



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

Department of Natural Resources

DIVISION OF MINING, LAND & WATER
Mining Section

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APMA A20176118- FIELD SUMMARY REPORT

Inspection Date:

15 Sept 2017 – 17 Sept 2017

Weather:

Overcast, Intermittent Rain Squalls, Variable Wind up to 40 kt, Air Temp. Approx. 48° F

Agency Personnel:

Hollie Chalup (Mining Section), Renee Romsland (Mining Section), Katrina Chambon (Dept. of Environmental Conservation, 15 Sept only)

Operator Contact:

Tim Havey, Env. Manager, Pebble Limited Partnership

Pilot:

Archie, Soloy Helicopters

Inspection Objectives:

Annual Inspection and Follow-Up Compliance Inspection

Operation Area:

The Pebble Project lies approximately 17 miles northwest of the communities of Iliamna and Newhalen. Located at the headwaters of Upper Talarik Creek, South Fork Koktuli River and adjacent to the headwaters of the North Fork Koktuli River, the Pebble Deposit is situated within the Nushagak/Mulchatna drainage system and Bristol Bay watershed. Topography varies from rolling hills to marshy lowlands and hosts several lake systems with dominant scrub coverage (*Salix*) or dwarf scrub tundra. The regional vegetation includes areas of forest, meadow, and scrub within riverine, lacustrine, lowland, upland, and alpine environments. Mammalian wildlife commonly observed in the operation area include *Ursus arctos*, *Alces alces*, *Rangifer tarandus*, *Castor canadensis* and *Spermophilus parryii* among others.^{1,2} Raptors, waterbirds, shorebirds, and landbirds are also commonly observed. The Pebble Deposit consists of two known contiguous hydrothermally altered sulfide copper-gold-molybdenum porphyry deposits hosted in the Kahiltna Terrane Batholith (Cretaceous); one near-surface (Deposit West), and one significantly deeper (Deposit East). The estimated mineral resources of both deposits are currently 80.6 billion pounds of copper, 5.6 billion pounds of molybdenum, and 107.4 million ounces of gold, in addition to other economically viable mineral resources³.

Field Inspection Plan, Execution and Summary Schedule:

The Alaska Department of Natural Resources (ADNR) primary objectives for the field inspection were to inspect sites raised as concern by the public, sites identified by PLP for additional investigation or repair, sites identified for follow up in ADNR's 2016 inspection report, and sites slated for final abandonment and reclamation. Some sites fell into more than one category. The inspection plan was designed to be carried out in a time-effective manner with priority given to sites identified by ADNR, Pebble Limited Partnership (PLP), and the public. A total of 278 sites (approximately 20% of total sites) within the Pebble Project Area were inspected over three days (Appendix C). ADNR's next priority for inspection was comprised of a random sample set of sites drawn from a pool of all sites minus the primary selected sites. Ten sites were identified using simple random sample (srs) methodology. The random sample inspections were used for quality assurance of the self-reported rating system developed by PLP⁴. Finally, ADNR identified eight structures and support facilities onsite for inspection: Main Supply Depot (which includes West Bay 4), West Bay 1, West Bay 3, Watershed, Acid Rock Drainage (ARD)

¹ ABR, Inc., 2004-2008 Pebble Project Environmental Baseline Document. Chapter 16 Wildlife and Habitat – Bristol Bay Drainages.

² Holen, D. et al., 2005. Technical Paper No. 283. Harvests and Uses of Caribou, Moose, Bears and Dall Sheep by Communities of Game Management Units 9B and 17, Western Bristol Bay, Alaska 2001-2002.

³ Pebble Limited Partnership. Accessed 10 December 2017 at: <https://www.pebblepartnership.com/geology.html#section-deposit>

⁴ A description of Pebble Limited Partnership's Borehole Status Rating System is contained in Appendix B to this report.

Test Site, Koktuli Mountain Repeater Station and the Pebble 1 Weather Station. The inspection plan was also designed to allow for selecting additional sites for inspection in an opportunistic fashion.

ADNR staff arrived via Iliamna Air Taxi to Iliamna Airport at approximately 0910 hours on 15 September 2017. After securing luggage, ADNR and Alaska Department of Environmental Conservation (ADEC) staff briefly met with Tim Havey of PLP to review the inspection plan and conduct a safety meeting. Inspection staff received a helicopter safety briefing before embarking to the field. Inspections were conducted on the ground and at a low level aerial hover. On 15 September 2017, ADNR and ADEC conducted inspections of 49 locations. ADNR staff conducted 124 ground and aerial visual inspections on 16 September 2017, and 105 inspections on the 17 September 2017. See map in Appendix A.

Field Condition Observations

Four tundra swans and a handful of other avian wildlife were observed during the inspection. Most wildlife was observed from the ground and appeared to be unaffected by our brief presence. Weather onsite varied throughout the inspection. Sky conditions on 15 September varied from overcast to broken skies with a ceiling of 2,800-9,000 feet, gusting winds up to 40 kts and trace amounts of precipitation. On 16 September, sky conditions improved from broken to scattered skies (2,000-11,000+ feet) with dissipating winds⁵. Squalls of localized precipitation were experienced but produced nominal levels not affecting ground conditions. On 17 September, sky conditions were clear with little to no wind.

Findings

Based on this inspection and review of pertinent documents, ADNR has made the following findings:

1. Update on 2016 Repairs

ADNR investigated the status of eight boreholes from the 2016 inspection. Details of each site are described below.

1.1 Borehole 8433M (ADL 516874, Figure: 1)

Exploration borehole 8433M exhibited ponded water near the borehole with an unknown source in 2016. Attempts to stop water flow in spring of 2016 were unsuccessful. On August 20, 2017, the operator re-drilled, grouted and reclaimed the site successfully as reported in PLP's 2017 Reclamation Activity Report⁶ submitted November 30, 2017. At the time of inspection, the site was found to be in an acceptable stable condition. DNR recommends seeding this site in spring of 2018 but it is not a requirement under AS 27.19, 11 AAC 97.200 or terms of MLUP A20176118. The borehole rating for this location has been modified to 3-D⁴.

1.2 Borehole 3132 (ADL 516873, Figure: 2)

Exploration borehole 3132 exhibited a minor weep upon inspection in 2016. Borehole 3131, located in close proximity to borehole 3132, was repaired in 2015 by drilling and regROUTING, but the repair was unsuccessful. Borehole 3132 was re-drilled, grouted and reclaimed on August 10th, 2017⁶. It appears that borehole 3131 and 3132 exhibit some influence on one another. Borehole 3132 was not exhibiting instability at the time of inspection and is also grouted and plugged. DNR recommends seeding this site in spring of 2018 but it is not a requirement under AS 27.19, 11 AAC 97.200 or terms of MLUP A20176118. The borehole rating for this location has been modified to 3-D⁴.

1.3 Borehole 9475 (ADL 540442, Figure: 3)

Borehole 9475 was re-drilled, grouted and reclaimed in August 2017⁶ after a history of water production and unsuccessful repair. Reclamation efforts began after closure in August and will continue to be monitored for revegetation in 2018. The borehole rating for this location has been modified to 3-D⁴.

⁵ National Oceanic & Atmospheric Administration, National Environmental Satellite, Data, and Information Service. Accessed at <https://www.ncdc.noaa.gov/cdo-web/datasets/LCD/stations/WBAN:25506/detail> on October 23, 2017.

⁶ PLP submitted a site status update on November 30, 2017 detailing reclamation, repair and abandonment work conducted during the 2017 working season. A copy of the submission can be found at: <http://dnr.alaska.gov/mlw/mining/largemine/pebble/reclamation-reports/>.

1.4 Borehole GH08-156 (ADL 642443, Figure: 4)

In 2016, DNR requested the operator investigate the origins of a small upwelling at the base of borehole GH08-156. In 2017, the operator determined the water presence was from surface flow originating upgradient from the borehole, collecting at the borehole casing and continuing downgradient in an outflow channel⁶. To confirm this, the operator removed the above ground casing and packed the borehole with bentonite pellets. At the time of inspection, just a short time after the repair was made, an approximate 3" wide by 3" deep and 15' long channel outflow was observed. The outflow channel includes bentonite clay particles suspended after water contact from surface flow. Remediation of the outflow channel is scheduled for the 2018 field season. DNR requests the operator continue monitoring and reclamation efforts as scheduled. The borehole rating for this location has been retained at 1-B⁴.

1.5 Borehole GH06-072 (ADL 524808, Figure: 5)

Borehole GH06-072 was observed producing a small amount of water inside the casing in 2017. The Margo plug installed at the time was rusted and likely the cause of the condition. In 2016, DNR requested the operator install a new Margo plug and determine if that repair adequately stopped water flow. The installation of a new Margo plug and the cessation of flow was observed during inspection in 2017. The borehole rating for this location has been revised to 1-D⁴.

1.6 Borehole GH11-236 (ADL 531455, Figure: 6)

In 2016, DNR observed a depression surrounding the casing of this monitoring well. DNR requested the operator observe and measure the depression to determine if the site was experiencing subsidence. Upon inspection, the site appears to be in similar condition with no notable change in depression dimensions. If no subsidence has been measured, the operator should fill the depression and complete reclamation. The borehole rating for this location has been retained at 1-D⁴.

1.7 Borehole 4279 (ADL 516818, Figure: 7)

Borehole 4279 has been documented with ponded water near the borehole since 2015. In 2016, DNR requested the operator confirm the standing water was not produced from the borehole location. The operator has made multiple inspections and determined the ponded water is not a result of influence from the borehole. In 2017, DNR observed standing water across the surrounding low lying, flat area and noted no substantial change from years past. The borehole rating for this location has been retained at 3-D⁴ and no additional action is requested at this time.

1.8 Borehole 5332 (ADL 540426, Figure: 8)

Borehole 5332 was observed with nominal amounts of ponded surface water. Surface water appears to flow through the surrounding low-lying area and past the borehole location. The ponded water was observed clear and without a sheen or smell. The borehole has been plugged, reclaimed and abandoned. The borehole rating for this location has been retained at 3-D⁴.

2. 2017 Abandonments

A total of 98 boreholes (of 138) were observed following abandonment and reclamation measures in 2017. The operator removed the above ground casing and completed reclamation measures. Two of the 98 boreholes inspected had been re-drilled, grouted and reclaimed (Borehole 7386 and 8433M) and will require inspection in 2018. Abandonment locations received a revised borehole rating to 3-E⁴ unless otherwise noted.

3. Additional Investigation and/or Repair

Twelve boreholes were observed by ADNR, which should be investigated further. None pose a significant environmental or compliance risk, but all have the potential for additional maintenance needs or repairs. Details are provided in Section 3.1-3.12

3.1 Borehole 3127 (ADL 516873, Figure: 9)

This borehole exhibited minor water production despite efforts to re-drill and grout to stop water flow in August 2017. Water produced from this borehole dissipated in a disseminated fashion to surrounding

vegetation several feet from the borehole. The operator indicated the need for a more specialized drill to successfully complete repairs. Repairs are scheduled for Spring 2018. DNR requests the operator continue monitoring site conditions and report repair activities as soon as practicable. Borehole rating has been modified to 3-B⁴.

3.2 Borehole 3134 (ADL 516874, Figure: 10)

Borehole 3134 was abandoned and reclaimed in 2017. Vegetative regrowth since drilling has been slow and may be due to the minimal organic layer naturally occurring in the surrounding area. DNR requests the operator amend the soil and reseed as necessary to encourage regrowth. Borehole rating has been modified to 3-B⁴.

3.3 Borehole 4153 (ADL 516810, Figure: 11)

Borehole 4153 appears to be experiencing a small amount of subsidence surrounding the casing. The subsidence is estimated at approximately 4" deep by 3' wide encircling the borehole location. In 2017, the operator removed the casing above ground and may have instigated this condition during reclamation efforts. DNR requests the operator to monitor the site in 2018 for further subsidence or monitor to verify the site is in fact subsiding. If the site is subsiding, complete a repair to prevent further subsidence. The borehole rating for this site has been modified to 3-D⁴.

3.4 Borehole 4224 (ADL 516829, Figure: 12)

Borehole 4224 had an attempted repair but the repair was not successful. Surface water flow from the hillside appears to be affecting this borehole though water does not run from the borehole itself. DNR requests the operator to complete repairs in the 2018 season and to backhaul the cut casing from the field. The borehole rating has been modified to 3-C⁴.

3.5 Borehole 6340 (ADL 642364, Figure: 13)

Borehole 6340 has a pile of mounded rock at the borehole location. This borehole was abandoned by cutting off the casing structure in 2017. DNR requests the operator place additional organic cover to promote revegetation. The borehole rating has been modified to 3-D⁴.

3.6 Borehole GH11-247 (ADL 531454, Figure: 14)

This borehole has been grouted, plugged and reclaimed but not abandoned (an above ground casing remains). DNR inquired as to why the borehole casing was not capped and was informed there is a PVC pipe structure within the borehole casing which is properly capped. The rating for this borehole has been modified to 2-D⁴.

3.7 Borehole GH11-272S (ADL 824714, Figure: 15)

This monitoring well has a pin hole in the casing approximately 6" above the lower casing collar. A very small amount of rainwater is dripping and running outside the casing. A small amount of algae growth was observed. This well has a Margo plug installed which prevents capping. This notification is a matter of courtesy only as the condition does not pose a compliance risk or environmental degradation. DNR advises the operator to repair at the operator's convenience.

3.8 Borehole P-04-02M (ADL 516868, Figure: 16)

Site P-04-02M was observed to be lacking a cap on the monitoring well. The cap was observed onsite but was not affixed. It does not appear the condition of this monitoring well would prevent capping. The operator notified DNR that the casing was successfully capped on October 6th, 2017. The rating for this location has been modified to 1-E⁴.

3.9 Borehole GH06-078 (ADL 524714, Figure: 17)

Site GH06-078 was observed to be lacking a cap on the casing. There was no cap observed onsite at the time of inspection and no structures were identified that would reasonable prevent capping. This monitoring well has been grouted and plugged. The operator subsequently reported successful capping at borehole GH06-078 on October 5th, 2017. The rating for this location has been modified to 2-E⁴.

3.10 Borehole 11538 (ADL 643907, Figure: 18)

Borehole 11538 exhibits pooled surface water at the borehole location. The site is located on a dry bench above a small kettle pond and does not appear to be under the direct influence of a surface water source. The outflow channel observed in previous inspections was not observed in 2017. The operator informed DNR that a drilling contractor investigated the site and determined water was precipitation resurfacing after rain events or snow melt. The drill contractor did not advise re-drilling. DNR requests the operator to continue monitoring at this site. The rating for this location has been modified to 3-C⁴.

3.11 Borehole 12550 (ADL 552914, Figure: 19)

Borehole 12550 exhibits continued pooling of water at the casing. The standing water is clear and approximately 6-8" deep in a triangular shape (approximately 4' wide by 6' long) surrounding the borehole. Vegetative growth surrounding the pool of water suggests its continued presence. The outflow channel downgradient from the borehole observed in previous years was dry at the time of inspection. DNR requests the operator continue to monitor this site and conduct any repairs as necessary. The borehole rating for this location is retained at 3-C⁴.

3.12 Borehole P-04-03 (ADL 516874, Figure: 20)

Borehole P-04-03 was observed with the casing and a PVC pipe structure removed from the main PVC pipe stem. The borehole stem is a PVC structure and appears to have been capped at one time. The PVC pipe was not observed with a cap at the time of inspection as is required under MLUP A20176118. DNR requests the operator place a cap as soon as practicable. The borehole rating for this location has been established as 1-C.

4. Site Structures

All structures authorized under MLUP A20176118 were visited. Structures are in acceptable condition, are adequately maintained and in support of the ongoing maintenance and repair activities conducted by the operator. All structures observed were temporary in nature and construction.

4.1 Main Supply Depot Including West Bay 4 (ADL 516811 and 516874, Figure 21-22)

Equipment and supplies at the Main Supply Depot were stored in an orderly fashion and have been adequately maintained. Drill steel, dunnage, drill platforms, containment facilities, and remediation supplies were documented on site.

4.2 Watershed (ADL 524712, Figure: 23)

The Watershed site is in good condition and houses remediation and emergency response supplies. A fuel tank with aluminum containment is present. The fuel container was empty at time of inspection. Secondary containment rainwater collection should be decanted regularly if the tank is put into operation.

4.3 ARD Test Site (ADL 524713, Figure: 24-25)

The ARD Test Site is comprised of twelve poly drums containing rock material. All inlets and outlets to the drums are adequately sealed with exception of one hose outlet (middle drum, most southeasterly row). The hose inlet is approximately 6" above rock level with no water observed in the container. Notification was given to PLP during the inspection to reseal the outlet. PLP described having trouble with avian wildlife disrupting the tops of the barrels in the 2016 inspection. PLP replaced all lids with substantial metal lids appropriately affixed to the barrels. All drums are located on a tundra pad and no water was present onsite. No discoloration or other indicators of leakage were present. ADNR requests PLP continue to monitor regularly. Any repairs or modifications should be detailed in the annual reclamation report.

4.4 West Bay 1 and West Bay 3 (ADLs 524714 and 642412, Figure 26-27)

All West Bay facilities are kept in acceptable condition. West Bays are small structures (approximately 8' by 12') used in support of ongoing monitoring and study wells.

4.5 Pebble 1 Meteorological Station (ADL 524829, Figure: 28)

The Pebble 1 Meteorological Station is orderly. The operator informed DNR at the time of inspection that the

Pebble 1 Meteorological Station is now fully functional in data collection and data relay. The operator also informed DNR that two yellow barrels onsite were purposed for rainwater collection. Both containers were approximately one quarter capacity at the time of inspection.

4.6 Koktuli Mountain Repeater Station (ADL 646608, Figure: 29-31)

ADNR visited the Koktuli Mountain Repeater Station and found facilities to be in acceptable condition. PLP noted vandalism to solar panel and tower equipment in the winter of 2016-2017. The operator subsequently reported cable and tower replacement in the 2017 field season⁷.

Sites Not Inspected

A total of thirteen targeted boreholes were inadvertently missed during the three-day inspection. Boreholes missed during this inspection will be inspected in the 2018 season. Of the thirteen boreholes missed, five were subsequently reported as reclaimed and abandoned⁶, one was retained for future use⁶ and seven were flagged for additional investigation or follow up by DNR. See Appendix D for a listing of these sites.

Violations

Three boreholes were observed missing caps (GH06-078, P-04-02M, and P-04-03), in violation of MLUP A20176118 reclamation stipulation 1g. The requirement for borehole capping is a new permit stipulation and requires the operator to cap approved boreholes or monitoring wells where practicable, in a manner which prevents water infiltration, contamination of groundwater, artesian conditions or tampering. Site GH06-078 is plugged but not abandoned (an above ground casing remains). The operator should consider removing the above ground structure and fully abandon the site or request approval to retain the site for future use. The presence of the material plug satisfies the spirit of the capping requirement at this site. Site P-04-02M was observed with a cap present, but not affixed. The operator was notified during the inspection. Borehole P-04-03 was observed with a cap present but not affixed. Site P-04-03 is otherwise in stable condition and is not producing a surface water expression.

ADNR was subsequently notified by the operator that all sites were successfully capped on 5 October 2017 (GH06-078), 6 October 2017 (P-04-02M), and 18 January 2018 (P-04-03). As a result, the infractions mentioned above have been adequately addressed and no further action is required

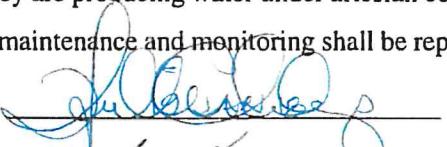
No other violations of MLUP A20176118 stipulations, AS 27.19 or 11 AAC 97 were observed during the course of this inspection.

Conclusion and Recommendations

ADNR finds the Pebble Limited Partnership operation is in good condition and is consistent with industry standards. The operator facilitates activities in a manner which prevents unnecessary and undue degradation of State land and water resources. Any additional investigation or repair for boreholes shall be coordinated with ADNR and DEC if they are producing water under artesian conditions per Section 1(i) of MLUP A20176118⁸.

All other maintenance and monitoring shall be reported in the end of year Reclamation Report summary.

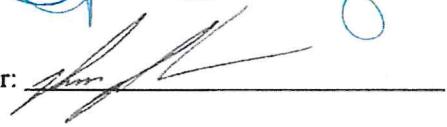
Inspector:



Date:

19 JAN 2018

Supervisor:



Date:

1/19/2018

Report Prepared By: H. Chalup

⁷ PLP submitted an Annual Reclamation Report on December 31, 2017 detailing reclamation, repair and abandonment work conducted during the 2017 working season. A copy of the submission can be found at: <http://dnr.alaska.gov/mlw/mining/largemine/pebble/reclamation-reports/plorec2017.pdf>.

⁸ APMA A20176118 Stipulation 1i states, "If artesian conditions are encountered, the operator shall contact the Department of Environmental Conservation (Pete McGee (907) 451-2101) for hole plugging requirements. Please note the ADEC contact has been modified to Tim Pilon who may be reached at (907) 451-2136.

Appendix A

Inspection Maps and Observations of Note

See Appendix C for an index of sites inspected.

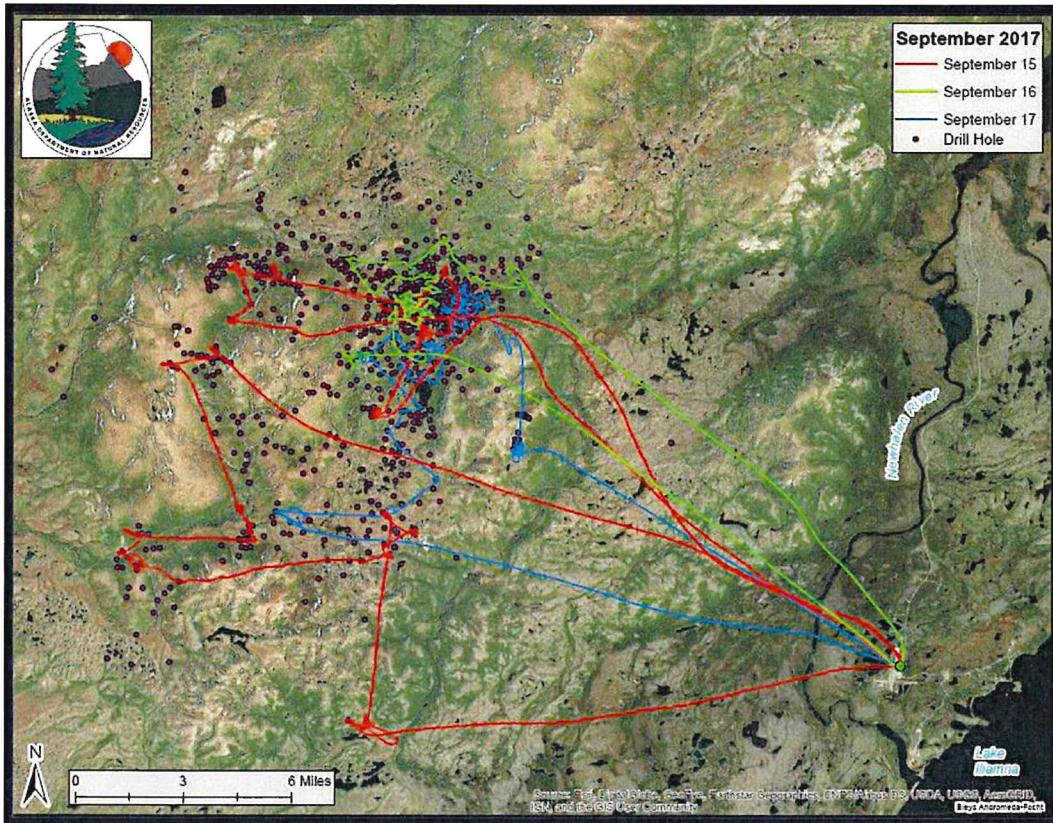


Figure 1 - ADNR staff conducted three days of helicopter supported inspections at the Pebble Project, Sept. 2017.

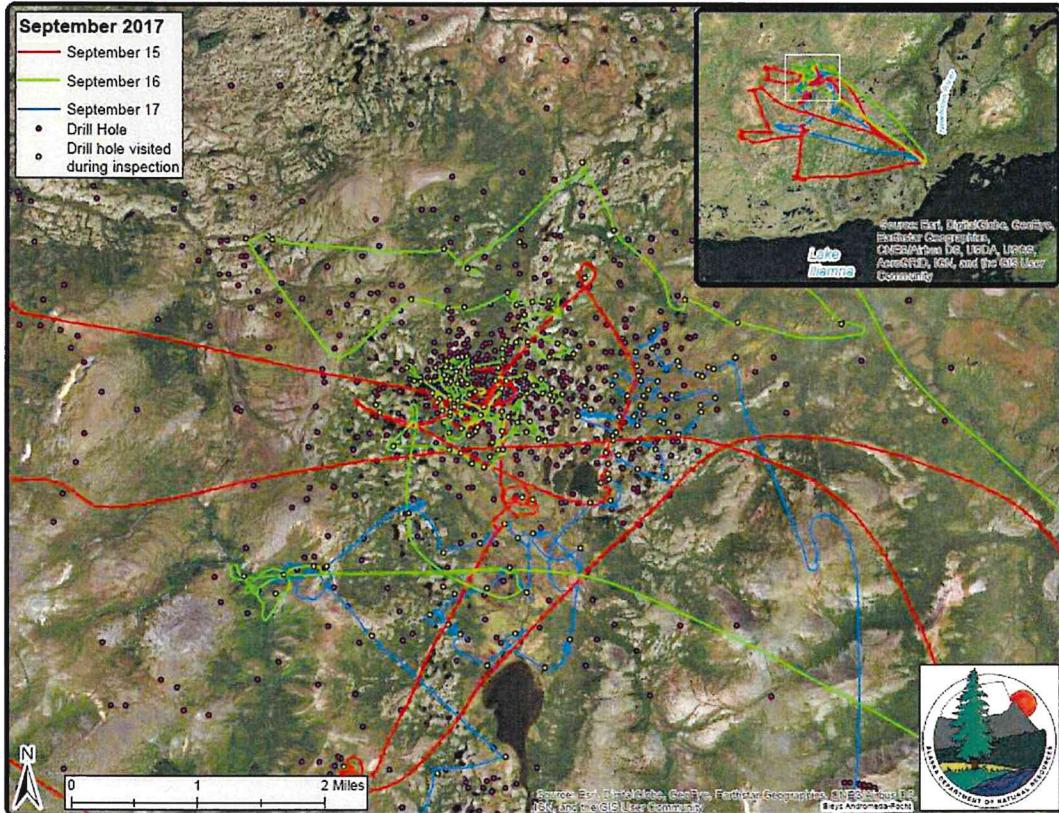


Figure 2 - Pebble East and West Deposit Inspections, Sept. 2017.

Observations of Note

1. Borehole 8433M
15 Sept 2017



2. Borehole 3132
15 Sept 2017

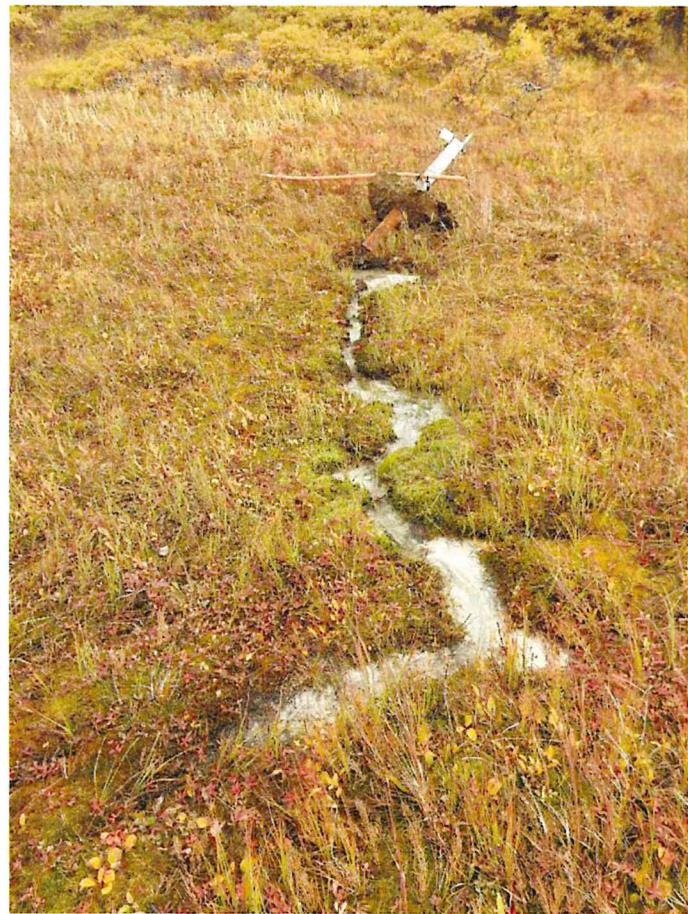
Borehole 3131
also pictured (nearest stake).



3. Borehole 9475
15 Sept 2017



**4. Borehole
GH08-156**
15 Sept 2017



**5. Borehole
GH06-072
17 Sept 2017**



**6. Borehole
GH11-236
17 Sept 2017**



7. Borehole 4279
15 Sept 2017



8. Borehole 5332
15 Sept 2017



9. Borehole 3127
16 Sept 2017



10. Borehole 3134
16 Sept 2017



11. Boreholes 4153
16 Sept 2017



12. Borehole 4224
16 Sept 2017



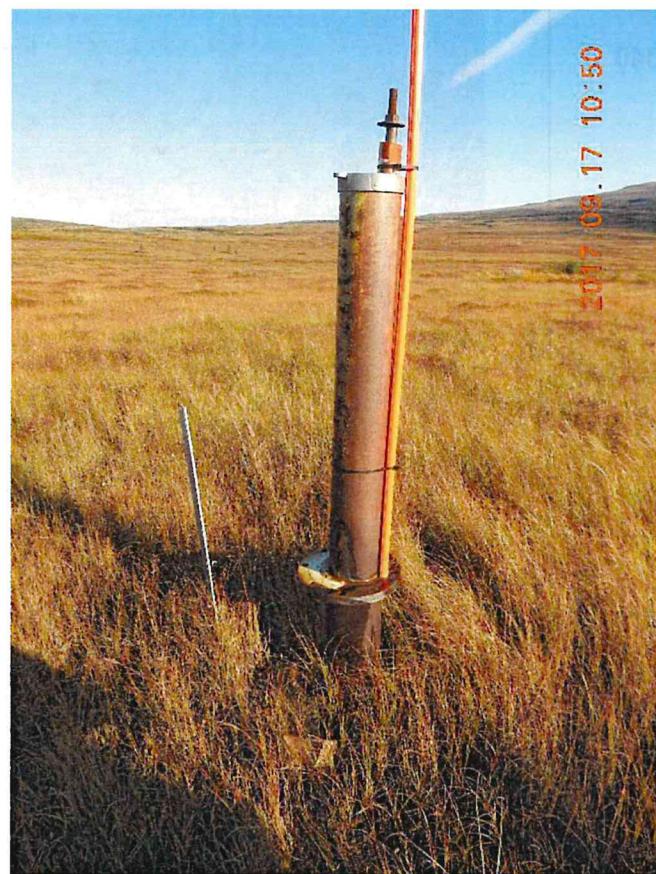
13. Borehole 6340
17 Sept 2017



**14. Borehole
GH11-247**
16 Sept 2017



15. Borehole GH11-272S
17 Sept 2017



16. Borehole P-04-02M
16 Sept. 2017



17. Borehole GH06-078
17 Sept 2017



18. Borehole 11538
15 Sept 2017



19. Borehole 12550
15 Sept 2017



20. Borehole P-04-03
16 Sept 2017



21. Main Supply Depot
16 Sept 2017



22. Former West Bay 4 at Main Supply Depot
16 Sept 2017



23. Watershed
16 Sept 2017



24. ARD Test Site
17 Sept 2017



25. ARD Test Site
17 Sept 2017

Orange colored circle identifies
hose without outlet
plug. See Section
4.3.



26. Westbay 1
26 July 2016



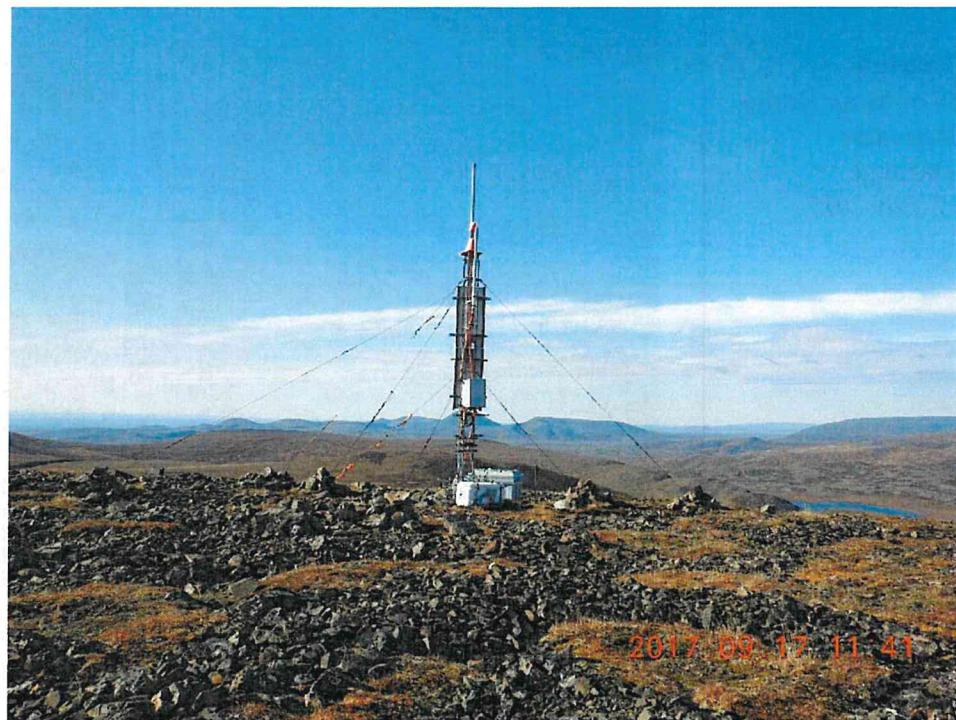
27. Westbay 3
15 Sept 2017



28. Pebble 1
Meteorological
Station
16 Sept 2017



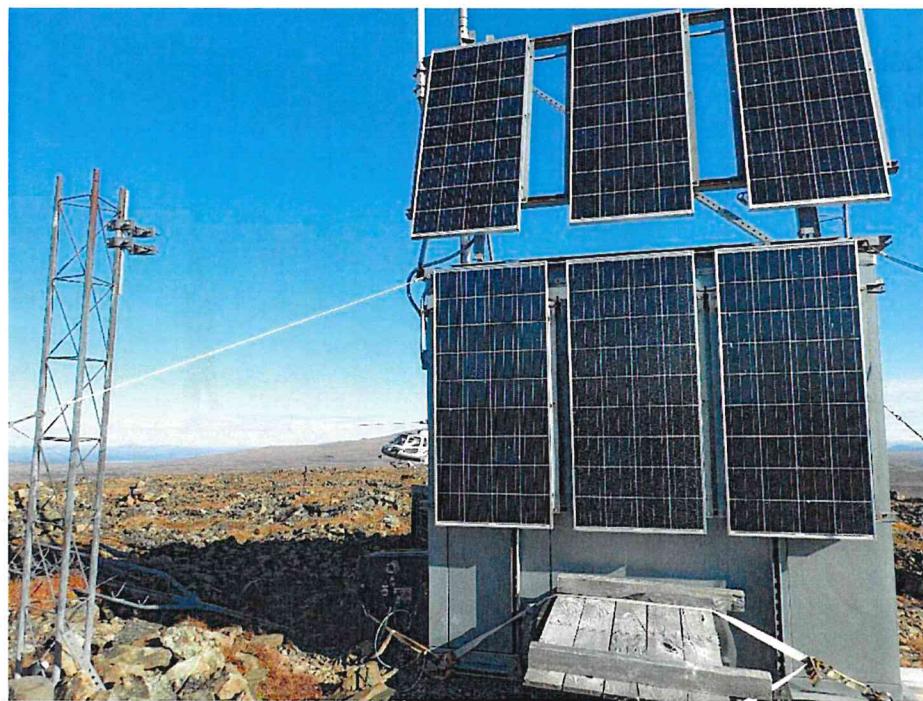
**29. Koktuli Mountain
Radio Repeater**
17 Sept 2017



**30. Koktuli Mountain
Radio Repeater**
17 Sept 2017



**31. Koktuli
Mountain Radio
Repeater
Damage**
17 July 2017



Appendix B

In 2015, PLP provided rating codes for each individual borehole across the project area. The coding was developed by PLP and is used as a means of communication between PLP and ADNR. ADNR conducts ongoing random sampling of locations to assess the efficiency and accuracy of the PLP rating system.

Borehole Status Codes

Code	Category	Description
1	Active	Primary designation for active monitoring wells (groundwater quality, geotechnical, etc.). Also used for some former exploration boreholes that are maintained as possible water sources. Active sites do not have material plugs (grout, cement, bentonite) but may be fitted with mechanical plugs or caps.
2	Inactive	Site is not currently used as monitoring/study location, but is preserved for potential future use (e.g., additional drilling, water source). Inactive sites maintain aboveground structures (casing, valves, caps).
3	Abandoned	Site is decommissioned and fully abandoned. Borehole has been plugged as appropriate. All surface structures removed, with possible exception of wood post indicating location and borehole ID.

Maintenance/Reclamation Status Codes

Code	Category	Description
A	Major Repairs	Site condition presents an identified environmental compliance or health & safety concern, or is at risk of progressing if not addressed as soon as possible. Significant repairs necessary, typically requiring advanced planning, technical staff and additional equipment. Coordination and approval from DNR or other agency may be required. <i>Examples: upwelling of discolored or voluminous water; discharge to surface water.</i>
B	Minor repairs	Site condition requires repairs or rehabilitation, but is stable and not at risk of deteriorating further. Work does not require technical staff but generally cannot be completed during routine maintenance trips or by one person. Advance approval from DNR or other agency is usually not required unless circumstances dictate. All repair activities summarized in annual report. <i>Examples: Margo plug replacement/installation; large area rehabilitation or revegetation efforts requiring soil amendments and reseeding.</i>
C	Routine Maintenance or Additional Investigation	Maintenance requirements are small or insignificant and generally the result of normal operation or exposure to elements. Repairs can be completed by staff during routine inspections and do not require specialized equipment or advance planning. Also used to identify sites where conditions cannot be confirmed, thus requiring additional inspection or involvement of higher level staff. <i>Examples: application of sealant around cap; water valve replacement; ponded surface water with unconfirmed source.</i>
D	Stable/Monitored	Site condition is stable and has been fully reclaimed, but with past maintenance issues or known to have higher maintenance needs. All structural equipment, if any, is in good condition. Minimum monitoring is generally more frequent than Category E sites. Also applies to sites that have recently been repaired but require more frequent inspection to verify repairs and reclamation efforts. <i>Examples: artesian sites; sites with recent, major repairs.</i>
E	Stable/No Action	Site condition is stable and has been fully reclaimed. All structural equipment, if any, is in good condition. No known issues. No history of upwellings, leaks, or staining. Located in area unlikely to cause concern (e.g., wetlands, artesian zone). Inspection frequency is lower than Category D sites.

Appendix C

Inspected Borehole Identification Number [Borehole Rating]					
0009[3E]	3117 [3E]	5326 [1E]	9450 [3E]	GH06-072 [1D]	P-05-20D [1D]
0040 [3E]	3118 [3E]	5330 [1D]	9453 [3E]	GH06-073 [3E]	P-05-20S [1E]
0051 [3E]	3120 [3E]	5332 [3D]	9454 [3E]	GH06-078 [2C]	P-05-21D [1D]
0098 [3E]	3121 [3E]	5334 [3E]	9459 [3E]	GH07-081 [1D]	P-05-21M [1D]
0099 [3E]	3123 [3E]	5335 [2E]	9462 [3E]	GH07-105 [1E]	P-05-21S [1E]
0100 [3E]	3124 [3E]	5336 [2E]	9474 [3E]	GH07-106 [1D]	P-05-25 [1E]
0103 [3E]	3127 [3B]	5337 [2E]	9475 [3D]	GH08-107 [1E]	P-05-28D [1E]
0112 [3E]	3128 [3E]	6338 [3E]	9477 [3E]	GH08-110 [1D]	P-05-28S [1E]
0119 [3E]	3129 [3E]	6339 [3E]	10481 [3E]	GH08-111 [1E]	P-05-36D [1E]
0123 [3E]	3131 [3D]	6340 [3D]	10485 [3E]	GH08-119 [1E]	P-05-36M [1E]
0124 [3E]	3132 [3D]	6341 [3E]	10486 [3E]	GH08-120 [1E]	P-05-36S [1E]
0125 [2E]	3134 [3B]	6343 [2D]	10498 [3E]	GH08-122 [1D]	P-06-38D [1D]
2005 [3E]	3135 [3E]	6344 [1E]	10502 [3E]	GH08-133 [1E]	P-06-38M [1E]
2010 [3E]	4137 [3D]	6345 [3E]	10518 [3E]	GH08-134 [1D]	P-06-40D [1D]
2031 [3E]	4145 [3E]	6348 [3E]	10520 [3E]	GH08-151 [3D]	P-06-40M [2D]
2046 [3E]	4149 [3E]	6349 [3E]	11526 [3E]	GH08-156 [1B]	P-06-40S [1D]
2048 [3E]	4153 [3D]	6350 [3E]	11527 [3E]	GH08-206 [1E]	P-08-54D [1E]
2052 [3E]	4159 [3E]	6355 [3E]	11528 [3E]	GH10-217 [1E]	P-08-54S [1D]
2053 [3E]	4164 [3E]	7358 [3E]	11530 [3E]	GH10-221 [1E]	P-08-57D [1E]
2059 [3E]	4165 [1E]	7359 [3E]	11531 [2E]	GH10-226 [3E]	P-08-85D [1D]
2060 [3E]	4166 [1E]	7365 [1C]	11532 [2E]	GH11-231 [1E]	P-08-85S [1E]
2063 [3E]	4167 [3E]	7367 [3E]	11533 [3E]	GH11-233 [1E]	PS08-01 [3E]
3069 [3E]	4171 [1E]	7372 [3E]	11535 [1E]	GH11-236 [1D]	PW-04-03 [2E]
3071 [3E]	4175 [3E]	7377 [1E]	11536 [3E]	GH11-242 [1E]	PW-05-05 [2E]
3072 [3D]	4179 [3D]	7378 [3E]	11538 [3C]	GH11-247 [2D]	PW-05-06 [2E]
3073 [3E]	4180 [3E]	7379 [3E]	12545 [3E]	GH11-249S [1E]	PW-08-09 [3E]
3076 [3E]	4182 [3E]	7380 [3E]	12550 [3C]	GH11-254S [1E]	Sill 01 [3E]
3078 [3E]	4183 [3E]	7381 [3E]	12551 [1E]	GH11-270S [1C]	Sill 15 [3E]
3079 [3E]	4185 [3E]	7382 [2D]	12555 [3E]	GH11-271S [1E]	Sill 02 [3E]
3080 [3E]	4187 [3E]	7384 [3E]	12557 [3E]	GH11-272S [1D]	Sill 20 [3E]
3081 [3E]	4191 [3E]	7385 [3E]	4271M [3E]	GH11-296 [1E]	
3082 [3E]	4198 [3E]	7386 [3E]	4290M [3E]	GH12-320S [1E]	<u>Structures Locations</u>
3083 [3E]	4202 [3D]	8401 [3E]	4291M [3E]	MW-04-01D [1E]	ARD
3084 [3E]	4204 [3E]	8405 [3E]	4295M [3E]	MW-04-01M [1E]	Koktuli Repeater
3086 [3E]	4205 [3E]	8407 [3E]	5314M [3E]	MW-04-01S [1E]	Main Supply Depot
3088 [3E]	4206 [3E]	8410 [1E]	5315M [3E]	MW-04-09D [1D]	Pebble 1
3089 [3E]	4208 [3E]	8412 [3E]	7391M [3E]	MW-04-11D [1E]	Watershed
3090 [3E]	4215 [3E]	8413 [2D]	7392M [3E]	MW-04-11M [1E]	West Bay 1
3092 [3E]	4221 [3E]	8415 [3E]	7396M [3E]	MW-04-11S [1E]	West Bay 3
3093 [3E]	4223 [3D]	8417 [3E]	8424M [3E]	MW-05-11SS [1E]	West Bay 4
3095 [3E]	4224 [3C]	8421 [3E]	8433M [3D]	MW-05-13D [1E]	
3101 [3E]	4225 [3C]	8422 [3E]	8441M [3E]	MW-05-13S [1E]	
3103 [3E]	4232 [3E]	8423 [2D]	GH04-008 [1D]	MW-05-14D [1E]	
3105 [3D]	4279 [3D]	8438 [3E]	GH05-052 [1D]	MW-05-14S [1E]	
3110 [3E]	4292 [3E]	9445 [3E]	GH05-060 [1D]	P-04-02D [1E]	
3112 [3E]	4303 [3E]	9446 [3E]	GH06-070 [1D]	P-04-02M [1C]	
3113 [3E]	5324 [1D]	9447 [2E]	GH06-071 [1D]	P-04-03 [1C]	
3115 [3E]	5325 [3E]	9448 [3E]	GH06-071A [1D]	P-04-04M [2E]	

Appendix D

Sites Not Inspected by DNR	
3085	Reported as reclaimed and abandoned on 30 Nov 2017
4190	Flagged for follow up on revegetation
4305	Reported as reclaimed and abandoned on 30 Nov 2017
7366	Reported as reclaimed and abandoned on 30 Nov 2017
9449	Reported as reclaimed and abandoned on 30 Nov 2017
9468	Reported as reclaimed and abandoned on 30 Nov 2017
11540	Site of public concern
12547	Site flagged for abandonment verification
12548	Site of public concern
12561	Subsidence noted in 2016 DNR Inspection
GH06-079	Reported as retained for future use on 30 Nov 2017
SRK-5D/KP-P3D	Seasonal artesian pressure noted
SRK-5S/KP-P3S	Site of public concern

