

## Field Inspection Report -Pebble Copper/Gold Exploration Project-

Personnel: Patricia Bettis (ADNR/MLW) and  
David Johnson (DEC)  
APMA No.: A076118

Inspection Date: October 4, 2007

**Inspection Type**

- Complete:
- Partial: **Rig 3, 4, 6 & 9.**
- Follow-up:
- Response to complaint:

**Weather Conditions**

- Temperature: **40 f**
- Wind: **gusts to 40 mph**
- Precipitation and types: **rain, snow at higher elevation.**
- Visibility: **fair-low clouds and periodic precipitation.**
- Sky Conditions: **Cloudy-ceiling estimated at 1500 AGL.**
- Ground conditions: wet from recent rains.**

**Wildlife Observed**

- Bear: None observed.
- Caribou: None observed.
- Moose: None observed.
- Waterfowl: None observed.
- Fish: None observed.
- Other: **Beaver dam, but no beavers observed.**

**Water level Frying Pan Lake\***

- Observed inflow: Yes \_\_\_\_ No \_\_\_\_
- Observed outflow: Yes \_\_\_\_ No \_\_\_\_

*\* Did not fly over Frying Pan Lake.*

**Water level area ponds/lakes near Iliamna:**

Small lakes around Iliamna were observed to have low water levels.

**Comments:** At the time of inspection.

Rig Number

Status

Rig Number	Status
1	Moving to near drill hole 6339 to drill angle hole.
2	Recently moved top pull casing at drill hole 7373.
3	Currently drilling.
4	Currently drilling.
5	Currently drilling.
6	Standby. Waiting on parts. Current depth at approx. 1,867 feet.
7	Rig broke down.
8	Unknown.
9	Drilling geo-tech hole in potential tailing disposal area.

Action Needed: Wells used as water sources need to be capped when not in use to prevent contamination of groundwater, e.g. Well No. 6347.

Well/Site No.: 7384

Rig: No. 4

Activity: Drilling

Photograph(s) No.: 1

**Condition of Drilling Site**

- Distance from water body: **125 ft.**
- Location of fuel storage: **On pad.**
- Sorbent Pads Present or Not: **Yes.**
- Tundra Mat: **Yes.**
- Pipe off Tundra: **Yes.**
- Litter: **None.**
- Spill Indications: **None observed.**
- Activity: **Drilling.**
- Trash Containment: **Yes.**
- Sanitary Facilities: **Yes.**
- Any spills or staining, or 'none' for that matter: **None.**
- General impression of site: **Clean. No disturbance to tundra other than sump pit and trench.**

**Drilling Activity**

- Drill additives in use (list): **NA.**
- Water discharged: **Yes.**
- Water recirculation: **No.**
- Artesian zone encountered: **NA.**

**Sump Pit**

- Location: **Next to rig.**
- Discharge trench: **Yes. Approx. 6 inches deep and 10 inches wide.**
- Dimension pit: **Approx. 6 feet in depth, 2 to 5 feet in width.**
- In use: **Yes.**
- Level of water in pit: **High.**

**Sump Pit Cont'd**

- Topsoil, muck, tundra stockpiled: **Yes.**
- Location and extent of discharged material? **Discharge to secondary sump pit.**
- Location of secondary sump pit: **SE of rig 6.**
- Hose color: **White.**

**Drill Water Supply**

- Stream/Lake/Pond: **Kettle Pond.**
- Location: **NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> Sec. 27, T3S, R35W, S.M. (see location map)**
- Adequate water flow and depth for fish passage in streams? **NA.**
- Evidence of significant impacts to riparian vegetation or stream banks? **There was no sign of drawdown from water use from this lake. No impact to stream bank observed.**
- Relative water level? **High.**
- General impression of water body, i.e. clear, turbid, tannic colored, etc.? **Good. Clear waters in shallow portions of lake. No indication of pollution or sedimentation.**
- Intake structure: **Screened cylinder.**
- Structure clear of debris: **Yes**
- Mesh size: **0.25 inches.**
- Submerged: **Yes.**
- Pump location to source: **25 feet.**
- Catch basin for fuel supply: **Yes.**
- Catch basin devoid of rain water: **Yes.**
- Sorbent Pads Present or Not: **Yes.**
- Hose color: **Yellow.**

Well/Site No.: 7385

Rig: No. 3

Activity: Drilling

Photograph(s) No.: 7, 8, 9

Condition of Drilling Site

- Distance from water body: **Not measured**
- Location of fuel storage: **On pad.**
- Sorbent Pads Present or Not: **Yes.**
- Tundra Mat: **Yes.**
- Pipe off Tundra: **Pipes observed on tundra.**
- Litter: **None.**
- Spill Indications: **None observed.**
- Activity: **Drilling.**
- Trash Containment: **Yes.**
- Sanitary Facilities: **Yes.**
- Any spills or staining, or 'none' for that matter: **None.**
- General impression of site: **Site is wet, marshy. Not as clean as site no. 7384. Water in fuel containment catch basin.**

Drilling Activity

- Drill additives in use (list): **NA.**
- Water discharged: **Yes.**
- Water recirculation: **No.**
- Artesian zone encountered: **NA.**

Sump Pit

- Location: **Next to rig.**
- Discharge trench: **Yes. Trench was flooded.**
- Dimension pit: **Pit was flooded**
- In use: **Yes.**
- Level of water in pit: **High.**

Sump Pit Cont'd

- Topsoil, muck, tundra stockpiled: **Yes.**
- Location and extent of discharged material? **Discharged directly onto the tundra, north of rig, see photograph no. 9.**
- Location of secondary sump pit: **None.**
- Hose color: **White.**

Drill Water Supply

- Stream/Lake/Pond: **Stream.**
- Location: **Directly to southeast of rig (see location map)**
- Adequate water flow and depth for fish passage in streams? **Water take point not observed.**
- Evidence of significant impacts to riparian vegetation or stream banks? **NA.**
- Relative water level? **NA.**
- General impression of water body, i.e. clear, turbid, tannic colored, etc.? **NA.**
- Intake structure: **NA.**
- Structure clear of debris: **NA.**
- Mesh size: **NA.**
- Submerged: **NA.**
- Pump location to source: **NA.**
- Catch basin for fuel supply: **NA.**
- Catch basin devoid of rain water: **NA.**
- Sorbent Pads Present or Not: **NA.**
- Hose color: **Yellow.**

Well/Site No.: 7376

Rig: No. 6

Activity: Standby

Photograph(s) No.: 5

**Condition of Drilling Site**

- Distance from water body: **Approx. 230 feet.**
- Location of fuel storage: **On pad.**
- Sorbent Pads Present or Not: **Yes.**
- Tundra Mat: **Yes.**
- Pipe off Tundra: **Discarded pipes on tundra.**
- Litter: **Observed.**
- Spill Indications: **None observed.**
- Activity: **On standby waiting parts.**
- Trash Containment: **Yes.**
- Sanitary Facilities: **Yes.**
- Any spills or staining, or 'none' for that matter: **None.**
- General impression of site: **No disturbance to tundra other than sump pit and trench.**

**Drilling Activity**

- Drill additives in use (list): **NA.**
- Water discharged: **NA.**
- Water recirculation: **NA.**
- Artesian zone encountered: **NA.**

**Sump Pit**

- Location: **Next to rig.**
- Discharge trench: **Yes. Approx. 6 inches deep and 10 inches wide.**
- Dimension pit: **Not measured.**
- In use: **No. Rig on standby.**
- Level of water in pit: **Low.**

**Sump Pit Cont'd**

- Topsoil, muck, tundra stockpiled: **Yes.**
- Location and extent of discharged material? **NA.**
- Location of secondary sump pit: **To southwest. Secondary pit is a natural hollow.**
- Hose color: **White (not in use currently).**

**Drill Water Supply**

- Stream/Lake/Pond: **Kettle Pond.**
- Location: **NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> Sec. 27, T3S, R35W, S.M. (see location map).**
- Adequate water flow and depth for fish passage in streams? **NA.**
- Evidence of significant impacts to riparian vegetation or stream banks? **No impact to pond banks observed.**
- Relative water level? **Lake level appeared higher than that of 6 September 2007. See photograph \_\_\_\_.**
- General impression of water body, i.e. clear, turbid, tannic colored, etc.? **No indication of pollution or sedimentation.**
- Intake structure: **Still in place.**
- Structure clear of debris: **NA.**
- Mesh size: **NA.**
- Submerged: **Yes.**
- Pump location to source: **<50 feet.**
- Catch basin for fuel supply: **Yes.**
- Catch basin devoid of rain water: **No.**
- Sorbent Pads Present or Not: **Yes.**
- Hose color: **Yellow.**

- Abandoned Drill Site No.: **7359**  
Photograph(s) No.: 2
  - Plugged: **Yes.**
  - Cemented:
  - Standing Pipe: **Yes.**
  - Sump Pit Filled In: **Yes.**
  - Site Re-vegetated: **Yes.**
  - Artesian Water Present: **No.**
  - Any spills or staining, or 'none': **None.**

- Trenches
  - Number and description (depth & length, etc): **Sump pit and trench filled in and reclaimed.**
  - Number of feet of trenches not reclaimed  
\_\_\_\_\_.

**Action Needed:** Upper three feet of well casing should be removed to eliminate potential hazard threat.

Abandoned Drill Site No.: **7369**

Photograph(s) No.: 4

Plugged: **Yes.**

Cemented:

Standing Pipe: **No.**

Sump Pit Filled In: **Yes.**

Site Re-vegetated: **No.**

Artesian Water Present: **No.**

Any spills or staining, or 'none': **None.**

Trenches

Number and description (depth & length, etc): **Sump pit and trench filled.**

Number of feet of trenches not reclaimed  
\_\_\_\_\_.

**Action Needed:** None. Reclamation of site just started..



Photograph No. 1: Drill Site No.7384 trench and sump pit.



Photograph No. 2: Drill Site 7359 with standing pipe left.



Photograph No. 3: Secondary sump pit (natural hallow) near Drill Site No. 7369.



Photograph No. 4: Drill Site No. 7369  
Well casing cut off below ground. Reclamation work started.





Photograph No. 5: Drill Site No 7376  
Note pipe and debris on tundra.



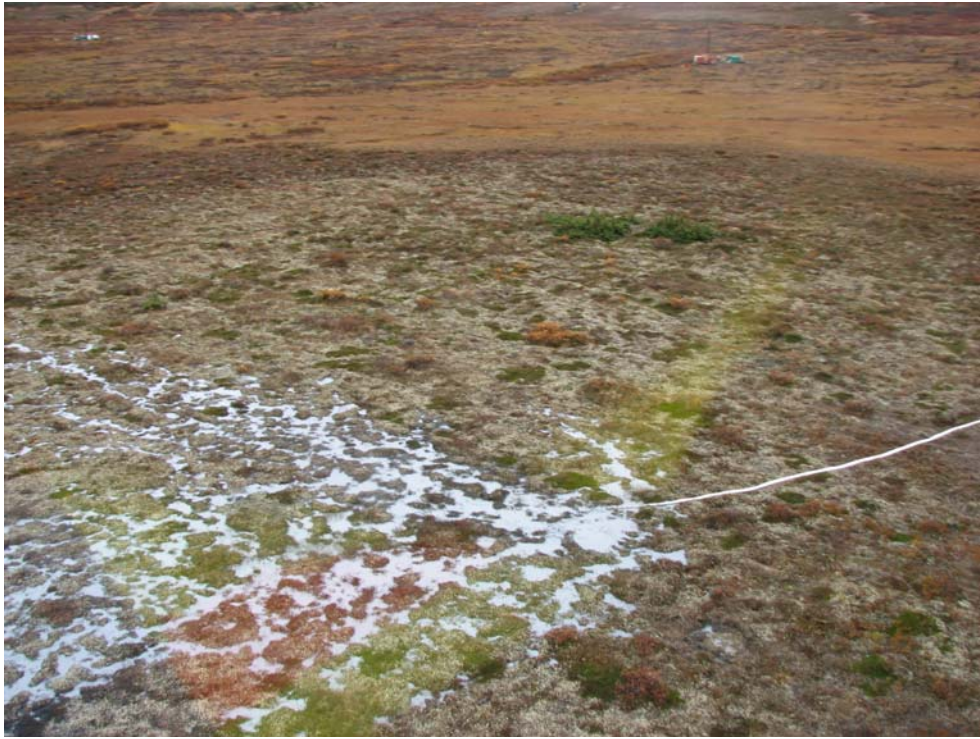
Photograph No. 6: Secondary sump pit (natural hollow) near Drill Site No. 6347  
Note water level relative to vegetation.



Photograph No. 7: Drill Site No 7385  
Note standing water in secondary fuel catchment basin.



Photograph No. 8: Drill Site No. 7385  
Trench and sump pit system is inadequate owing to marshy conditions.



Photograph No. 9: Discharge of drilling water from Drill Site No. 7385 (rig 3) onto tundra.

