Field Inspection Report -Pebble Copper/Gold Exploration Project-

Personnel: Shawn Stokes (ADEC) and Jeff Estensen (ADNR/OHMP)	Inspection Date: June 17-18, 2008
APMA No.: A086118	
Inspection Type	☐ Bear:
☐ Complete: All drill rigs were inspected	☐ Caribou:
(Figures 1 and 2)	☐ Moose:
☐ Follow-up:	☐ Waterfowl:
☐ Response to complaint:	☐ Fish:
Weather Conditions	☐ Other: Ground squirrels, bald eagle
☐ Temperature: Approx 60° F	☐ Water level Frying Pan Lake: Not Observed
☐ Wind: S 5 knots	Observed inflow: Yes No
☐ Precipitation and types: None	Observed outflow: Yes No
☐ Visibility: > Unlimited	
☐ Sky Conditions: 30 % overcast-scattered	
☐ Ground conditions: Clear	
Wildlife Observed	

Comments: Overall all rigs were clean and orderly, and fuel storage spill containment measures were in place. All drilling operations appeared to be in compliance with associated water use and withdrawal permits. The inspectors during the May 7, 2008 visit noted the presence of windblown litter in the area. We did not observe any windblown litter on the tundra during out visit. Also, we did not observe nor visit drill rig No. 8 (the May 7, 2008 inspectors noted the lack of a tundra mat).

Recommendations:

- Provide PLP with a name list and photographs of all agency personnel who will be taking part in the state site inspections. Work with PLP to see if safety/operational briefings can be conducted prior to agency personnel traveling to the site. This would allow more time for inspections, potentially eliminating overnight visits.
- Prior to visits, request from PLP to provide monitoring staff with updated operations map for the Pebble exploration projects. Also, inform monitoring staff of any new developments or changes in operational plans.

Actions Needed: Follow-up on reclaimed sites 7362 and 7389 to ensure the drill holes are cemented and capped, and the reclamation process is completed. Other reclamation sites should be viewed during future visits.

Dr	ill rig no. 5 (8407; Figure 3)	Da	te.: June 17, 2008
Ac	tivity: Operational		
		Sur	np Pit Cont'd
Co	ndition of Drilling Site		Location and extent of discharged material: land
	Distance from water body: > 100 ft.		application discharge approx 500 ft from rig.
	Location of fuel storage: On pad (Figure 4).		Topsoil, muck, tundra stockpiled: Yes
	Sorbent Pads Present or Not: Yes		Location of secondary sump pit: NA
	Tundra Mat: Yes		Hose color: White
	Pipe off Tundra: Yes		
	Litter: None	Dri	ll Water Supply
	Activity: Operational		Stream/Lake/Pond: small seep
	Trash Containment: Yes		Location: near rig
	Sanitary Facilities: Yes		Adequate water flow and depth for fish passage
	Any spills or staining, or 'none' for that matter:		in streams? NA
	None		Evidence of significant impacts to riparian
	General impression of site: Clean, orderly		vegetation or stream banks? None
			Relative water level? Base Flow
Dri	illing Activity		General impression of water body, i.e. clear,
	Drill additives in use (list): Yes		turbid, tannic colored, etc.? Clear. No
	Water discharged: Yes		indication of pollution or sedimentation.
	Water recirculation: Yes		Intake structure: Present
	Artesian zone encountered: NA		Structure clear of debris: NA
			Mesh size: not measured
Sui	mp Pit		Submerged: not completely
	Location: near rig (Figure 5)		Pump location to source: > 100 ft
	Discharge trench: yes		Catch basin for fuel supply: Yes
	Dimension pit: not measured		Sorbent Pads Present or Not: Yes
	In use: yes		Hose color: Black

Dr	ill rig no. 6 (8412)	Da	ite.: June 17, 2008
Ac	tivity: Operational		
		Su	mp Pit Cont'd
Co	ndition of Drilling Site		Topsoil, muck, tundra stockpiled: Yes
	Distance from water body: > 100 ft.		Location of secondary sump pit: NA
	Location of fuel storage: On pad.		Hose color: white
	Sorbent Pads Present or Not: Yes		
	Tundra Mat: Yes	Dr	ill Water Supply
	Pipe off Tundra: Yes		Stream/Lake/Pond: Kettle pond (Figure 7)
	Litter: None		Location: nearby
	Trash Containment: Yes		Adequate water flow and depth for fish passage
	Sanitary Facilities: Yes		in streams? NA
	Any spills or staining, or 'none' for that matter:		Evidence of significant impacts to riparian
	None		vegetation or stream banks? none
	General impression of site: Clean.		Relative water level? high
	•		General impression of water body, i.e. clear,
Dri	lling Activity		turbid, tannic colored, etc.? Good, no
	Drill additives in use (list): yes		indication of pollution
	Drill water discharged: Same area as rig no. 6		Intake structure in use: Yes (Figure 8)
	Water recirculation: Yes		Structure clear of debris: Yes.
	Artesian zone encountered: Unknown		Mesh size: not measured
			Submerged: not completely
Sur	np Pit		Pump location to source: > 100 ft
	Location: near pad (Figure 6)		Catch basin for fuel supply: Yes.
	Discharge trench: Yes		Sorbent Pads Present or Not: Yes.
	Dimension pit: not measured		Hose color: Black (insulated)
	In use: Yes		
	Location and extent of discharged material?		
	Depression > a thousand feet from rig and		
	water source.		

Dr	ill rig no. 2 (8415)	Da	te.: June 17, 2008
Ac	tivity: Operational		
		Sur	np Pit Cont'd
Co	ndition of Drilling Site		Topsoil, muck, tundra stockpiled: Yes
	Distance from water body: > 100 ft.		Location of secondary sump pit: NA
	Location of fuel storage: On pad.		Hose color: Black (insulated).
	Sorbent Pads Present or Not: Yes		
	Tundra Mat: Yes	Dri	ll Water Supply
	Pipe off Tundra: Yes		Stream/Lake/Pond: same as rig 6
	Litter: None		Location: nearby
	Spill Indications: None		Adequate water flow and depth for fish passage
	Trash Containment: Yes		in streams? NA
	Sanitary Facilities: Yes		Evidence of significant impacts to riparian
	Any spills or staining, or 'none' for that matter:		vegetation or stream banks? No impact to shore
	None.		observed.
	General impression of site: Clean and orderly.		Relative water level? High
			General impression of water body, i.e. clear,
☐ Drilling Activity			turbid, tannic colored, etc.? Good, no signs of
	Drill additives in use (list): yes	_	pollution
	Drill water discharged: yes	U	Intake structure: present
	Water recirculation: yes		Structure clear of debris: yes
	Artesian zone encountered: Unknown		Mesh size: not measured
			Submerged: Yes.
Sui	mp Pit		Pump location to source: > feet
	Location: near rig		Catch basin for fuel supply: Yes
	Discharge trench: Yes.		Sorbent Pads Present or Not: Yes
	Dimension of pit in use: Not measured.		Hose color: Black (insulated)
	Location and extent of discharged material?		

Drill rig no. 1 (8414; Figure 9)	Date.: June 17, 2008
Activity: Operational	
	Sump Pit Cont'd
Condition of Drilling Site	☐ Topsoil, muck, tundra stockpiled: Yes
\Box Distance from water body: > 100 ft.	☐ Location of secondary sump pit: NA
☐ Location of fuel storage: On pad.	☐ Hose color: Black (insulated).
☐ Sorbent Pads Present or Not: Yes	
☐ Tundra Mat: Yes	Drill Water Supply
☐ Pipe off Tundra: Yes	☐ Stream/Lake/Pond: small unnamed stream
☐ Litter: None	☐ Location: nearby
☐ Spill Indications: None	☐ Adequate water flow and depth for fish passage
☐ Trash Containment: Yes	in streams? Not observed
☐ Sanitary Facilities: Yes	☐ Evidence of significant impacts to riparian
☐ Any spills or staining, or 'none' for that matter:	vegetation or stream banks? No impact to shore
None.	observed.
☐ General impression of site: Clean and orderly.	☐ Relative water level? Not observed
•	☐ General impression of water body, i.e. clear,
Drilling Activity	turbid, tannic colored, etc.? NA
☐ Drill additives in use (list): yes	☐ Intake structure: not observed, rig staff said
☐ Drill water discharged: yes	was present
☐ Water recirculation: yes	Structure clear of debris: NA
☐ Artesian zone encountered: Unknown	☐ Mesh size: NA
	☐ Submerged: NA
Sump Pit	☐ Pump location to source: > 100 feet (Figure 10)
☐ Location: near rig	☐ Catch basin for fuel supply: Yes
☐ Discharge trench: Yes.	☐ Sorbent Pads Present or Not: Yes
Dimension of pit in use: Not measured.	☐ Hose color: Black (insulated)
☐ Location and extent of discharged material?	
Depression away from rig.	

Drill rig no. 3 (8411)	Date.: June 18, 2008
Activity: Operational	
	Sump Pit Cont'd
Condition of Drilling Site	☐ Topsoil, muck, tundra stockpiled: Yes
\Box Distance from water body: > 100 ft.	☐ Location of secondary sump pit: NA
☐ Location of fuel storage: On pad.	☐ Hose color: Black (insulated).
☐ Sorbent Pads Present or Not: Yes	
☐ Tundra Mat: Yes	Drill Water Supply
☐ Pipe off Tundra: Yes	☐ Stream/Lake/Pond: kettle pond (Figure 12)
☐ Litter: None	☐ Location: nearby
☐ Spill Indications: None	☐ Adequate water flow and depth for fish passage
☐ Trash Containment: Yes	in streams? NA
☐ Sanitary Facilities: Yes	☐ Evidence of significant impacts to riparian
☐ Any spills or staining, or 'none' for that matter:	vegetation or stream banks? No impact to shore
None.	observed.
☐ General impression of site: Clean and orderly.	☐ Relative water level? High
	☐ General impression of water body, i.e. clear,
Drilling Activity	turbid, tannic colored, etc.? No indication of
☐ Drill additives in use (list): yes	pollution.
☐ Drill water discharged: yes	☐ Intake structure: present
☐ Water recirculation: yes	☐ Structure clear of debris: yes
☐ Artesian zone encountered: Unknown	☐ Mesh size: not measured
	☐ Submerged: yes
Sump Pit	☐ Pump location to source: > 100 feet
☐ Location: near rig (Figure 11)	☐ Catch basin for fuel supply: Yes
☐ Discharge trench: Yes.	☐ Sorbent Pads Present or Not: Yes
☐ Dimension of pit in use: Not measured.	☐ Hose color: Black (insulated)
☐ Location and extent of discharged material?	
Depression away from rig.	

Depression away from rig.

Dr	ill rig no. 4 (8413; Figure 13)	Da	te.: June 18, 2008
Ac	tivity: Operational		
Co	ndition of Drilling Site	Sui	mp Pit Cont'd
	Distance from water body: > 100 ft.		Topsoil, muck, tundra stockpiled: Yes
	Location of fuel storage: On pad.		Location of secondary sump pit: NA
	Sorbent Pads Present or Not: Yes		Hose color: Black (insulated).
	Tundra Mat: Yes		
	Pipe off Tundra: Yes	Dri	ill Water Supply
	Litter: None		Stream/Lake/Pond: kettle pond
	Spill Indications: None		Location: nearby
	Trash Containment: Yes		Adequate water flow and depth for fish passage
	Sanitary Facilities: Yes		in streams? NA
	Any spills or staining, or 'none' for that matter:		Evidence of significant impacts to riparian
	None.		vegetation or stream banks? No impact to shore
	General impression of site: Clean and orderly.		observed.
			Relative water level? High
Dri	illing Activity		General impression of water body, i.e. clear,
	Drill additives in use (list): yes		turbid, tannic colored, etc.? No indication of
	Drill water discharged: yes		pollution.
	Water recirculation: yes		Intake structure: present
	Artesian zone encountered: Unknown		Structure clear of debris: yes
			Mesh size: not measured
Sui	mp Pit		Submerged: yes
	Location: near rig (Figure 14)		Pump location to source: > 100 feet
	Discharge trench: Yes.		Catch basin for fuel supply: Yes
	Dimension of pit in use: Not measured.		Sorbent Pads Present or Not: Yes
	Location and extent of discharged material?	u	Hose color: Black (insulated)

Abandoned Dri	ll Site No.:	7362 (Figure	15)

Date: June 18, 2008

Ш	Plugged: No
	Cemented: Unknown.
	Standing pipe: No. Wooden stake marked
	the location.
	Sump pit filled in: Yes
	Water discharge trench filled in: Yes.
	Site re-vegetated: No.
	Artesian water present: No.
	Any spills or staining, or 'none': None
	observed.

Comments: Reclamation work had been done at this site. Water appeared to be discharging from the hole (Figure 16). Pebble staff informed us reclamation of this site was ongoing. Future site visits need to follow up and ensure the hole is cemented and plugged.

Abandoned Drill Site No.: 5331 (Figure 17)

Date: June 18, 2007

Plugged: Yes.
Cemented: Unknown.
Standing pipe: No. Wooden stake marked
the location.
Sump pit filled in: Not used. Drilling
water discharge was on tundra (prior to
change in operation that required sump
pit use).
Water discharge trench filled in: Yes.
Site re-vegetated: Yes
Artesian water present: No.
Any spills or staining, or 'none': None
observed.

Comments: Footprint still visible with bare patches present. Pebble staff informed us site reclamation was ongoing.

Abandoned Drill Site No.: 7389 (Figure 18)

Date: June 18, 2008

Plugged: No
Cemented: NA.
Standing pipe: No. Wooden stake marked
the location.
Sump pit filled in: Yes
Water discharge trench filled in: Yes.
Site re-vegetated: No.
Artesian water present: No.
Any spills or staining, or 'none': None
observed.

Comments: Reclamation work had been done at this site. Water appeared to be discharging from the hole. Pebble staff informed us reclamation of this site was ongoing. Future site visits need to follow up and ensure the hole is cemented and plugged.

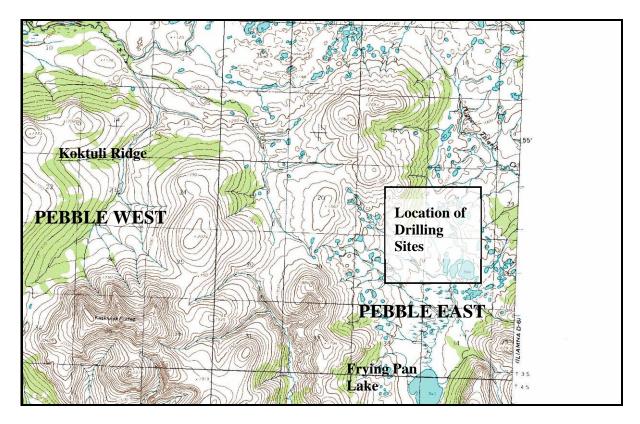


Figure 1. Location map of Pebble Project area and drilling sites.

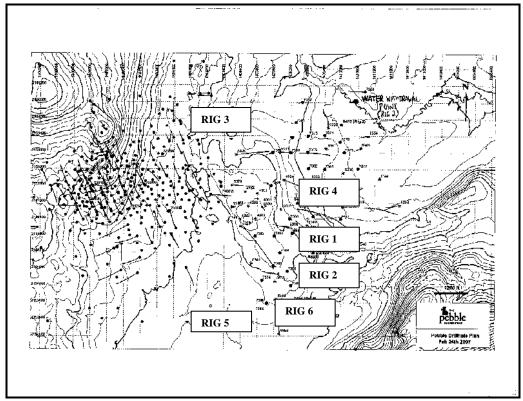


Figure 2. Approximate locations of drilling rigs



Figure 3. Drill rig 8407 (No. 5).



Figure 4. Fuel containment area, drill rig 8407 (No. 5).



Figure 5. Drill water overflow and recycle sump, drill rig 8407 (No. 5).



Figure 6. Drill water overflow and recycle sump, drill rig 8412 (No. 6)



Figure 7. Water recycle sump, drill rig number 5.

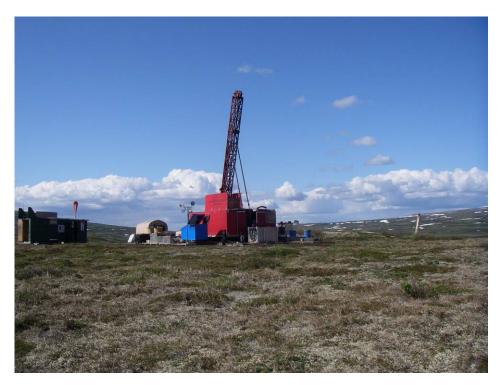


Figure 8. Drill rig 8415 (No. 2)



Figure 9. Drill rig 8414 (No. 1).



Figure 10. Drill rig 8414 (No. 1) water intake pump, generator, and fuel storage.



Figure 11. Overflow and recycle water sumps, drill rig 8411 (No. 3).



Figure 12. Water source, drill rig 8411 (No.3).



Figure 13. Drill rig 8413 (No. 4).



Figure 14. Overflow and recycle sump, drill rig 8413 (No. 4).



Figure 15. Reclamation site 7362.



Figure 16. Water discharge from drill hole, reclamation site 7362.



Figure 17. Reclamation site 5331.



Figure 18. Reclamation site 7389