

APDES INSPECTION REPORT

Alaska Department of Environmental Conservation

Division of Water
410 Willoughby Ave, Juneau, AK 99811

ADEC APDES Inspection
Form Last updated (4/08)

Phone: (907)465-5276
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Section A: General Data

Inspection Date 05/13/2010	Permit # AK-005057 AKR05CA53 (Stormwater)	Borough N/A	Receiving Waters E. Fork Slate creek	Weather Current Conditions: +/- 50 partly cloudy	Facility Type Industrial
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 Project Tailings Treatment Facility		Exit Time	Permit Expiration Date												
On-Site Representative Kevin Eppers/ Coeur Alaska Jeff Stacy/ Coeur Construction		Additional Participants: Kevin Eppers / Coeur Alaska Jeff Stacy / Coeur Construction Chad Hood / USFS Tom Crafford/ ADNR													
Responsible Official(s): Tom Henderson Coeur Alaska 3031 Clinton Drive, Suite 202 Juneau, AK. 99801 Phone: (907)523-3300		<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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Loc: Lat: 58°50'30" N Long: 135°02'45"W Source: NOI/ Google Earth															

Section C: Findings/Comments

FIELD INSPECTION

Chad Hood/ United States Forest Service (USFS), Tom Crafford / Alaska Department of Natural Resources (ADNR), and this inspector arrived at Kensington Mine via USFS chartered Ward Air flight at approximately 09:00 hours on Thursday, May 13, 2010. Upon arrival, Kevin Eppers, Coeur Environmental Superintendent and Jeff Stacy, Coeur Construction Superintendent met regulators and mobilized for inspection.

TTF/ grout curtain

Inspection began at the cofferdam at the Tailings Treatment Facility (TTF). We observed large, portable Rain for Rent units for water treatment at the base of the dam. Following treatment in the Rain for Rent units, water is discharged through a series of two sediment bags. Phase I (of III) of the dam is complete. 100 mm HDPE liner will cover the face of the dam; the HDPE liner will be welded and keyed in via a grout trench. The grout trench is under construction (Photo 1). A spot where ponding occurs is thought to possibly have more fractures than expected. Return pipe which conveys water from the seep collection sump to the TTF was observed (Photo 2). We observed Knight-Piesold personnel conducting drilling and grouting operations (Photo 3). According to Mr. Stacy, two holes recently filled accepted 18,000 gallons of grout to fill fractures. Following a 24-hour curing period, core samples are collected and analyzed to determine whether grouting was successful. Holes are then pressure tested with water. We viewed the TTF grouting operation from the Parshall flume (Photos 4 and 5).

Parshall flume

The Parshall flume (Photos 6 and 7) leads to a bypass plunge pool. A hydraulic hammer was chipping rock for the spillway on the west embankment (Photo 8).

We drove down near the discharge location and observed a large sediment bag that filters water prior to release. Mr. Eppers pointed out sample location # 5, adjacent to a flagged tree and downstream of the discharge (Photo 8). February and March data analysis from sample site # 5 indicated high metals values (manganese, cadmium, and aluminum). Blackish material on the ledge face above the run-down liner is graphitic phyllite (Photo 11), which will be removed, then capped. The dam seepage sump (Photo 12) was observed prior to leaving the area.

ARD Water Treatment Plant:

Water was not present in the sump (Photo 13). The liner has not been modified recently. The ARD site water treatment plant

(ARD WTP) was operating at 10.0 gallons per minute at time of inspection. The ARD WTP uses a clarifier, flocculents, and filter bags. Effluent from ARD WTP is discharged to land (land application).

TTF Water Treatment Plant:

The TTF Water Treatment Plant is under construction (Photo 14).

SUMMARY

Construction activities appear to be relatively on schedule.

Section D: Compliance/Recommendations

ADMINISTRATIVE VIOLATIONS

- 1. None noted

POTENTIAL WATER QUALITY VIOLATIONS

- 1. None noted

Section E: Appendices

- 1. Photographic record

Harold Carpenter 5/19/10
Inspector Date
Division of Water/Water Quality Compliance

Signature only acknowledges receipt of this report. Inspection report given to:

Company (if applicable):

Date

PHOTO ADDENDUM -

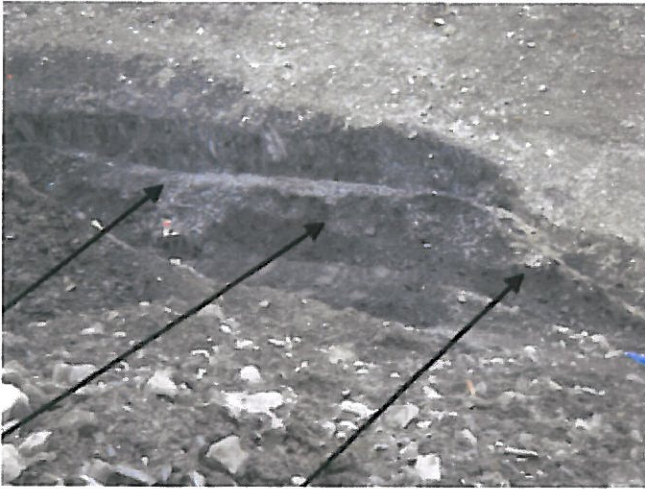


PHOTO 1: TRENCH WILL KEY-IN 100 MM HDPE LINER



PHOTO 2: BLACK PIPE CONVEYS WATER FROM SEEP COLLECTION SYSTEM TO LOWER SLATE LAKE (TTF).



PHOTO 3: KNIGHT-PIESOLD PERSONNEL EXPLAIN GROUTING OPERATION TO MR. TOM CRAFFORD/ADNR



PHOTO 4: VIEW OF TRENCH FROM FLUME. NOTE LOW SPOT ON WEST SIDE OF TRENCH.



PHOTO 5: COFFERDAM AT TTF FROM FLUME.



PHOTO 6: PARSHALL FLUME WILL CARRY DIVERTED FLOW

PHOTO ADDENDUM -



PHOTO 7: BYPASS PARSHALL FLUME OUTLET CHAMBER



PHOTO 8: HYDRAULIC HAMMER CHIPS (LEFT ARROW) SPILLWAY; LARGE BLACK PIPE IS BYPASS PIPE COMING FROM FROM PARSHALL FLUME



PHOTO 9: SEDIMENT BAG FILTERS WATER PRIOR TO DISCHARGE (UPSTREAM OF SAMPLE LOCATION # 5)



PHOTO 10: SAMPLE LOCATION # 5 IS ADJACENT TO TREE WITH FLAG (AT TERMINUS OF ARROW)



PHOTO 11: BLACKISH MATERIAL ON FACE ABOVE LINER IS GRAPHITIC PHYLLITE WHICH WILL BE REMOVED, THEN CAPPED



PHOTO 12: SEEP COLLECTION SYSTEM

PHOTO ADDENDUM -



PHOTO 13: ARD SEEPAGE COLLECTION SUMP WAS EMPTY



PHOTO 14: TTF WATER TREATMENT PLANT. FOUNDATION FOR CLARIFIER IN FOREGROUND



PHOTO 15: TTF WATER TREATMENT PLANT UNDER CONSTRUCTION



PHOTO 16: SITE OF AVALANCHE ALONG PIPELINE ROAD