

- Since 1986 PLP has drilled 1,355 bore holes on 1,719 mineral claims totaling 158,276 acres of state land
- Borehole depth ranges from a few 10's of feet to over 6,000 feet



- Visited 150 sites and documented 107 sites in 5 days
- Collected water & soil samples

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Example of Multiple Drill Sites, near P04-4M, 3Aug16

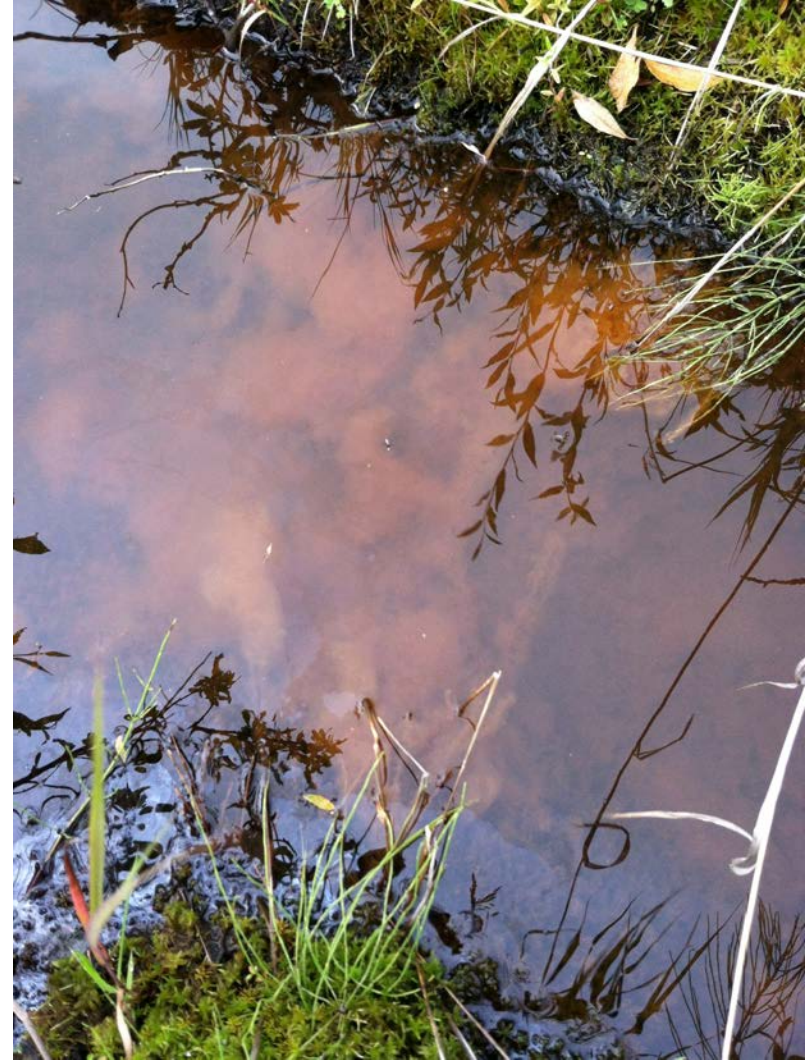


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SURVEY FINDINGS – Problems in 4 General Areas:

- Soil at seventeen sites had acidic soils with pH lower than 4.5
- Artesian dill holes with elevated levels of sulfate, copper, and other heavy metals
- Petroleum contamination detected around some drill sites
- Steel drill casings remaining above ground pose a danger to snow machines

Initial Sites	Documented Sites	Sites with Environmental Issues	Sites with only Minor Issues	Fully Reclaimed Sites
1,355	107 (8%)	44 (41%)	27 (25%)	36 (34%)



DDH 4202 1Aug16

- Petroleum contamination

- Steel drill casings remaining above ground pose a danger to snow machines



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- Steel drill casings remaining above ground pose a danger to snow machines



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GH05-60 1Aug16



- Artesian drill holes with elevated levels of sulfate, copper, and other heavy metals

Artesian Flow
DDH 7386
2Aug16



Artesian Flow with drill cuttings
DDH 9475
4Aug16



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Artesian Flow with Drill Mud
DDH 7380
2Aug16

- Soil at seventeen sites had acidic soils with pH lower than 4.5



Soil Sampling near DDH 6355, 3Aug16

- Soil at seventeen sites had acidic soils with pH lower than 4.5



Soil Sampling near DDH 3129, 5Aug16



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DDH 4145 3Aug16

DDH 4232 3Aug16



What is the source of the contaminated soils?

Photo #14. Clay deposited in a dry depression by discharged drilling fluids.

Drilling waste discharged to land. (ADNR inspection report June 2005)



Figure 4. Water and cuttings discharge on uplands.

Drill cuttings discharged directly from the drill rigs. (ADNR inspection report, April 5 2007)



2006 Pebble East Drill Site



Drill Waste Sump DDH 11540, 22Oct11





Drill Waste Sumps
DDH 11540
22Oct11

Reclaimed Waste Sump near DDH 10486, 5Aug16



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QUESTIONS?

