

# STATE OF ALASKA

SEAN PARNELL, GOVERNOR

## DEPT. OF ENVIRONMENTAL CONSERVATION

### DIVISION OF WATER

#### Wastewater Discharge Authorization Program

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<http://www.state.ak.us/dec/>

May 5, 2010

**Certified Mail 7008-1830-0003-5208-2076**

Mr. Timothy D. Arnold  
Coeur Alaska, Inc.  
3031 Clinton Dr., Suite 202  
Juneau, AK 99801-7106

Subject: Lynn Canal Coeur Mine  
Reference No. POA-1990-592-M6

Dear Mr. Arnold:

In accordance with Section 401 of the Federal Clean Water Act of 1977 and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation (DEC) is issuing the enclosed Certificate of Reasonable Assurance to extend the 401 certificate issued on May 6, 2005 for the proposed development of a new mine facilities and associated infrastructure approximately 45 miles north of Juneau, Alaska.

The 401 certificate issued by DEC on May 6, 2005 was for the project described in U.S. Army Corps of Engineers (Corps) Public Notice of Application for Permit reference number POA-1990-592-M and had an expiration date of May 5, 2010. The 401 certificate served two purposes: first, as a 401 Certificate of Reasonable Assurance for the U.S Army Corps of Engineers Section 404 permit, and second, served as the DEC Waste Management Permit for the facility. With this extension of the 401 certificate DEC is separating the 401 certificate for the 404 permit from the State of Alaska Waste Management Permit.

On July 17, 2009, the Corps issued a Public Notice (POA-1990-592-M6) for the project originally permitted under reference number POA-1990-592-M. The applicant's stated purpose in the public notice is to extend the time limit for the Corps permit modification. In addition, the modification would correct minor discrepancies to the previously authorized permit and plans, resulting in an overall reduction in jurisdictional impacts. For a detailed description see the Public Notice, POA-1990-592-M6. The permit modification extended the

time limit for the completion of the authorized work to July 31, 2014. At the completion of the public notice period on August 3, 2009, the Corps developed and issued the permit modification using DEC's 401 certificate issued on May 6, 2005, and the Corps did not require a new 401 certificate from DEC. Now that the 401 certificate issued on May 6, 2005, is expiring, DEC is issuing an extension of its 401 certificate based on the public notice POA-1990-592-M6.

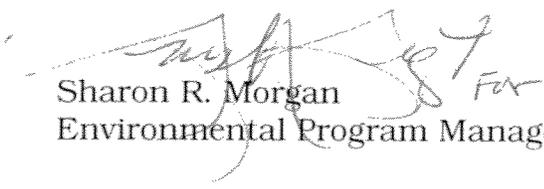
Coeur Alaska, Inc. submitted an application for a new Waste Management Permit to DEC on April 2, 2010. On April 28, 2010, DEC informed Coeur Alaska, Inc. that their application was considered administratively complete and was approved for an administrative extension of the Waste Management Permit. DEC expects to issue the new Waste Management Permit in early 2011.

Coeur Alaska, Inc. shall continue to provide proof of financial responsibility in an amount and in form(s) acceptable to DEC, in accordance with AS 46.03.100(f) and 18 AAC 60.265. If the financial assurances provided to other state and federal agencies are not sufficient to satisfy DEC requirements, Coeur Alaska, Inc. will provide any additional financial assurances determined by DEC to be necessary.

Department of Environmental Conservation (DEC) regulations provide that any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director, Division of Water, 555 Cordova St., Anchorage, AK 99501, within 15 days of the permit decision. Visit <http://www.dec.state.ak.us/commish/ReviewGuidance.htm> for information on Administrative Appeals of Department decisions. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, PO Box 111800, Juneau, AK 99811-1800, within 30 days of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

By copy of this letter we are advising the Corps of Engineers and Division of Coastal and Oceans Management of our actions and enclosing a copy of the certification for their use.

Sincerely,

  
Sharon R. Morgan  
Environmental Program Manager

Enclosure

cc: (with encl.)

William Ashton, DEC

Allan Nakanishi, DEC

Kenwyn George, DEC

Tom Crafford, DNR

Carrie Bohan, DNR

Richard Jackson, USCOE

Reinhard W. Koenig, USCOE

Cindi Godsey, EPA

Clyde Gillespie, Coeur Alaska

Luke Russell, Coeur Alaska

Rick Richins, RTR Resource Management, Inc.

**STATE OF ALASKA**  
**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**CERTIFICATE OF REASONABLE ASSURANCE**

A Certificate of Reasonable Assurance, in accordance with Section 401 of the Federal Clean Water Act and the Alaska Water Quality Standards, is issued to Coeur Alaska, Inc., 3031 Clinton Drive, Suite 202, Juneau, AK 99801-7106 to develop a mine, related facilities, and associate infrastructure. This Certificate of Reasonable Assurance is to extend the time limit concurrent with the U.S. Army Corps of Engineers (Corps) permit modification POA-1990-592-M. Additional modifications for this project are described in the Corps Public Notice of Application for Permit issued July 17, 2009, reference number POA-1990-592-M6. Modifications described in M6 are to correct minor discrepancies to the previously authorized permit and plans, resulting in an overall reduction in jurisdictional impacts; for a detailed description see the July 17, 2009 Public Notice. A total of 83.4 acres of fill was authorized under the Corps permit modification POA-1990-592-M, and as of December 2008, 45.2 acres of waters of the U.S. had been filled. The overall impact to waters of the U.S. as a result of the modification M6, would be a net reduction of 3.1 acres of similar palustrine habitat as previously authorized. See Table 1 of the Corps Public Notice that summarizes the overall changes in project impact.

Mitigation measures were evaluated and required as an integral part of the Corps permit modification POA-1990-592-M. Since the changes proposed in modification M6 would result in an overall reduction of impacts to waters of the U.S., no additional mitigation measures are proposed.

The proposed activity is located within Section 1, T. 36 S., R. 62 E., and sections 4, 5, 6, 10, 14, 15, 23, 24, 25, and 36, T 35 S., R. 62 E., Copper River Meridian approximately 45 miles north of Juneau, Alaska.

Public notice of the application for this certification was given as required by 18 AAC 15.180.

Water Quality Certification is required under Section 401 because the proposed activity will be authorized by a Corps of Engineers permit, reference number POA-1990-592-M6, and a discharge may result from the proposed activity.

Having reviewed the application and comments received in response to the public notice, the Alaska Department of Environmental Conservation (DEC) certifies that there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the Clean Water Act and the Alaska Water Quality Standards, 18 AAC 70, provided that the following alternative measures are adhered to.

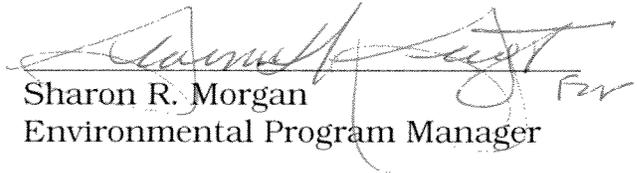
1. Reasonable precautions and controls must be used to prevent incidental and accidental discharge of petroleum products or other hazardous substances. Fuel storage and handling activities for equipment must be sited and conducted so there is no petroleum contamination of the ground, surface runoff or water bodies.
2. During construction and operation of the mine spill response equipment and supplies, such as sorbent pads, shall be available and used immediately to contain and cleanup oil, fuel, hydraulic fluid, antifreeze or other pollutant spills. For any spill amount, there are Discharge Notification and Reporting Requirements (AS 46.03.755 and 18 AAC 75 Article 3). Most importantly, contact by phone the DEC Area Response Team for Southeast Alaska, (907) 465-5340 during work hours or 1-800-478-9300 after hours. Also contact by phone the National Response Center at 1-800-424-8802. Report all spills.
3. The permittee shall submit mine operations, water quality monitoring, and closure plans to DEC for its approval before introducing any discharge into the Tailings Disposal Facility and shall secure DEC approval for any modifications to the approved plans.
4. During construction of the tailings dam the construction area shall be isolated from the flowing waters. Techniques such as stream diversion, dam and pump, or stream fluming shall be incorporated into the construction activity to insure that silt laden water resulting from construction activities is not carried downstream and to marine waters.
5. All soil disturbing construction operations that would increase turbidity of surface waters to levels that would violate Alaska Water Quality Standards shall be temporarily suspended if on-site monitoring demonstrates violations of the standards.
6. For culverts which carry waters that are discharging or will discharge into fish-bearing fresh waters or marine waters, installation shall not occur within the flowing waters of the stream/drainage. Culvert installation techniques such as stream diversion, dam and pump, or stream fluming shall be incorporated into the installation activity to insure that silt laden water is not carried into sensitive fish habitat. DNR or ADF&G habitat permits shall address the Anadromous fish-bearing streams.

7. Any disturbance in the stream banks or streambed areas shall be stabilized to prevent erosion and resultant sedimentation of the water body during and after operations. Any disturbed areas shall be re-contoured and revegetated as soon as practicable.
8. The wooden portions of the terminal docking shall not be treated with a preservative containing pentachlorophenol and if treated with creosote, the creosote shall be applied via pressure treatment that inhibits leaching at a rate that causes a sheen to form on the water.
9. The mine tailings shall be tested on a quarterly basis, in accordance with a monitoring plan approved by DEC, to insure there are no significant deviations from the original tailings analysis which may affect monitoring, closure requirements, water quality, or any other permit condition. Constituent levels that shall be measured include, but are not limited to: aluminum, ammonia, arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, nitrate, pH, selenium, silver, sulfate, total dissolved solids (TDS), zinc, meteoric water mobility, and acid base accounting. These analyses shall be included in the annual report to the U.S. Forest Service for all agencies to review.
10. All surface runoff from areas disturbed during the stripping of overburden or moving of existing overburden piles shall be diverted to existing mine cuts or stabilized areas, such as settling ponds, using berms, diversion channels, or brush barriers. Surface runoff containing sediment from disturbed areas shall not be discharged without treatment into any water body. All soil disturbing construction operations that would increase turbidity of surface waters to levels that would violate Alaska Water Quality Standards shall be temporarily suspended if on-site monitoring demonstrates said violations.
11. Organic overburden soil and topsoil stockpiles shall be stabilized as soon as practicable after placement to minimize erosion, sediment runoff or dust generation.
12. Construction of any infiltration gallery shall be isolated from the flowing waters of the stream.
13. Intertidal fill placed for the marine terminal shall be free of organic material. Fill shall be placed during low tide in those intertidal areas which are dry during low tide.
14. The appropriate water quality protection Best Management Practices shall be utilized during the proposed timber harvest around Lower Slate Lake to protect the waters of the lake, stream, and ocean.

15. Construction of any bridge abutments shall be isolated from the flowing waters of the stream.
16. Capping of the tailings, addition of organics, or other state approved mitigation measures will be required at or after mine closure if water quality criteria are not met in the impoundment, or if the tailings do not successfully re-colonize as determined by the state.

This certification expires on July 31, 2014. If your project is not completed by then and work under Corps of Engineers Permit will continue, you must submit an application for renewal of this certification no later than 30 days before the expiration date (18 AAC 15.100).

Date 5/5/2010

  
Sharon R. Morgan  
Environmental Program Manager



US Army Corps  
of Engineers  
Alaska District

# Public Notice of Application for Permit

Regulatory Division (1145)  
CEPOA-RD  
Post Office Box 6898  
Elmendorf AFB, Alaska 99506-0898

**PUBLIC NOTICE DATE:** JULY 17, 2009  
**EXPIRATION DATE:** AUGUST 3, 2009  
**REFERENCE NUMBER:** POA-1990-592-M6  
**WATERWAY:** LYNN CANAL

Interested parties are hereby notified that a Department of the Army (DA) permit modification request has been received for work in waters of the United States (U.S.) as described below and shown on the enclosed project drawings.

Comments on the proposal, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Mr. Richard Jackson at (907) 753-5646, toll free from within Alaska at (800) 478-2712, by fax at (907) 753-5567, or by email at Richard.G.Jackson@usace.army.mil if further information is desired concerning this notice.

APPLICANT: Coeur Alaska, Incorporated, 3031 Clinton Drive, Suite 202, Juneau, Alaska 99801-7106

LOCATION: The project site is located within Section 1, T. 36 S., R. 62 E., and Sections 4, 5, 6, 10, 14, 15, 23, 24, 25, and 36, T 35 S. R. 62 E., Copper River Meridian; USGS Quadrangle Map Juneau D-4; Latitude 58.7822° N., Longitude 135.0100° W.; 45 miles north of Juneau, Alaska.

PURPOSE: The applicant's stated purpose is to extend the time limit of DA permit modification POA-1990-592-M. In addition, this modification would correct minor discrepancies to the previously authorized permit and plans, resulting in an overall reduction in jurisdictional impacts. For a detailed description see the enclosed Attachment 1, 2 pages, dated April 10, 2009.

COMPLETED AND PROPOSED WORK: This permit modification would extend the time limit for completion of the authorized work to July 31, 2014. In addition, this permit modification references information and drawings contained in permit modification POA-1990-592-M, issued on June 17, 2005, which can be viewed at <http://www.poa.usace.army.mil/reg/PNNNew.htm>.

The following table represents the proposed modifications and/or clarifications to the plans authorized in DA permit modification POA-1990-592-M:

Current Permit (POA-1992-592-M)	Original Date	Proposed Modification (POA-1992-592-M6)	Modified Date
Tables 1 and 2	Undated	Table 1, 2 sheets	June 8, 2009
Sheet 1	April 2005	Sheet 1	June 8, 2009
Sheets 2-4, 8, 12	April 2005	DELETED	DELETED
Sheet 5	April 2005	Sheet 2	June 8, 2009
Sheet 5E	April 2005	Sheet 3	June 8, 2009
Sheet 5D	April 2005	Sheet 4	June 8, 2009
Sheet 5C	April 2005	Sheets 5 and 6A	June 8, 2009
Sheet 5B	April 2005	Sheet 7A	June 8, 2009
Sheet 5A*	April 2005	Sheet 10	June 8, 2009
NEW SHEETS	NEW SHEETS	8, 9A, 11, and 12	June 8, 2009

Note: Sheets 4 and 11, dated June 8, 2009, depict some of the same areas as depicted in Sheets 13 and 14, dated April 2005. \*In addition, Sheet 5A, dated April 2005, was retained for purposes of depicting the activities authorized under Section 10 of the Rivers and Harbors Act, while Sheet 10, dated June 8, 2009, clarifies the activities authorized under Section 404 of the Clean Water Act in the same area. Sheets 6, 7, 8A, 8B, 9, 10\*\*, 11, 13, and 14, of DA permit modification POA-1990-592-M, dated April 2005, remain unchanged. (\*\*Sheet 10 was modified May 2009 to remove a U.S. waters correlation that did not match corrected wetland delineation data, however, the overall drawing remained the same.)

As further explained in Attachment 1, these plan changes reflect: wetland mapping updates and corrections; minor variations from construction activities authorized under the initial permit; subsequent modifications; and other on site construction requirements. Specifically, the changes include the following:

1. Accounting for a topsoil stockpile within a wetland along the Jualin Access Road created as a part of the 2005 construction activities (Table 1, Area 31);
2. Proposed placement of an avalanche protection structure and access road (Table 1, Area 8(A)); and,
3. Proposed placement of a topsoil stockpile in the tailings area (Table 1, Area 36).

ADDITIONAL INFORMATION: A total of 83.4 acres of fill was authorized under DA permit modification POA-1990-592-M, and as of December 2008, 45.2 acres of waters of the U.S. had been filled. The overall impact to waters of the U.S. as a result of this modification would be a net reduction of 3.1 acres of similar palustrine habitat as previously authorized. See Table 1 (2 sheets), which summarizes the overall changes in project impact.

MITIGATION: Mitigation measures were evaluated and required as an integral part of DA permit modification POA-1990-592-M. Since the changes proposed in this modification request would result in an overall reduction of impacts to waters of the U.S., no additional mitigation measures were proposed.

WATER QUALITY CERTIFICATION: The Alaska Department of Environmental Conservation issued a water quality certification on May 6, 2005, and is in effect until May 5, 2010.

COASTAL ZONE MANAGEMENT ACT CERTIFICATION: Applicant supplied information contained in this proposed permit modification was reviewed by the Division of Coastal and Ocean Management, Department of Natural Resources, who found

that the project was consistent with the Alaska Coastal Management Program (State I.D. No. 2009-0617J) per their July 6, 2009, correspondence.

CULTURAL RESOURCES: Potential impacts to cultural resources were evaluated during the issuance of DA permit modification POA-1990-592-M. This proposal is within the scope of the original evaluation and no additional changes to any cultural resources are anticipated. This public notice is being coordinated with the State Historic Preservation Office.

ENDANGERED SPECIES: Potential impacts to endangered species were evaluated during the issuance of DA permit modification POA-1990-592-M. This proposal is within the scope of the original evaluation and no changes in endangered species impacts are anticipated. This public notice is being coordinated with the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS).

ESSENTIAL FISH HABITAT: Potential impacts to essential fish habitat (EFH) were evaluated during the issuance of DA permit modification POA-1990-592-M. This proposal is within the scope of that permit evaluation and no change in EFH impacts are anticipated. This public notice is being coordinated with NMFS.

TRIBAL CONSULTATION: The Alaska District fully supports tribal self-governance and government-to-government relations between Federally recognized Tribes and the Federal government. Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Commander during the public comment period.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

EVALUATION: The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to modify the permit as described above.

This evaluation will be based on the factors below and will rely on the revised record of decision dated March 29, 2006 for DA permit modification POA-1990-592-M to the greatest extent possible.

The decision whether to modify the permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The outcome of the general balancing process would determine whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur. The decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof.

Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit modification will be denied if the discharge that would be authorized by such permit modification would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit modification will be granted unless the District Commander determines that it would be contrary to the public interest.

AUTHORITY: This permit modification will be issued or denied under the following authorities:

(X) Perform work in or affecting navigable waters of the United States - Section 10 Rivers and Harbors Act 1899 (33 U.S.C. 403).

(X) Discharge dredged or fill material into waters of the United States - Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

Project drawings, an attachment, and a table are enclosed with this Public Notice.

District Commander  
U.S. Army, Corps of Engineers

Enclosures

Table 1 Kensington Gold Project – Permit Modification POA-1990-592-M6 – Facility Acres

Area	Description	Status 2008	Permitted Acres of Fill in Waters of the U.S. per 2005 Permit Table 1	Actual Waters Filled as of December 2008	Requested Acres of Total Fill in Waters of the U.S. 2008 update	Fill Volume (Cubic Yards)	Difference Between 2005 Permit and Updated 2008	Acres to be Reclaimed as Wetlands or Waters
1	Kensington Comet Beach Camp	Existing / Permitted	0	0	0	0	0	NA
2	Kensington Access Road	Existing / Permitted	0.9	0	0	0	-0.9	NA
3	Kensington Borrow Pit #1	Not built	0.3	0	0	0	-0.3	NA
4	Kensington Development Rock Stockpile Expansion	Existing / Permitted	5.1	1.1	4.5	220,000	-0.6	8
5	Kensington Water Treatment Plant & Ponds and Expansion Area	Existing / Permitted	2.6	2.6	3.5	85,000	+0.9	3.5
6	Kensington Snow / Topsoil Stockpile	Existing / Permitted	2.1	0	2.1	10,000	0	2.1
7	Kensington 2050 Level Portal Dev. Rock Storage	Existing / Permitted	0	0	0	0	0	0
8	Jualin Process Area	Built	1.1	2.0	2.0	97,000	+0.9	NA
8A	Jualin Avalanche Berms & Road	Not built		0	0.3	23,000	+0.3	NA
9/9A	Jualin Development Rock Storage	Mostly Built	4.3	2.0	2.5	121,000	-1.8	1.7
10	Jualin Storm Water Treatment Pond	Built	0	0.1	0.1	1,500	+0.1	NA
11	Jualin Process Area Snow/Topsoil Stockpile	Built	0	0.2	0.2	3,000	+0.2	0.6
12	Jualin Pumphouse	Built	0.1	0.1	0.1	1,500	0	NA
13	Jualin Access Road	Existing / Built	8.2	7.7	7.7	37,000	-0.5	0.6
14	Jualin Laydown #1	Built	0.4	0	0	0	-0.4	NA
15	Jualin Laydown #2	Built	3.5	0	0	0	-3.5	NA
16	Jualin Laydown #3	Built	0.8	0	0	0	-0.8	NA
17	Jualin Admin. Area	Built	2.5	0.1	0.1	1,500	-2.4	2.5
18	Jualin Borrow Source #1	Built	0	0	0	0	0	0.2
19	Jualin Borrow Source #2	Built	0.1	1.1	1.1	10,500	+1.0	
20	Jualin Borrow Source #3	Built	2.4	1.2	1.2	11,500	-1.2	6.0
21	Jualin Borrow Source #4	Not built	0.7	0	0	0	-0.7	NA

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 JUNE 8, 2009  
 TABLE 1, PAGE 2

Area	Description	Status 2008	Permitted Acres of Fill in Waters of the U.S. per 2005 Permit Table 1	Actual Waters of U.S. Acres Filled as of December 2008	Requested Acres of Total Fill in Waters of the U.S. 2008 update	Fill Volume (Cubic Yards)	Difference Between 2005 Permit and Updated 2008	Acres to be Reclaimed as Wetlands or Waters
22	LSL Tailings Pipeline & Access Road (Upper)	Partially built	4.7	0	4.3	41,500	-0.4	4.3
23	LSL Tailings Facility Access Road (Lower)	Mostly built	0.3	1.3	1.4	13,500	+1.1	2.8
24	LSL Tailings Lake (tailings as fill)	Not built	23.5	0	23.5	3,920,000	0	(23.5)
25	LSL Tailings Lake Margin Working Area	Partially occupied	8.5	10.9	10.9	500	+2.4	8.7 (38.5)
26	LSL Tailings Dam Borrow Source	Partially built	0.3	0.3	0.3	3,000	0	0
27	LSL Tailings Pipeline Road (Mill to Snowslide Gulch)	Partially built	3.0	0.2	0.4	3,500	-2.6	2.2
28	LSL Tailings Dam & Plunge Pool Area	Partially built	5.9	6.1	6.1	236,000	+0.2	2.4
29	Slate Creek Cove Marine Terminal	Built	1.9	0.5	0.5	12,000	-1.4	3.2
30	Slate Creek Cove Snow/Stockpile Area	Built	0.2	0	0	0	-0.2	0.5
31	Jualin Topsoil Stockpile	Built		6.8	6.8	300,000	+6.8	6.8
32	Jualin Borrow Source #6	Partially built		0.1	0.1	1,500	+0.1	0
33	Jualin Borrow Source #7	Built		0.8	0		0	NA
34	Jualin Reclamation Material Area	Built	0	0	0	0	0	0
36	LSL Tailings Area Topsoil Stockpile	Not built		0	0.6	14,500	+0.6	0.6
	<b>TOTALS</b>		<b>83.4</b>	<b>45.2</b>	<b>80.3</b>	<b>5,168,500</b>	<b>-3.1</b>	<b>110.0</b>

Reasons for changes in Acreage of Wetland Impacts  
Kensington Gold Project – Permit # POA 1990-592-M6

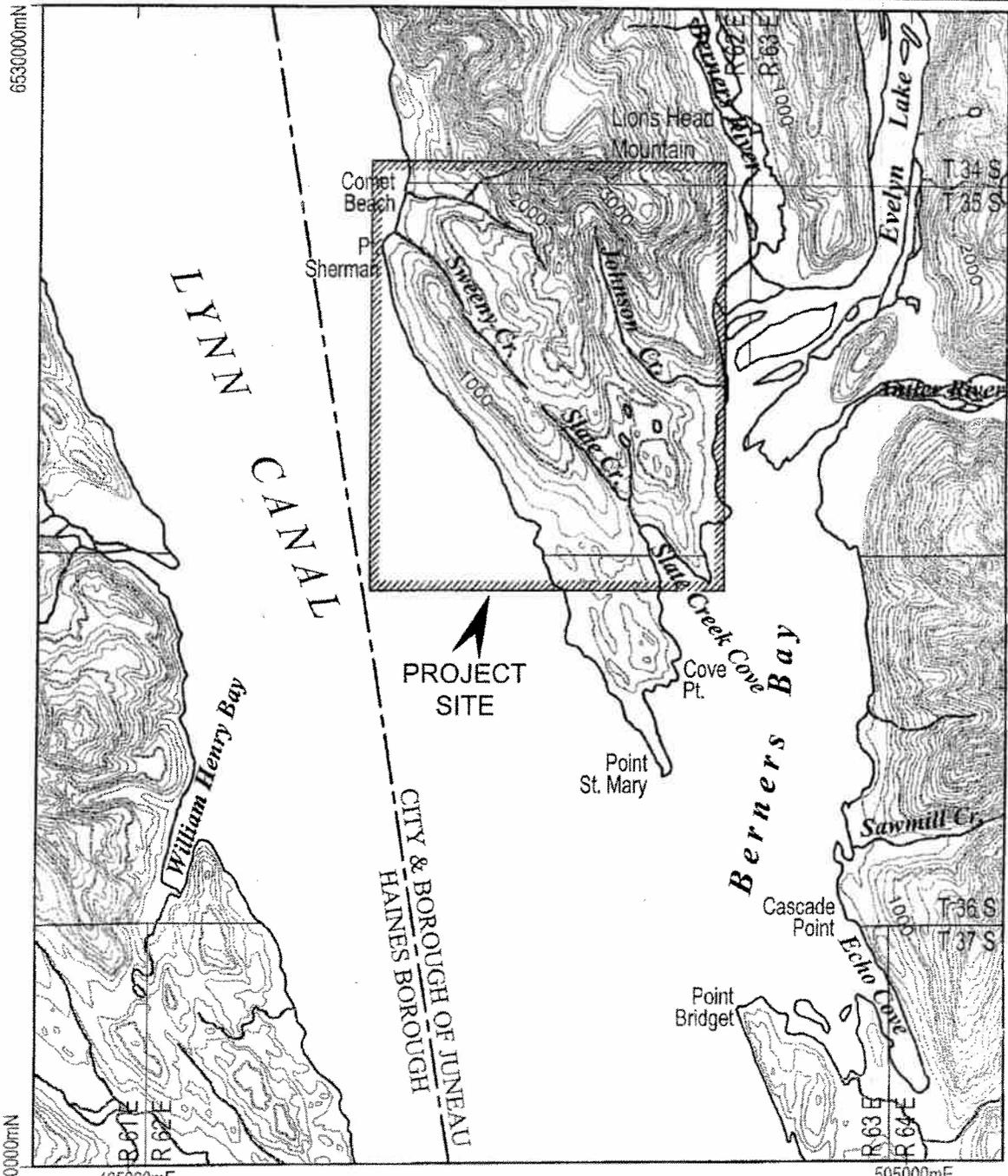
There are two primary reasons and some additional minor reasons why wetland impact acres, on a parcel-by-parcel or facility-by-facility basis, are different than described in the 2005 permit. The primary reasons are: 1) a new wetland delineation on the Kensington side of the project area that showed less area to be wetland, and 2) the discovery of a mapping error on the Jualin side of the project area. The Jualin mapping error apparently resulted from translating a file from GIS to Autocad, resulting in some upland area being shown as wetland and showing upland/wetland mosaic areas as upland. Minor changes resulted from the actual construction conditions on the ground differing from planned leading to small changes from the permitted acres such that less wetland was filled in some areas and more in other areas. Other minor changes resulted from better distinguishing between wetland fill, subject to the 404 permit, and wetland excavation or clearing that are recognized as wetland impacts, but are not treated as fill in the permit. A slight overall net reduction in wetland fill is the end result of changes due to all of these reasons.

On the Kensington side, the permitted modification to the access road and the Kensington Borrow Pit #1 were not needed (0.9 and 0.3 acre of permitted wetland fill respectively). The redelineation of wetlands changed some areas previously recognized as wetland to upland. As a result, the Development Rock Stockpile has filled only 1.1 acres of wetland to date, and will fill only 4.5 acres at full development instead of 5.1 acres. To date, the water treatment plant and ponds have filled the permitted 2.6 acres of wetland, but needed modifications will fill an additional 0.9 acre of wetland. The Kensington Snow/Topsoil stockpile area has been used to store snow, but has not yet been used for topsoil, but will need to be, and the 2.1 acres permitted for this use will be needed. Therefore, instead of the 11 acres permitted for the Kensington facilities, only 10.1 acres need to be carried forward in the permit.

On the Jualin side, there are facility areas where the wetland impact area is smaller because the impact area was erroneously interpreted as wetland, but is actually upland. This includes the Jualin Development Rock Storage Area, Jualin Access Road, Jualin Pit #3, Jualin Laydown Areas #1, 2, and 3, the Jualin Administrative Area, the Tailings Pipeline Road from the mill to Snowslide Gulch, the Slate Creek Cove Marine Terminal, and the Slate Creek Cove Snow/Topsoil Stockpile Area. There are also facility areas where the wetland impact area is larger because the area previously interpreted as upland is actually upland/wetland mosaic with 25 percent of it being wetland. Those areas include the Jualin Process Area, Jualin Storm Water Treatment Pond, Jualin Process Area Snow/Topsoil Stockpile Area, Jualin Pit source #1, the Lower Slate Lake (LSL) Upper Tailings Pipeline and Access Road, the LSL Lower Tailings Facility Access Road, the LSL Tailings Lake Margin Working Area, the LSL Tailings Dam Borrow Source, and the LSL Tailings Dam and Plunge Pool Area. Since the Jualin Pit #3 is located in uplands and the acres of fill permitted for this facility were not used, a nearby (across the road) topsoil storage area was needed that was 6.8 acres in size, all in wetland. Jualin Pit #4 was not needed and none of the 0.7 acre fill was done there. A total of 14.5 acres of wetland impact is in cut (or excavation) areas rather than fill areas.

Two other areas on the Jualin side have no change, but bear some explanation. The Jualin Reclamation Material Area (parcel #34) was originally understood to be in upland and is still

understood to be in upland. Therefore, no CWA Section 404 permit acreage changes. At one time there was a Western Interceptor Ditch proposed (parcel #35) that would have affected wetlands. It is not currently in the plans.



COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 1

**Site Vicinity**

**Applicant:** Couer Alaska, Inc.  
**Permit No:**

**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska

**Adjacent Property Owners:**  
 1. U.S. Forest Service

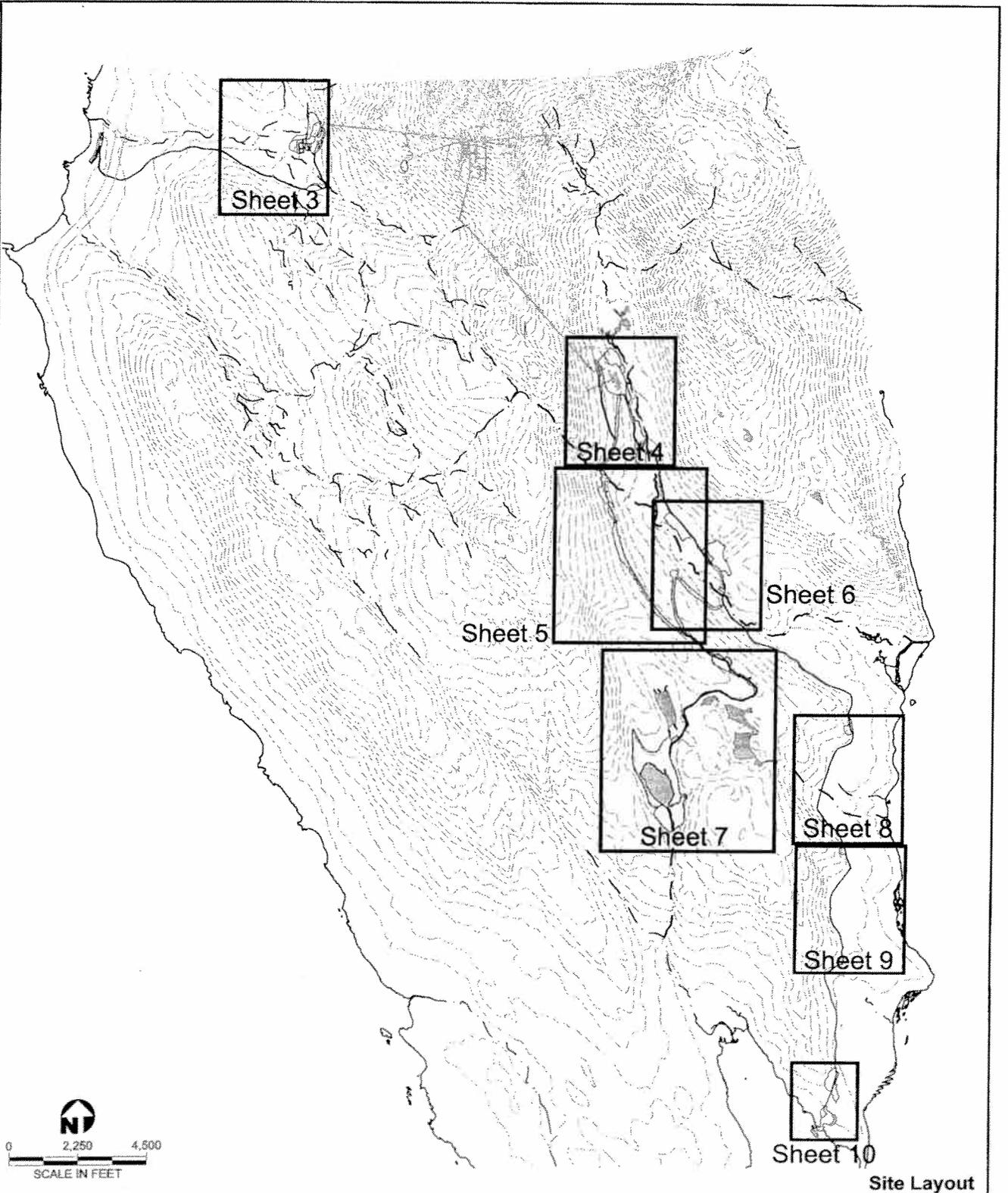
**Proposed:** Kensington Gold Project

**Purpose:** Construction of mining related facilities and appurtenances

**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska

**Date:** May 2009

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 2



Site Layout

T:\Misc-Jobs\Coeur Alaska\JARRP\ASheet 2 Site.dwg  
 Mod: 05/20/2009, 11:09 | Plotted: 05/20/2009, 13:01 | chad\_stickel

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**

**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska

**Adjacent Property Owners:**  
 1. U.S. Forest Service

**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

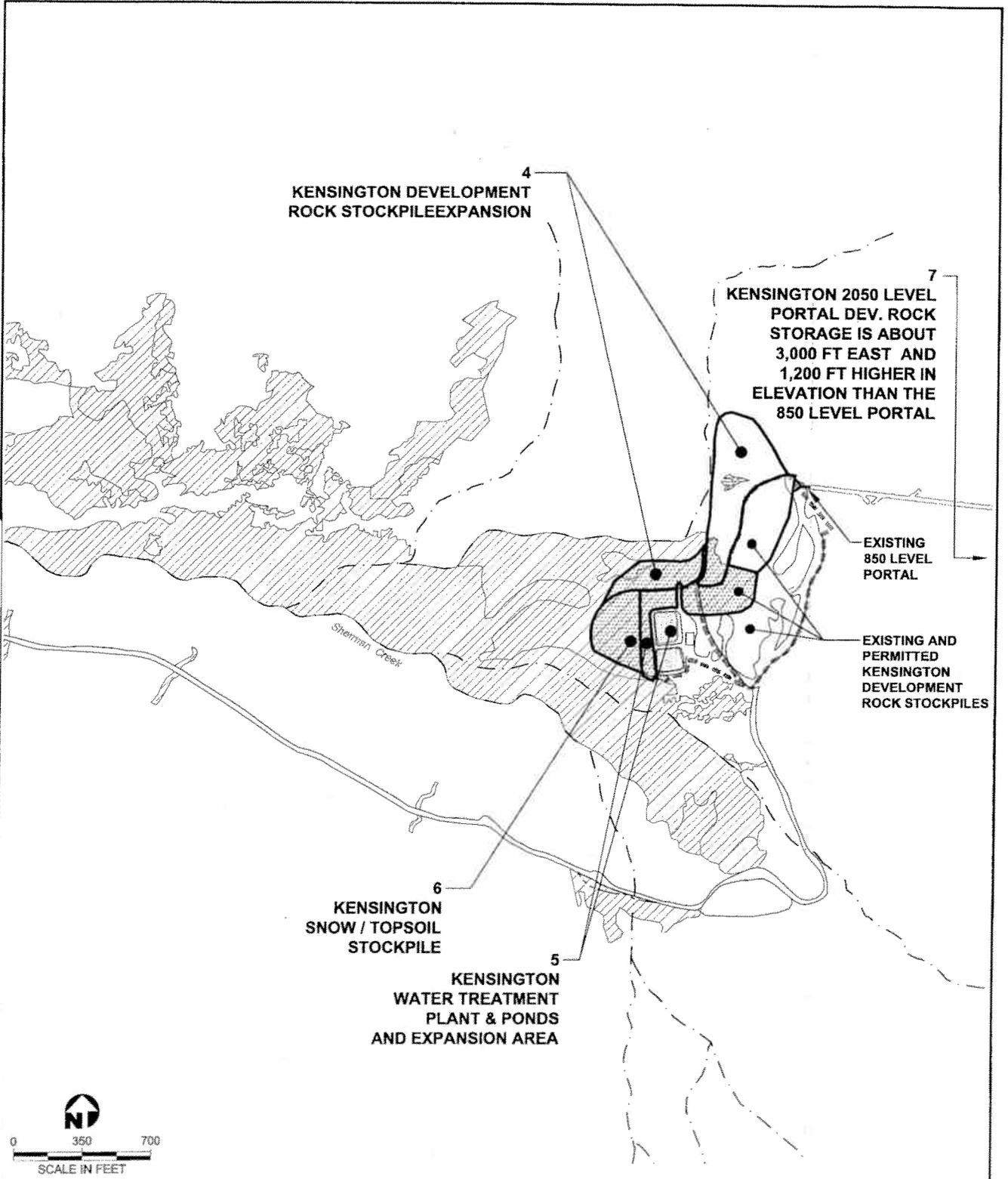
**Proposed:** Kensington Gold Project

**Purpose:** Construction of mining related facilities and appurtenances.

**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska

**Date:** May, 2009

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 3



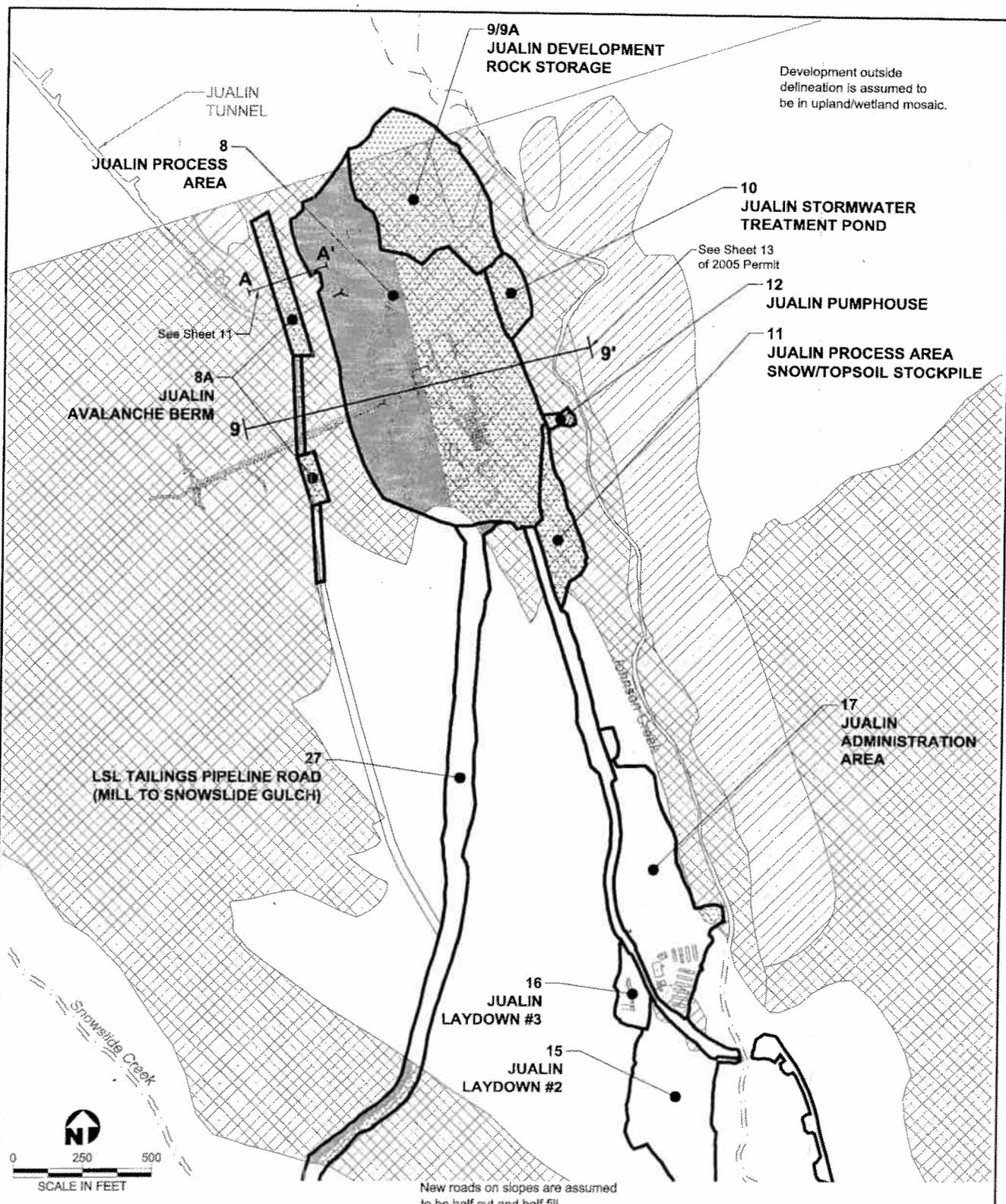
T:\Misc-Jobal\Coeur Alaska\LARPA\Sheet 3 Kensington Portal.dwg  
 Mod: 05/20/2009, 13:10 | Plotted: 05/20/2009, 13:10 | chad\_stickel

Legend	
	Work Area Boundary
	Wetland
	25% Wetland Mosaic
	Upland or Bay
	Fill Impact
	Cut Impact
	Existing Prior to Permitting

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**  
**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska  
**Adjacent Property Owners:**  
 1. U.S. Forest Service  
**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

**Proposed:** Kensington Gold Project  
**Purpose:** Construction of mining related facilities and appurtenances.  
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska  
**Date:** May, 2009

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 4



New roads on slopes are assumed to be half cut and half fill.

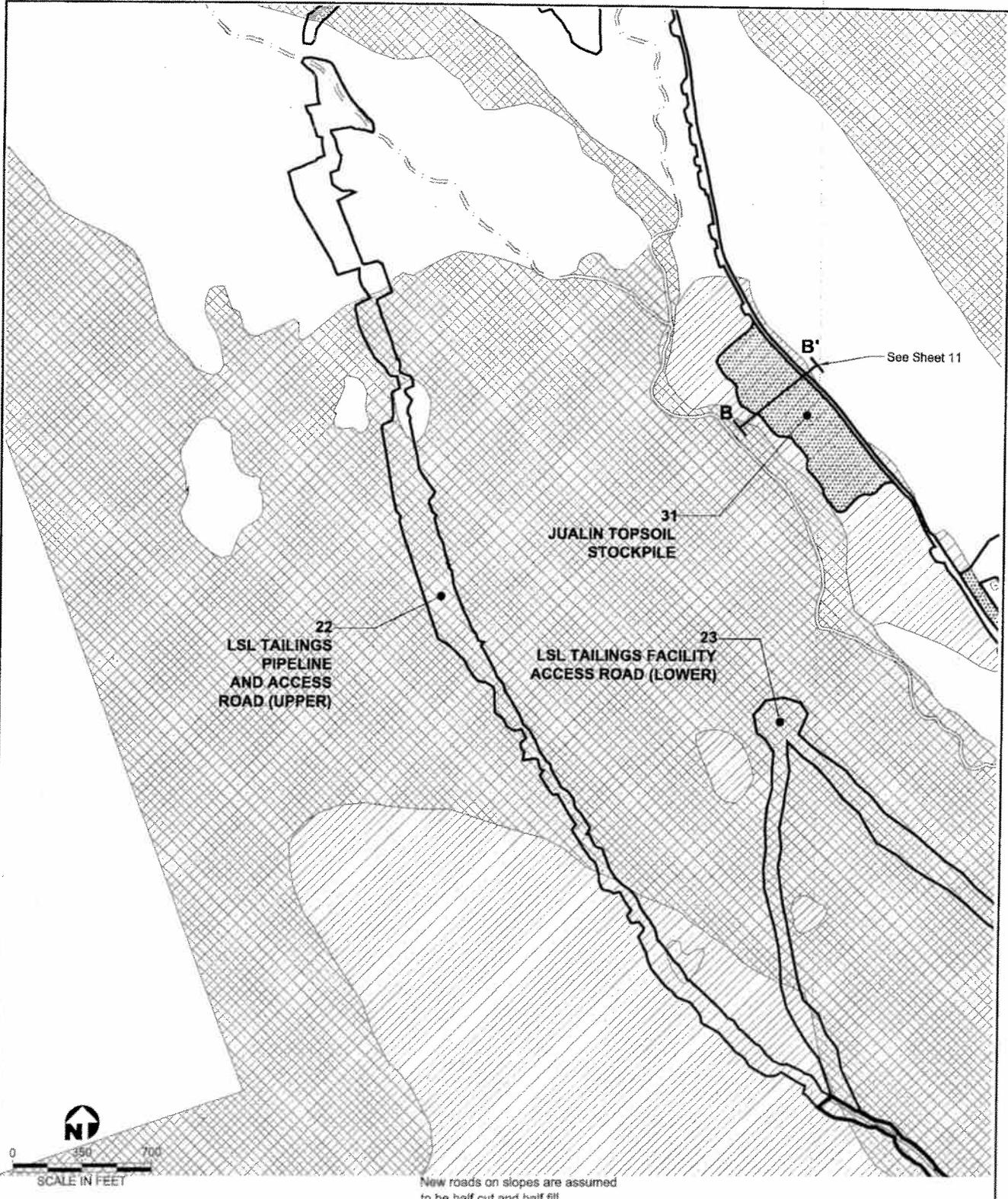
Legend	
	Work Area Boundary
	Wetland
	25% Wetland Mosaic
	Upland or Bay
	Fill Impact
	Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No:**  
**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska  
**Adjacent Property Owners:**  
 1. U.S. Forest Service  
**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

**Proposed:** Kensington Gold Project  
**Purpose:** Construction of mining related facilities and appurtenances.  
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska  
**Date:** May, 2009

T:\misc-jobs\Coeur Alaska\IARPA\Sheet 4 Jualin.dwg  
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 chad\_stickel

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 5



New roads on slopes are assumed to be half cut and half fill.

T:\Misc-ubal\Coeur Alaska\IAR\PA\SHEET 5 Pipeline Road.dwg  
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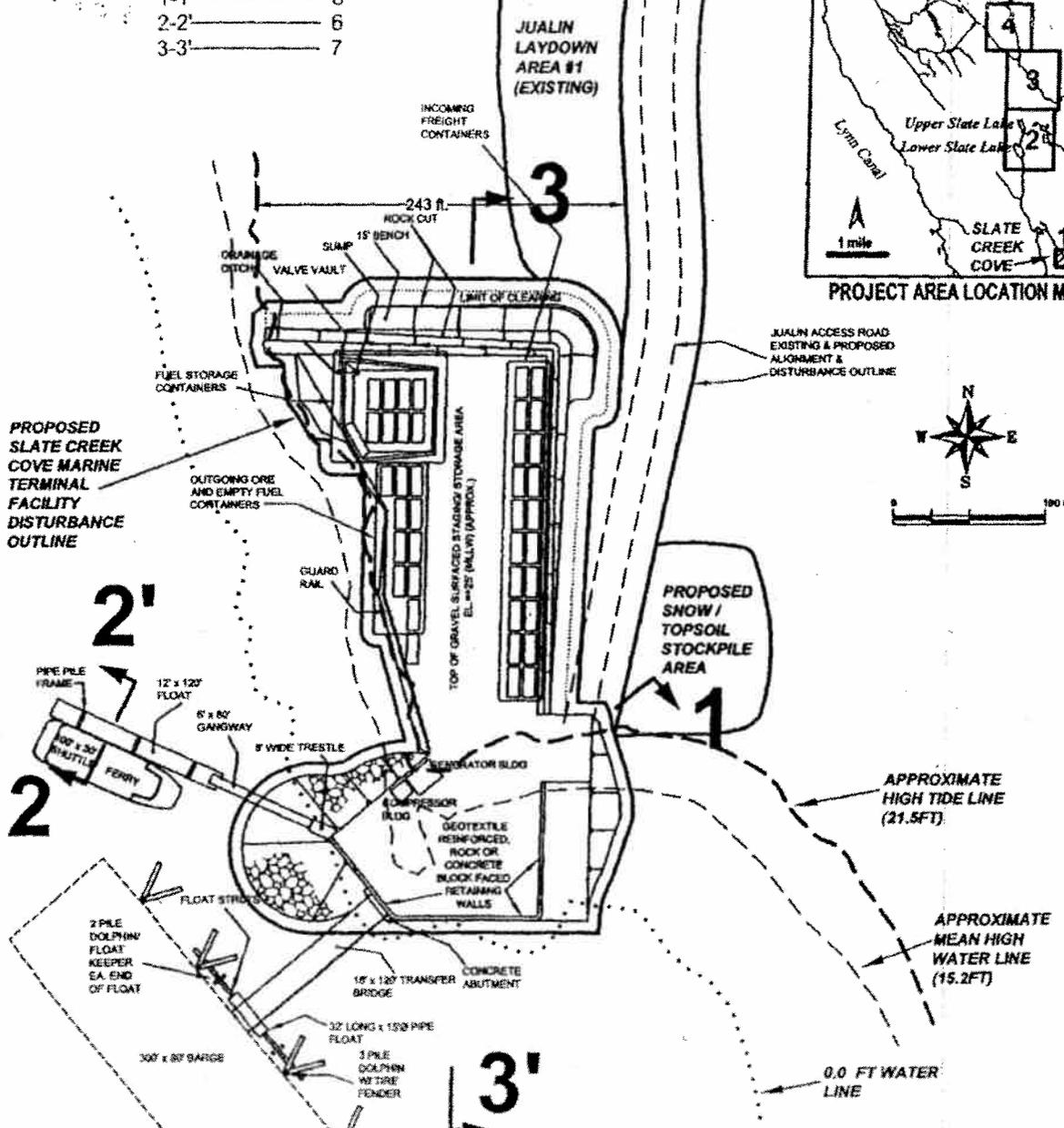
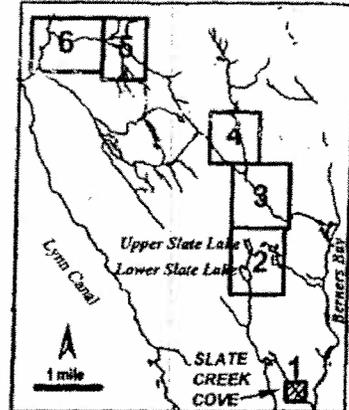
- Legend**
- Work Area Boundary
  - Wetland
  - 25% Wetland Mosaic
  - Upland or Bay
  - Fill Impact
  - Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No:**  
**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska  
**Adjacent Property Owners:**  
 1. U.S. Forest Service  
**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

**Proposed:** Kensington Gold Project  
**Purpose:** Construction of mining related facilities and appurtenances.  
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska  
**Date:** May, 2009

ENTIRE AREA IS WATERS OF THE U.S.

SECTION No.	SHEET No.
1-1	6
2-2	6
3-3	7

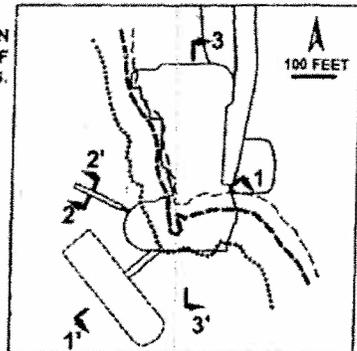


FACILITY DESIGN BY PERATROVICH, NOTTINGHAM, & DRAGE, INC.

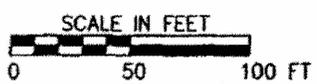
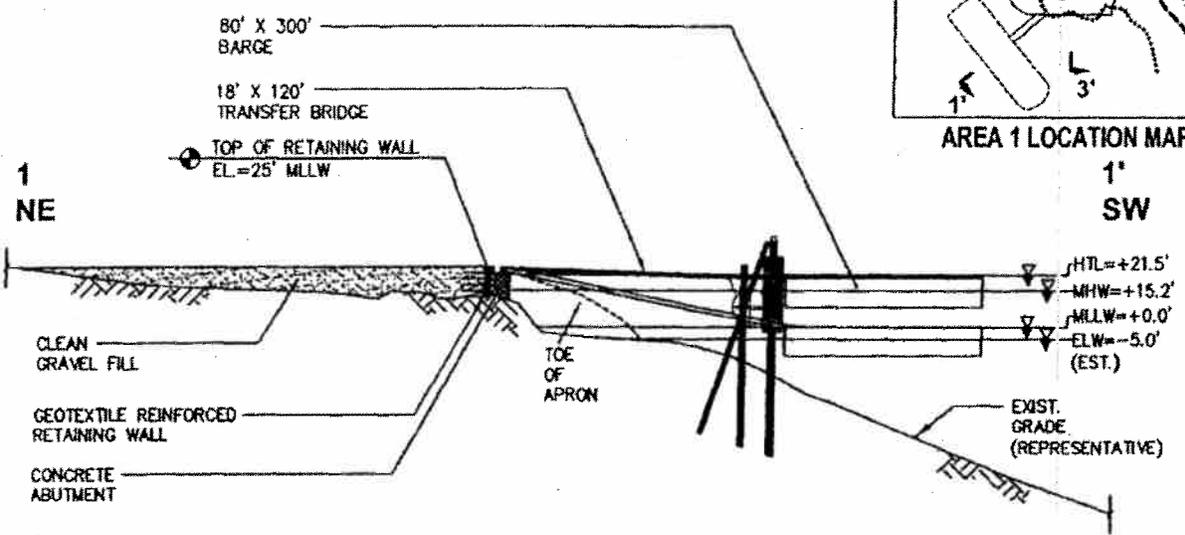
	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU		
<b>SHEET INDEX FOR AREA 1 - MARINE TERMINAL</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 5A

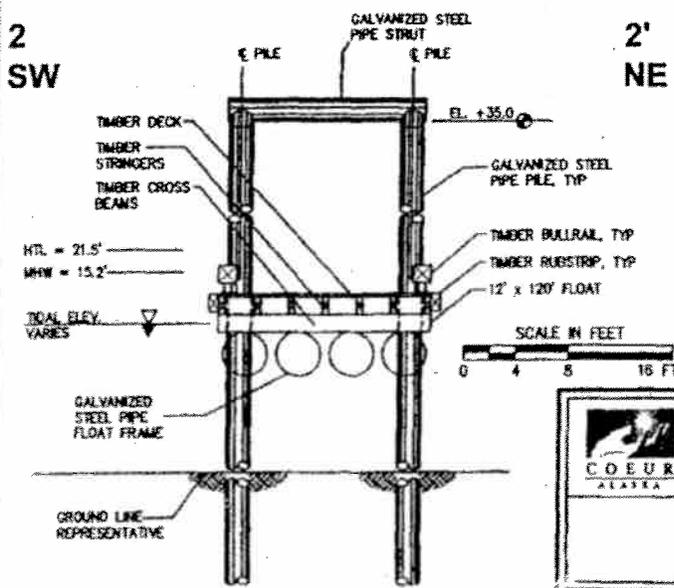
ENTIRE AREA IS IN THE WATERS OF THE U.S.



**SECTION 1-1'**



**SECTION 2-2'**

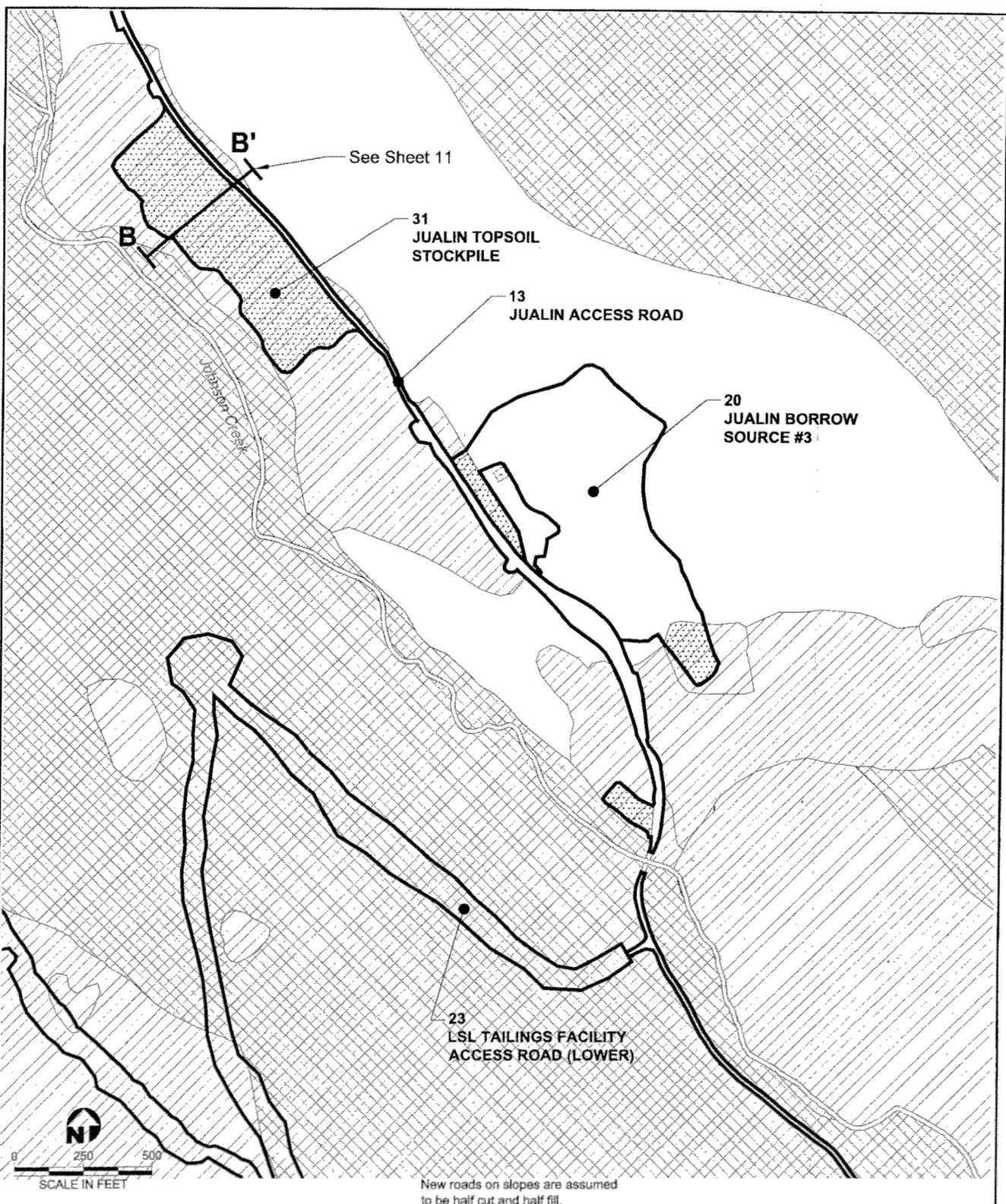


FACILITY DESIGN BY PERATROVICH, NOTTINGHAM, & DRAGE, INC.

	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU		
<b>CROSS-SECTIONS 1-1' &amp; 2-2'</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 6

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 6A

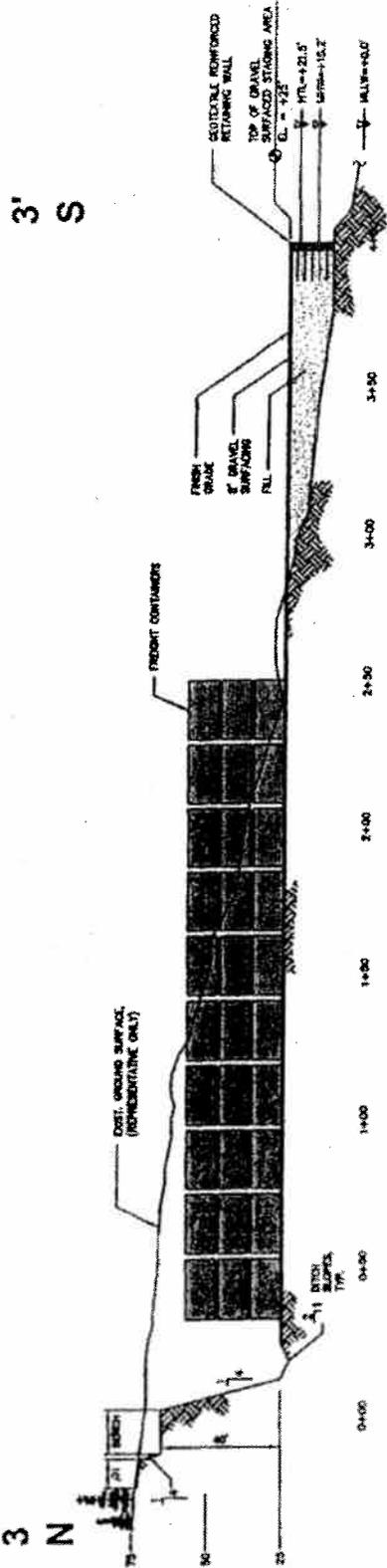


T:\Misc-Jobs\Coeur Alaska\JARPAS\Sheet 6 Jualin.dwg  
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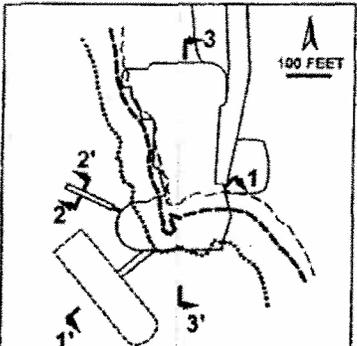
<p><b>Legend</b></p> <ul style="list-style-type: none"> <li> Work Area Boundary</li> <li> Wetland</li> <li> 25% Wetland Mosaic</li> <li> Upland or Bay</li> <li> Fill Impact</li> <li> Cut Impact</li> </ul>	<p><b>Applicant:</b> Coeur Alaska, Inc  <b>Permit No.:</b></p> <p><b>Location Address:</b> Approximately Lynn Canal at Berners Bay, Juneau, Alaska</p> <p><b>Adjacent Property Owners:</b>          1. U.S. Forest Service</p> <p><b>Datum:</b> Alaska State Plane Zone 1          NAD 83 on a NAD 27 Baseline</p>	<p><b>Proposed:</b> Kensington Gold Project</p> <p><b>Purpose:</b> Construction of mining related facilities and appurtenances.</p> <p><b>Near/At:</b> T35S, R62E  <b>Municipality:</b> City and Borough of Juneau  <b>State:</b> Alaska</p> <p><b>Date:</b> May, 2009</p>
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COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 7

**SECTION 3-3'**



ENTIRE AREA IS IN THE WATERS OF THE U.S.

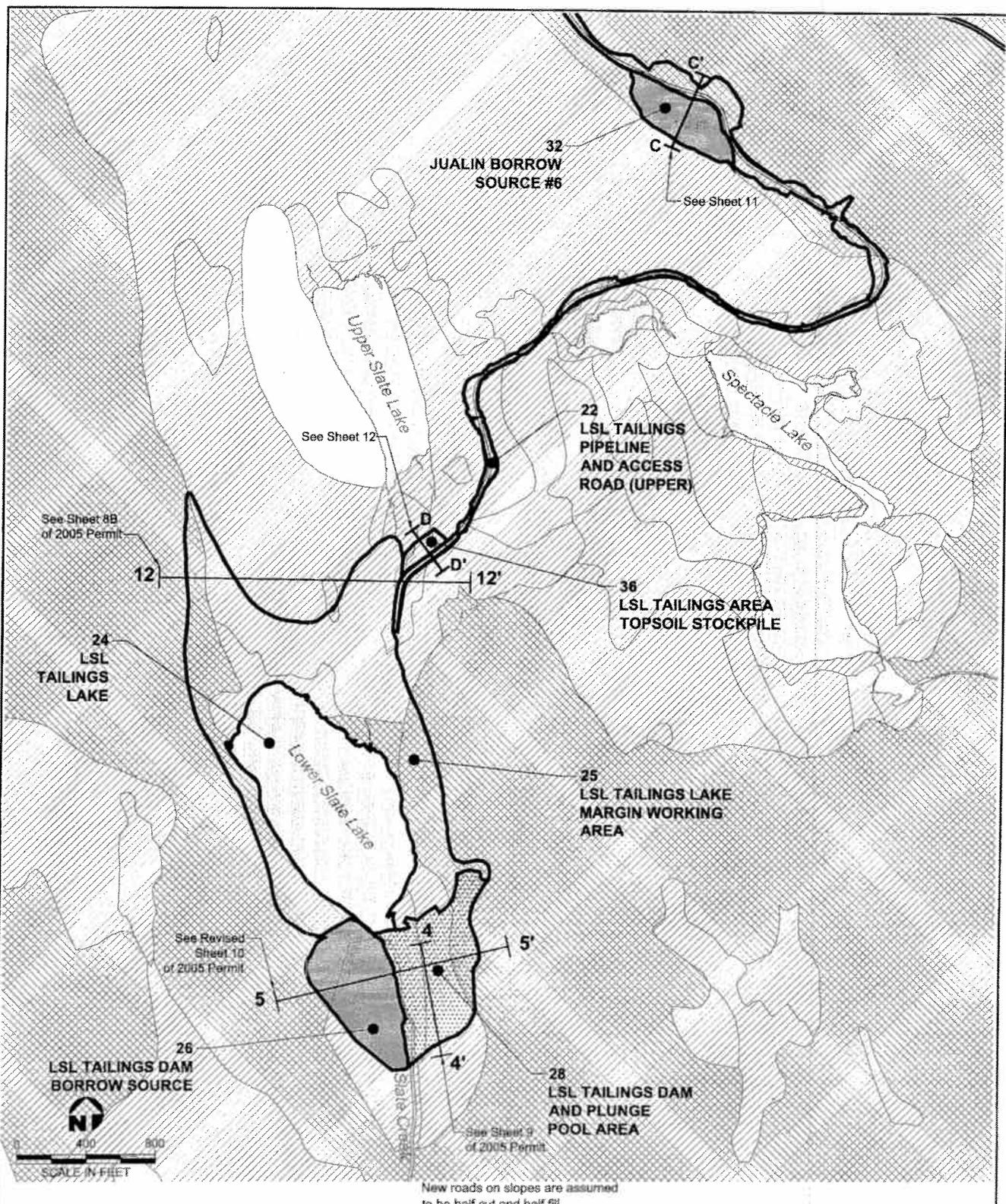


**AREA 1 LOCATION MAP**

FACILITY DESIGN BY PERATROVICH, NOTTINGHAM, & DRAGE, INC.

	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
	LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU	
<b>CROSS-SECTION 3-3'</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M/6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 7A



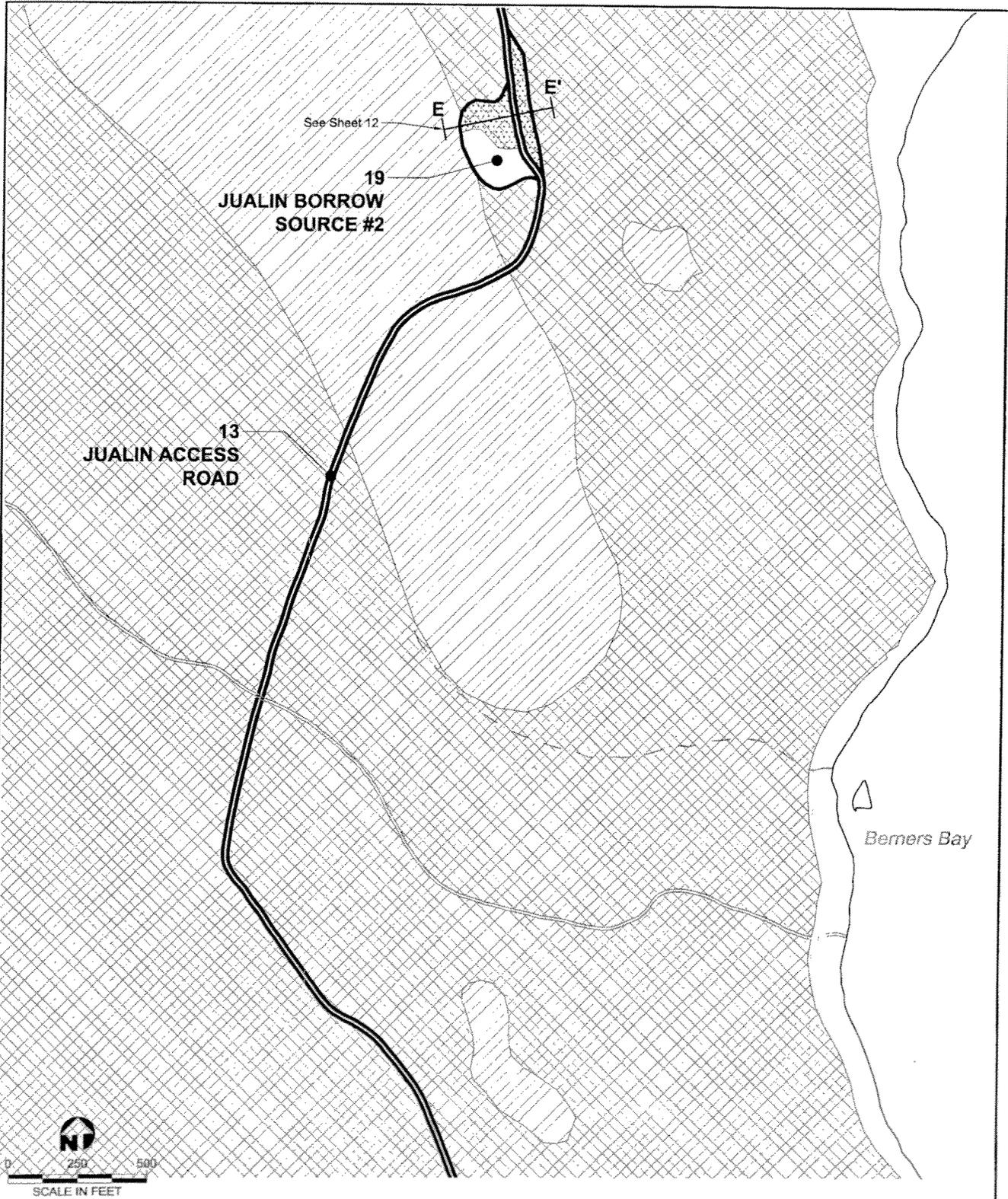
T:\Misc-Jobs\Coeur Alaska\JARRP\Sheet 7 Tailings.dwg  
 Mod: 05/20/2009 12:56 | Plotter: 05/20/2009 13:04 chad\_stickel

Legend	
	Work Area Boundary
	Wetland
	25% Wetland Mosaic
	Upland or Bay
	Fill Impact
	Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**  
**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska  
**Adjacent Property Owners:**  
 1. U.S. Forest Service  
**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

**Proposed:** Kensington Gold Project  
**Purpose:** Construction of mining related facilities and appurtenances.  
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska  
**Date:** May, 2009

POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 8



T:\Misc-Jobs\Coeur Alaska\IARRP\Sheet 8, Jualin Access Road.dwg  
 Mct: 05/20/2009 11:59 | P:\field: 05/20/2009 13:11 | chad\_jlckel

**Legend**

- Work Area Boundary
- Wetland
- 25% Wetland Mosaic
- Upland or Bay
- Fill Impact
- Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**

**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska

**Adjacent Property Owners:**  
 1. U.S. Forest Service

**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

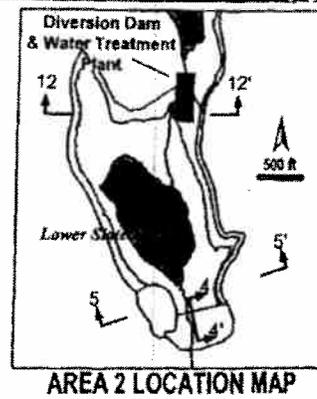
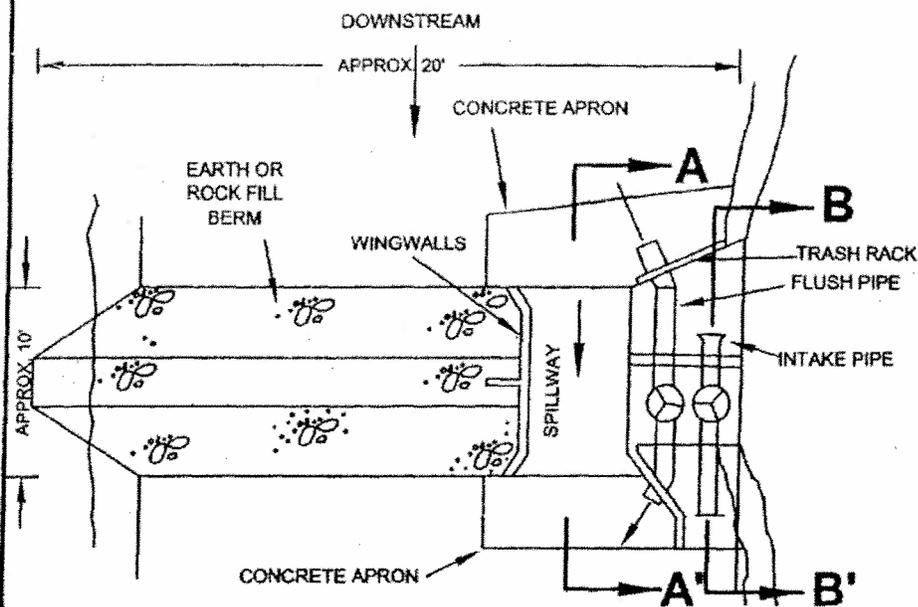
**Proposed:** Kensington Gold Project

**Purpose:** Construction of mining related facilities and appurtenances.

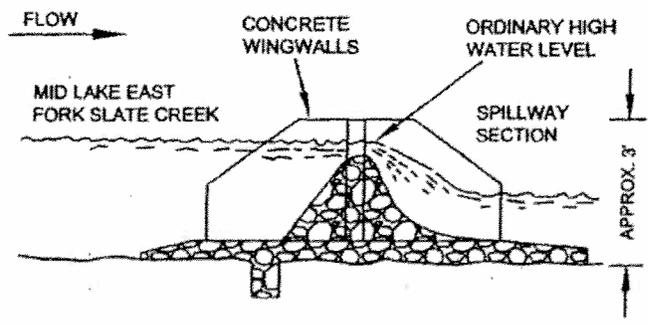
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska

**Date:** May, 2009

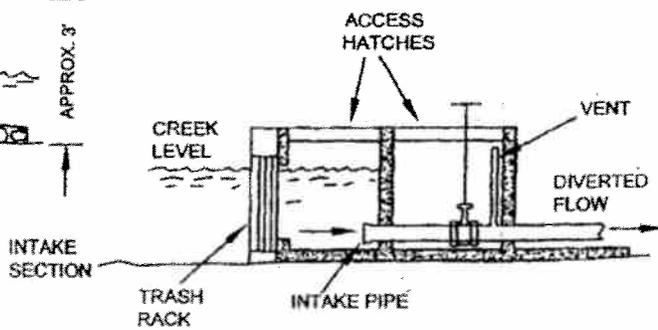
# EARTH OR ROCKFILL DAM (PLAN)



## SECTION A-A'



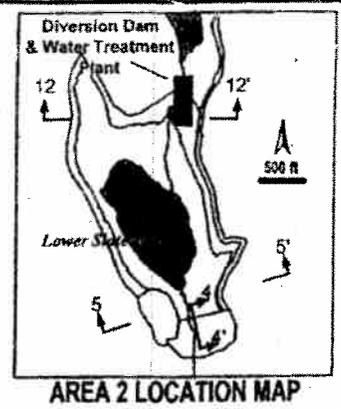
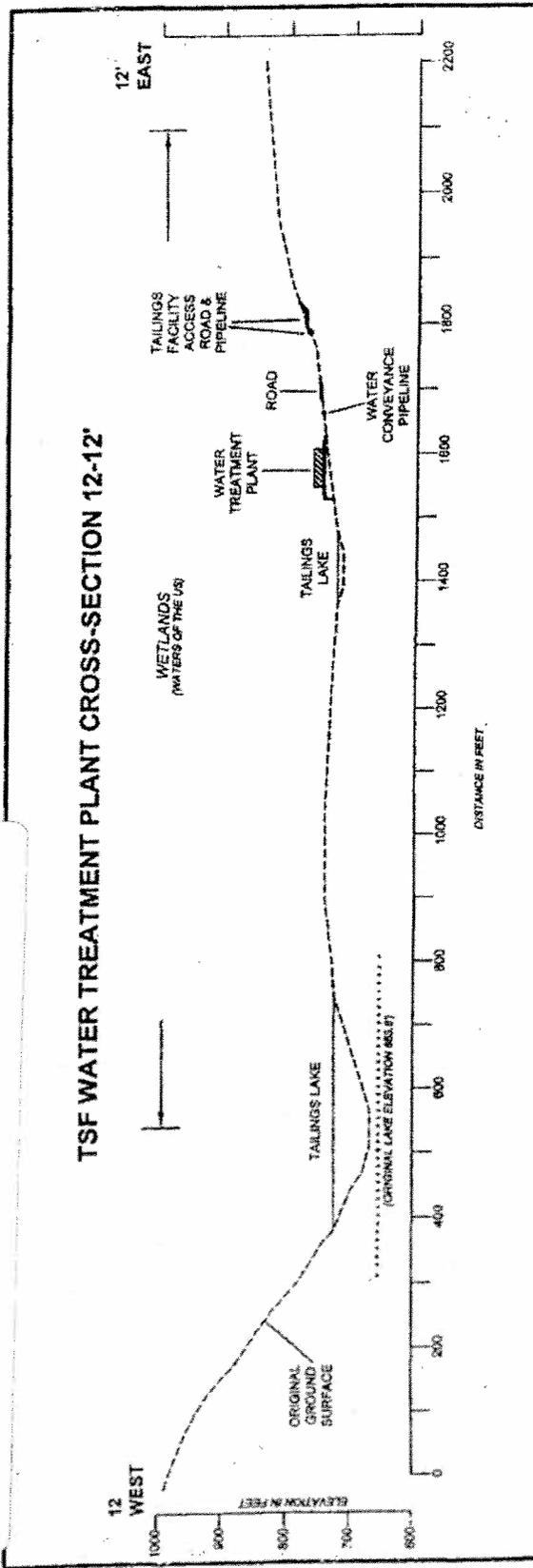
## SECTION B-B'



	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU		
<b>DIVERSION DAM PLAN &amp; SECTION - TSF</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

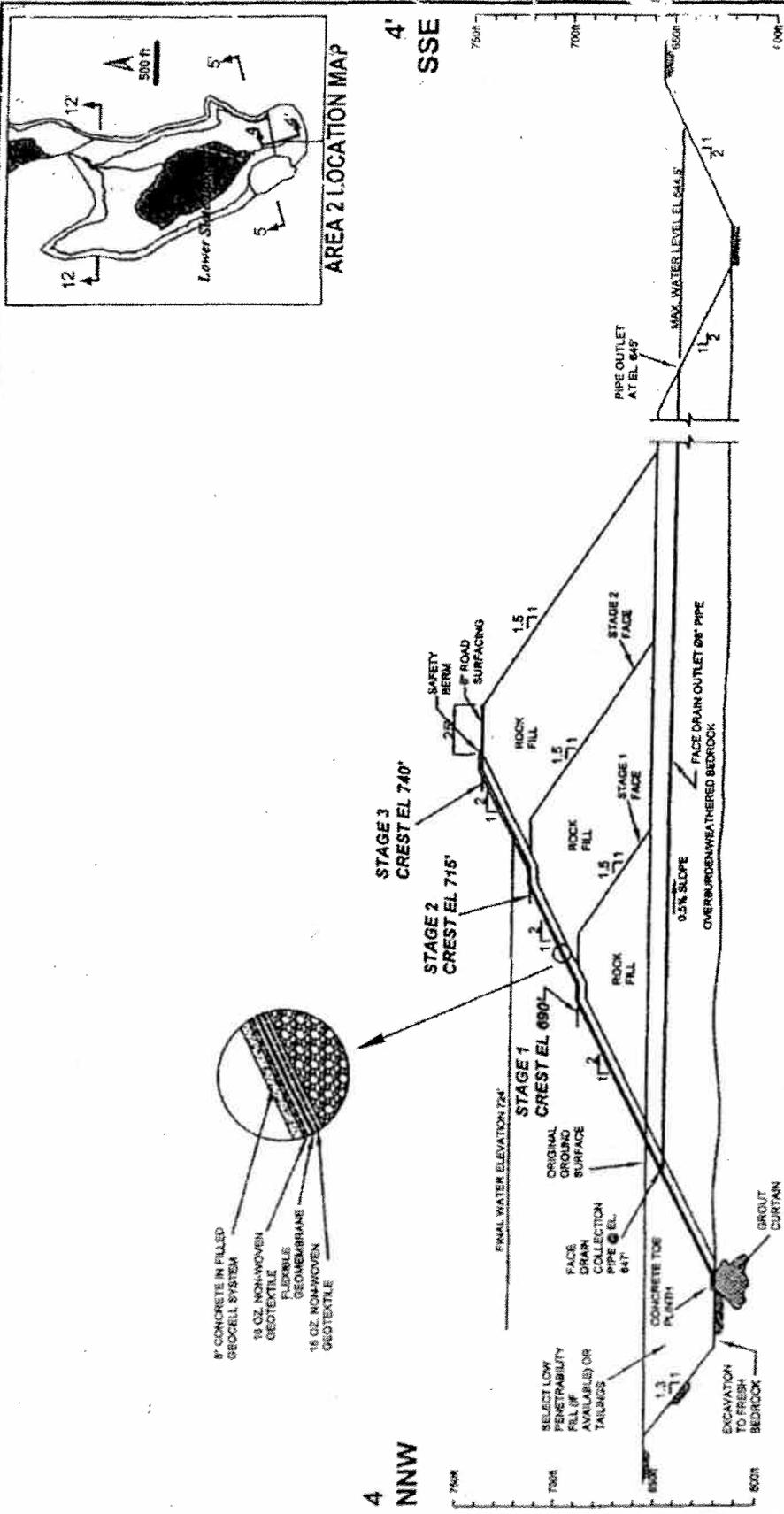
COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 8A

POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 8B



	DATE: APRIL 2005	PROJECT: 404
	SCALE: NTS	DRAWN: JASPER GEOGRAPHICS
LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU		
<b>CROSS-SECTION 12-12'</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

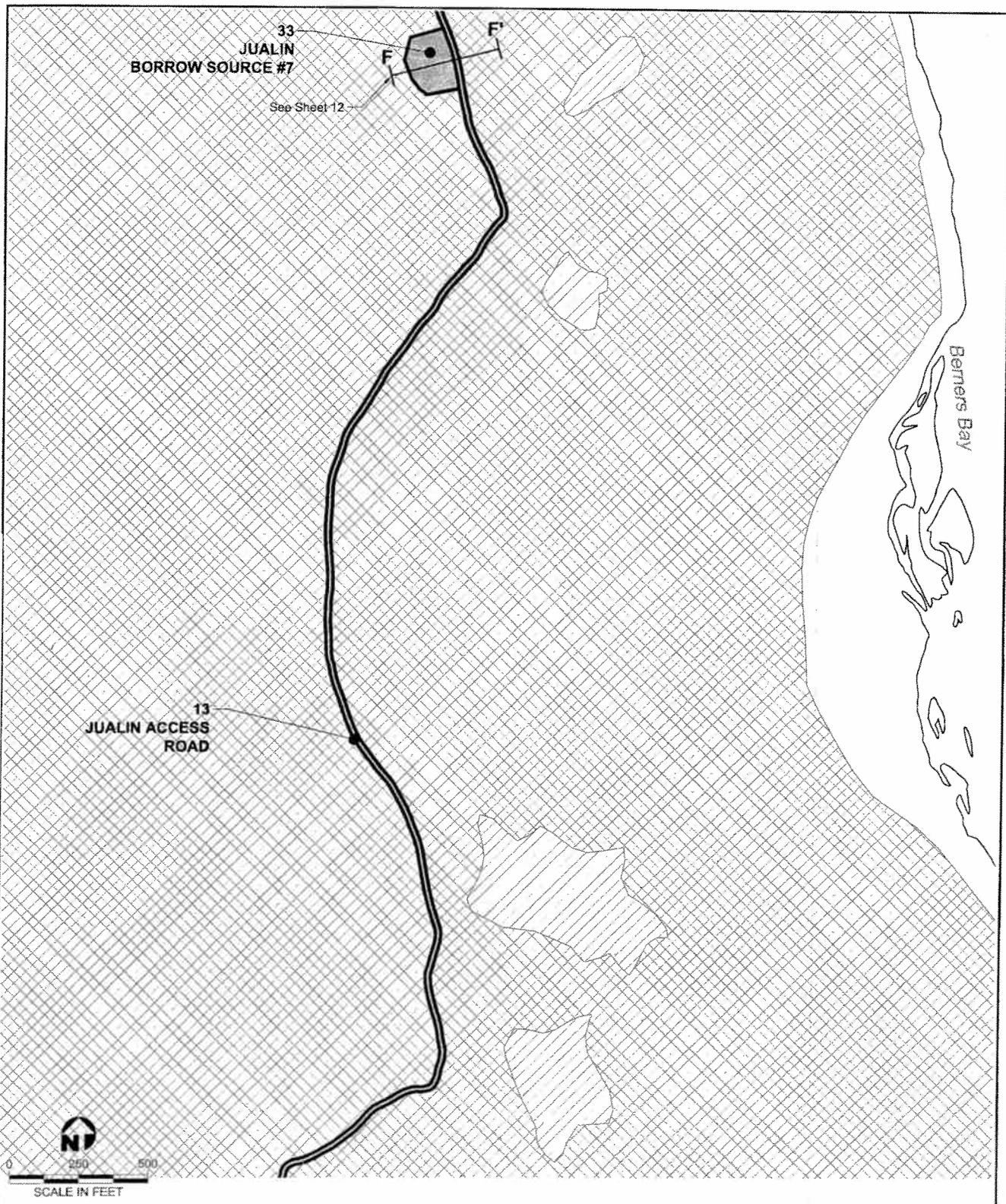
COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 9



FACILITY DESIGN BY KNIGHT PIESOLD CONSULTING

	DATE: APRIL 2005	PROJECT: 404
SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS	
LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU		
<b>SECTION 4-4' TAILINGS STORAGE FACILITY DAM</b>		
<b>KENSINGTON GOLD PROJECT</b>		
BERNERS BAY, ALASKA		

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 9A



T:\Misc\Job\Coeur Alaska\ARPA\Sheet 9 Road.dwg  
 Mod: 05/20/2009, 12:08 | Plotted: 05/20/2009, 13:09  
 chard, stickel

**Legend**

- Work Area Boundary
- Wetland
- 25% Wetland Mosaic
- Upland or Bay
- Fill Impact
- Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**

**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska

**Adjacent Property Owners:**  
 1. U.S. Forest Service

**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

**Proposed:** Kensington Gold Project

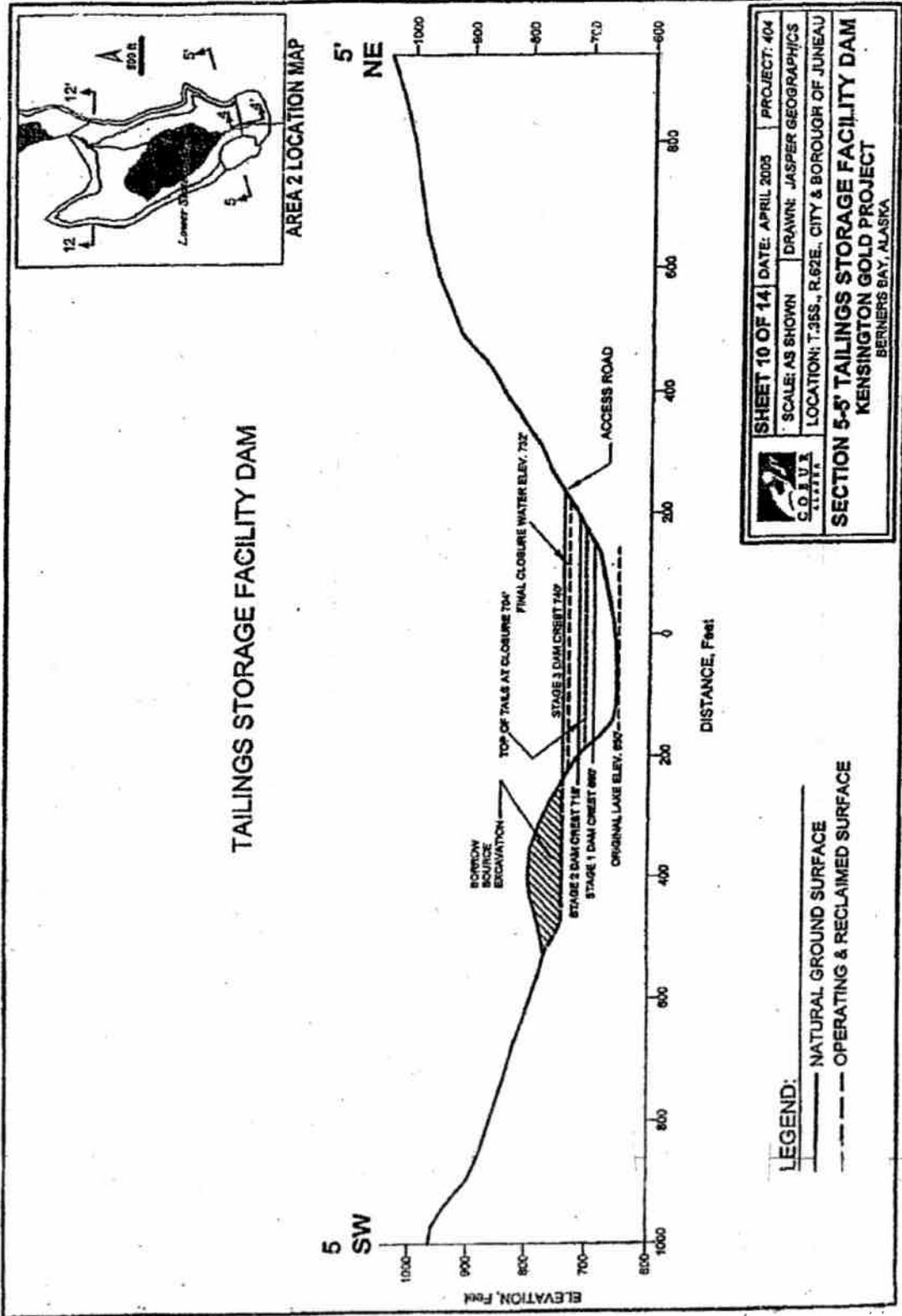
**Purpose:** Construction of mining related facilities and appurtenances.

**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska

**Date:** May, 2009

COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 10 \*

\* MODIFIED MAY 2009



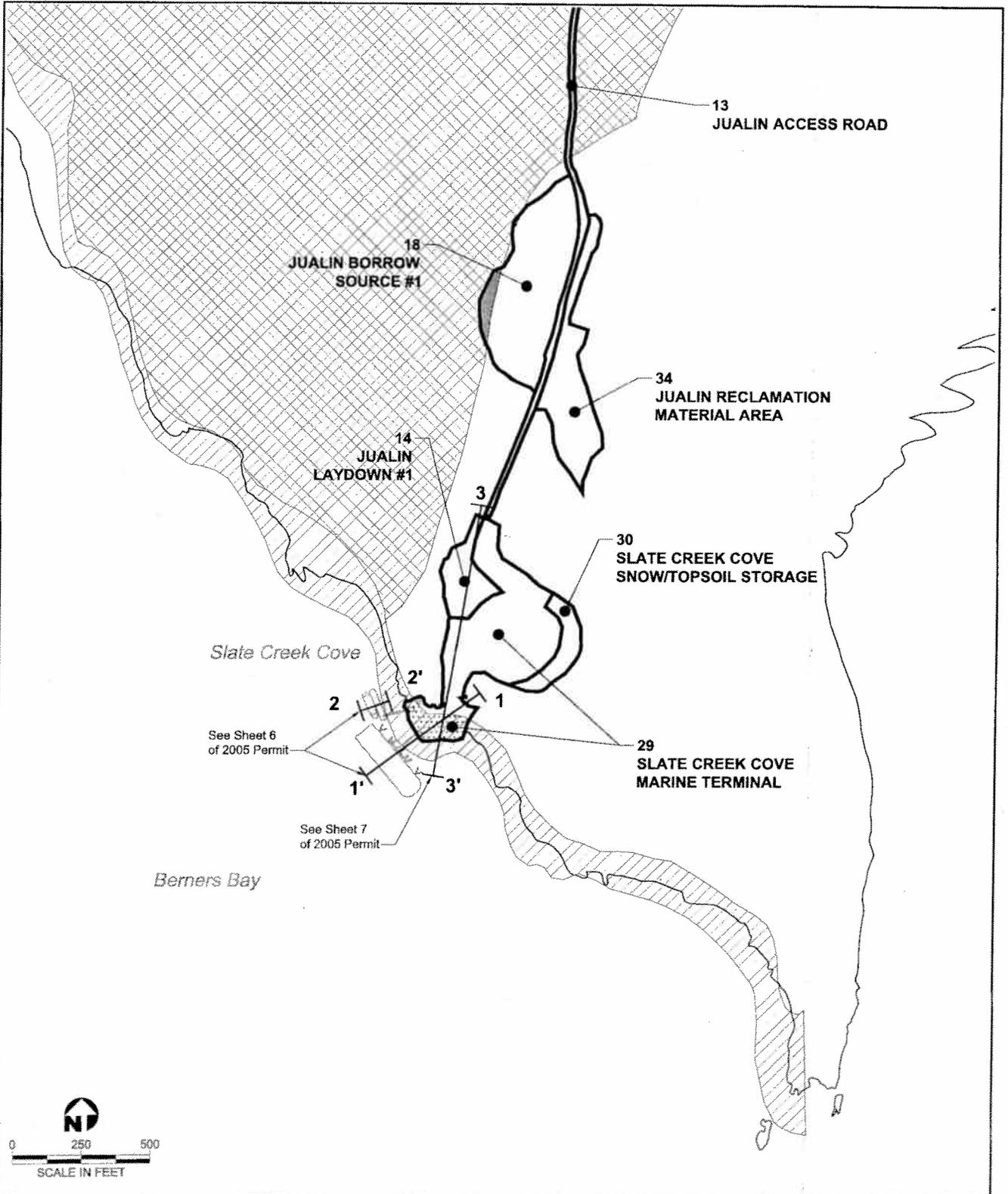
**SECTION 5-5' TAILINGS STORAGE FACILITY DAM**  
 KENINGTON GOLD PROJECT  
 BERNERS BAY, ALASKA

**LEGEND:**  
 — NATURAL GROUND SURFACE  
 - - - OPERATING & RECLAIMED SURFACE

**SHEET 10 OF 14** | DATE: APRIL 2005 | PROJECT: 404  
 SCALE: AS SHOWN | DRAWN: JASPER GEOGRAPHICS  
 LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU

**COEUR ALASKA**  
 INCORPORATED

POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 10A



T:\Misc-Jobs\Coeur Alaska\UARRP\Sheet 10 Slate Creek Cove.dwg  
 Mod: 05/20/2009, 13:03 | Pritest: 05/20/2009, 13:14 | chad\_atkcek

Legend	
	Work Area Boundary
	Wetland
	25% Wetland Mosaic
	Upland or Bay
	Fill Impact
	Cut Impact

**Applicant:** Coeur Alaska, Inc  
**Permit No.:**  
**Location Address:** Approximately Lynn Canal at Berners Bay, Juneau, Alaska  
**Adjacent Property Owners:**  
 1. U.S. Forest Service  
**Datum:** Alaska State Plane Zone 1  
 NAD 83 on a NAD 27 Baseline

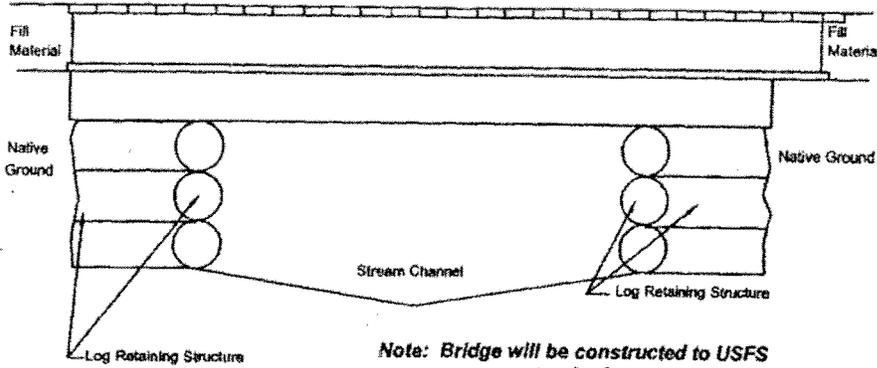
**Proposed:** Kensington Gold Project  
**Purpose:** Construction of mining related facilities and appurtenances.  
**Near/At:** T35S, R62E  
**Municipality:** City and Borough of Juneau  
**State:** Alaska  
**Date:** May, 2009

7  
SW

### TYPICAL BRIDGE CROSSINGS

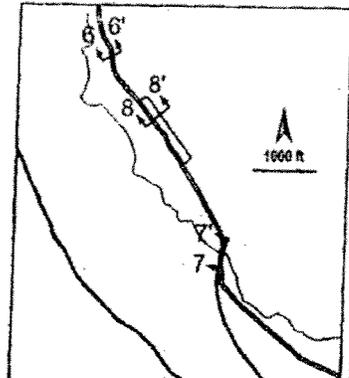
ENTIRE SECTION IS IN WATERS OF THE U.S.

7'  
NE



Note: Bridge will be constructed to USFS standards.

NOT TO SCALE



AREA 3 LOCATION MAP

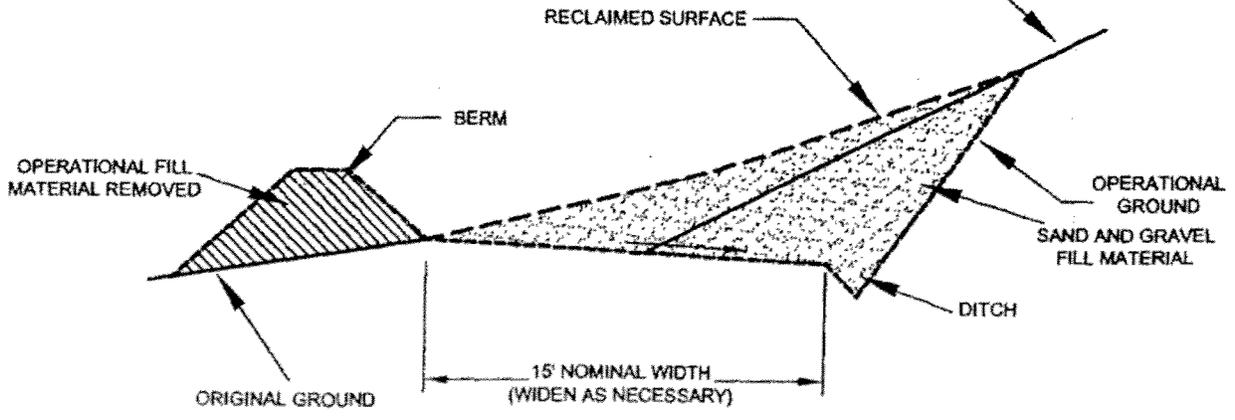
### TYPICAL ACCESS ROAD UPGRADE SECTION

ENTIRE SECTION IS IN WATERS OF THE U.S.

6  
SW

ORIGINAL GROUND

6'  
NE

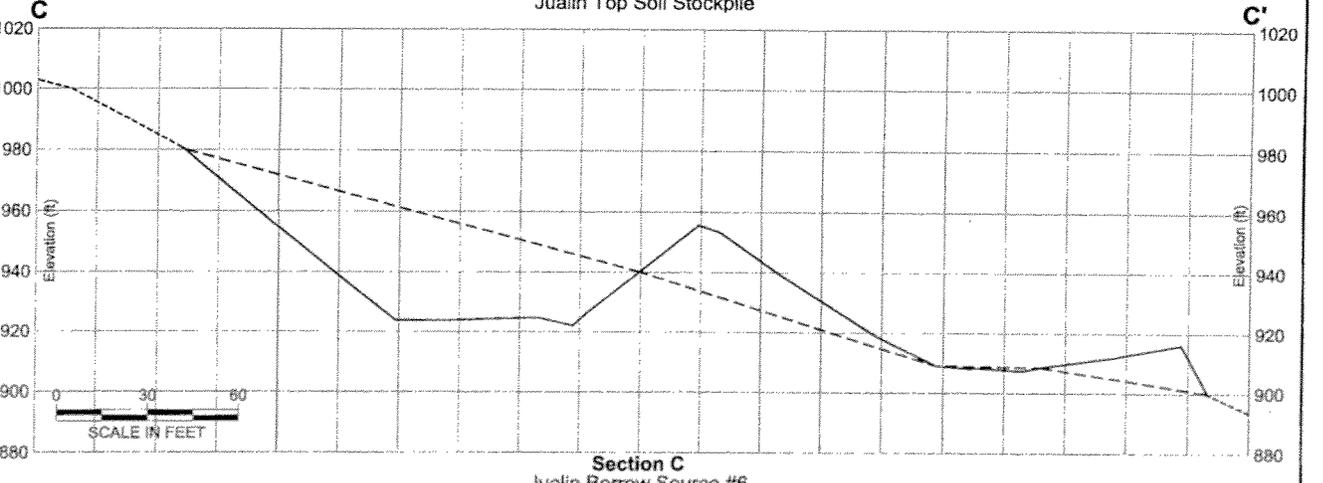
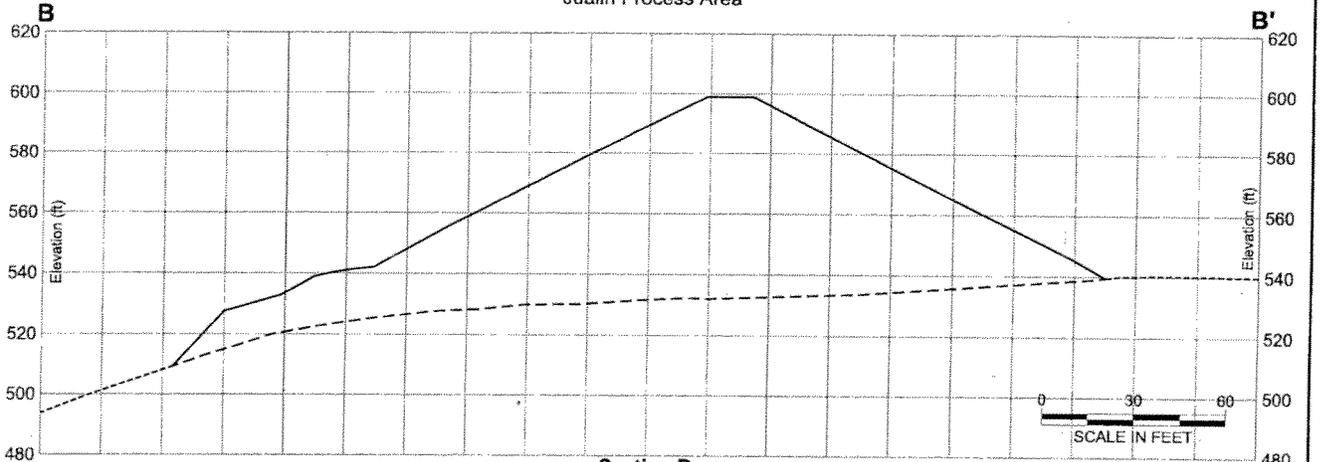
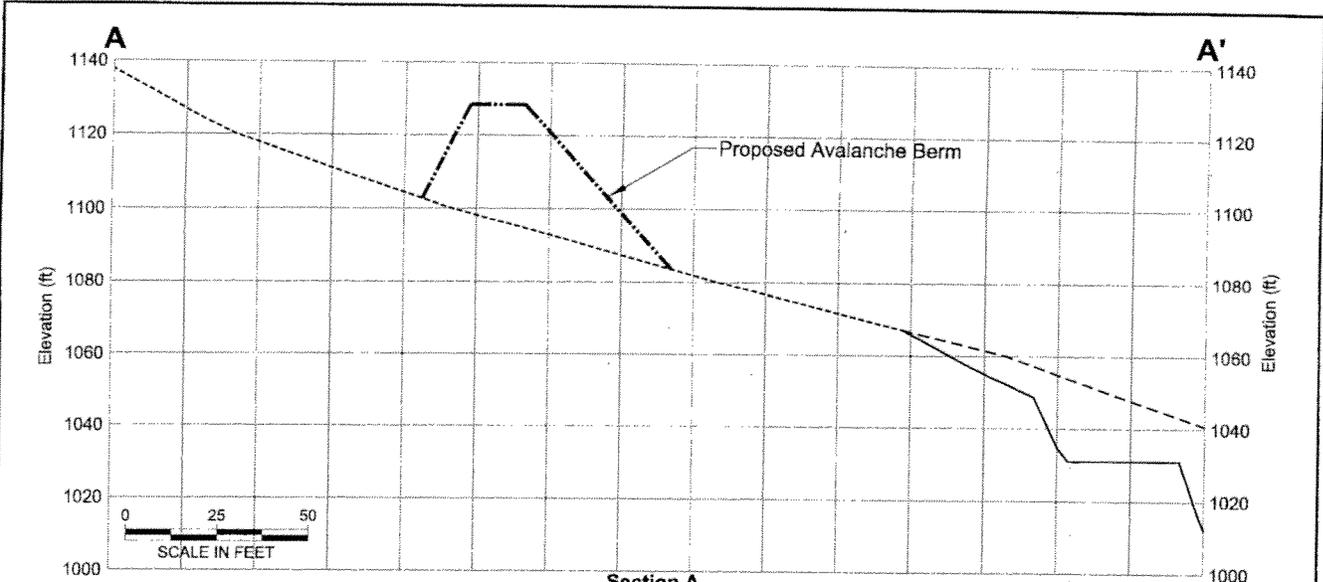


NOT TO SCALE

	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
	LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU	
<b>CROSS-SECTIONS 6-6' AND 7-7'</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

POA-1990-592-M6  
LYNN CANAL  
APRIL 2005  
SHEET 11

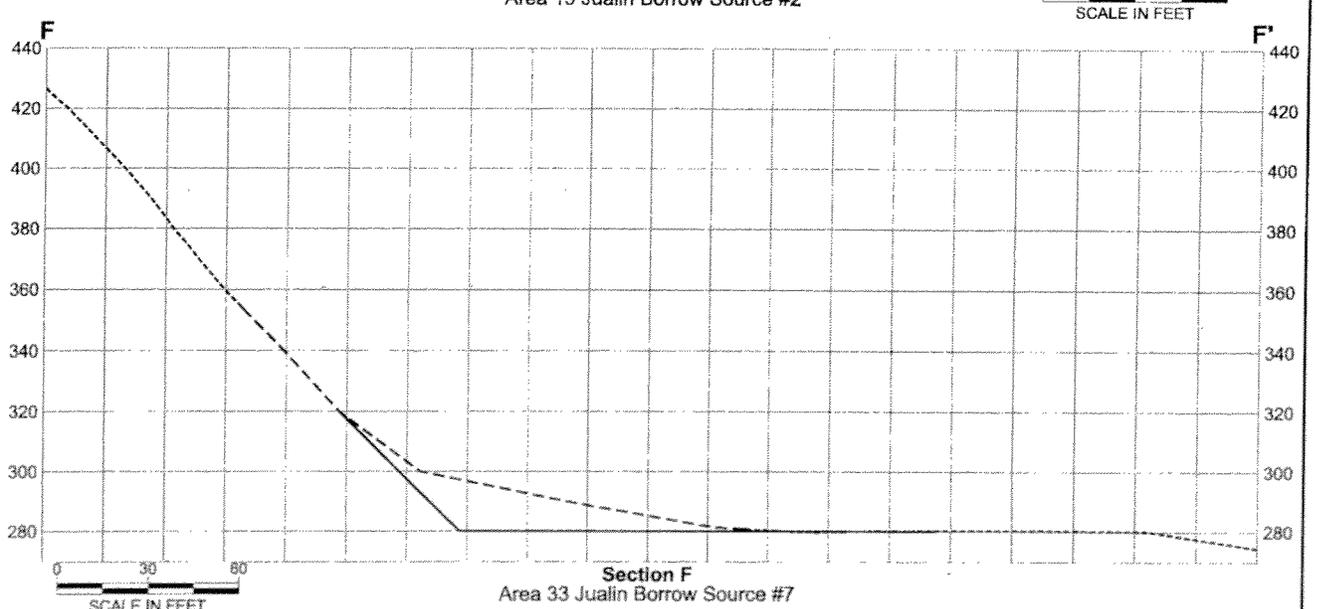
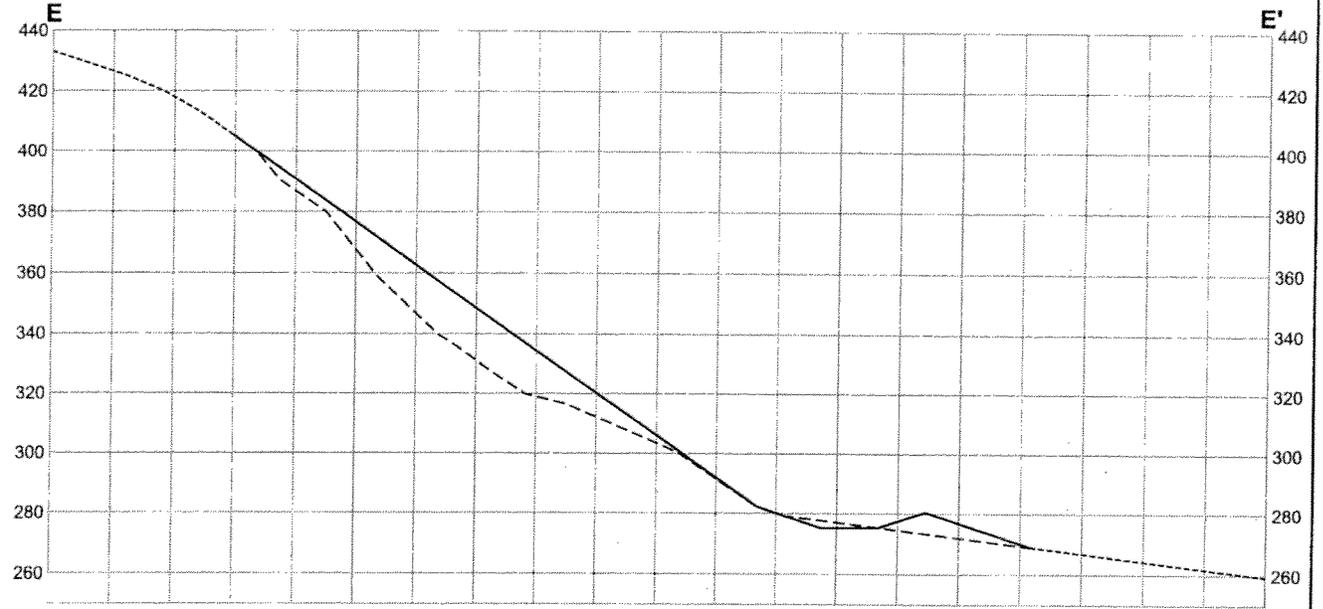
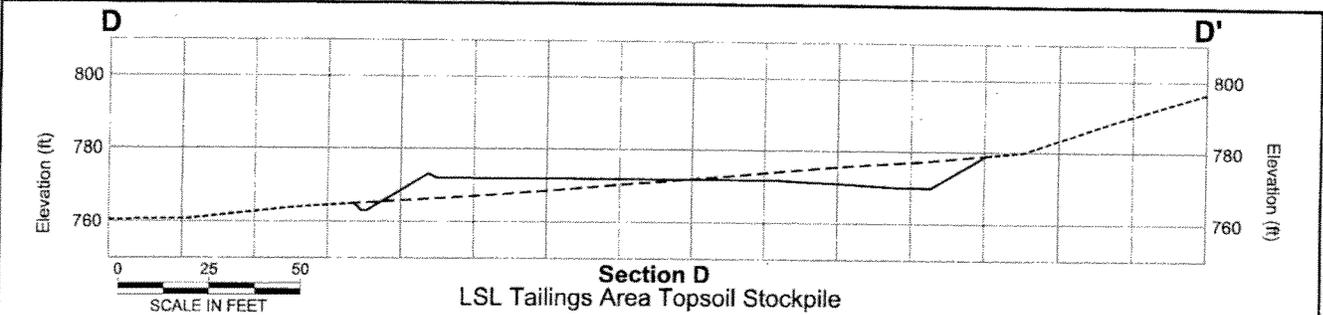
COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 11A



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>----- Existing Groundline</li> <li>----- Pre Construction Groundline</li> <li>----- AsBuilt Groundline</li> </ul>	<p><b>Applicant:</b> Coeur Alaska, Inc  <b>Permit No.:</b></p> <p><b>Location Address:</b> Approximately Lynn Canal at Berners Bay, Juneau, Alaska</p> <p><b>Adjacent Property Owners:</b>          1. U.S. Forest Service</p> <p><b>Datum:</b> Alaska State Plane Zone 1          NAD 83 on a NAD 27 Baseline</p>	<p><b>Proposed:</b> Kensington Gold Project</p> <p><b>Purpose:</b> Construction of mining related facilities and appurtenances.</p> <p><b>Near/At:</b> T35S, R62E  <b>Municipality:</b> City and Borough of Juneau  <b>State:</b> Alaska</p> <p><b>Date:</b> May, 2009</p>
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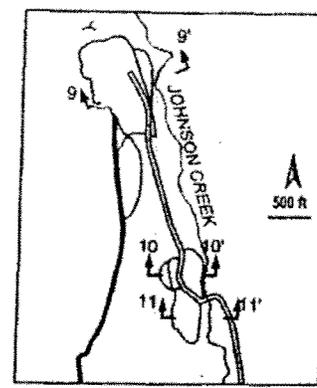
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POA-1990-592-M6  
 LYNN CANAL  
 MAY 21, 2009  
 SHEET 12



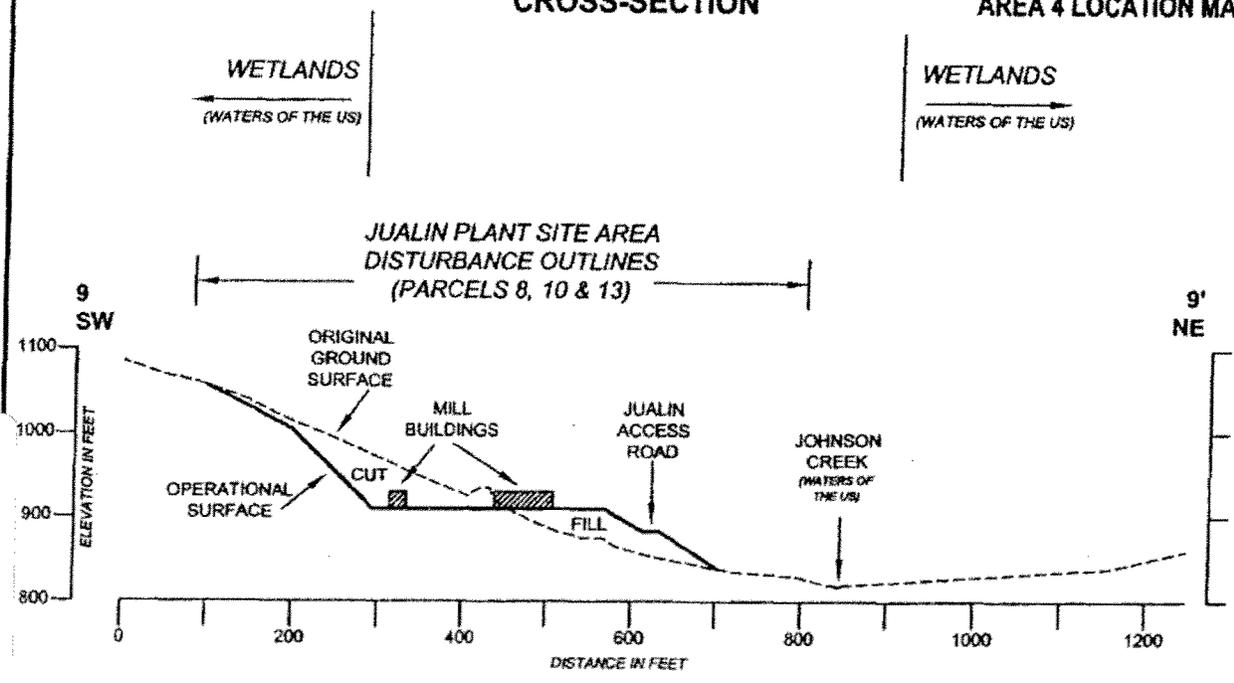
<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>--- Existing Groundline</li> <li>- - - Pre Construction Groundline</li> <li>— AsBuilt Groundline</li> </ul>	<p><b>Applicant:</b> Coeur Alaska, Inc  <b>Permit No.:</b>  <b>Location Address:</b> Approximately Lynn Canal at Berners Bay, Juneau, Alaska  <b>Adjacent Property Owners:</b>          1. U.S. Forest Service  <b>Datum:</b> Alaska State Plane Zone 1          NAD 83 on a NAD 27 Baseline</p>	<p><b>Proposed:</b> Kensington Gold Project  <b>Purpose:</b> Construction of mining related facilities and appurtenances.  <b>Near/At:</b> T35S, R62E  <b>Municipality:</b> City and Borough of Juneau  <b>State:</b> Alaska  <b>Date:</b> May, 2009</p>
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AREA 4 LOCATION MAP

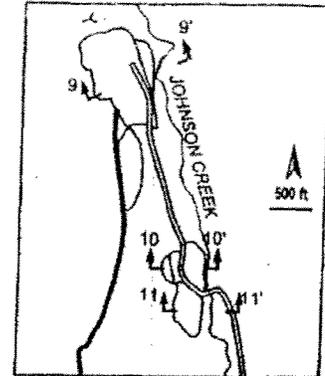
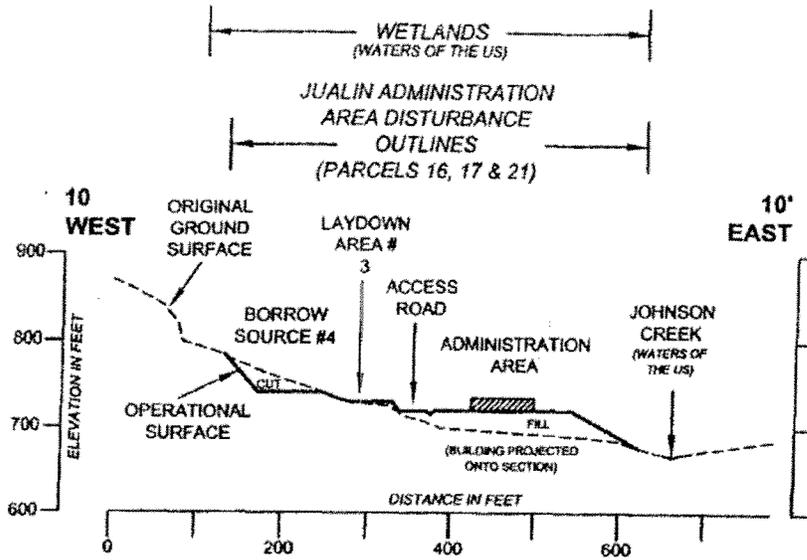
JUALIN PROCESS AREA  
CROSS-SECTION



	DATE: APRIL 2005	PROJECT: 404
	SCALE: AS SHOWN	DRAWN: JASPER GEOGRAPHICS
	LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU	
<b>CROSS-SECTION 9-9'</b> <b>KENSINGTON GOLD PROJECT</b> BERNERS BAY, ALASKA		

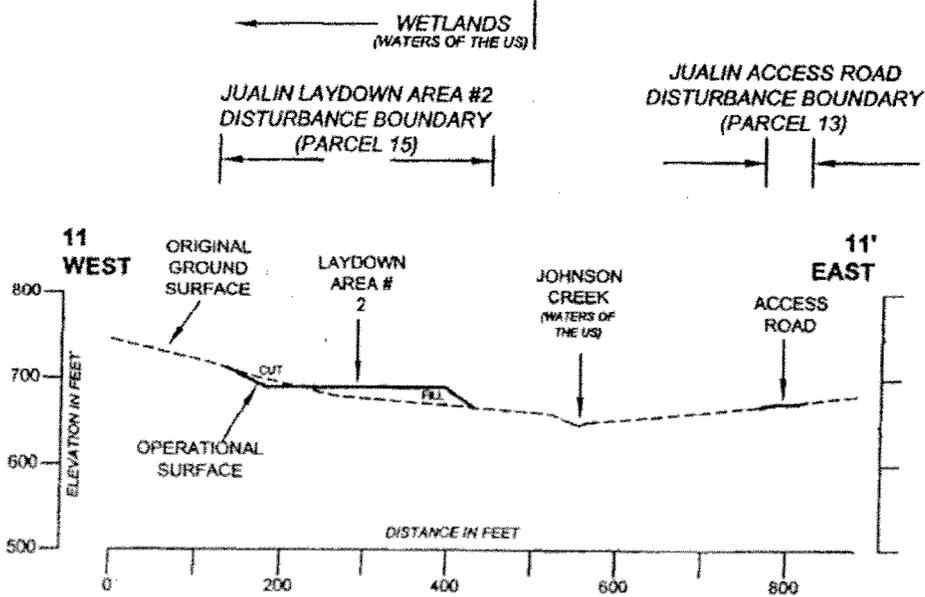
COEUR ALASKA, INCORPORATED  
 POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 13

### JUALIN ADMINISTRATION AREA CROSS-SECTION 10-10'



AREA 4 LOCATION MAP

### JUALIN ADMINISTRATION AREA CROSS-SECTION 11-11'



DATE: APRIL 2005 PROJECT: 404

SCALE: AS SHOWN DRAWN: JASPER GEOGRAPHICS

LOCATION: T.35S., R.62E., CITY & BOROUGH OF JUNEAU

**CROSS-SECTIONS 10-10' & 11-11'**  
**KENSINGTON GOLD PROJECT**  
 BERNERS BAY, ALASKA

POA-1990-592-M6  
 LYNN CANAL  
 APRIL 2005  
 SHEET 14