

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

Personnel:	Inspection Date: June 4, 2009
Jim Vohden	Site Contact: Jeff Norberg
Scott Maclean	APMA #: A096118
Ron Benkert	
<b>■ Inspection Type:</b> <ul style="list-style-type: none"> <li>○ Complete: Drill rig #2, 3 abandoned drill sites, and a monitoring site were visited</li> <li>○ Partial:</li> <li>○ Follow-up:</li> <li>○ Response to Public Complaint:</li> </ul>	<b>■ Wildlife Observed:</b> <ul style="list-style-type: none"> <li>○ Bear: 3 brown bears observed ½ mile north of the deposit.</li> <li>○ Caribou: none observed</li> <li>○ Moose: none observed</li> <li>○ Waterfowl: One swan on Frying Pan Lake.</li> <li>○ Fish: none observed</li> <li>○ Other: One raven near drill rig 2.</li> </ul>
<b>■ Weather Conditions:</b> <ul style="list-style-type: none"> <li>○ Temperature: 40-45 degrees F</li> <li>○ Wind: 35-50 knots</li> <li>○ Precipitation: rain intermittent</li> <li>○ Visibility: 2-5 miles</li> <li>○ Sky Conditions: high overcast</li> <li>○ Ground Conditions: saturated</li> </ul>	<b>■ Water level at Frying Pan Lake:</b> <ul style="list-style-type: none"> <li>○ Observed inflow: high, bank full</li> <li>○ Observed outflow: high, bank full</li> </ul>
<p><b>Comments:</b> One active drill rig was conducting condemnation drilling during this inspection. The site was generally clean and no spills or staining of the ground surface was observed. Secondary containment for the drill fuel supply and spill response materials were in place at the site. The intake structure was screened with a 4 inch diameter by 24 inch long screen with a mesh size of 1 mm by 12 mm. The pump and screen were submerged and there appeared to be adequate water flow and depth for fish passage. All drilling operations appeared to be in compliance with associated water use and withdrawal permits (TWUP A2009-21 and FH 09-II-0079).</p>	
<p><b>Recommendations:</b> Continue to provide staff with updated operations map and inform staff of any new developments or changes in operational plans.</p>	
<p><b>Actions Needed:</b> Remove small amount of litter from vicinity of abandoned drill hole/site # 8430</p>	

<b>Drill Hole/Site No.: 9541</b>	<b>Rig No.: 2</b>
Activity: condemnation drilling	Date: 6/4/09
<ul style="list-style-type: none"> <li>■ Condition of Drilling Site: good</li> </ul>	<ul style="list-style-type: none"> <li>■ Sump Pit (continued):</li> </ul>
<ul style="list-style-type: none"> <li>○ Distance from waterbody: 100 feet</li> </ul>	<ul style="list-style-type: none"> <li>○ Location and extent of discharged material: N/A</li> </ul>
<ul style="list-style-type: none"> <li>○ Location of fuel storage: onsite</li> </ul>	<ul style="list-style-type: none"> <li>○ Topsoil, muck, tundra stockpiled: 2 cubic yards</li> </ul>
<ul style="list-style-type: none"> <li>○ Sorbent pads present: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Location of secondary sump pit: N/A</li> </ul>
<ul style="list-style-type: none"> <li>○ Tundra mat: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Hose color: none</li> </ul>
<ul style="list-style-type: none"> <li>○ Pipe off tundra: yes</li> </ul>	
<ul style="list-style-type: none"> <li>○ Litter: no</li> </ul>	<ul style="list-style-type: none"> <li>■ Drill Water Supply:</li> </ul>
<ul style="list-style-type: none"> <li>○ Trash containment: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Stream, lake, kettle pond: stream</li> </ul>
<ul style="list-style-type: none"> <li>○ Sanitary facilities: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Location: 100 ft. north</li> </ul>
<ul style="list-style-type: none"> <li>○ Any spills or staining: no</li> </ul>	<ul style="list-style-type: none"> <li>○ Adequate water flow and depth for fish passage in streams: yes</li> </ul>
<ul style="list-style-type: none"> <li>○ General impression: good</li> </ul>	<ul style="list-style-type: none"> <li>○ Evidence of significant impacts to riparian vegetation or stream banks: no</li> </ul>
	<ul style="list-style-type: none"> <li>○ Relative water level: high</li> </ul>
<ul style="list-style-type: none"> <li>■ Drilling Activity: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ General impression of water body, i.e. clear, turbid, tannic: clear</li> </ul>
<ul style="list-style-type: none"> <li>○ Drill additives in use: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Intake structure: yes</li> </ul>
<ul style="list-style-type: none"> <li>○ Water recirculation: no</li> </ul>	<ul style="list-style-type: none"> <li>○ Structure clear of debris: yes</li> </ul>
<ul style="list-style-type: none"> <li>○ Water discharged: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Mesh size: 1mm x 12mm</li> </ul>
<ul style="list-style-type: none"> <li>○ Artesian zone encountered: no</li> </ul>	<ul style="list-style-type: none"> <li>○ Submerged: yes</li> </ul>
	<ul style="list-style-type: none"> <li>○ Pump location to source: 100 feet</li> </ul>
<ul style="list-style-type: none"> <li>■ Sump Pit:</li> </ul>	<ul style="list-style-type: none"> <li>○ Catch basin for fuel supply: adjacent</li> </ul>
<ul style="list-style-type: none"> <li>○ Location: 50 feet NE of rig</li> </ul>	<ul style="list-style-type: none"> <li>○ Sorbent pads: yes</li> </ul>
<ul style="list-style-type: none"> <li>○ Discharge trench: yes</li> </ul>	<ul style="list-style-type: none"> <li>○ Hose color: yellow</li> </ul>
<ul style="list-style-type: none"> <li>○ Dimensions of pit: 6' x 6'</li> </ul>	
<ul style="list-style-type: none"> <li>○ In use: yes</li> </ul>	

<b>Abandoned Drill Hole/Site No.: 8430</b>	Date: 6/4/09
<ul style="list-style-type: none"> <li>■ Plugged: unable to determine</li> <li>■ Cemented: unable to determine</li> <li>■ Standing pipe: no</li> <li>■ Sump pit filled in: yes</li> <li>■ Water discharge trench filled in: yes</li> <li>■ Site revegetated: no</li> <li>■ Artesian water present: no</li> <li>■ Any spills or staining: no</li> <li>■ Comments/General impression: Overall the site was in good condition. Drill rig foundation was still in place. Site remediation needs to be completed. Some litter was observed around the site.</li> </ul>	

<b>Abandoned Drill Hole/Site No.: 8415</b>	Date: 6/4/09
■ Plugged: yes	
■ Cemented: yes	
■ Standing pipe: yes	
■ Sump pit filled in: yes	
■ Water discharge trench filled in: yes	
■ Site revegetated: yes	
■ Artesian water present: no	
■ Any spills or staining: no	
■ Comments/General impression: Site abandoned in 2008. Site is in good condition with reclamation complete.	

<b>Abandoned Drill Hole/Site No.: 9450</b>	Date: 6/4/09
<ul style="list-style-type: none"> <li>■ Plugged: unable to determine</li> <li>■ Cemented: no</li> <li>■ Standing pipe: yes</li> <li>■ Sump pit filled in: N/A</li> <li>■ Water discharge trench filled in: yes</li> <li>■ Site revegetated: no</li> <li>■ Artesian water present: no</li> <li>■ Any spills or staining: no</li> <li>■ Comments/General impression: Site recently abandoned and in generally good condition.</li> </ul>	



Drill Rig #2- Drill Hole/Site #9451



Drill Water Supply Site #9451



Sump Pit- Site #9451



Site #8415- Abandoned 2008- Reclamation Complete



Site # 9450- Recently abandoned site- reclamation not yet completed