

INSPECTION REPORT

Alaska Department of Environmental Conservation

Division of Water
410 Willoughby Ave, Juneau, AK 99811

ADEC Inspection Form
Last updated (4/08)

Inspector:
Kenwyn George
907-465-5313

Section A: General Data

Inspection Date	Permit #	Borough	Receiving Waters	Weather	Facility Type
July 7, 2010	AK-005057	N/A	E. Fork Slate Creek	Current Conditions: Fine, temp. Upper 60's.	Tailings Treatment Facility
Discharges to: Surface Water <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/>				ANNOUNCED Inspection	

Section B: Facility Data

Name and Location of Site/ Facility Inspected		Entry Time	Permit Effective Date												
Kensington Lower Slate Lake (LSL) Dam construction and Acid Rock Drainage area adjacent to LSL.	Loc: Lat: 58d 49' 58"N Long: 134d 57' 58"W	12:30	September 1, 2005												
	Source: NPDES permit	Exit Time 17:00	Permit Expiration Date August 31, 2010												
On-Site Representative Clyde Gillespie, Surface Operations Manager, Jeff Stacy, Construction Manager		Additional Participants: USFS: Chad Hood, Dave Barto & Ryan Kriner (Fisheries biologists). ADNR: Charlie Cobb													
Responsible Official(s): Clyde Gillespie, Surface Operations Manager x Contacted		<table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>Samples Taken?</td> <td></td> <td>X</td> </tr> <tr> <td>Photos Taken?</td> <td>X</td> <td></td> </tr> <tr> <td>Analytical Results?</td> <td></td> <td>X</td> </tr> </tbody> </table>			Yes	No	Samples Taken?		X	Photos Taken?	X		Analytical Results?		X
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Samples Taken?		X													
Photos Taken?	X														
Analytical Results?		X													
Phone: 523-3309															

Section C: Findings/Comments

Status of the mine

The mill has been going through start-up successfully; it is now up to full operating capacity but still in start-up mode. Tailings were first discharged to the Tailings Treatment Facility June 19th.

Tailings Treatment Facility

Dam: Installation of the geomembrane on the face of the dam was in process, as was placement of the 6" grout in the grout trench (to be overlain with bentonite and concrete within the trench).

Spillway: The Phase I spillway had been concreted from the top of the dam. The lower horizontal portion and plunge pool were still to be completed.

Sump: Protective concrete walls had been placed outside the 96" ID manhole. A meter was being installed to record the total amount of water pumped from the sump.

Bypass pipe: This had been connected to the Parshall flume and an automatic depth/flow recorder had been installed but was not operational yet. One more pipe will be installed into the head of the flume for the TTF run-on water diversion. Kate Kanouse from ADF&G was at the site to determine impacts to fish passing through the pipeline, flume and discharge into a plunge pool. At the time of the visit no fish had made it down the pipe; she was to return on the 8th to see if any fish had passed through the pipe and into a Fyke net installed in the outlet channel.

Rain-for Rent dewatering treatment units: These have been removed from the site. After a rainfall event with 15mm rain the water rose 2 feet the following week. Since June 19th the water level has risen 2.6 feet.

Water Treatment Plant: construction continues on this; a thickener tank outside the building was being assembled for welding at the time of the visit.

ARD treatment plant: There was very little flow to the sump, despite recent rains. The rate of flow to the treatment plant during the previous 16 hours was 10 gpm.

Tailings pipeline

The pipeline is complete and operational since June 19th. On the day of this visit it was operating at 35-50 tons/hr.

Snowslide Gulch was filled with rock; if the upper side is not leveled with rock this year, then snow will be brought down to fill behind the berm such that excess avalanche snow will be able to go over the top of the berm, road and pipeline. Further along the pipeline, where it is in an earthen fill on the steep hillside and still within the avalanche zone, fill material will be placed on the road to re-create the line of the hillside such that an avalanche will not dislodge the pipeline. There are moisture sensors within the double-walled pipe that will inform the person inspecting the pipeline should the pipeline be damaged.

Proposed construction activities for the following 1-2 weeks:

Continuation with the installation of the geomembrane and concreting the grout trench. Completion of the liner installation is expected by Saturday 10th July.

Completion of the seepage sump flow meter.

Other:

Graphitic Phyllite storage cell:

Graphitic phyllite material was being trucked to the storage cell; there is not a lot more material to be placed at the site. The amount of material within the cell is surveyed at 12,300 cy.

Graphitic phyllite native rock:

Seeps were noted at some locations along the shotcreted embankments where graphitic phyllite had been exposed during construction. The shotcrete was placed to isolate the graphitic phyllite from oxygen, however it would appear the barrier is not totally effective in all locations, and acid seeps have developed. Coeur is looking at ways to prevent oxygen from getting through this barrier.

Storm water

A waterbar between the camp and mill was allowing water to run down the road, rather than transporting it all the way across the road to sedimentation basins. Clyde Gillespie requested Jerry Harmon take care of this issue, and he said he would take care of it.

SAMPLING ACTIVITIES – None conducted.

SUMMARY

Any issues requiring action by Coeur or the state agencies?

1. Correct the malfunctioning water bar noted above.
2. Place a cover over the graphitic phyllite pile once all graphitic material has been located within the cell (except that which is covered in diorite below the dam).
3. A shotcrete expert will be coming to site to provide recommendations to improve the shotcrete on slopes containing sulfide material. Coeur must be diligent in assuring the sulfide material is stabilized where exposed in the slopes created during construction.

Section D: Compliance/Recommendations

ADMINISTRATIVE VIOLATIONS

POTENTIAL WATER QUALITY VIOLATIONS

None.

Section E: Appendices

1: Photographic record.

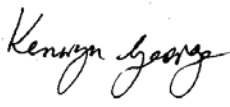
Signature		Signature only acknowledges receipt of this report. Inspection report given to:	
			
07/12/10			
Inspector Division of Water	Date	Company (if applicable):	Date

PHOTO ADDENDUM – KENSINGTON TAILINGS DISPOSAL FACILITY –JANUARY 7, 2010



PHOTO 1. DAM GEOTEXTILE & GROUT PUMP



PHOTO 2. LINER AND GROUT TRENCH



PHOTO 3. STITCHING GEOTEXTILE ON THE DAM FACE



PHOTO 4. CONCRETE LINED SPILLWAY



PHOTO 5. ANCHOR TRENCH AT TOP OF DAM



PHOTO 6. FLOW METER AT DAM SEEPAGE SUMP



PHOTO 7. FYKE NET AT OUTLET OF USL BYPASS PIPE



PHOTO 8. PARSHALL FLUME



PHOTO 9. TTF WATER TREATMENT PLANT



PHOTO 10. PIPELINE – SNOWSLIDE GULCH AREA



PHOTO 11. GENERAL VIEW OF TTF AND DAM



PHOTO 12. SEEPS EMANATING FROM GRAPHITIC PHYLLITE WALL