b. Time (exact or approximate): Morning

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Herd of 15-25

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing / Stationary

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 Days

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.542 N 98°.7527 W b. Datum: WGS84

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 18 km

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[ ]	Moderate		[X]	Partly Cloudy
	[X]	Strong		[ ]	Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: J. Pretorius

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Grizzly Bear
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 07/31/22

b. Time (exact or approximate): evening

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Light coat

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5562°N 98.6195°W b. Datum: WGS 84

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 15 km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[X]	Strong		[X]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: J. Pretorius

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou (see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☑	Female
☑	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-01-'22

b. Time (exact or approximate): 6:30 am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): mixture of caribou herd calves, female, bull

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating most of the morning north of the camp

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? about an hr.

f. Was any action taken? ☐ Yes ☑ No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.5790941 -98.4587183 b. Datum:

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 850 m

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
850 m of the cook's tent - some eating, some resting - then they slowly started to walk north-ward

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number:

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: windy overcast

Observed by: [illegible]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/02/2022

b. Time (exact or approximate): 6:30PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Two Caribou couldnt tell what gender

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking Northwest

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57947N 98°84286W b. Datum: _____

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 20KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Northwest bound

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[X] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [ ] No
Photo (file) name/number: _____

Observed by: Chris Nakatsuka

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/03/2022

b. Time (exact or approximate): 10:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 15 plus Caribou

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating / walking.

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? few hours

f. Was any action taken? [X] Yes [ ] No If so, what? stopped the work 10:30 AM to 11:35 AM

3. Where was the sighting?

a. GPS Coordinates: 62°57856 N 98°58950 W b. Datum: 0

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
North Bound

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[X] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Wakelak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Grizzley bear
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/03/2022

b. Time (exact or approximate): 2:55PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full Brown Grizzly bear. Dark brown color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
We have spotted the bear 300M away from pad builder. Used Bear horn/bangers/Gun shot and kept coming closer.

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? about 10 mins

f. Was any action taken? [X] Yes [ ] No If so, what? Tried to seize the driller but Drillers refuse to cooperate ant kept the machines running, bear bangers and horn had no effect.

3. Where was the sighting?

a. GPS Coordinates: 62°52236N 99°13405W b. Datum: —

c. Was sighting within camp? drill site [X] Yes [ ] No d. If not, how far from camp boundary? 250M

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
helicopter came on time to scare the Bear away 3KM away from drill site Headed south bound

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[X] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: ~~Windy~~ windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: —

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(See Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/04/2022

b. Time (exact or approximate): 11:45AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): female and calf

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating / Walking

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 1 hr

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°52683 N 99°13524 W b. Datum: O

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 35 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from NorthEast of drill and Went West bound

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Wakelock

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-13-'22

b. Time (exact or approximate): 7:15am

☐ Day ☐ Night ☑ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown caribou in prime condition - white neck, dark color back

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating leaves in the meadow

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5785256 -98.4644217 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Bull caribou in prime condition eating in the meadow 450 m west of the cooks tent

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: heavy winds yesterday

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?: 2

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/13/2022

b. Time (exact or approximate): 3:50

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Bull With Antler's
Female

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Bull caribou Grazing, Female Grazing

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.52375, -99.135 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Bull caribou 6 Km west of Drill 1, Female 2 Km Northwest of Drill 1 at Dispose

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: Yesterday rain maderlty

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Canada geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☑	Female
☑	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-15-'22

b. Time (exact or approximate): 11:00 am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Canada geese - light tan

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Canada geese flew into the lake from north-west - Geese seem to be gathering already

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5687263 - 98.4583900 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 350 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South west from the cooks tent - already seem to test flight for the young geese

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☑ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: +23°, clear sky

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: male musk-ox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-22

b. Time (exact or approximate): 7:30am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown male musk-ox eating + walking slowly northward - dark brown color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5760731 -98.4442413 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 900 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

North-east from the cook's cabin

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: bull caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-'22

b. Time (exact or approximate): 7:30am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown male caribou

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating + walking slowly westward

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5735773 -98.4689797 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 700 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
North-west of the cook's cabin

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Sandhill Cranes
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-22

b. Time (exact or approximate): 14:00

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): brown colored Sandhill cranes - full grown

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking around

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5720725 - 98.4504983 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? ~290 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
walking around the pond - seem to be looking for food.
East of the cook's cabin

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Canada geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☑	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-'22

b. Time (exact or approximate): 17:00

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): brown colored back 31 of them

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Some geese swimmig in the water - some eating along the shore line

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5702926 -98.1579008 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 240 m

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Some eating - some swimming around west of the cook's cabin

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: bull caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-22

b. Time (exact or approximate): 16:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown caribou - white neck - dark brown back - antlers still have velvet

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking north-westward - then it started running north-ward

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5783409 -98.4444523 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 950 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
bull caribou walking west then started runing northward

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: bull caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08-19-22

b. Time (exact or approximate): 17:40

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown bull caribou - brown colored back - antlers still growing

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
running from mosquitoes & blackflies

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? 20 min

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5719072 -98.4555633 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

110 meters from the cook's tent

25 meters from where I was standing

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☒ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Musk Ox (see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/20/2022

b. Time (exact or approximate): 10:12 AM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Lone Bull Black with light, Brown Back and Horn

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing on tundra For about an hour

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.573482, -98.45 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? _____

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
North of cook's tent 5 KM walking up North east over the Ridge

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: Sunny Day's

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Golden

a. Species sighted: Eagle & caribou
(see Common Species List on reverse)

b. How many in each group?: 1 Golden eagle / 2 caribou

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/21/2022

b. Time (exact or approximate): 10:06

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Golden Eagle Black & Brown crown. and Caribou 1 Male Bull with Female Cow Body

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Golden eagle Flying Northwest of drill 1, at Dipole also Both Caribou 4 KM North of Drill 1 Grazing

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.521814, - 99.137 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☑	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: Yesterday Strong North winds, with some rain.

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?: 1

Age
- [x] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [ ] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 08/21/2022

b. Time (exact or approximate): 2:30 PM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Young Male Bull Caribou Brown with a bit of white Mamm

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing along shore For a short of time, then when went back of North over North Bidge

e. Was the individual / group sighted over a period of time? [ ] Yes [x] No If so, for how long? _____

f. Was any action taken? [ ] Yes [x] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571695, -98.45 b. Datum: _____

c. Was sighting within camp? [x] Yes [ ] No d. If not, how far from camp boundary? 100 ft

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
200 Ft From Cook's tent

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number: _____

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [x] Partly Cloudy
- [ ] Overcast

Recent Conditions: Sunny with some What Rain

Observed by: Roger Owiagaluk

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Musk Ox

a. Species sighted: Musk Ox
(see Common Species List on reverse)

b. How many in each group?: 1

Age
- [x] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [ ] Female
- [ ] Unknown

2. When was the sighting?
a. Date (MM/DD/YY): 08/23/2022
b. Time (exact or approximate): 6:27 AM
- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male Bull Musk Ox Black and light Brown with Horn

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Musk Ox walking Grazing early morning coming from Northeast then turn North over Ridge

e. Was the individual / group sighted over a period of time? [ ] Yes [x] No If so, for how long? _____

f. Was any action taken? [ ] Yes [x] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.573546, -98.45

b. Datum: ~~[illegible]~~

c. Was sighting within camp? [x] Yes [ ] No

d. If not, how far from camp boundary? 2 KM

e. Please describe the location (i.e. "on hill next to cook's tent"), as well as the direction the wildlife was traveling:
2 KM from Cook's tent traveling North over Ridge

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [x] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: Rainy Days & Night's with overcast

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Canadian Gesse and

a. Species sighted: Arctic Loon's — 4
(see Common Species List on reverse)

b. How many in each group?: 100 Plus Canadian Gesse

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/23/2022

b. Time (exact or approximate): 2:35 PM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): _____

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Flying South From North

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571813, - 98.45 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? ~~Boarder~~ 1 1Km

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
Both Species Flying over Camp

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☑ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☐ Partly Cloudy ☑ Overcast

Recent Conditions: Rainy Day's & Night

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Musk ox

a. Species sighted: Bull Male
(see Common Species List on reverse)

b. How many in each group? 1

Age
- [x] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [ ] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 08/24/2022

b. Time (exact or approximate): 9:00 AM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Bull Male Musk ox Black and light Brown Back Body with horn

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing and walking South From North east

e. Was the individual / group sighted over a period of time? [ ] Yes [x] No If so, for how long? _____

f. Was any action taken? [ ] Yes [x] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.582674. 98.57 b. Datum: _____

c. Was sighting within camp? [ ] Yes [x] No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
J4 West Drill 2
3 Km a cross the
lake

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [x] Partly Cloudy
- [ ] Overcast

Recent Conditions: Moderate Rain

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou

a. Species sighted: Adult caribou
(see Common Species List on reverse)

b. How many in each group?: 2

Age
- [x] Adult
- [ ] Sub-Audult
- [ ] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?
a. Date (MM/DD/YY): 08/24/2022
b. Time (exact or approximate): 3:28 PM
- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male Bull antler's Brown white ~~and~~ mane, Female Cow

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Both caribou species Grazing Walking

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 2 1/2 hours

f. Was any action taken? [ ] Yes [x] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.571671, -98.45 b. Datum:

c. Was sighting within camp? [x] Yes [ ] No d. If not, how far from camp boundary? 2.5 Km

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
2.5 Km From cook's tent travelling Northeast From Northwest

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [x] Clear Sky
- [ ] Partly Cloudy
- [ ] Overcast

Recent Conditions: Moderate Rain

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number:

Observed by: Ryan Dunyosk

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou's

a. Species sighted: Groups of caribou (see Common Species List on reverse)

b. How many in each group?: 9

Age
- [x] Adult
- [x] Sub-Audult
- [x] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 08/26/2022

b. Time (exact or approximate): 8:50 AM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Adult's with antler's Dark Brown color Body, Female Brown Body color and Yearling light Brown color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing on tundra walking North, From southeast

e. Was the individual / group sighted over a period of time? [ ] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [x] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.522040, -9913 b. Datum: _____

c. Was sighting within camp? [ ] Yes [x] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
5 Km Spread 4 of them West of Drill 1 5 of them Southeast walking North 3 Km From Drill 1

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [x] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [x] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: moderate wind and Partly cloudy

f. Was a photo taken? [ ] Yes [x] No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Grizzly Bear's

a. Species sighted: mother Grizzy with 3 cubs
(see Common Species List on reverse)

b. How many in each group?: 4

Age
- [x] Adult
- [ ] Sub-Audult
- [x] Yearling / newborn
- [x] Unknown

Sex
- [ ] Male
- [x] Female
- [x] Unknown

2. When was the sighting?
a. Date (MM/DD/YY): 08/26/2022
b. Time (exact or approximate): 1:02 PM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Mother bear Brown with light Brownish yellowish color, and cub's Brown color with some light yellowish color's

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
running North away From Drill 2 at J4 west 10 mins

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 10 mins

f. Was any action taken? [x] Yes [ ] No If so, what? [redacted]
Bear's run away from Helicopter

3. Where was the sighting?

a. GPS Coordinates: 52.1827 6939069 b. Datum: UTM14N

c. Was sighting within camp? [ ] Yes [x] No d. If not, how far from camp boundary? 15-20 miles

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
AT Drill 2

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [x] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [x] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: moderate Rain

f. Was a photo taken? [ ] Yes [ ] No
Photo (file) name/number:

Observed by: Rogerowingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Golden Eagle

a. Species sighted: Eagle and Canadian Geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/28/2022

b. Time (exact or approximate): ~~2:05~~ 2 05 PM

☑	☐	☐	☐
Day	Night	Dusk	Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Dark Brown with light brown crown and some white color's

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Flying from West against the east wind Following a group of gesse then spotted a flock of Dusk

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.571772, 98.45 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 100 Ft ~~Above~~ Above camp

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
100 Ft from cook's tent

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☑	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☑	Strong		☑	Overcast

Recent Conditions: Raining windy From east

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou

a. Species sighted: Cow and calf
(see Common Species List on reverse)

b. How many in each group?: 2

Age
- [ ] Adult
- [ ] Sub-Audult
- [x] Yearling / newborn
- [ ] Unknown

Sex
- [ ] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 08/30/2022

b. Time (exact or approximate): 8:09 AM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Dark Brown body with narrow antlers and yearling newborn

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Both species were grazing walked around Nutaaq Camp Angilak Camp

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 6 hrs

f. Was any action taken? [ ] Yes [x] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.570973, -98.443

b. Datum:

c. Was sighting within camp? [x] Yes [ ] No

d. If not, how far from camp boundary? 0.5 KM

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
0.5 KM north of cooks tent grazing North east

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [x] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: Moderate wind Raining with overcast

f. Was a photo taken? [ ] Yes [x] No

Photo (file) name/number:

Observed by: Roger Owingayuk

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/30/22

b. Time (exact or approximate): 12:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male/female/sub Audult some with antlers and some without ~~them~~. about 15 all together

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating/ walking around

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 7 hours

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°52236 N 99°13405 b. Datum: E

c. Was sighting within camp? [ ] Yes [X] No d. ~~If not,~~ how far from camp boundary? 3014 Dipole

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from East/ South/ North

4. Weather Conditions:

Snowfall	[ ] Light / [ ] Moderate / [ ] Heavy	Rainfall	[X] Light / [ ] Moderate / [ ] Heavy
Wind	[X] Breeze / [ ] Moderate / [ ] Strong	Sky	[ ] Clear Sky / [X] Partly Cloudy / [ ] Overcast

Recent Conditions: foggy/ raining

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Volkoolek

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Geese

a. Species sighted: Greylag Goose. (see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☑	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 08/30/2022

b. Time (exact or approximate): 3:30 PM

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Grey Body Orange with abit of, white Beek and orange feet

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Feed on Berries and grass

e. Was the individual / group sighted over a period of time? ☐ Yes ☐ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.57480, -98.45 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 100 Ft

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was travelling:
100 Ft From cook's tent

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☑ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☐ Partly Cloudy ☑ Overcast

Recent Conditions: Windy Raining overcast

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou

a. Species sighted: Audult Caribou and cow, calf
(see Common Species List on reverse)

b. How many in each group?: 6

Age
- [x] Adult
- [x] Sub-Audult
- [x] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 08/31/2022

b. Time (exact or approximate): 6:20 AM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male Bull Wide antler white mane, Sub-Audult Male Dark Brown color, cow narrow Antlers. Calf and cow Northeast

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing around Nutaaq camp along ~~Shore~~ Shore line

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 4 hr's

f. Was any action taken? [ ] Yes [x] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.571135, -98.43 b. Datum:

c. Was sighting within camp? [x] Yes [ ] No d. If not, how far from camp boundary? 150 Meters

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
200 Meters from Cook's tent

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [x] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: Moderate winds raining overcast

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number:

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou

a. Species sighted: ~~57~~ Bulls a cow's caribou, Calf (see Common Species List on reverse)

b. How many in each group?: 4 male Male, 3 cows, 1 calf Yearling

Age
- [x] Adult
- [x] Sub-Audult
- [x] Yearling / newborn
- [ ] Unknown

Sex
- [x] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?

a. Date (MM/DD/YY): 09/01/2022

b. Time (exact or approximate): 9:15 AM

- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male Bull wide antler's Double shovel - White Mane, Brown body

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing on tundra walking South across From Nutaaq camp lake

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 7 hr's

f. Was any action taken? [ ] Yes [x] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.571994, - 98.45 b. Datum:

c. Was sighting within camp? [x] Yes [ ] No d. If not, how far from camp boundary? 5 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
5 KM From Cook's tent
going South From North

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [x] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [ ] Partly Cloudy
- [x] Overcast

Recent Conditions: Windy From east

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number:

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Caribou

a. Species sighted: Caribou cow and Yearly Calf
(see Common Species List on reverse)

b. How many in each group?: 2

Age
- [x] Adult
- [ ] Sub-Audult
- [x] Yearling / newborn
- [ ] Unknown

Sex
- [ ] Male
- [x] Female
- [ ] Unknown

2. When was the sighting?
a. Date (MM/DD/YY): 04/02/2022
b. Time (exact or approximate): 6:40 AM
- [x] Day
- [ ] Night
- [ ] Dusk
- [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Narrow Antler's brown Color's

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Grazing and laying down on tundra

e. Was the individual / group sighted over a period of time? [x] Yes [ ] No If so, for how long? 4 hrs

f. Was any action taken? [ ] Yes [x] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62.572778, -98.45 b. Datum:

c. Was sighting within camp? [x] Yes [ ] No d. If not, how far from camp boundary? 300 meter's to 400 mete

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
400 meter's

4. Weather Conditions:

Snowfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Rainfall
- [ ] Light
- [ ] Moderate
- [ ] Heavy

Wind
- [ ] Breeze
- [ ] Moderate
- [ ] Strong

Sky
- [ ] Clear Sky
- [x] Partly Cloudy
- [ ] Overcast

Recent Conditions: overcast at first then clear sky's

f. Was a photo taken? [ ] Yes [x] No
Photo (file) name/number:

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted? Canadian Gesse

a. Species sighted: Canadian Gesse
(see Common Species List on reverse)

b. How many in each group?: Groups of hundreds

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/02/2022

b. Time (exact or approximate): 10:10 AM

☐ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Canadian Gesse

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Flying South From the North

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.570837, -98.45 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 200 to 400 Ft Above Camp

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
200, 400 Ft Above Nutaaq camp Flying South

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: Overcast cloudy

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Roger Owingayak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/02/22

b. Time (exact or approximate): 12:60PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): few caribou walking by dipole ~~Also~~ some had NO antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
walking by drill site

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3 hours

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52236N 94°13405 b. Datum: O

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 74 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
came from South North east

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: sunny

f. Was a photo taken? [X] Yes [ ] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: MOOSE
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/07/22

b. Time (exact or approximate): ~~9~~ 3:45 PM

[✓] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White moose with Wide Long antler, Golden top

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking east

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52531 N 98°85880 W b. Datum: _____

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 21 KM

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walking east
from west

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [✓] No
Photo (file) name/number: _____

Observed by: MRS N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/03/22

b. Time (exact or approximate): 8:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Bull with huge antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting on the east side of camp and North of camp for ~~a~~ Few hours

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 8 hours

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57367N 98°45462W b. Datum: A

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came close to camp site. about ~~100~~ 50m of east side of camp

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/03/22

b. Time (exact or approximate): 8:00AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Bull and female

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating walking

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57501 N 98°44680 W b. Datum: ⊖

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from east
walking Northwest

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/03/22

b. Time (exact or approximate): 1:00 PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Bull with huge antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting Northwest of camp

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3 hours

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°57412N 98°46420W b. Datum: ?

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary?

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from West

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris W

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/03/22

b. Time (exact or approximate): 3:00PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Young bull medium size antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking from east, running at times

e. Was the individual / group sighted over a period of time? [X] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57281 N 98°45077 W b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came close to camp and continue North Bound

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Sunny / windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/03/22

b. Time (exact or approximate): 9:00PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Two Bull with antlers

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57729 N 98°45458 W b. Datum: O

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from North
Walking South

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/04/22

b. Time (exact or approximate): 9:31AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 3 Bulls with huge ainter
2 female with small antlers

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating / Walking

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57594N 98°45773W b. Datum: _____

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? 2 traps

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from North
resting and eating
east side of camp

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny / Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/05/22

b. Time (exact or approximate): 8:38AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 2 Young bull with 2 female and one calf

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting and eating

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57280N 98°46321W b. Datum: D

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (i.e. "on hill next to cook's tent"), as well as the direction the wildlife was traveling:
Walking South from North

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[X] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [ ] Partly Cloudy [X] Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/05/22

b. Time (exact or approximate): 1:32PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): young bull with short antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking South

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 5 hours

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57660N 98°46537W b. Datum: D

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
North of camp

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[X]	Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/05/22

b. Time (exact or approximate): 1:45PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): one young bull, one female and one yearling

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating and walking towards South

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3 hours

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°57760N 98°43981W b. Datum:

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 1.1 KM

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
1.1 KM away from east of camp walking South

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [ ] Partly Cloudy [X] Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Nakoda

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/05/22

b. Time (exact or approximate): 1:50PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Young Bull Short antlers and one female with short antlers

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking towards North

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 15Mins

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°56860 N 98°47144 W b. Datum:

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 900 M

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from West of camp about 900M away from camp.

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [ ] Partly Cloudy [X] Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris W

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/05/22

b. Time (exact or approximate): 7:00PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 10 Caribou, 6 female and 4 Calf. Short antlers

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Showed up from east side of Camp.

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3hours

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°57737N 98°43643W b. Datum: _____

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 1.2KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came close to Camp in the evening and went back towards East

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris N

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[X]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/06/22

b. Time (exact or approximate): 10:20AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 5 Caribou east of dipole and 7 Caribou West of dipole all walking South

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating and walking South, one young caribou came close by drill site

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? all morning

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52'36"N 99°13'40"W b. Datum: D

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 34 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Caribou were east and west of drill site.

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: foggy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nekowtat

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Eagle
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): ~~08~~ 09-06-'22

b. Time (exact or approximate): 10:45am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Eagle - white head, dark brown back

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
perched on a rock looking around

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.56686614 -98.47213361 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 950 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Eagle is perched on a rock west of the cooks cabin.

4. Weather Conditions:

Snowfall	☐ Light	Rainfall	☐ Light		
	☐ Moderate		☐ Moderate		
	☐ Heavy		☐ Heavy		
Wind	☑ Breeze	Sky	☐ Clear Sky		
	☐ Moderate		☐ Partly Cloudy		
	☐ Strong		☑ Overcast		

Recent Conditions: raining a bit

f. Was a photo taken? ☐ Yes ☐ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☒	Male
☒	Sub-Audult	☑	Female
☑	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/06/22

b. Time (exact or approximate): 1:30PM

☒ Day	☐ Night	☐ Dusk	☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 8 Caribou east of J4 West 3 bull 3 female and 2 yearling

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking South

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°58156 N 98°5739 98 W b. Datum: _____

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 6.1 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
resting, took off when we arrived to site

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☒ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: foggy

f. Was a photo taken? ☐ Yes ☒ No
Photo (file) name/number: _____

Observed by: Chris Natoda

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Snow + Canada geese
(see Common Species List on reverse)

b. How many in each group?

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-06-'22

b. Time (exact or approximate): all day

☑ Day ☑ Night ☑ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Snow + Canada geese flying southward

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Water fowl of all kinds flying southward for the winter.

Unable to count the numbers, some fly very high & some too far from the camp

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☑ Breeze ☑ Moderate ☐ Strong	Sky	☑ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☑	Female
☑	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-07-22

b. Time (exact or approximate): 7am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Male with antlers & females with their calves

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating & slowly walking southward - 5 in all

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5704042 -98.4648367 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 450 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

In the meadow west of the cooks tent

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☑ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: partly cloudy

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[V]	Female
[X]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09/07/22

b. Time (exact or approximate): 8:15 AM

[V] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 5 Caribou 2 Bull 2 female and one yearling

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Resting and eating

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°58156N 98°57398 b. Datum: _____

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 6-1 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Took off when we arrived to site.

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [ ] Moderate [X] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: Windy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Walcott

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Canada + Snow geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-07-22

b. Time (exact or approximate): all day

☑ Day ☐ Night ☑ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown Canada + Snow geese flying south

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Some geese would stop to rest - others would continue
Too many to try + count

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: _____ _____ b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Canada + Snow geese flying southward all day off + on. More snow geese than Canada geese

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☑ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: all day windy

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: female caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-08-22

b. Time (exact or approximate): 7:30am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 7 females + calves
10 caribou all together - 3 calves, 3 female with calves + 4 female no calves

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating all day

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? all day

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5738339 -98.4520218 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 300 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
female caribou eating all day + not being bothered by the helicopter noise

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☑ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☐ Moderate ☐ Strong	Sky	☐ Clear Sky ☐ Partly Cloudy ☐ Overcast

Recent Conditions: drizzing all day off + on

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: _____

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: female caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☑	Female
☑	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-09-'22

b. Time (exact or approximate): 7:30am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): females with calves walking westward alone the shore

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
eating & walking westward along the shore

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5696738 -98.45664340 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? 200 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

6 females with calves eating & walking west-ward.

Every day occurance

now

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☑	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☑	Moderate		☐	Partly Cloudy
	☐	Strong		☑	Overcast

Recent Conditions: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: blue + snow geese
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☑	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-10-22

b. Time (exact or approximate): 10:00am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): blue geese = blueish color
snow geese = white body dark head

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
mixture of blue + snow geese eating by the pond

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5718229 -98.4531457 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 120 m

e. Pleaee describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Mixture of blue geese + snow geese eating by the pond

10 blue geese + 3 snow geese

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☑	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: bull caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-10-22

b. Time (exact or approximate): 4:00pm

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown caribou - brown back white neck, no velvet on the horns

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Bull caribou came from the north-east, eating as it walked

e. Was the individual / group sighted over a period of time? ☑ Yes ☐ No If so, for how long? most of the day

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5786207 - 98.7555185 b. Datum: _____

c. Was sighting within camp? ☑ Yes ☐ No d. If not, how far from camp boundary? 30 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

30 meters of the cooks tent walking slowly westward by stil eating as it walked

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☑	Clear Sky
	☑	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☐ No

Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Wolverine
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-11-22

b. Time (exact or approximate): 2:45pm

☐ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): wolverine walking around heading westward galloping along as only a wolverine could.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Not sure if it's a male/female due to the distance

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.546769 - 98.476085 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? 750 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
wolverine was south-west of the cooks tent & heading west ~~se~~ seen disappeared due to the terrain

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☑ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☐ Partly Cloudy ☑ Overcast

Recent Conditions: drizzling plus rain

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP.

1. What was sighted?

a. Species sighted: caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☑	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-11-'22

b. Time (exact or approximate): 7:30 am

☐ Day ☐ Night ☐ Dusk ☑ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): full grown male caribou - dark colored back - white neck - no velvet on the horns

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.5707166 - 98.45586074 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? 30 m

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
South-west from the cook's tent at 30 m.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: SJP.

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Musk-ox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☑	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-13-22

b. Time (exact or approximate): 9:50 am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): single musk-ox - dark color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating walking northward

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.579237N -98.39830819 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? 3.3 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
musk-ox along for some reason

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☑	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☑	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: overcast

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: [signature]

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Eagle
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Audult	☐	Female
☐	Yearling / newborn	☑	Unknown
☑	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 09-13-22

b. Time (exact or approximate): 9:30 am

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): large eagle - brown color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Circling above the lake looking for food.

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62.579005 -98.406425 b. Datum: _____

c. Was sighting within camp? ☐ Yes ☐ No d. If not, how far from camp boundary? 2.5 Km

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Circling above the lake
looking for food

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☑ Moderate ☐ Strong	Sky	☐ Clear Sky ☑ Partly Cloudy ☐ Overcast

Recent Conditions: overcast

f. Was a photo taken? ☐ Yes ☑ No
Photo (file) name/number: _____

Observed by: _____

#1

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: MOOSE
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/29/22

b. Time (exact or approximate): 1200PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size brown in color. No antler.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Moose was laying down with the yearling

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 5 Minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°504386N 99°230654W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 9.04 KM

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Moose was resting in the brushes with the yearling and ran off to North when the Moose saw me.

4. Weather Conditions:

Snowfall	[X]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [X] Yes [ ] No
Photo (file) name/number: LUCASSIE NAKOOLAK 867-686-1167

Observed by: _____

#3

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/30/22

b. Time (exact or approximate): 5:43PM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Medium Size Arctic Fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
fox was resting North of camp until I approach

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 5 to 7 Minutes

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52'41.83"N 99°06'01.68"W b. Datum: none

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? 0

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
resting North of camp and walked towards Northeast.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☒	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Christopher Nakookiak

#2

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 04/30/22

b. Time (exact or approximate): 7:20AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White Fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Fox sleeping South side of camp

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52'127 N 99°06'358 W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Left the Fox alone as sleeping

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Wakoski

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Hare
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/01/22

b. Time (exact or approximate): 12:13PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large size hare White color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Hare was relaxing until heard a snowmobile.

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3 mins

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°524036N 99°060258W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 11.56 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
resting in the bushes and rain North West when the hare heard a snowmobile.

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number:

Observed by: Chris Nagloo'ak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/03/22

b. Time (exact or approximate): 9:46PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Large in size white and healthy.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Fox was calling to other foxes from West/South/east. could hear the other FOX but not see

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52'40"3 N 99°06'00"19 W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walked into camp from South walked by to North

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Nakoobak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic wolf
(see Common Species List on reverse)

b. How many in each group?: 8

Age		Sex	
☑	Adult	☐	Male
☑	Sub-Auduit	☑	Female
☐	Yearling / newborn	☐	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/03/22

b. Time (exact or approximate): 9:30

☑ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White, Gray, black

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
curious on the hunt walking

e. Was the individual / group sighted over a period of time? ☐ Yes ☑ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☑ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°53'31.44"N 99°1'03.44"W b. Datum: none

c. Was sighting within camp? ☐ Yes ☑ No d. If not, how far from camp boundary? 1.66 KM

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
behind cooks tent
past the hill

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☑	Clear Sky
	☐	Moderate		☐	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: warm sunny

f. Was a photo taken? ☐ Yes ☑ No

Photo (file) name/number: _____

Observed by: Steven Lapthorne

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/04/22

b. Time (exact or approximate): 5:01 PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White healthy Fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc. been hanging around the camp for Few days

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 10 Min

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: 62°52'41"N 99°05'55" b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary?

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

showed up from Westside of camp

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions:

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number:

Observed by: Chris Nakodak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☒	Sub-Audult	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/06/22

b. Time (exact or approximate): 9:30PM

☐ Day ☒ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 2 Foxes with Yellow fur not healthy looking

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
2 Foxes running around from east of camp

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52'41.36"N 99°06'02.31" b. Datum: None

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Foxes seem to be unhealthy yellow in color came from east of camp continue running towards west

4. Weather Conditions:

Snowfall	☐ Light ☐ Moderate ☐ Heavy	Rainfall	☐ Light ☐ Moderate ☐ Heavy
Wind	☐ Breeze ☒ Moderate ☐ Strong	Sky	☐ Clear Sky ☒ Partly Cloudy ☐ Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Chris LaBoucane

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☒	Sub-Auduit	☐	Female
☐	Yearling / newborn	☒	Unknown
☐	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/06/22

b. Time (exact or approximate): 7 34PM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White Fox

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating food thats been drained from Kitchen sink.

e. Was the individual / group sighted over a period of time? ☒ Yes ☐ No If so, for how long? 4 mins

f. Was any action taken? ☒ Yes ☐ No If so, what? Made sure the Fox wasnt eating

3. Where was the sighting?

a. GPS Coordinates: 62°524136 N 99°060231 W b. Datum: None

c. Was sighting within camp? ☒ Yes ☐ No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
hanging around Kitchen and ran towards east of camp

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☒	Breeze	Sky	☐	Clear Sky
	☐	Moderate		☒	Partly Cloudy
	☐	Strong		☐	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Auduit	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/07/22

b. Time (exact or approximate): 10:38 AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Fox was light yellow in color

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
ran off when the Fox heard the snowmobile.

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°509905 N 99°000515 b. Datum: None

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 3.42

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
came from east running towards West

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[X]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Natooyak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox Den
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
☐	Adult	☐	Male
☐	Sub-Auduit	☐	Female
☐	Yearling / newborn	☒	Unknown
☒	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/08/22

b. Time (exact or approximate): 12:27PM

☒ Day ☐ Night ☐ Dusk ☐ Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Fox Den

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Didnt see Fox But Fresh Fox track

e. Was the individual / group sighted over a period of time? ☐ Yes ☒ No If so, for how long? _____

f. Was any action taken? ☐ Yes ☒ No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°52531 5N 99°04904 4W b. Datum: none

c. Was sighting within camp? ☐ Yes ☒ No d. If not, how far from camp boundary? 0.62 KM

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Fresh track on Den site.

4. Weather Conditions:

Snowfall	☐	Light	Rainfall	☐	Light
	☐	Moderate		☐	Moderate
	☐	Heavy		☐	Heavy
Wind	☐	Breeze	Sky	☐	Clear Sky
	☒	Moderate		☐	Partly Cloudy
	☐	Strong		☒	Overcast

Recent Conditions: _____

f. Was a photo taken? ☐ Yes ☒ No

Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Arctic Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Auduit	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/10/22

b. Time (exact or approximate): 12:50PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Fox color is yellow

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Tried to follow a person for couple Minutes

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 10 minutes

f. Was any action taken? [X] Yes [ ] No If so, what? had to scare it away

3. Where was the sighting?

a. GPS Coordinates: 62°30'00.5"N 99°03'03.5W b. Datum: None

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 2.70KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Was in the den when I saw it and tried to follow a person walking. Went off South bound

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[X]	Overcast

Recent Conditions: Foggy

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Nastolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Snowy Owl
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/10/22

b. Time (exact or approximate): 5:34AM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Owl was White and Black

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
was near the door way @ Medic care tent when I went out side

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2 minutes

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°31'26.2" N 99°03'35.4" W b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
When I got outside the owl flew South

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[X]	Overcast

Recent Conditions: Foggy / Rainy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

1. What was sighted?

a. Species sighted: Sandhil crane
(see Common Species List on reverse)

b. How many *in* each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/11/22

b. Time (exact or approximate): 2:20PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Grey Brown

d. Behaviour - Please provide a description of the animal(s)' behaviour. What was it / were they doing? How long? etc. Came from Southwest flying towards North

e. Was the individual / group sighted over a period of time? [ ] Yes [X] No If so, for how long? _____

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: 62°29'28.5N 99°05'59.7W b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 4.19

e. Please describe the location (i.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Flying North bound

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Foggy/Rainy

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Temp camp

1. What was sighted?

a. Species sighted: Fox
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[X]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/30/2022

b. Time (exact or approximate): 10:30PM

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): White With Brown Spot

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Two Foxes were running around on the ice

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 20 Mins

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: N 62.523435 W 99.066888 b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Two foxes came from east and went South bound

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[ ]	Breeze	Sky	[ ]	Clear Sky
	[X]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No

Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Temp Camp

1. What was sighted?

a. Species sighted: Bald eagle
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[ ]	Adult	[ ]	Male
[X]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 05/31/2022

b. Time (exact or approximate): 12:00PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Brown Mixed with white the beak was yellow with Black

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
resting on the ice for about 10 mins

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 10 mins

f. Was any action taken? [ ] Yes [X] No If so, what? _____

3. Where was the sighting?

a. GPS Coordinates: N 62.523435 W 99.066888 b. Datum: none

c. Was sighting within camp? [X] Yes [ ] No d. If not, how far from camp boundary? _____

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Sea gull was not allowing the Eagle to rest) flew North

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[ ] Breeze [X] Moderate [ ] Strong	Sky	[ ] Clear Sky [X] Partly Cloudy [ ] Overcast

Recent Conditions: _____

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number: _____

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Temp Camp

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/03/2022

b. Time (exact or approximate): 4:57PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): Three male with short antlers and two Female with no antler.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Walking and eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 43 Mins

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: N62.526369 W99.054217 b. Datum: None

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 0.4 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Came from North
Walking South bound

4. Weather Conditions:

Snowfall	[X]	Light	Rainfall	[X]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[ ]	Clear Sky
	[ ]	Moderate		[X]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Snowing with high wind

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Temp Camp

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/04/22

b. Time (exact or approximate): 7:30pm

[ ] Day [X] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 3 caribou had antlers and 6 of them had No antlers.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Eating / resting

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 2:00 hrs

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: N62.51395 W99.071076 b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 1.2 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
East side of camp
Walking Back and forth to South.

4. Weather Conditions:

Snowfall	[ ]	Light	Rainfall	[ ]	Light
	[ ]	Moderate		[ ]	Moderate
	[ ]	Heavy		[ ]	Heavy
Wind	[X]	Breeze	Sky	[X]	Clear Sky
	[ ]	Moderate		[ ]	Partly Cloudy
	[ ]	Strong		[ ]	Overcast

Recent Conditions: Windy Cloudy

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Nakoolak

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

Temp Camp

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[ ]	Male
[ ]	Sub-Audult	[ ]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/05/22

b. Time (exact or approximate): 5:30PM

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 5 caribou not too sure what gender.

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Seem to be walking to east toward camp

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 3 hours

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: N62.51061B W99.09308 b. Datum:

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 2.25 KM

e. Please describe the location (.e. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:
Walking toward camp right now

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

Observed by: Chris Natowich

Incidental Wildlife Sightings / Sign Form

VALORE METALS CORP

TEMP CAMP

1. What was sighted?

a. Species sighted: Caribou
(see Common Species List on reverse)

b. How many in each group?:

Age		Sex	
[X]	Adult	[X]	Male
[ ]	Sub-Audult	[X]	Female
[ ]	Yearling / newborn	[ ]	Unknown
[ ]	Unknown		

2. When was the sighting?

a. Date (MM/DD/YY): 06/05/22

b. Time (exact or approximate): 5:30

[X] Day [ ] Night [ ] Dusk [ ] Dawn

c. Description (e.g. any notes on species, size, color, antlers, etc.): 13 Caribou in total 7 had antler and 6 had no antler

d. Behaviour - Please provide a description of the animals' behaviour. What was it / were they doing? How long? etc.
Laying down/resting/eating

e. Was the individual / group sighted over a period of time? [X] Yes [ ] No If so, for how long? 11 hrs

f. Was any action taken? [ ] Yes [X] No If so, what?

3. Where was the sighting?

a. GPS Coordinates: N62.503796 W99.053593 b. Datum: none

c. Was sighting within camp? [ ] Yes [X] No d. If not, how far from camp boundary? 2.25 KM

e. Please describe the location (e.g. "on hill next to cook's tent"),as well as the direction the wildlife was traveling:

Been resting on South side of camp since this morning. Laying down and eating

4. Weather Conditions:

Snowfall	[ ] Light [ ] Moderate [ ] Heavy	Rainfall	[ ] Light [ ] Moderate [ ] Heavy
Wind	[X] Breeze [ ] Moderate [ ] Strong	Sky	[X] Clear Sky [ ] Partly Cloudy [ ] Overcast

Recent Conditions: Sunny

f. Was a photo taken? [ ] Yes [X] No
Photo (file) name/number:

Observed by: Chris Nakoda

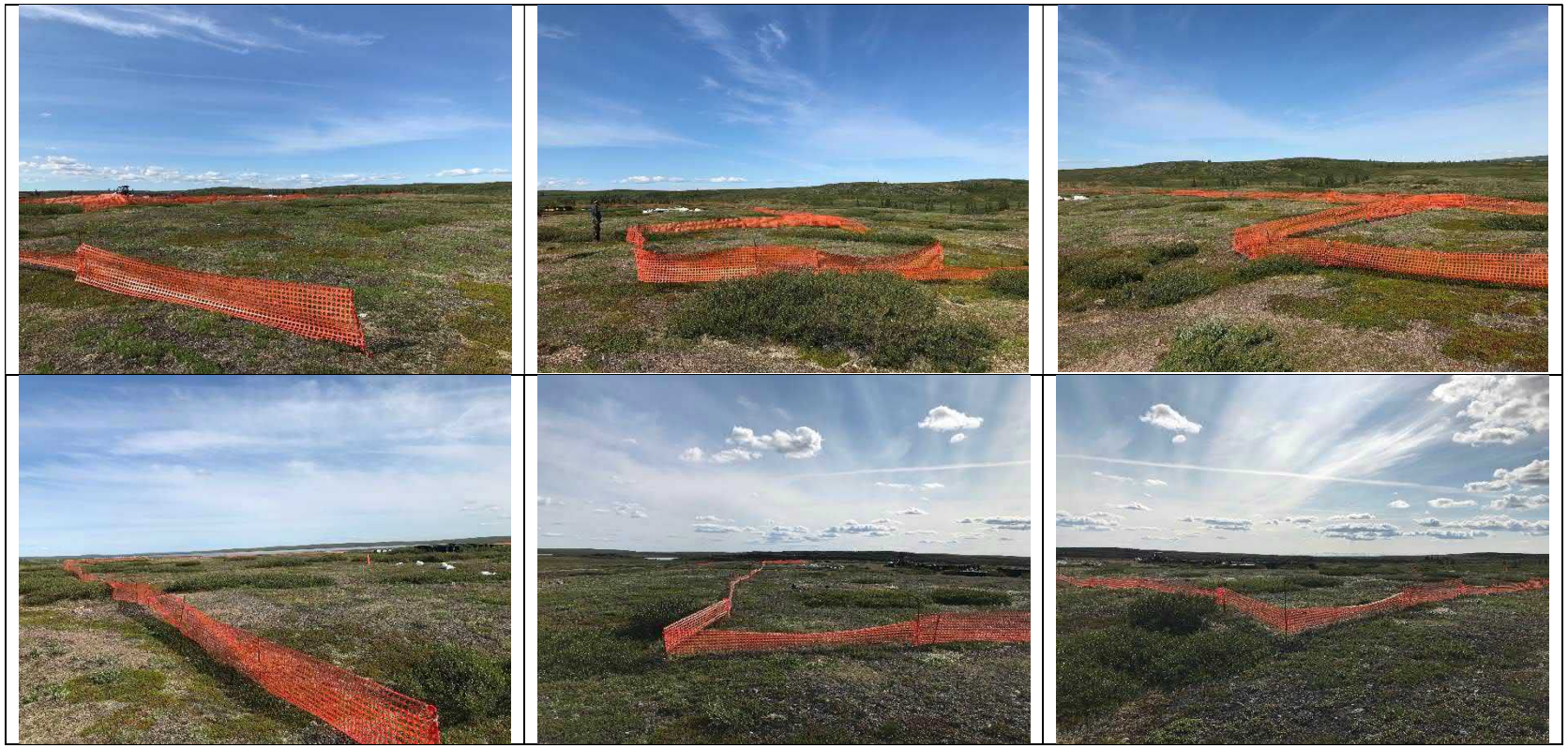
APPENDIX H

Repairs made on Nutaaq Airstrip demarcation fences

Nutaaq Airstrip – Demarcation Fences

Before July 23, 2022

Repairs conducted on July 23, 2022.



APPENDIX I

2022 Water Consumption Logs

Nutaaq Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Sun	March	20		0.1	est
Mon	March	21			
Tue	March	22		0.1	est
Wed	March	23			
Thu	March	24		0.1	est
Fri	March	25			
Sat	March	26			
Sun	March	27			
Mon	March	28		0.1	est
Tue	March	29			
Wed	March	30	New meter	New Meter	P.S. (Install meters)
Thu	March	31	0.3518	0.4062	S.A.
			0.3518	0.8062	Total (cub m)

Nutaaq Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Fri	April	1	0.4298	0.6798	C.S.
Sat	April	2	0.7403	1.0875	C.S.
Sun	April	3	0.8378	1.4149	C.S.
Mon	April	4	1.6352	1.9456	C.S.
Tue	April	5	2.4046	2.5965	C.S.
Wed	April	6	2.9457	3.4351	C.S.
Thu	April	7	3.4632	4.0857	C.S.
Fri	April	8	4.3118	4.8118	C.S.
Sat	April	9	5.0878	5.4718	C.S.
Sun	April	10	5.3723	6.0434	C.S.
Mon	April	11	5.7376	6.5743	C.S.
Tue	April	12	5.7503	6.9562	C.S.
Wed	April	13	6.2420	7.5712	C.S.
Thu	April	14	6.8503	8.2125	C.S.
Fri	April	15	7.5187	9.4731	S.A.
Sat	April	16	8.2654	9.9746	C.S.
Sun	April	17	9.6921	10.7515	A.C.
Mon	April	18	10.6607	11.4629	A.C.
Tue	April	19	11.7199	12.2448	A.C.
Wed	April	20	12.6904	12.9720	A.C.
Thu	April	21	13.4929	13.6730	A.C.
Fri	April	22	14.9985	14.1618	A.C.
Sat	April	23	16.8543	14.8907	A.C.
Sun	April	24	16.7921	15.3392	A.C.
Mon	April	25	17.9375	15.8586	A.C.
Tue	April	26	19.9065	15.3377	A.C.
Wed	April	27	21.0354	16.8045	C.S.
Thu	April	28	22.1410	17.5207	C.S.
Fri	April	29	22.9057	18.1927	C.S.
Sat	April	30	23.7744	18.7099	C.S.
			23.3446	18.0301	Total (cub m)

Nutaaq Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Sun	May	1	24.4069	19.2944	C.S.
Mon	May	2	25.7101	19.8991	C.S.
Tue	May	3	26.6737	20.5683	C.S.
Wed	May	4	27.8377	21.2830	C.S.
Thu	May	5	28.5288	21.9475	C.S.
Fri	May	6	29.2116	22.5523	C.S.
Sat	May	7	30.4166	23.4675	C.S.
Sun	May	8	31.6296	24.0281	C.S.
Mon	May	9	32.3673	24.9934	C.S.
Tue	May	10	33.1292	25.4688	C.S.
Wed	May	11	34.3571	25.5799	C.S.
Thu	May	12	35.0696	26.6136	S.A.
Fri	May	13	35.824	27.1716	C.S.
Sat	May	14	36.5265	27.6747	C.S.
Sun	May	15	37.3919	28.2944	C.S.
Mon	May	16	38.2943	28.9167	C.S.
Tue	May	17	39.2661	29.4599	C.S.
Wed	May	18	40.4204	30.0253	S.A.
Thu	May	19	41.3402	30.4567	C.S.
Fri	May	20	42.5504	31.3812	C.S.
Sat	May	21	43.5726	32.1753	C.S.
Sun	May	22	44.4641	32.7791	C.S.
Mon	May	23	45.1421	33.4521	S.A.
Tue	May	24	45.1421	33.8994	C.S.
Wed	May	25	46.7825	34.5958	C.S.
Thu	May	26	47.4795	34.4121	C.S.
Fri	May	27	48.1864	36.0541	A.C.
Sat	May	28	49.0604	36.7339	A.C.
Sun	May	29	49.9913	37.2895	A.C.
Mon	May	30	50.6185	37.9326	W.A
Tue	May	31	51.6149	38.6155	W.A
			27.2080	19.3211	Total (cub m)

Nutaaq Camp Summer 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Wed	June	1	52.2314	39.1493	P.S.
Thu	June	2	52.7142	39.7255	W.A.
Fri	June	3	53.7752	40.3341	W.A.
Sat	June	4	54.7590	40.8990	W.A.
Sun	June	5	54.5976	41.2845	W.A.
Mon	June	6	55.5252	41.8829	W.A.
Tue	June	7	56.0221	42.5850	W.A.
Wed	June	8	56.6392	43.2272	W.A.
Thu	June	9	57.6080	43.7582	W.A.
Fri	June	10	58.3030	44.3038	W.A.
Sat	June	11	58.9149	44.9411	W.A.
Sun	June	12	59.5555	45.4572	W.A.
Mon	June	13	60.3429	46.1377	W.A.
Tue	June	14	60.8893	46.8730	W.A.
Wed	June	15	61.7262	47.5475	W.A.
Thu	June	16	62.5851	48.2517	S.A.
Fri	June	17	63.2015	48.699	P.S.
Sat	June	18	63.9876	49.2382	P.S.
Sun	June	19	64.3576	49.8294	S.A.
Mon	June	20	64.6370	50.4575	S.A.
Tue	June	21	65.1322	51.032	S.A.
Wed	June	22	65.2963	51.4756	S.A.
Thu	June	23	65.6150	51.9988	S.A.
Fri	June	24	65.9677	52.6226	S.A.
Sat	June	25	66.7237	53.2265	S.A.
Sun	June	26	67.3255	53.6204	S.A.
Mon	June	27	67.7126	54.0505	E.A.
Tue	June	28	67.9215	54.1594	S.A.
Wed	June	29	68.0060	54.2541	S.A.
Thu	June	30	68.2923	54.3923	S.A.
			16.0609	15.243	Total (Cub m)

Nutaaq Camp Summer 2022
Water Log

						Drill 1	
Day	**Month**	**Date**	**Dry (1)**	**Kitchen (2)**	**Initials**	**Water meter reading**	**Volume (Cubic m)**
Fri	July	1	68.5649	54.4303	S.A.		
Sat	July	2	68.7019	54.5883	S.A.		
Sun	July	3	68.8126	54.6990	S.A.		
Mon	July	4	69.0541	54.8570	S.A.		
Tue	July	5	69.1698	54.9441	S.A.		
Wed	July	6	69.2173	55.0554	S.A.		
Thu	July	7	69.4854	55.2476	S.A.		
Fri	July	8	69.6143	55.3649	S.A.		
Sat	July	9	69.7932	55.4930	S.A.		
Sun	July	10	69.9533	55.5925	S.A.		
Mon	July	11	70.2797	55.7668	S.A.		
Tue	July	12	70.4736	55.9055	S.A.		
Wed	July	13	70.6376	56.0753	S.A.		
Thu	July	14	70.9003	56.3016	S.A.		
Fri	July	15	71.7921	56.6584	W.A.		
Sat	July	16	71.9985	57.1021	W.A.		
Sun	July	17	72.6600	57.5453	W.A.		
Mon	July	18	73.1359	58.2771	W.A.		
Tue	July	19	73.6705	58.6951	W.A.		
Wed	July	20	74.4469	59.2752	W.A.		
Thu	July	21	75.5206	59.7903	W.A.		
Fri	July	22	76.1620	60.4029	W.A.	Started drilling, est	22.0000
Sat	July	23	76.7249	61.0584	W.A.	est	38.0000
Sun	July	24	77.3814	61.9862	W.A.	no drilling	0.0000
Mon	July	25	78.1459	62.6585	W.A.	est	40.0000
Tue	July	26	78.8773	63.4287	W.A.	est	25.0000
Wed	July	27	79.7726	64.1099	D.H.	est	40.0000
Thu	July	28	80.3539	64.8097	D.H.	no drilling	0.0000
Fri	July	29	80.7726	65.5067	D.H.	est	10.0000
Sat	July	30	81.7391	66.3138	D.H.	est	10.0000
Sun	July	31	82.6435	67.0253	D.H.	est	10.0000
			14.0786	12.5950	Total (Cub m)		195.0000

Nutaaq Camp Summer 2022
Water Log

						Drill 1		Drill 2	
Day	Month	Date	Dry (1)	Kitchen (2)	Initials	Water meter reading	Volume (Cubic m)	Water meter reading	Volume (Cubic m)
Wed	August	1	83.2753	67.9738	D.H.	est	10.0000		
Thu	August	2	84.0954	68.8111	D.H.	est	38.0000	Started drilling, est	34.0000
Fri	August	3	85.4601	69.9420	D.H.	no drilling	0.0000	est	36.0000
Sat	August	4	86.3564	71.1564	D.H.	est	28.0000	est	39.0000
Sun	August	5	87.4616	73.1734	D.H.	est	30.0000	est	32.0000
Mon	August	6	88.6621	74.7015	D.H.	install water meter, est	43.0000	install water meter, est	40.0000
Tue	August	7	89.8363	75.8577	D.H.	37.0700	37.0700	40.7843	40.7843
Wed	August	8	90.7276	77.0793	D.H.	75.3900	38.3200	60.4400	19.6557
Thu	August	9	92.1704	78.5769	D.H.	116.2800	40.8900	118.5400	58.1000
Fri	August	10	92.9524	79.8793	D.H.	147.1300	30.8500	158.2300	39.6900
Sat	August	11	94.2265	81.3173	D.H.	176.6000	29.4700	182.4700	24.2400
Sun	August	12	95.2185	82.6480	D.H.	209.1000	32.5000	meter stopped working? est	42.0000
Mon	August	13	96.7486	84.0846	D.H.	250.6000	41.5000	move to J4W	0.0000
Tue	August	14	97.6420	84.9430	W.A.	283.0000	32.4000	no drilling	0.0000
Wed	August	15	98.7593	85.9179	W.A.	324.7000	41.7000	meter reset? est	22.0000
Thu	August	16	100.2020	87.0233	W.A.	368.0000	43.3000	84.2000	26.0000
Fri	August	17	101.4629	87.8366	W.A.	411.0000	43.0000	108.2000	24.0000
Sat	August	18	102.4080	88.7296	W.A.	454.0000	43.0000	126.0000	17.8000
Sun	August	19	103.3017	89.8283	W.A.	475.0000	21.0000	meter reset? est	20.0000
Mon	August	20	105.2668	90.9222	W.A.	no drilling	0.0000	28.0000	28.0000
Tue	August	21	106.8153	91.8471	R.A.	581.0000	106.0000	54.0000	26.0000
Wed	August	22	107.9116	92.6014	S.A.	613.0000	32.0000	68.0000	14.0000
Thu	August	23	108.9150	93.4792	R.A.	651.0000	38.0000	85.0702	17.0702
Fri	August	24	109.0610	94.3871	S.A.	671.4510	20.4510	meter reset? est	29.0000
Sat	August	25	111.1157	95.2746	S.A.	731.5038	60.0528	est	15.0000
Sun	August	26	112.5746	96.2124	D.H.	769.7404	38.2366	est	22.0000
Mon	August	27	113.6787	96.9385	D.H.	788.8804	19.1400	finish hole, weather	0.0000
Tue	August	28	114.5709	98.1810	D.H.	no drilling	0.0000	weather	0.0000
Wed	August	29	115.1061	98.9785	D.H.	weather	0.0000	weather	0.0000
Thu	August	30	116.2093	99.7908	D.H.	meter stopped working, est	38.0000	meter reset? est	22.0000
Fri	August	31	116.6557	100.5943	D.H.	meter stopped working, est	32.0000	est	24.0000
			33.3804	32.6205	Total (Cub m)		1007.8804	Total (Cub m)	712.3402

Nutaaq Camp Summer 2022
Water Log

						Drill 1		Drill 2	
Day	Month	Date	Dry (1)	Kitchen (2)	Initials	Water meter reading	Volume (Cubic m)	Water meter reading	Volume (Cubic m)
Thu	September	1	117.3716	101.2952	D.H.	meter stopped working, est	35.0000	est	22.0000
Fri	September	2	118.0622	102.0059	D.H.	meter stopped working, est	39.0000	est	28.0000
Sat	September	3	118.6692	102.6241	D.H.	Demobe		Demobe	
Sun	September	4	119.5729	103.2811	D.H.				
Mon	September	5	121.0319	104.0935	D.H.				
Tue	September	6	122.2589	104.8308	D.H.				
Wed	September	7	123.6013	105.5706	D.H.				
Thu	September	8	124.0316	106.2784	D.H.				
Fri	September	9	125.3103	106.8744	D.H.				
Sat	September	10	126.5793	107.8981	S.A				
Sun	September	11	127.0617	107.8981	D.H.				
Mon	September	12	128.7269	108.5151	D.H.				
Tue	September	13	129.7887	109.0691	D.H.				
Wed	September	14	130.1262	109.4580	S.A. (Close camp)				
			12.7546	8.1628	Total (Cub m)		74.0000	Total (Cub m)	50.0000

Temporary Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Sun	April	17	1	0	est
Mon	April	18			
Tue	April	19			
Wed	April	20			
Thu	April	21			
Fri	April	22	0.2	0	est
Sat	April	23	0.2	0	est
Sun	April	24	0.2	0	est
Mon	April	25	0.3	0	S.K.
Tue	April	26	0.2	0	est
Wed	April	27	0.25	0	est
Thu	April	28	0.21	0	est
Fri	April	29	0.25	0	est
Sat	April	30	0.22	0	est
			3.03	0	Total (cub m)

Temporary Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Mon	May	1	0.45	0	D.R.
Tue	May	2	0.3	0	D.R.
Wed	May	3	0.51	0	D.R.
Thu	May	4	0.42	0	D.R.
Fri	May	5	0.0541	0.0198	D.R. (install water meters)
Sat	May	6	0.6097	0.1220	D.R.
Sun	May	7	1.3434	0.2421	D.R.
Mon	May	8	1.8887	0.3804	D.R.
Tue	May	9	3.0192	0.4998	D.R.
Wed	May	10	3.9865	0.5644	D.R.
Thu	May	11	6.1973	0.7676	D.R.
Fri	May	12	9.6375	0.9523	D.R.
Sat	May	13	7.3612	0.9702	D.R.
Sun	May	14	8.3051	1.0399	D.R.
Mon	May	15	9.4063	1.1339	D.R.
Tue	May	16	10.2416	1.2274	D.R.
Wed	May	17	11.1976	1.3183	D.R.
Thu	May	18	11.4437	1.3379	D.R.
Fri	May	19	11.5809	1.3611	D.R.
Sat	May	20	11.8217	1.3673	D.R.
Sun	May	21	12.6729	1.3767	D.R.
Mon	May	22	13.2433	1.4113	D.R.
Tue	May	23	13.3456	1.4420	D.R.
Wed	May	24	13.5476	1.4732	D.R.
Thu	May	25	13.8941	1.5065	D.R.
Fri	May	26	14.0774	1.5571	D.R.
Sat	May	27	14.2963	1.5918	D.R.
Sun	May	28	14.6184	1.6242	A.C.
Mon	May	29	14.6610	1.6293	A.C.
Tue	May	30	14.8734	1.6423	A.C.
Wed	May	31	14.9807	1.6649	A.C.
			16.6607	1.6649	Total (cub m)

Temporary Camp Spring 2022
Water Log

Day	Month	Date	Dry (1)	Kitchen (2)	Initials
Wed	June	1	15.0879	1.6874	A.C.
Thu	June	2	15.4048	1.7332	A.C.
Fri	June	3	15.5199	1.7351	A.C.
Sat	June	4	15.7749	1.7449	A.C.
Sun	June	5	15.8962	1.7616	A.C.
Mon	June	6	16.0672	1.7844	E.A.
Tue	June	7	16.5280	1.8145	E.A.
Wed	June	8	16.7707	1.8489	E.A. (Camp closed)
			1.6828	0.1615	Total (cub m)

APPENDIX J

2022 KBL Environmental Ltd. Invoices

Invoice

Date	Page
Apr 20, 2022	1
Invoice Number	
OE60814	

KBL Environmental Ltd.

PO Box 1895
17 Cameron Rd.
Yellowknife, NT X1A 2P4

Sold To:

ValOre Metals Corp
Suite 1020 – 800 West Pender St
Vancouver, BC V6C 2V6
Canada

Ship To:

ValOre Metals Corp
Suite 1020 – 800 West Pender St
Vancouver, BC V6C 2V6
Canada

Manifest No.	BOL No.	BOL Date	Customer No.	PO Number	Ship Via	Terms
	YK0000005461	Apr 20, 2022	VAL001		FFLO	30DAYS

Qty. Ord.	Item Number	Description	Unit Price	UOM	Extended Price
28.00	DR-NRSIA	NON REGULATED SOLIDS-INCINERATOR ASH	135.00	DRUM	3,780.00
2.00	TT	TECHNICIAN TIME	85.00	EACH	170.00

Comments:

Tax summary:

GST 197.50

Subtotal	**3,950.00**
Total sales tax	**197.50**
Total amount	**4,147.50**
Amount due	**4,147.50**

accounting@kblenv.com

GST/HST Registration #: 843759747

Invoice

Date	Page
Apr 28, 2022	1
Invoice Number	
OE61290	

KBL Environmental Ltd.

PO Box 1895
17 Cameron Rd.
Yellowknife, NT X1A 2P4

Sold To:

ValOre Metals Corp
Suite 1020 – 800 West Pender St
Vancouver, BC V6C 2V6
Canada

Ship To:

ValOre Metals Corp
Suite 1020 – 800 West Pender St
Vancouver, BC V6C 2V6
Canada

Manifest No.	BOL No.	BOL Date	Customer No.	PO Number	Ship Via	Terms
	YK0000005495	Apr 28, 2022	VAL001		BUF	30DAYS

Qty. Ord.	Item Number	Description	Unit Price	UOM	Extended Price
22.00	MB-NRSGD	NON REGULATED SOLIDS-GENERAL DEBRIS	95.00	MEGABAG	2,090.00
2.00	MB-NRSSM	NON REGULATED SCRAP METAL	175.00	MEGABAG	350.00
1.00	MB-NRSOD	NON REGULATED SOLIDS-OILY DEBRIS	222.50	MEGABAG	222.50
1.00	PU2	PICK UP	100.00	EA	100.00

Comments:

Tax summary:

GST	138.13

Subtotal	**2,762.50**
Total sales tax	**138.13**
Total amount	**2,900.63**
Amount due	**2,900.63**

accounting@kblenv.com

GST/HST Registration #: 843759747

Invoice

Date	Page
Sep 28, 2022	1
Invoice Number	
OE70523	

KBL Environmental LTD.

KBL Environmental Ltd.

PO Box 1895
17 Cameron Rd.
Yellowknife, NT X1A 2P4

Sold To:

Discovery Mining Services
Box 2248
Yellowknife, N.W.T. X1A 2P7
Canada

Ship To:

Discovery Mining Services
Box 2248
Yellowknife, N.W.T. X1A 2P7
Canada

Manifest No.	BOL No.	BOL Date	Customer No.	PO Number	Ship Via	Terms
	YK0000005942	Sep 28, 2022	DIS001	NUTAUG	DIS	30DAYS

Qty. Ord.	Item Number	Description	Unit Price	UOM	Extended Price
4.00	MB-NRSGD	NON REGULATED SOLIDS-GENERAL DEBRIS	95.00	MEGABAG	380.00
1.00	SC-NRSP	NON REGULATED SOLIDS-PLASTICS	150.00	SM CRATE	150.00

POSTED

Picked up @ Tindi

Comments:

Tax summary:

GST 26.50

Subtotal	**530.00**
Total sales tax	**26.50**
Total amount	**556.50**
Amount due	**556.50**

accounting@kblenv.com

GST/HST Registration #: 843759747

VALone

APPENDIX K

2022 Incinerator Logs

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
16-Apr-2022	20	15			30	
					20	
					37	
					43	
					55	
					35	
					25	
					45	
					40	
18-Apr-2022	55	20		27	47	
				35	35	
				46	43	
				23	30	
				32		
				53		
				20		
				17		
				40		
				43		
				37		
				35		
				26		
20-Apr-2022	30	17		26	27	
				17	20	
				12		
				15		
				23		
21-Apr-2022	28	17		25	27	
				20	20	

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				15		
				13		
				27		
25-Apr-2022	25	23		5	34	
				15	25	
				26		
				10		
				30		
				32		
26-Apr-2022	35	20		5	12	
				8	23	
				26	25	
				13		
				7		
				10		
				5		
				10		
				20		
		9	4	14		
27-Apr-2022		9	5	20	5	
			2	12	9	
		5		8		
		2		5		
				2		
				7		
				10		
				8		
				9		
				3		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
28-Apr-2022				8		
				8		
				9		
				1		
				6		
					7	
		2				
				5		
				11		
				10		
				8		
29-Apr-2022				4		
				8		
				7		
30-Apr-2022				3	8	
				11		
				8		
				6		
				5		
				3		
Total	193	139	11	1068	727	0
01-May-2022				50	16.5	
				11	16	
02-May-2022				47		62
				6		
				4		
				5		
				9		
				11		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				2		
03-May-2022				58	30	
04-May-2022				41	29	
05-May-2022				51		
				5		
06-May-2022				47	26	
07-May-2022				47		
08-May-2022				48	35	
09-May-2022				41	19	
10-May-2022				44		
12-May-2022				16	33	
				6	32	
				8		
13-May-2022				16		
				19		
				8		
14-May-2022				15		
				9		
				5		
15-May-2022				16	9	
				19		
				7		
				3		
				10		
16-May-2022				12		
				15		
				18		
				11		
				11		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
17-May-2022				7		
				17		
				18		
18-May-2022				7		
				17		
				16		
				9	24	
				20		
19-May-2022				8		60
				4		
				14		
				14		
				8		
20-May-2022				17	5	
				14	16	
				19	6	
		6		6		
				6		
				7		
21-May-2022		7		10		
				17		
22-May-2022				17		
		9		13		
				9		
				11		
23-May-2022				23	17	
		4	2	19	12	
24-May-2022				16		
				12		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				16		
				13		
				8		
	12					
25-May-2022				20		
				20		
				11		
26-May-2022				20	16	
				14		
				17		
				11		
				16		
27-May-2022				7		
				42		
					14	
			2			
				3		
28-May-2022				20		
				15		
29-May-2022				13		
				12		
				10		
					17	
				12		
30-May-2022				16	15	
				9		
				16		
				18		
				10		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
31-May-2022		5		8		
				7	15	
				8		
				17		
				17		
				10		
Total	12	31	4	1562	402.5	122
01-Jun-2022				10		
				16		
				6		
02-Jun-2022				9		
				11		
				13		
				12	16	
				4		
03-Jun-2022				11		
				22		
				16		
04-Jun-2022				13	17	
				8	21	
				17		
				9		
05-Jun-2022				12		
				10		
				6		
				9	25.5	
06-Jun-2022				8		
				15		
07-Jun-2022				12		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				17.5		
				5		
		4				
					21	
08-Jun-2022		15		16	21	
				12		
				7		
09-Jun-2022				12	2.5	
				11		
				18.5		
10-Jun-2022		3		21	13	
		11		10	14	
		2		6		
11-Jun-2022				13		
				13		
				23		
				4		
					15	
12-Jun-2022				6		
				13		
				9		
				11		
				9		
					11	
13-Jun-2022				14		
				5		
				3		
				2		
				2		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
14-Jun-2022		12		18	16	
				23	17	
15-Jun-2022		5	2	14		
				5		
				9		
16-Jun-2022		10		10	33	
				4		
				20		
				9		
				11		
				12		
17-Jun-2022				6		
				19		
				15		
				7		
					14	
					14	
		14				
18-Jun-2022						42
	10	5		3		
				10		
19-Jun-2022				5		
				25		
				18		
		8				
20-Jun-2022				17		
				26		
		4				
21-Jun-2022				20		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
					19	
22-Jun-2022				27		
				15		
				12		
23-Jun-2022	6	2		12	16	
				16		
				10		
		4		13	8	
24-Jun-2022				19		
				3		
				8		
25-Jun-2022				12		
				10		
		7				
26-Jun-2022				10		
				17		
				10		
28-Jun-2022				10		
				13		
Total	16	106	2	1035	314	42
02-Jul-2022				11		
				11		
03-Jul-2022				6		
05-Jul-2022				5	11	
06-Jul-2022				9		
					10	
08-Jul-2022				9		
11-Jul-2022				10		50
12-Jul-2022				5	7	
13-Jul-2022				9		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
14-Jul-2022	5	4	2	8		
				9		
15-Jul-2022			2	12		
	4	6		4		
16-Jul-2022	5	4		4	15	
				12	6	
				6		
				3		
17-Jul-2022				5		
				7		
				8		
18-Jul-2022				4		
				25		
				10		
				3		
				5		
				1		
19-Jul-2022				7		
				3		
				6		
				4		
				4		
				9		
				4		
				4		
21-Jul-2022			6	10	23	
				7		
				8		
				8		
				8		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
22-Jul-2022			13	2		
				5		
				7		
				5		
				4		
			2			
			1			
23-Jul-2022				3		
				2		
				2		
				5		
				5		
				4		
				14		
24-Jul-2022				19	20	
				4	10	
				3	9	
				3	13	
25-Jul-2022				10		
				2		
26-Jul-2022				5		
				5		
				3		
				2		
				20		
		6		23		
27-Jul-2022				5		
				6		
				4		
				5		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				2		
				2		
		12	2.5		17	
28-Jul-2022		2		6		
			7	14		
			1.5			
29-Jul-2022		0.5	25	5	15	
				6	14	
				3		
				6		
				10		
				1		
				2.5		
				10		
				6		
30-Jul-2022		4	1		18	
				12	15	
				8		
				15		
31-Jul-2022				19		
				7		
				15		
Total	14	38.5	63	609.5	203	50
01-Aug-2022				13		
02-Aug-2022				14	25	
				15	19	
				30	10	
					12	
04-Aug-2022				7		
				8		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				5		
				3		
		4	2	10		
05-Aug-2022				17	18	
				7		
				10		
		10				
06-Aug-2022				30		
				11		
07-Aug-2022				10		
				5		
			3			
				16		
				3		
		8				
08-Aug-2022			2	14	25	
				16	15	
				7		
				6		
				8		
09-Aug-2022				4		
				4		
				11		
				9		
				2		
				1		
10-Aug-2022				7		
				7		
				9		
				8		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				6		
16-Aug-2022				9	24	
				8		
				3		
				3.5		
				1		
				9		
				3		
				8		
				6		
				8		
				8		
				9		
				6		
				2		
17-Aug-2022				20		
				12		
				13		
19-Aug-2022				12	16	
				16		
				15		
				10		
				6		
20-Aug-2022				12		
				14		
				18		
				18		
21-Aug-2022				16		
				11		
				17		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				11		
				12		
28-Aug-2022				20		
				15		
				10		
29-Aug-2022				20		
				14		
				13		
		4				
				10		
				11		
			5		22	
30-Aug-2022				20		
				17		
					23	
				11		
31-Aug-2022				17	21	
				25		
				14		
Total	0	26	12	866.5	230	0
01-Sep-2022				17		
				10		
02-Sep-2022				11		
				21		
				14		
				16		
				21		
				9		
03-Sep-2022				17		
				25		

Nutaaq Camp Incinerator Log
Waste from Nutaaq Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
				15		
					17	
					19	
04-Sep-2022				20		
				12		
				11		
05-Sep-2022					28	
				15		
				20		
				14		
06-Sep-2022				12	21	
				8		
07-Sep-2022				17	26	
				21		
				25		
08-Sep-2022				13		
				13		
				7		
				13		
09-Sep-2022				8		
11-Sep-2022		5	3	12	19	
				7	14	
				9		
12-Sep-2022			15	25		
13-Sep-2022					15	
					15	
Total	0	5	18	458	174	0

Nutaaq Camp Incinerator Log
Waste from Temp Camp

	Weight of material being incinerated					
Date	**Timber**	**Cardboard**	**Office Waste**	**Kitchen Waste**	**Pacto Waste**	**Ash**
			(paper products)	*(Food Waste)*	*(Sewage)*	
DD-MMM-YYYY	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*	*(kg)*
28-Apr-2022				10		
				3		
				9		
				8		
				9		
				7		
				7		
					11	
					7	
					7	
		8				
29-Apr-2022				16		
					10	
		9				
		3				
		4				
Total	0	24	0	69	35	0
02-May-2022				52	37	
03-May-2022				7		
05-May-2022				62	25	
11-May-2022				144	100	
14-May-2022				18	20	
				25	12	
				21	14	
19-May-2022				12		
				8	11	
				16	13	
				15		
				13		
				6		
Total	0	0	0	399	232	0
05-Jun-2022				12		
				12		
				10		
				9		
				11		
				16		
				24		
					39	
		20				
06-Jun-2022		35				
Total	0	55	0	94	39	0

APPENDIX L

2022 Spill Reports and Remediation Completed

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE
TEL: (867) 920-8130
FAX: (867) 873-6924
EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR 04092022	REPORT TIME 22h15	☒ ORIGINAL SPILL REPORT, OR ☐ UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER 22 - 124
B	OCCURRENCE DATE: MONTH – DAY – YEAR 04082022	OCCURRENCE TIME 05h34		

C	LAND USE PERMIT NUMBER (IF APPLICABLE) N2019C0013	WATER LICENCE NUMBER (IF APPLICABLE) 2BE-ANG1318 Type "B"
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION Nutaaq Camp, Angilak Project	REGION ☐ NWT ☒ NUNAVUT ☐ ADJACENT JURISDICTION OR OCEAN
E	LATITUDE DEGREES 62 MINUTES 34 SECONDS 15	LONGITUDE DEGREES 98 MINUTES 27 SECONDS 19
F	RESPONSIBLE PARTY OR VESSEL NAME ValOre Metals Corp.	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION 1020-800 West Pender Street, Vancouver, V6C 2V6
G	ANY CONTRACTOR INVOLVED	CONTRACTOR ADDRESS OR OFFICE LOCATION

H	PRODUCT SPILLED Arctic Diesel (P50)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES 45 liters	U.N. NUMBER 1202
	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER
I	SPILL SOURCE Diesel generator	SPILL CAUSE Diesel filter drain stop cock	AREA OF CONTAMINATION IN SQUARE METRES 1.8m2
J	FACTORS AFFECTING SPILL OR RECOVERY Filter drain stop cock not tight	DESCRIBE ANY ASSISTANCE REQUIRED n/a	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT absorb pads put into container

K — ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS

A rental diesel generator was flown into camp the previous day and due to vibration and rapid rising temperatures had loosened the filter drain stop cock. Early in the morning, 05h34, this fuel line came off and diesel flowed onto the plywood floor of generator shack resulting in the generator stopping with a subsequent cut in camp power supply. The floor had been covered with several absorbent pads and hence soaked up the diesel outflow of about 45liters of diesel, estimated by weight of the absorbent pads. The contaminated absorbent pads were collected and put into a "Contaminated Pads" drum for containment and will be shipped out of camp to a licensed cleaning facility during Spring Mobe 2023.

L	REPORTED TO SPILL LINE BY P Schoeman	POSITION Project Manager	EMPLOYER APEX Geoscience	LOCATION CALLING FROM Nutaaq Camp	TELEPHONE 867-675-0052
M	ANY ALTERNATE CONTACT C. Smith	POSITION VP Exploration	EMPLOYER ValOre Metals Corp.	ALTERNATE CONTACT LOCATION Vancouver	ALTERNATE TELEPHONE 604-499-1820

REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130

LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC | SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN | FILE STATUS ☐ OPEN ☐ CLOSED

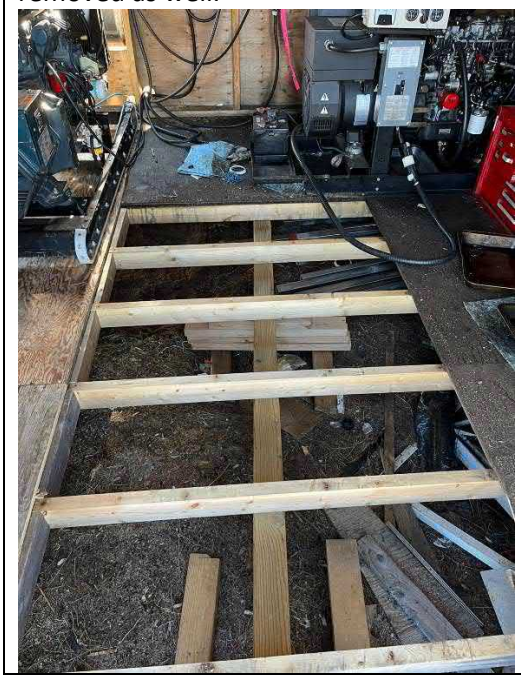
AGENCY	CONTACT NAME	CONTACT TIME	REMARKS
LEAD AGENCY			
FIRST SUPPORT AGENCY			
SECOND SUPPORT AGENCY			
THIRD SUPPORT AGENCY			

Spill File 2022-124: ValOre Metals Corp., Nutaaq Camp, Generator shack: Remediation conducted from July 3 to 5 and 8, 2022.

Floor removed from just inside the door, clean (W).

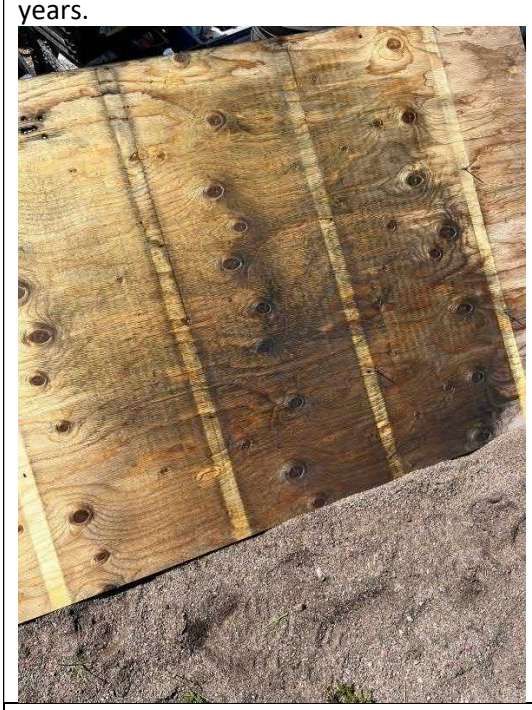
Floor removed from underneath the S gen, some old stained, contaminated sand.

Central part of floor removed, plenty of garbage discovered and removed. Contaminated sand removed as well.

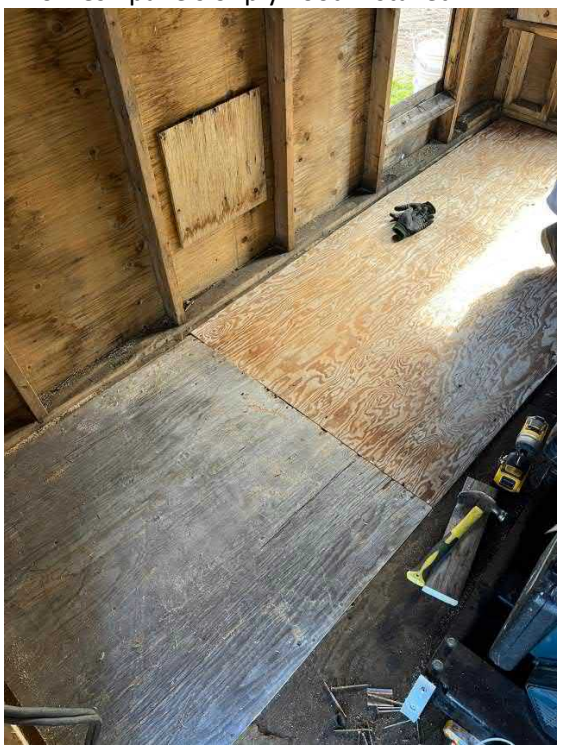


Floor removed from underneath the N gen, some old stained, contaminated sand.

The underside of floor underneath the S gen, diesel clearly has penetrated the sheet of plywood over the years.

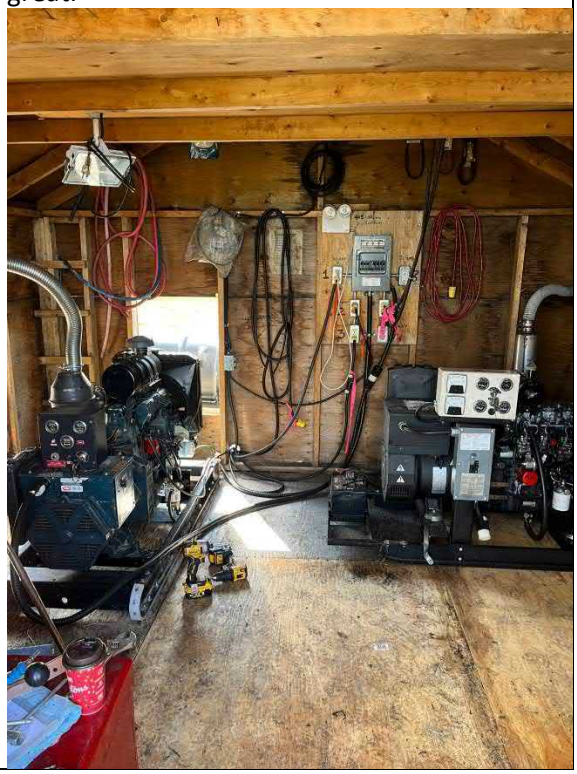


Two fresh panels of plywood installed.



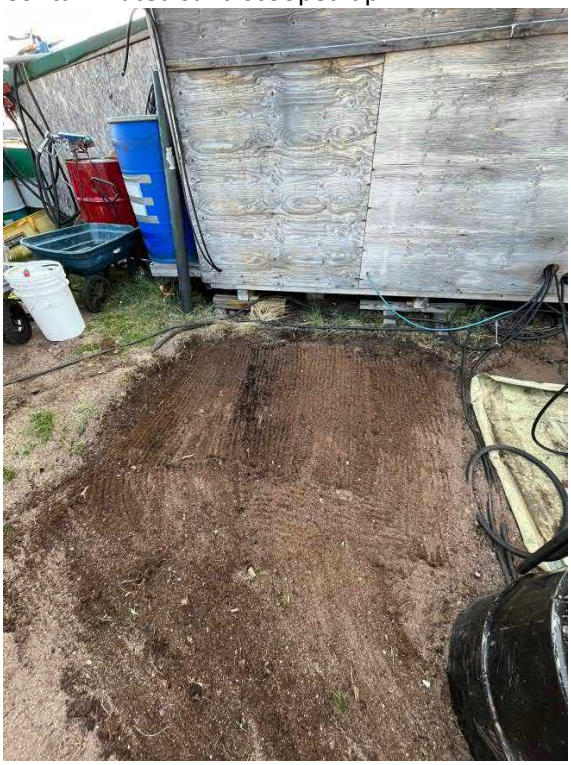
More fresh sheets of plywood installed, ¾ inch instead of the ½ inch used which were sagging due to the gen's weight.

Floor replacement completed and looking great.

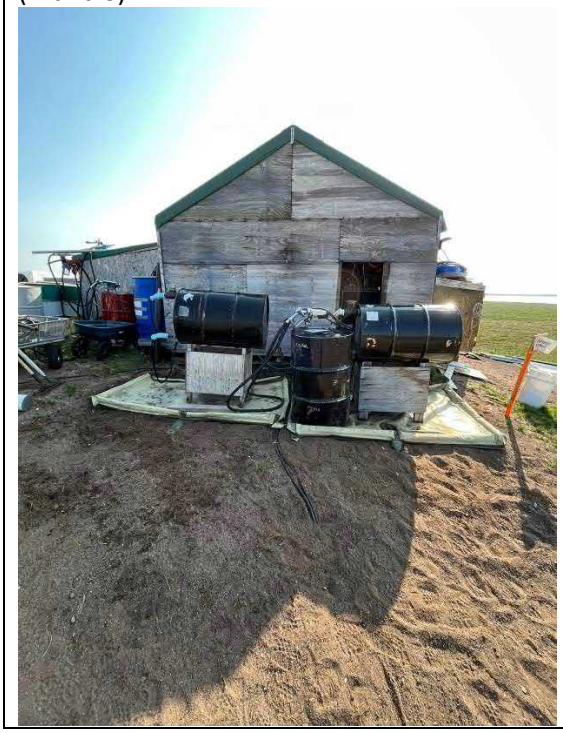


Stain underneath the N, small berm, outside the gen shack.

Contaminated sand scooped up.



The P50 supply to the gens setup after scooping contaminated sand from underneath both berms (N and S).



Two drums full of contaminated sand, lidded and currently inside the little berm north of berm West A.

Four and a bit sheets of contaminated plywood which are very clearly stained with P50 and motor oil over the years, bent due to weight of both gens.

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE
TEL: (867) 920-8130
FAX: (867) 873-6924
EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR **08052022**	REPORT TIME **01h00**	[X] ORIGINAL SPILL REPORT, OR ☐ UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER **22 - 399**
B	OCCURRENCE DATE: MONTH – DAY – YEAR **08032022**	OCCURRENCE TIME **04h00 to 06h00**		

C	LAND USE PERMIT NUMBER (IF APPLICABLE) **N2019C0013**	WATER LICENCE NUMBER (IF APPLICABLE) **2BE-ANG2227 Type "B"**
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION **Dipole prospect, Angilak Project**	REGION ☐ NWT [X] NUNAVUT ☐ ADJACENT JURISDICTION OR OCEAN
E	LATITUDE DEGREES **62** MINUTES **31** SECONDS **17**	LONGITUDE DEGREES **99** MINUTES **8** SECONDS **11**
F	RESPONSIBLE PARTY OR VESSEL NAME **ValOre Metals Corp.**	RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION **1020-800 West Pender Street, Vancouver, V6C 2V6**
G	ANY CONTRACTOR INVOLVED **518 Drilling Ltd**	CONTRACTOR ADDRESS OR OFFICE LOCATION **P.O. Box 285, Woodlands, MB, R0C 3H0**

H	PRODUCT SPILLED **Arctic Diesel (P50)**	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES **200 liters**	U.N. NUMBER **1202**
	SECOND PRODUCT SPILLED (IF APPLICABLE)	QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER

I	SPILL SOURCE **Diesel fly tank**	SPILL CAUSE **Wobble pump hose dropped**	AREA OF CONTAMINATION IN SQUARE METRES **20m2**
J	FACTORS AFFECTING SPILL OR RECOVERY **Hose not attended at all times**	DESCRIBE ANY ASSISTANCE REQUIRED **n/a**	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT **Absorb pads put into container**

K ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS

Diamond drill core rig suffered a breakdown in the head, stopping drill operations. The helper must have been filling equipment with the wobble pump, leaving the hose unattended and falling asleep and the P50 began gravity siphoning out of the fly tank. The helper could not be interviewed since he and the driller were removed from site on very short notice.

Initially 1 absorbent sausage was deployed with numerous blue spill absorbent pads to contain the P50 spreading over the small, water filled depression, these absorbent pads have been switched out with fresh absorbent pads and 2 more absorbent sausages were added. Absorbent pad switch-out has occurred over the last 36 hours and will continue for 2 to 3 days. The contaminated absorbent pads are collected and put into a "Contaminated Pads" drum for containment and will be shipped out of camp to a licensed cleaning facility during Spring Mobe 2023. P Schoeman, Camp 867-675-0052.

L	REPORTED TO SPILL LINE BY **P Schoeman**	POSITION **Project Manager**	EMPLOYER **APEX Geoscience**	LOCATION CALLING FROM **Nutaaq Camp**	TELEPHONE **867-675-0052**
M	ANY ALTERNATE CONTACT **C. Smith**	POSITION **VP Exploration**	EMPLOYER **ValOre Metals Corp.**	ALTERNATE CONTACT LOCATION **Vancouver**	ALTERNATE TELEPHONE **604-499-1820**

REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130

LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC | SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN | FILE STATUS ☐ OPEN ☐ CLOSED

AGENCY	CONTACT NAME	CONTACT TIME	REMARKS
LEAD AGENCY			
FIRST SUPPORT AGENCY			
SECOND SUPPORT AGENCY			
THIRD SUPPORT AGENCY			

Spill file: 22-399
Spill date: Aug 3, 2022
Photos and first inspection: Aug 4, 2022
Extent of spill: Indicated by 2 yellow spill kit drums and spill pad in the foreground of first photo. Irregularly shaped water-filled depression.
Collection vessel: Black drum with screw top and white lid with gasket.

Photos and date of second inspection: August 19, 2022 Collection vessel: Black drum with white lid in photo 2 and 3. Black drum approximately ¾ full of contaminated absorbent pad and absorbent sausage material. Vessel has been slung back to Nutaaq Camp and put into a berm awaiting shipping off site during Spring Mobe 2023 to a licensed cleaning facility.	

APPENDIX M

2022 Backhaul Flight Logs

		IN				OUT		
Date	Day	Jet A	P50	Gasoline	OTHER	MT drums	PAX	OTHER
23-Mar-22	Wed				15 propane, VLF mag gear, DG fuels			Empty
24-Mar-22	Thu				Weather, low ceilings, snow in pm			
25-Mar-22	Fri				Blizzard			
26-Mar-22	Sat				Blizzard			
27-Mar-22	Sun	19						Empty
27-Mar-22	Sun		19					Empty
27-Mar-22	Sun		19					Empty
27-Mar-22	Sun	13	6			60		
28-Mar-22	Mon	19						Empty
28-Mar-22	Mon	18					Michele	Empty
28-Mar-22	Mon	19						Empty
28-Mar-22	Mon	19			Ron's order			Empty
29-Mar-22	Tue	19						Empty
29-Mar-22	Tue		19					Empty
29-Mar-22	Tue	19			Water tank	18		
30-Mar-22	Wed		19					Empty
30-Mar-22	Wed		19		GSH gear			Empty
30-Mar-22	Wed		19					Empty
31-Mar-22	Thu	19						Empty
31-Mar-22	Thu		19					Empty
31-Mar-22	Thu	17			Large food order			Empty
1-Apr-22	Fri		19					Empty
1-Apr-22	Fri		19					Empty
1-Apr-22	Fri		9		12 of 8 by 8 by 16ft, 22 of 2 by 10 by 16ft			Empty
2-Apr-22	Sat				NO FLIGHTS, rest day			
3-Apr-22	Sun		19					Empty
3-Apr-22	Sun		19					Empty
3-Apr-22	Sun		19					Empty
4-Apr-22	Mon				Pad building lumber + 12kw gen, 14kw gen			Empty
4-Apr-22	Mon				Pad building lumber + 20kw gen, 12kw gen			Empty
5-Apr-22	Tue				Temp Camp gear to West Lake 2			Empty from WL2
5-Apr-22	Tue				Temp Camp gear to West Lake 2			Empty from WL2
6-Apr-22	Wed				Temp Camp gear to West Lake 2			Empty from WL2
6-Apr-22	Wed				Temp Camp gear to West Lake 2			Empty from WL2
7-Apr-22	Thu				Northspan gear	67		
7-Apr-22	Thu				Northspan gear	51		
8-Apr-22	Fri				Weather, fog, low ceilings in Baker Lake			
9-Apr-22	Sat				Weather, snow, low ceilings in Nutaaq			
10-Apr-22	Sun				Blizzard, snow			
11-Apr-22	Mon				Blizzard, 36 knts			
12-Apr-22	Tue				Blizzard, 24 knts blowing snow			
13-Apr-22	Wed		19		Steven DMS			Empty
13-Apr-22	Wed				RC Drill rods, baskets			Empty
13-Apr-22	Wed				2 big drill pieces	60		
14-Apr-22	Thu				3 skidoos, kumatiks, gear for Temp Camp			Empty
14-Apr-22	Thu				RC drill gear, Peter Jayko			5 Toyo stove, chimneys
15-Apr-22	Fri				RC drill gear			Empty

15-Apr-22	Fri				RC drill gear, dry and frozen food			Empty
15-Apr-22	Fri		12		Final drill gear, DMS groceries			Empty
16-Apr-22	Sat		20		Small RC piece, ALS tags			Colton
16-Apr-22	Sat		11	8				Scott
16-Apr-22	Sat		20		Half food order			Peter Pissuk
17-Apr-22	Sun		20					Empty
17-Apr-22	Sun	20			Perry			Gen Set 12kw, Helen compressor
17-Apr-22	Sun	20				60		Carter GSH pilot
18-Apr-22	Mon				NO FLIGHTS, rest day			
19-Apr-22	Tue	20			Sheila	30		
19-Apr-22	Tue	20				40		Michele out
19-Apr-22	Tue	20			DMS food			9 megabags of household garbage
20-Apr-22	Wed	20			Tom, GSH pilot			Empty
20-Apr-22	Wed	19			1 palette DMS gear for Temp Camp			Empty
20-Apr-22	Wed	20			Christopher parcel	24		Empty
21-Apr-22	Thu	20				20		Empty
21-Apr-22	Thu	20						Empty
21-Apr-22	Thu	19			3 pax: Jerome RC, Anthyme RC, Lucassie, Wildlife M.			Brian Ratt, Frank McKenzie (2xDMS)
22-Apr-22	Fri	20			Skylar, Jerome, Chris			Empty
22-Apr-22	Fri				40 of 2by4by16ft, 40 of 2by10by16ft, Cascom gear			Empty
22-Apr-22	Fri	19			Large dry groc order: Nutaaq			Empty
23-Apr-22	Sat	19			Jacobus, GSH, Samson, Wildlife M.			Empty
23-Apr-22	Sat	19			Large fresh & frozen groc: Nutaaq			Empty
23-Apr-22	Sat	20						Empty
24-Apr-22	Sun	20						Empty
24-Apr-22	Sun	19			Large dry & frozen order:Temp Camp	32		Chris, CasCom, Ron, DMS
25-Apr-22	Mon				NO FLIGHTS, rest day			
26-Apr-22	Tues	17	2		duct tape		3	Shirley, Peter, Jerome
26-Apr-22	Tues	6	14				1	Terry and gear
26-Apr-22	Tues		20				3	Philo, Wayne, and Dustin
27-Apr-22	Wed		20				1	Kirk
27-Apr-22	Wed		19		2 ultra violet filters, 1 microwave, 1 oil pan, 1 oil filter wrench, 2 funnels, 10 packs of 24 dasani water, 12 replacement sponge filters, 4 replacement carbon filters, 5 replacement globes, replacement uv lights			Empty
28-Apr-22	Thu		19		Bucket lids, Northspan parts, Coveralls (10), Radiation meters (4), snowmobile oil, freezer, stove		Darren	Orry and Tony
28-Apr-22	Thu	8	11		Bundle of drilling casing			Empty
28-Apr-22	Thu	19			Bundle of drilling casing			Empty
29-Apr-22	Fri				NO FLIGHTS Rest Day			
30-Apr-22	Sat	17	1		Drill rods, 2 pax, Eddie and Leah	30		12kV Rental Generator to DMS
30-Apr-22	Sat		18		Groceries	30		
1-May-22	Sun	19			2 pallets of pails	30		
1-May-22	Sun	2	17		2 pallets of pails	30		
2-May-22	Mon	3	16		2 pallets of pails and 2 boxes of lids			1 old Pb-acid battery box.
2-May-22	Mon	4	16		20 cases of bottled H2O	30		1 old Pb-acid battery box.
3-May-22	Tue	0	18		Temp Groceries, Peter, Caleb, and Wes		3	2 mega bags of plastics
4-May-22	Wed	0	10		Northspan Power Pack, 10 Hard Hats, 4 pipe fittings, Fridge for temp camp, Vice grips, Northspan parts, 10 propane tanks full	30		Empty
4-May-22	Wed		20		2 GSH Helicopter packages, 2 burms, Personal items			Empty
4-May-22	Wed		20			7		Empty

Date	Aircraft ID	Type	From	To	IN/OUT	# Pax	Names	Freight	Empty drums	Mega bags Plastics	Garbage bags	Gasoline in	P50 in	Jet A in	Cement 50lb	Propane MT out
7-Mar-22	FPEN	Otter	YBK	NUT	IN	0		Jet A						5		
7-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
7-Mar-22	FPEN	Otter	YBK	NUT	IN	0		Jet A						5		
7-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
7-Mar-22	FPEN	Otter	YBK	NUT	IN	0		Jet A						5		
7-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
9-Mar-22	FPEN	Otter	YBK	NUT	IN	0		Jet A						10		
9-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
12-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
12-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
12-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
12-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
12-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
12-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
13-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
13-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
13-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
13-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
13-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
13-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
15-Mar-22	FPEN	Otter	YBK	NUT	IN	2	2 DMS crew	Food								
15-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
15-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
15-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
15-Mar-22	FPEN	Otter	YBK	NUT	IN	0		DMS camp gear								
15-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
18-Mar-22	FPEN	Otter	YBK	YRT	IN	1	Ookpik Engineer	Empty								
18-Mar-22	FPEN	Otter	YRT	YBK	OUT	6	Philo, Wayne, Scott, Michele, Dustin, Colton	6 CAT batt, 4 pails of oil								
19-Mar-22	FPEN	Otter	YBK	NUT	IN	5	Philo, Wayne, Scott, Dustin, Colton	Portable gen, Herman-Nelson, isol blankets, 3 power cords, 2 satphones, picnic								
19-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		12 Garbage bags			12					
19-Mar-22	FPEN	Otter	YBK	NUT	IN	1	Martin (CasCom)	CasCom gear								
19-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		8 Garbage bags			8					
20-Mar-22	FPEN	Otter	YBK	NUT	IN	1	Andrew Crocker (SECURE)	CAT key				5				
20-Mar-22	FPEN	Otter	NUT	YBK	OUT	0		10 Garbage bags			10					
21-Mar-22	FPEN	Otter	YBK	NUT	IN	1	Martin (CasCom)							5		
21-Mar-22	FPEN	Otter	NUT	YBK	OUT	0										
23-Mar-22	FPEN	Otter	YBK	NUT	IN	1	Frank MacKenzie (DMS)	Food topup								
23-Mar-22	FPEN	Otter	NUT	YBK	OUT	1	Andrew Crocker (SECURE)	9 Garbage bags			9					
2-Apr-22	FPEN	Otter	YBK	NUT	IN	4	EeJ, Saami, Dorothy, Eddie	Dry leftover & Cleaning order								
2-Apr-22	FPEN	Otter	NUT	YBK	OUT	0		49 bags of garbage			49					
4-Apr-22	FPEN	Otter	YBK	NUT	IN	3	Chase McKay, APEX, Gerrette Adams, Joseph Pyke,	AMS med gear, 5 bales megabags								
4-Apr-22	FPEN	Otter	NUT	YBK	OUT	0		25 garbage bags			25					
6-Apr-22	FPEN	Otter	YBK	NUT	IN	2	Carter Pond, GSH pilot, Anthony Copernace, PEL	12 foamies,								
6-Apr-22	FPEN	Otter	NUT	YBK	OUT	1	Thomas Frith, GSH pilot	2 mega bags of garbage bags			30					
8-Apr-22	FPEN	Otter	YBK	NUT	IN	0		DMS & Nut food orders, 4 foamies								
8-Apr-22	FPEN	Otter	NUT	TC	OUT	0		DMS food order, DMS gear								
8-Apr-22	FPEN	Otter	TC	YBK	OUT	0		Empty from Temp Camp to Baker								
13-Apr-22	FPEN	Otter	YBK	NUT	IN	0	4 Northspan, 1 DMS	Freight								
13-Apr-22	FPEN	Otter	NUT	YRT	Out	3	Jon GSH, EJ, Saami									
13-Apr-22	FPEN	Otter	YRT	NUT	IN	5	5 Geos	Mag & VLF gear								
13-Apr-22	FPEN	Otter	NUT	YRT	Out	0		Empty								
13-Apr-22	FPEN	Otter	YRT	NUT	IN	5	5 Geos	Mag & VLF gear								
13-Apr-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
12-May-22	FPEN	Otter	YBK	NUT	IN	0		Nutaaq Groceries								
12-May-22	FPEN	Otter	NUT	YBK	OUT	0		4 side-by-side tires with rims and 4 empty fuel drums	4							
12-May-22	FPEN	Otter	YBK	NUT	IN	6	Philo, Scott GSH, Tyler GSH, Chris AMS, Myles Northspan, Anthony PEL									
12-May-22	FPEN	Otter	NUT	YBK	OUT		Perry PEL, Eric GSH, Tom GSH, Cody Joe NS	4 empty fuel drums	4							
13-May-22	FPEN	Otter	YBK	NUT	IN	3	Robert PEL, Wayne, Dustin	Temp Camp fresh and frozen food								
13-May-22	FPEN	Otter	NUT	YBK	OUT	4	Maggie, Christopher, Jeremy PEL, Anthyme PEL									
15-May-22	FPEN	Otter	YBK	NUT	IN	0		Commissary for Peter Javko					5			
15-May-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
15-May-22	FPEN	Otter	YBK	NUT	IN	0		Mop					5			
15-May-22	FPEN	Otter	NUT	YBK	OUT	0		12 empty drums	12							
15-May-22	FPEN	Otter	YBK	NUT	IN	0		Nutaaq Groceries								
15-May-22	FPEN	Otter	NUT	YBK	OUT	4	Chase McKay, APEX, Gerrette Adams, Joseph Pyke,	Rugged Edge, Steven Kuptana DMS								
15-May-22	FPEN	Otter	YBK	NUT	IN	0							5			
15-May-22	FPEN	Otter	NUT	YBK	OUT	0		20 empty drums	20							
16-May-22	FPEN	Otter	YBK	NUT	IN	0							5			
16-May-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
16-May-22	FPEN	Otter	YBK	NUT	IN	1	Perry PEL	Leah cigarettes					5			
16-May-22	FPEN	Otter	NUT	YBK	OUT	0		Empty								
16-May-22	FPEN	Otter	YBK	NUT	IN	0							5			
16-May-22	FPEN	Otter	NUT	YBK	OUT	0		21 empty drums	21							
17-May-22	FPEN	Otter	YBK	NUT	IN	4	Ian, Zack, Kiana, Annika						1			
17-May-22	FPEN	Otter	NUT	YBK	OUT	8	6 Geos, Cook, Fred	SJ mag unit								
22-May-22	GBQC	Otter	YBK	NUT	IN	3	Christopher, Anthyme, Samson	Nutaaq food order								
22-May-22	GBQC	Otter	NUT	YBK	OUT	6	Leah, Lucassie, Darren, Craig, Peter Banda, Rob Sperry									
25-May-22	GBQC	Otter	YBK	NUT	IN	1	Jeremy	GSH case,					5			
25-May-22	GBQC	Otter	NUT	YBK	OUT	2	Scott, Peter PEL	Tools for Hayes								
25-May-22	GBQC	Otter	YBK	CHC5	IN	1	Scott	Tools for Hayes								
25-May-22	GBQC	Otter	CHC5	YBK	OUT	1	Scott	3 fly tanks								
26-May-22	GBQC	Otter	YBK	NUT	IN	1	Scott	3 fly tanks, Acc Indust tools, Kirk towel								
26-May-22	GBQC	Otter	NUT	YBK	OUT	0		Empty								
26-May-22	GBQC	Otter	YBK	NUT	IN	0								5		
26-May-22	GBQC	Otter	NUT	YBK	OUT	0		Empty								
26-May-22	GBQC	Otter	YBK	NUT	IN	0								5		
26-May-22	GBQC	Otter	NUT	YBK	OUT	2	Scott, Colton	Empty								
26-May-22	GBQC	Otter	YBK	NUT	IN	0								5		
26-May-22	GBQC	Otter	NUT	YBK	OUT	0		15 empty drums	15							
27-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
27-May-22	GBQC	Otter	NUT	YBK	OUT	0		12 empty drums	12							
27-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
27-May-22	GBQC	Otter	NUT	YBK	OUT	0										
27-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
27-May-22	GBQC	Otter	NUT	YBK	OUT	0										
27-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
27-May-22	GBQC	Otter	NUT	YBK	OUT	0										
27-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
27-May-22	GBQC	Otter	NUT	YBK	OUT	0		3 empty drums	3							
28-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
28-May-22	GBQC	Otter	NUT	YBK	OUT	0										
28-May-22	GBQC	Otter	YBK	NUT	IN	0								6		
28-May-22	GBQC	Otter	NUT	YBK	OUT	0										
28-May-22	GBQC	Otter	YBK	NUT	IN	0							3	2		
28-May-22	GBQC	Otter	NUT	YBK	OUT	0		15 empty drums	15							
28-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
28-May-22	GBQC	Otter	NUT	YBK	OUT	0		12 empty drums	12							6
28-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
28-May-22	GBQC	Otter	NUT	YBK	OUT	0		2 empty drums	2							
29-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
29-May-22	GBQC	Otter	NUT	YBK	OUT	0										
29-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
29-May-22	GBQC	Otter	NUT	YBK	OUT	0	Dustin									
29-May-22	GBQC	Otter	YBK	NUT	IN	0	Eddie						5			
29-May-22	GBQC	Otter	NUT	YBK	OUT	0										
29-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
29-May-22	GBQC	Otter	NUT	YBK	OUT	0										
29-May-22	GBQC	Otter	YBK	NUT	IN	0							5			
29-May-22	GBQC	Otter	NUT	YBK	OUT	0										
30-May-22	GBQC	Otter	YBK	NUT	IN	0	Skyler						5			
30-May-22	GBQC	Otter	NUT	YBK	OUT	0										
30-May-22	GBQC	Otter	YBK	NUT	IN	0	Nicholas GSH Pilot	Nutaaq Groceries, Anthyme parcel								
30-May-22	GBQC	Otter	NUT	YBK	OUT	0										
30-May-22	GBQC	Otter	YBK	NUT	IN	0		Samson parcel					5			
30-May-22	GBQC	Otter	NUT	YBK	OUT	0										
30-May-22	GBQC	Otter	YBK	NUT	IN	0		5 bx food					5			
30-May-22	GBQC	Otter	NUT	YBK	OUT	0										
4-Jun-22	GBQC	Otter	YBK	NUT	IN	0	Cesar DMS cook						4			
4-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Michele									
4-Jun-22	GBQC	Otter	YBK	NUT	IN	0	Darren, Peter	Nutaaq Food Order								
4-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Roger, Jeremy									
4-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			
4-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
4-Jun-22	GBQC	Otter	YBK	NUT	IN	0	Jeremy						5			
4-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
4-Jun-22	GBQC	Otter	YBK	NUT	IN	0		5 flats of water					5			
4-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
5-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			
5-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Anthony	15 pieces of Mag/VLF equipm								
5-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			
5-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
5-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			
5-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
5-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			
5-Jun-22	GBQC	Otter	NUT	YBK	OUT	0										
5-Jun-22	GBQC	Otter	YBK	NUT	IN	0							5			

5-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
6-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
6-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Perry PEL										
6-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
6-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
6-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
6-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
6-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
6-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
6-Jun-22	GBQC	Otter	YBK	NUT	IN	0		Small box groceries, cigarettes						5			
6-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
7-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
7-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		First Dipole sample batch									
7-Jun-22	GBQC	Otter	YBK	NUT	IN	0									6		
7-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Second Dipole sample batch									
7-Jun-22	GBQC	Otter	YBK	NUT	IN	0									6		
7-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Third Dipole sample batch									
7-Jun-22	GBQC	Otter	YBK	NUT	IN	0									6		
7-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		REH Padbox 5									
8-Jun-22	GBQC	Otter	YBK	NUT	IN	0		2 PEL jackets, last ice strip landing, put up windsock at esker strip							6		
8-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
9-Jun-22	GBQC	Otter	YBK	NUT	IN	1	Matt GSH Eng	Rain suits for Accurate Industr.							5		
9-Jun-22	GBQC	Otter	NUT	YBK	OUT	0											
9-Jun-22	GBQC	Otter	YBK	NUT	IN	0									5		
9-Jun-22	GBQC	Otter	NUT	YBK	OUT	3	Tyler, Jeremy, Samson	12 empties	12								
10-Jun-22	GBQC	Otter	YBK	NUT	IN	0		3 commissary, PEL							5		
10-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		16 empties	16								
12-Jun-22	GBQC	Otter	YBK	NUT	IN	1	Scott	GSH Starflex, 1 berm with cover, Tank, food order, 3 PEL parcels									
12-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Pink Sample Batch from Yat									
14-Jun-22	GBQC	Otter	YBK	NUT	IN	1	Brett GSH								5		
14-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Peter PEL	Half Orange Sample Batch from Yat									
14-Jun-22	GBQC	Otter	YBK	NUT	IN	0									4		
14-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Nick GSH	Half Orange Sample Batch from Yat									
14-Jun-22	GBQC	Otter	YBK	NUT	IN	0									5		
14-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Part of Blue Green Sample Batch from Yat									
15-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
15-Jun-22	GBQC	Otter	NUT	YBK	OUT	3	Chris PEL, Chris AMS, Wayne	Part of Blue Green Sample Batch from Yat									
15-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
15-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Kiana	Part of Green Yellow Sample Batch from Yat									
15-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
15-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Zach	Part of Green Yellow Sample Batch from Yat									
15-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
15-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Annika	12 empties	12								
16-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
16-Jun-22	GBQC	Otter	NUT	YBK	OUT	2		16 empties	16								
16-Jun-22	GBQC	Otter	YBK	NUT	IN	1								5			
16-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Ian, Roger	9 empties	9								
16-Jun-22	GBQC	Otter	YBK	NUT	IN	0	Ian							5			
16-Jun-22	GBQC	Otter	NUT	YBK	OUT	8	Kirk, Dennis, Skyler, Myles, Eddie, Anthyme, Eugene, Randall										
17-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
17-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSP44, rod basket, 10 rods: total 1950lbs									
17-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
17-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Ian	NSP59, rod basket, 8 rods: total 1850lbs									
18-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
18-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSC33 2100lbs									
18-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
18-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSC38 2100lbs									
18-Jun-22	GBQC	Otter	YBK	NUT	IN	3	Vincent, Perry, Kieran: DMS							2			
18-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSP49, Dispatch 3 pails from J4W, 2 megabags of plasics		2							
20-Jun-22	GBQC	Otter	YBK	NUT	IN	0								4			
20-Jun-22	GBQC	Otter	NUT	YBK	OUT	1	Philo	NSC41 2100lbs, baggage									
22-Jun-22	GBQC	Otter	YBK	NUT	IN	0		Groceries						4			
22-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSP47, 20 rods, 1 heater, 2550lbs, 2 megabags of plastics		2							
22-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
22-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSC33, 20 rods, 1 heater, 2550lbs, 3 megabags of plastics		3							
23-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
23-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		2 rod cages, 20 rods, 2 casings, Greenlee toolbox, 2 mega bags of plastics, 2200 lbs		2							
23-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
23-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		NSC25 (booster), basket of all sorts, 4 casings, 2300 lbs									
23-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
23-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Drill and yellow hose, 1900 lbs									
24-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
24-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		2 apple crates, 7 drill rods, 6 casings, 2140 lbs,									
24-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
24-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		2 apple crates, 8 rods, 2150 lbs									
24-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
24-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		2 apple crates, 12 rods, 2150 lbs									
24-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
24-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		4 bundles casing, black hose, 2100 lbs									
25-Jun-22	GBQC	Otter	YBK	NUT	IN	0	James GSH, Eddie							3			
25-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Vincent, Perry, Kieran: DMS	DMS rental gear, tent components									
25-Jun-22	GBQC	Otter	YBK	NUT	IN	0	Roger							5			
25-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Darren, Lucassie	DMS rental gear, tent components, 2000lbs									
25-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
25-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		2 apple crates, 12 rods, 2200lbs									
26-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
26-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Brett, Matt GSH	DMS full load									
27-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
27-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	Cesar DMS	DMS full load, 2200lbs									
27-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
27-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		DMS full load, 2200lbs									
28-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
28-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		DMS full load, 2200lbs									
28-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
28-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		DMS gen and RC gear mixed, 2200lbs									
28-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
28-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		DMS gen, final DMS and RC gear mixed, 2300lbs									
28-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
28-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Mixed RC gear load, 2100lbs									
29-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
29-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Dust collector, 12 rods, 1800lbs									
29-Jun-22	GBQC	Otter	YBK	NUT	IN	0								5			
29-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		Apple crate, 20 rods, 2000lbs									
30-Jun-22	GBQC	Otter	YBK	NUT	IN	0		2 jugs of milk						5			
30-Jun-22	GBQC	Otter	NUT	YBK	OUT	0		47 rods, 1 rod rack, 2550lbs									
30-Jun-22	GBQC	Otter	YBK	NUT	IN	0								1	4		
30-Jun-22	GBQC	Otter	NUT	YBK	OUT	0	LAST RC DRILL GEAR LOAD	18 rods, 1 rod rack, drill shack, 1 megabag of plastics, 1 megabag of old foamies, 1300lbs		2							
12-Jul-22	GBQC	Otter	YBK	NUT	IN	4	Philo, Alex Hemmera, Richard DMS cook, Perry PEL	Small food order, cigarettes for Roger, Hemmera gear									
12-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		Empty									
13-Jul-22	GBQC	Otter	YBK	NUT	IN	0		18 steel stakes, part of Lake Bott Sed Sampling							4		
13-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		16 empties	16								
14-Jul-22	GBQC	Otter	YBK	NUT	IN	0	Wayne, Chase, Zach, Kiana, Giana, Anthyme	Flow meter									
14-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		17 empties	17								
16-Jul-22	FPEN	Otter	YBK	NUT	IN	6	518: Henry, Alex, Quinn, PEL: Christopher, Peter, Patr	5 boxes bread									
16-Jul-22	FPEN	Otter	NUT	YBK	OUT	0		16 empties	16								
16-Jul-22	FPEN	Otter	YBK	NUT	IN	0		Drill gear									
16-Jul-22	FPEN	Otter	NUT	YBK	OUT	0	Alex: Hemmera, Eddie, Roger: PEL	H2O test samples									
16-Jul-22	FPEN	Otter	YBK	NUT	IN	1	518: Cody	Drill gear, envelope									
16-Jul-22	FPEN	Otter	NUT	YBK	OUT	0		16 empties	16								
17-Jul-22	FPEN	Otter	YBK	NUT	IN	0		Drill gear, Lake bottom sampling gear							1		
17-Jul-22	FPEN	Otter	NUT	YBK	OUT	1	Patrick: Golder	16 empties	16								
19-Jul-22	FPEN	Otter	YBK	NUT	IN	3	Ben: AMS, Eric: GSH, Randal: Acc Industr								2		
19-Jul-22	FPEN	Otter	NUT	YBK	OUT	1	Scott	CAT starter, 6 milk crates									
20-Jul-22	FPEN	Otter	YBK	NUT	IN	3	Ray, Darian, Jeremy: PEL	Food order, chafing candles x2									
20-Jul-22	FPEN	Otter	NUT	YBK	OUT	0		16 empties	16								
22-Jul-22	GBQC	Otter	YBK	NUT	IN	1	Justin: 518, Samson: PEL	9 bags cement, 5 propanes, 1 fuel tank								9	
22-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		16 empties	16								
23-Jul-22	FPEN	Otter	YBK	NUT	IN	0		29 bags cement in 3 containers, 1 fuel tank								29	
23-Jul-22	FPEN	Otter	NUT	YBK	OUT	0		1 cement container, 7 empty propanes, 10 empties	10								7
25-Jul-22	GBQC	Otter	YBK	NUT	IN	1	Houd, geo, VIA FERGUSON	GSH gear, 1/2 food order, 1 container cement								10	
25-Jul-22	GBQC	Otter	NUT	YBK	OUT	0	Anthyme, Peter: PEL	6 empties	6								
26-Jul-22	GBQC	Otter	YBK	NUT	IN	0		SPT surv tool, 1/2 food order, 518 3 batt, drill gear, cement							2	20	
26-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		4 cement containers, empty, 8 semi empty drums	8								
28-Jul-22	GBQC	Otter	YBK	NUT	IN	2	Eric, Matt, 518							3			
28-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		16 empties	16								
30-Jul-22	GBQC	Otter	YBK	NUT	IN	5	Bradd, Shane, Zotie: 518 Drilling, Hannah, Eddie: PEL	Half food order, parcels for PEL									
30-Jul-22	GBQC	Otter	NUT	YBK	OUT	1	Ray, PEL.	16 empties	16								

31-Jul-22	GBQC	Otter	YBK	NUT	IN	0		Half food order, 2 containers cement							20		
31-Jul-22	GBQC	Otter	NUT	YBK	OUT	0		1 Fly tank, 2 empty cement, 9 empties	9								
3-Aug-22	GBQC	Otter	YBK	NUT	IN	1	Mike Bastable, FERGUSON	PEL parcels, fuses, 10 bags cement, 3 JetA						3	10		
3-Aug-22	GBQC	Otter	NUT	YBK	OUT	7	Chase, Kiana, Zach, Jeremy, Perry Alex, Quinn: 518	Baggage									
6-Aug-22	GBQC	Otter	YBK	NUT	IN	2	Eugene, Peter	Food order, CAT starter CAT filters, 3 boxes 518									
6-Aug-22	GBQC	Otter	NUT	YBK	OUT	2	Randal, Eddie	1 Fly tank, cement container									
6-Aug-22	GBQC	Otter	YBK	NUT	IN	1	Roger	5 bags, 518 pump, 7 propanes									
6-Aug-22	GBQC	Otter	NUT	YBK	OUT	1	Christopher	1 Fly tank									
8-Aug-22	GBQC	Otter	YBK	NUT	IN	4	Richard, Phillip, James, Willie: Baker Lake: Mayor & H	2 boxes for 518, 1 box from Toromont									
8-Aug-22	GBQC	Otter	NUT	YBK	OUT	4	Richard, Phillip, James, Willie: Baker Lake: Mayor & H	Funnel and drill, 2 batteries for Scott.									
9-Aug-22	GBQC	Otter	YBK	NUT	IN	0		518: 1400 lbs + Env batt, 2 propane									
9-Aug-22	GBQC	Otter	NUT	YBK	OUT	0		6 partial + 5 empties, batt + fuel pump	11								
13-Aug-22	GBQC	Otter	YBK	NUT	IN	4	Joel, AMS, Rob, GSH, Perry & Anthyme PEL	Part of food order, 518 Gear									
13-Aug-22	GBQC	Otter	NUT	YBK	OUT	4	Eric, Ben, Hannah & Darian	6 empty propanes									6
13-Aug-22	FPEN	Otter	YBK	NUT	IN	0		Part of food order, 518 Gear, second stage incinerator									
13-Aug-22	FPEN	Otter	NUT	YBK	OUT	0		Empty									
15-Aug-22	GBQC	Otter	YBK	NUT	IN	3	APEX: Scott; PEL: Eddie, Ray	518 gear, second STP downhole surv tool									
15-Aug-22	GBQC	Otter	NUT	YBK	OUT	0		16 empties	16								
20-Aug-22	FPEN	Otter	YBK	NUT	IN	3	APEX: Kiana, Zach, Chase	1 fridge, 2 PEL & 3 AMS packages, 1/2 grocery order									
20-Aug-22	FPEN	Otter	NUT	YBK	OUT	4	PEL:Samson, Anthyme; APEX:Giana, Wayne	Baggage									
21-Aug-22	FPEN	Otter	YBK	NUT	IN	1	Disc: Yvette	1 fridge, 1/2 grocery order, 518 gear									
21-Aug-22	FPEN	Otter	NUT	YBK	OUT	2	APEX: Philo; Disc: Corrine	Baggage, 7 empties	7								
22-Aug-22	GBQC	Otter	YBK	NUT	IN	0		5 JetA, 5 bx grocery, 2 skidsteer wheels, baggage						5			
22-Aug-22	GBQC	Otter	NUT	YBK	OUT	0		7 empties, 5 partials, 8 milkcrates	12								
25-Aug-22	GBQC	Otter	YBK	NUT	IN	3	PEL: Darian; 518: Shawn, Austin	3 Jet A, 5 pallets, 2 freight (1 518, 1 misc.)						3			
25-Aug-22	GBQC	Otter	NUT	YBK	OUT	2	518: Justin McKnight, Cody	7 empties,2 partials	9								
25-Aug-22	GBQC	Otter	YBK	NUT	IN	0		5 Jet A, 4 pallets						5			
25-Aug-22	GBQC	Otter	NUT	YBK	OUT	2	PEL: Eddie; 518: Mike B	11 empties	11								
28-Aug-22	GBQC	Otter	YBK	NUT	IN	4	PEL: Eddie, Chris; GSH: Troy; Acc: Randal	Groceries									
28-Aug-22	GBQC	Otter	NUT	YBK	OUT	5	PEL: Ray; GSH: Rob T; APEX: Leo, Houd; Acc: Eugene										
03-Sep-22	GBQC	Otter	YBK	NUT	IN	1	PEL: Samson	Groceries, personal packages for crews									
03-Sep-22	GBQC	Otter	NUT	YBK	OUT	2	PEL: Roger, 518: Matt Storrar	1 skidoo (#2)									
06-Sep-22	GBQC	Otter	YBK	NUT	IN	1	PEL: Ray	5 Jet A						5			
06-Sep-22	GBQC	Otter	NUT	YBK	OUT	7	518: Justin S, Matt L, Deno, Garrett, Austin, Shawn, Eric										
06-Sep-22	GBQC	Otter	YBK	NUT	IN	0		5 Jet A						5			
06-Sep-22	GBQC	Otter	NUT	YBK	OUT	2	518: Chris B; AMS: Joel	AMS gear, 518 SPT surv gear and 2 by SurveyTech surv tools, 2 megabags of recyclables	2								
09-Sep-22	GBQC	Otter	YBK	NUT	IN			2 P50, 3 Jet A					2	3			
09-Sep-22	GBQC	Otter	NUT	YBK	OUT	1	Christopher: PEL	1 skidoo									
09-Sep-22	GBQC	Otter	YBK	NUT	IN			5 P50					5				
09-Sep-22	GBQC	Otter	NUT	YBK	OUT	1	Perry: PEL	1 skidoo									
09-Sep-22	GBQC	Otter	YBK	NUT	IN			5 P50					5				
09-Sep-22	GBQC	Otter	NUT	YBK	OUT			1 skidoo									
10-Sep-22	GBQC	Otter	YBK	NUT	IN	2	Cesar: DMS, Anthyme, PEL	Small food order, 2 P50, 2 full propanes, 5 pails cement					2		5		
10-Sep-22	GBQC	Otter	NUT	YBK	OUT	2	Yvette, DMS, Randal, Acc Ind.	6 boxes Radon flasks, 6 empty propanes, address labels									6
12-Sep-22	GBQC	Otter	YBK	NUT	IN								5				
12-Sep-22	GBQC	Otter	NUT	YBK	OUT	1	Kiana	1 skidoo, pink batch for soils: 22ANG-SL-001 (580lbs), 1 pail, blue: 22ANG-SL-003 (40lbs)									
12-Sep-22	GBQC	Otter	YBK	NUT	IN			Box with rope					5				
12-Sep-22	GBQC	Otter	NUT	YBK	OUT	1	Zach	1 skidoo, yellow batch for soils: 22ANG-SL-002 (not all loaded, 840lbs)									
12-Sep-22	GBQC	Otter	YBK	NUT	IN			Brake fluid				5					
12-Sep-22	GBQC	Otter	NUT	YBK	OUT	0		Core samples: 22AUG-DD-001 and 002, yellow-green-blue, red-orange-pink									
13-Sep-22	GBQC	Otter	YBK	NUT	IN								5				
13-Sep-22	GBQC	Otter	NUT	YBK	OUT	1	Chase	Frozen food, canned and glass food containers, freezer									
13-Sep-22	GBQC	Otter	YBK	NUT	IN								5				
13-Sep-22	GBQC	Otter	NUT	YBK	OUT	4	Darian, Eddy, Samson, Cesar: DMS	1 CasCom box, box of batteries for warm storage, 518 Drilling crate, 518 transmission									
14-Sep-22	GBQC	Otter	YBK	NUT	IN			Empty									
14-Sep-22	GBQC	Otter	NUT	YBK	OUT	4	Philo. Scott, Ray, Anthyme	CasCom sat gear, fresh & frozen food									
16-Sep-22	GBQC	Otter	YBK	NUT	IN			Empty									
16-Sep-22	GBQC	Otter	NUT	YBK	OUT			Barrel ramps									

APPENDIX N

2022 List of Contractors Used

2022 Contractor Services

Arviat
Katimavik Suites

Baker Lake
Baker Lake Contracting & Supplies Ltd.
Nunamiut Lodge
North West Company LP.
Ookpik Aviation Ltd.
Peter's Expediting Ltd.
SK Construction Ltd

Rankin Inlet
Siniktarvik Hotel & Conference Centre
Toromont Arctic
Turaarvik Inns North
Katimavik Suites

Alberta
Acklands Grainger
All Peace Petroleum
Golder Associates Ltd.
Greggs Distributors
Keller Equipment Supply Ltd.
Ken Borek Air
Manitoulin Transport
Mutual Propane Ltd.
Pro-Western Plastics Ltd.
The Compliance Centre - Edmonton
Secure Environmental Solutions
Uline Canada
Vision Travel Solutions

British Columbia
ALS Canada Ltd.
Ausanco Sustainability Inc.
Hemmera Envirochem Inc.
Lockett Consultation Services Inc.
Northspan Explorations Ltd.
Private Sky Aviation Corp.
Rugged Edge Holdings Ltd.
Strata Geodata Services

Manitoba
Arctic Buying Company Inc.
Calm Air International LP
518 Drilling Ltd.
Lakeview Signature Hotel
The Grand Winnipeg Airport Hotel

Northwest Territories
Advanced Medical Solutions Inc.
Buffalo Airways Ltd.
CasCom Ltd.
Chateau Nova Hotel
Corothers Home Building Centre
Discovery Mining Services
Great Slave Helicopters 2018 Ltd.
KBL Environmental Ltd.
Ron’s Equipment Rental & Industrial Supply
Weaver & Devore Trading Ltd.

Nova Scotia
EdYu Management Corp.

Ontario
Activation Laboratories
Health Canada - Dosimetry Services
SurveyTECH Instruments & Services Inc.

Saskatchewan
Accurate Industries Canada Inc.
Exploration Tents & Arctic Camp Supplies
SRC Geoanalytical Laboratories

Quebec
RadonEx Ltd.

USA
Colorado
Wave Geophysics, L.L.C.

Oregon
Kovacs Ice Drilling Equipment