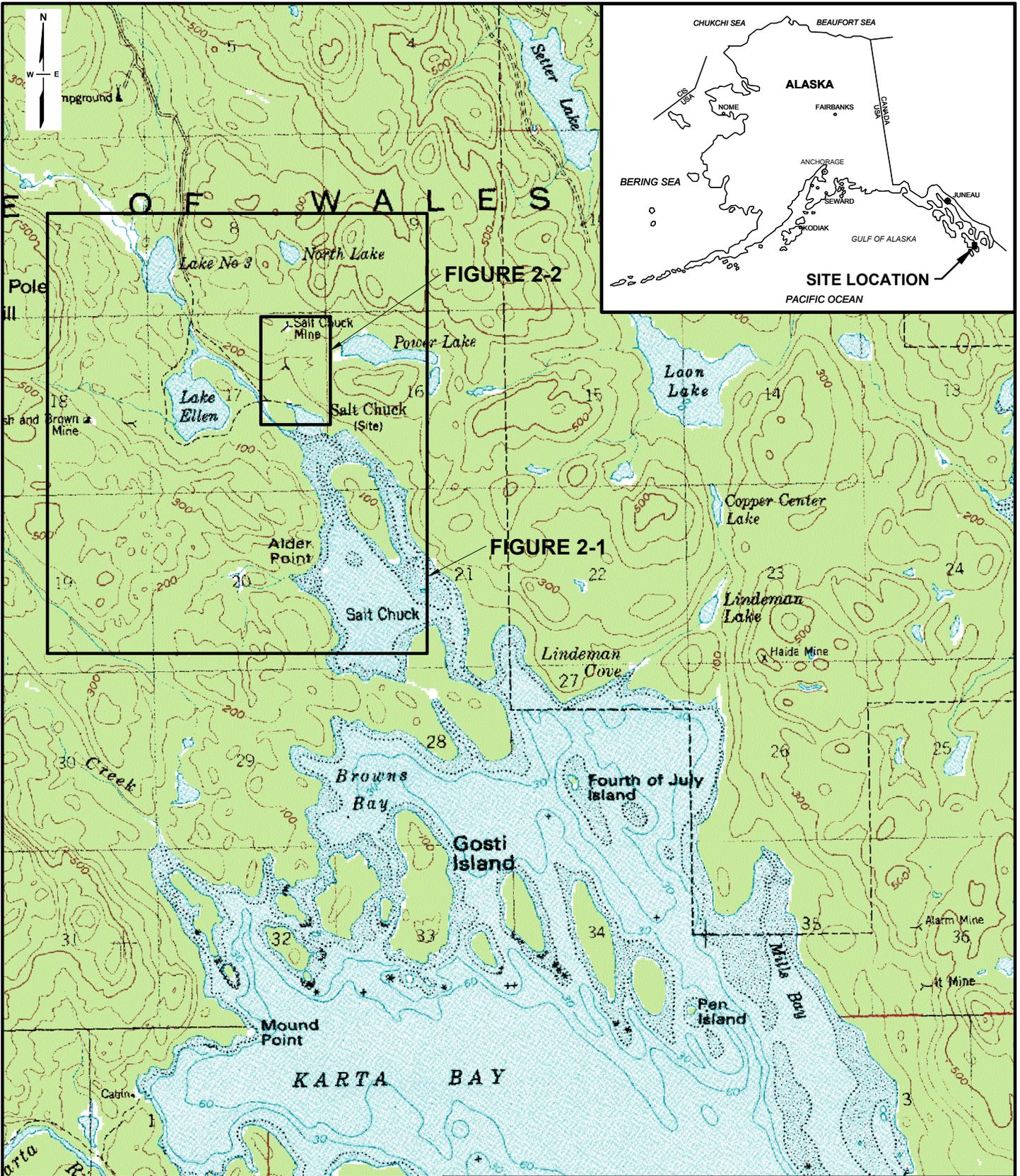


FIGURES



G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 2/3/2010 2:06:22 PM

USDA FOREST SERVICE - ALASKA REGION
FOCUSED UPLAND EE/CA

SITE LOCATION MAP

SALT CHUCK MINE
TONGASS NATIONAL FOREST, ALASKA

JOB NO: 26219785
DATE: DECEMBER 2009

DRAWN: ELK
FILE: 26219785 EECA 2009.DWG



FIGURE 1-1

SOURCE: USGS TOPOGRAPHIC MAP SERIES,
CRAIG (C-2) QUADRANGLE

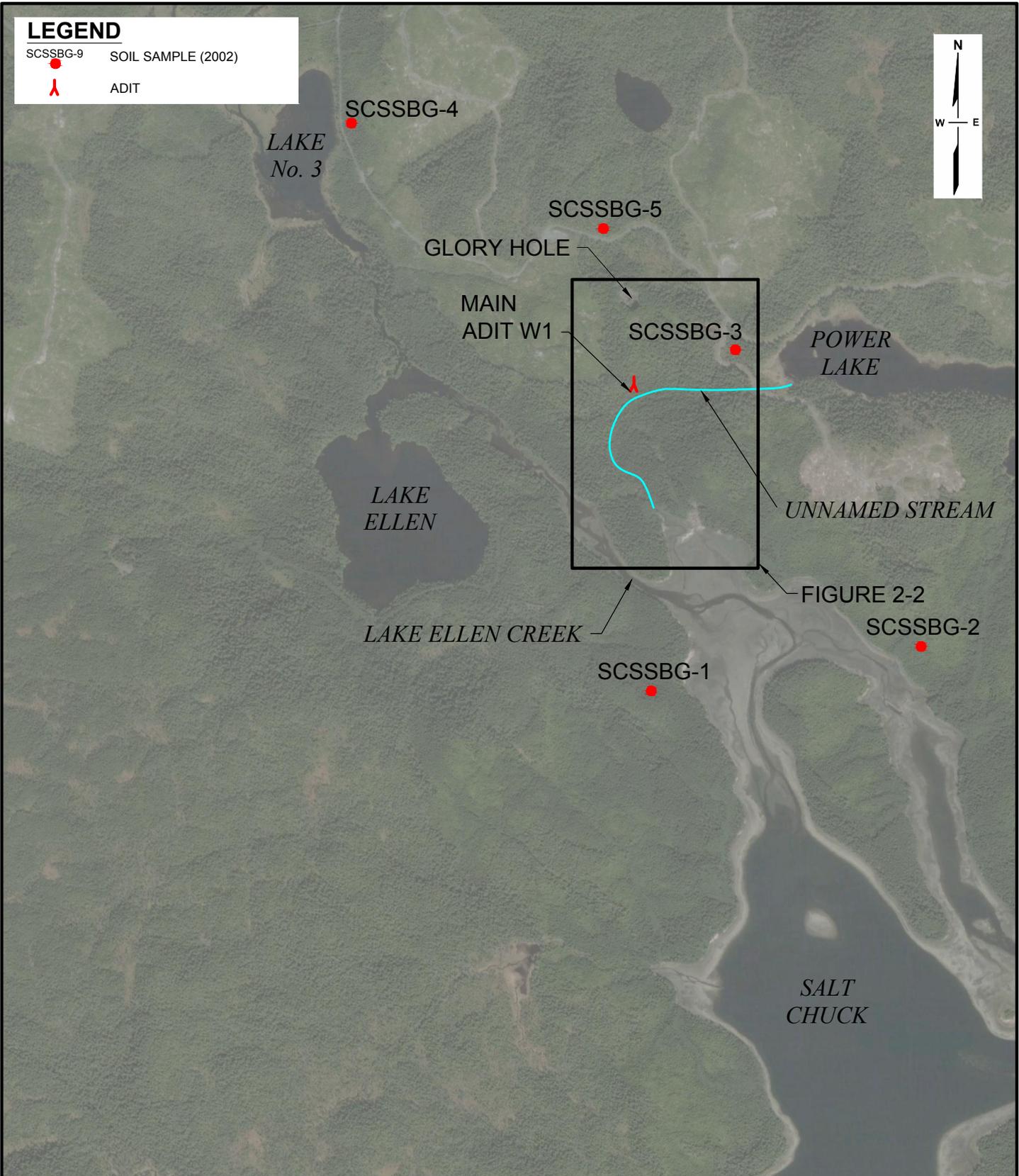
0 2,000 4,000 8,000



SCALE IN FEET

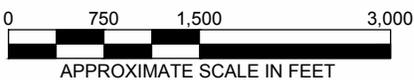
LEGEND

- SCSSBG-9 SOIL SAMPLE (2002)
- ADIT



G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 2/3/2010 2:06:22 PM

SOURCE:
 US FOREST SERVICE (1991b), US BLM (1998), URS (2003),
 GOOGLE EARTH (2009)



**USDA FOREST SERVICE - ALASKA REGION
 FOCUSED UPLAND EE/CA**

**BACKGROUND SOIL AND
 SURFACE WATER SAMPLE
 LOCATIONS**

**SALT CHUCK MINE
 TONGASS NATIONAL FOREST, ALASKA**

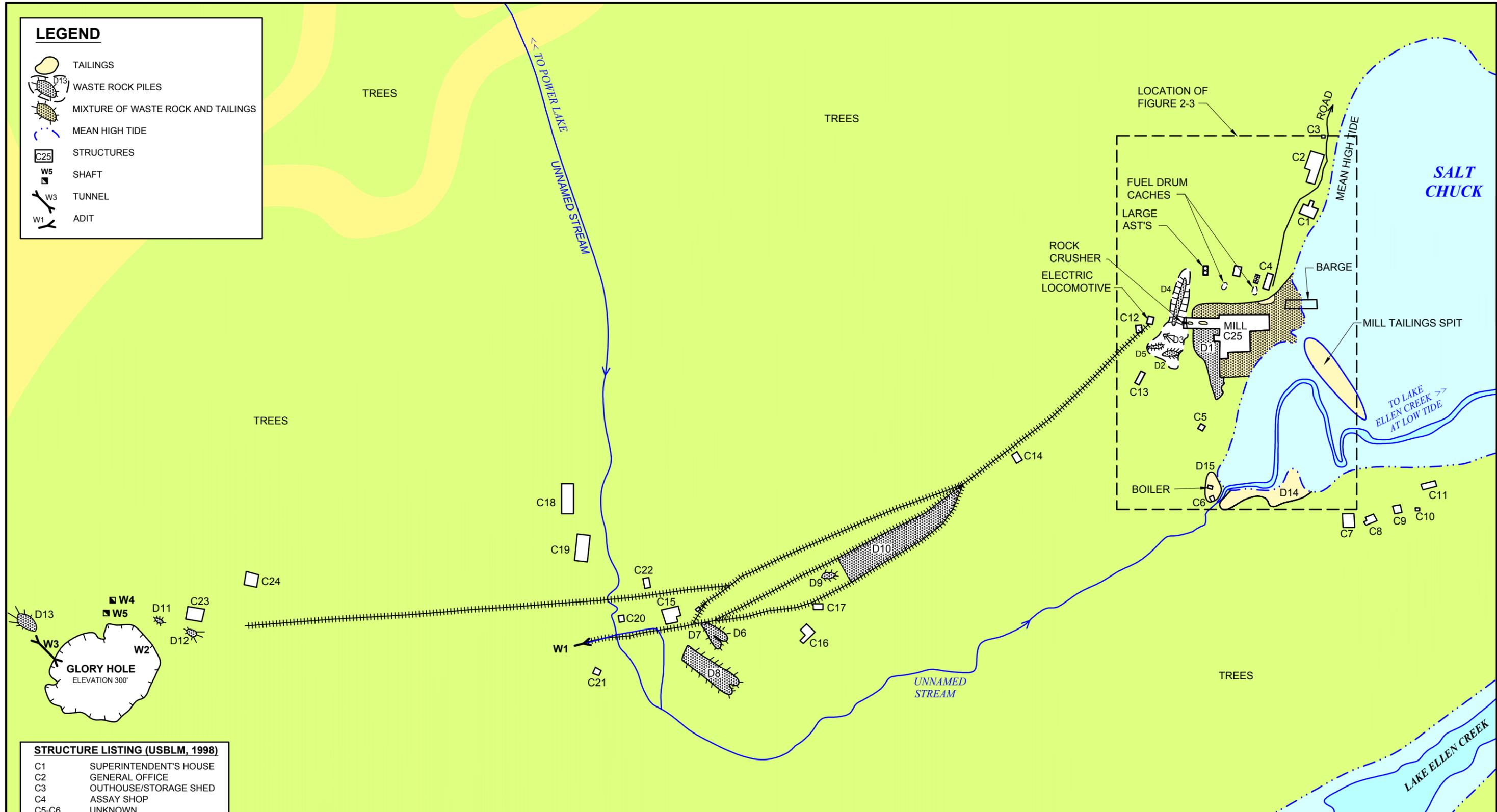
JOB NO: 26219785	DRAWN: ELK
DATE: DECEMBER 2009	FILE: 26219785 EECA 2009.DWG



FIGURE 2-1

LEGEND

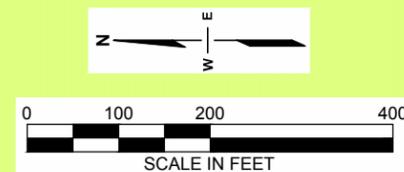
-  TAILINGS
-  WASTE ROCK PILES
-  MIXTURE OF WASTE ROCK AND TAILINGS
-  MEAN HIGH TIDE
-  STRUCTURES
-  SHAFT
-  TUNNEL
-  ADIT



STRUCTURE LISTING (USBLM, 1998)

- C1 SUPERINTENDENT'S HOUSE
- C2 GENERAL OFFICE
- C3 OUTHOUSE/STORAGE SHED
- C4 ASSAY SHOP
- C5-C6 UNKNOWN
- C7-C9 WORKER CABINS/MESSHALL
- C10 OUTHOUSE
- C11 CABIN
- C12 WINCH STATION
- C13 UNKNOWN
- C14 CABIN
- C15 MACHINE SHOP/BLACKSMITH
- C16-C19 WORKER CABINS/MESSHALL
- C20-C22 UNKNOWN
- C23 ROCK TRANSFER PLATFORM
- C24 DRILL PAD
- C25 MILL

SOURCE: USBLM (1998)



USDA FOREST SERVICE - ALASKA REGION
FOCUSED UPLAND EE/CA

**SITE LAYOUT OF
UPLAND AREAS**

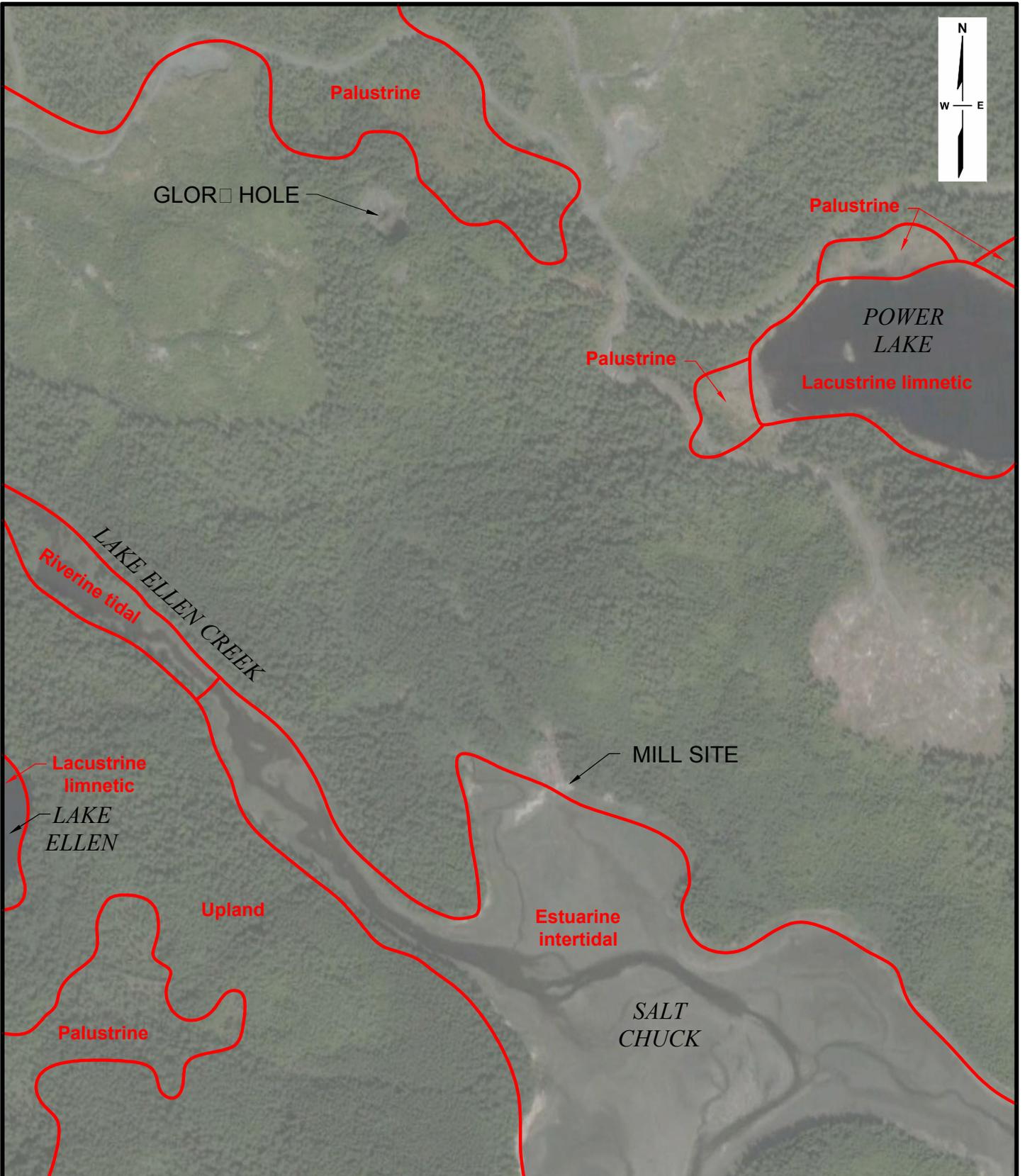
SALT CHUCK MINE
TONGASS NATIONAL FOREST, ALASKA

JOB NO: 26219785 DRAWN: ELK
DATE: DECEMBER 2009 FILE: 26219785 EECA 2009.DWG



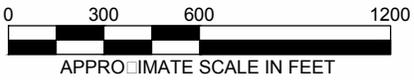
FIGURE 2-2

G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 2/3/2010 2:06:22 PM



G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 3/1/2010 1:44:52 PM

SOURCE:
GOOGLE EARTH (2009)



USDA FOREST SERVICE - ALASKA REGION
FOCUSED UPLAND EE/CA

INVENTORIED WETLANDS

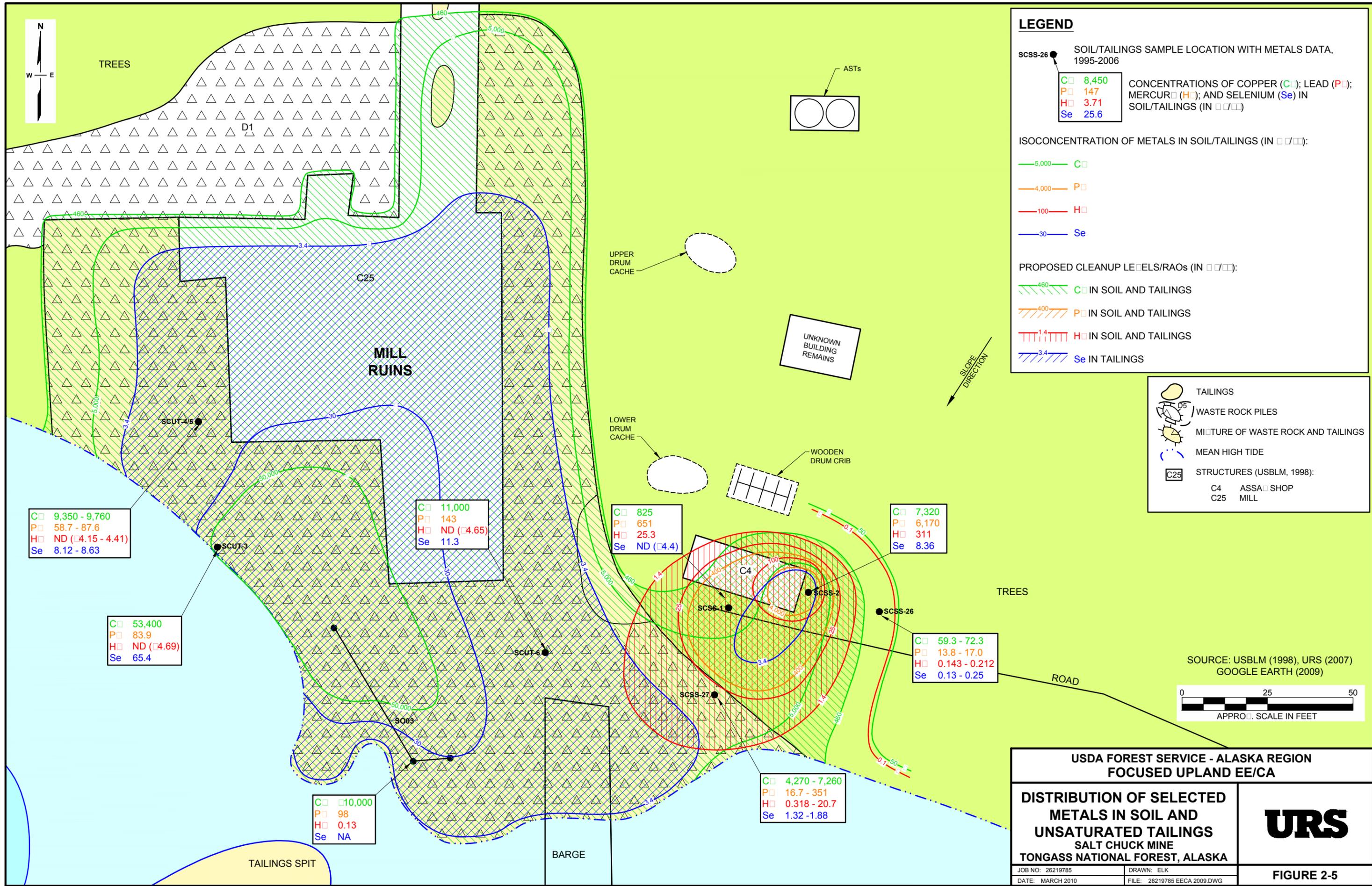
**SALT CHUCK MINE
TONGASS NATIONAL FOREST, ALASKA**

JOB NO: 26219785	DRAWN: ELK
DATE: MARCH 2010	FILE: 26219785 EECA 2009.DWG



FIGURE 2-4

G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 3/1/2010 1:44:52 PM



C 9,350 - 9,760
P 58.7 - 87.6
H ND (4.15 - 4.41)
Se 8.12 - 8.63

C 53,400
P 83.9
H ND (4.69)
Se 65.4

C 10,000
P 98
H 0.13
Se NA

C 11,000
P 143
H ND (4.65)
Se 11.3

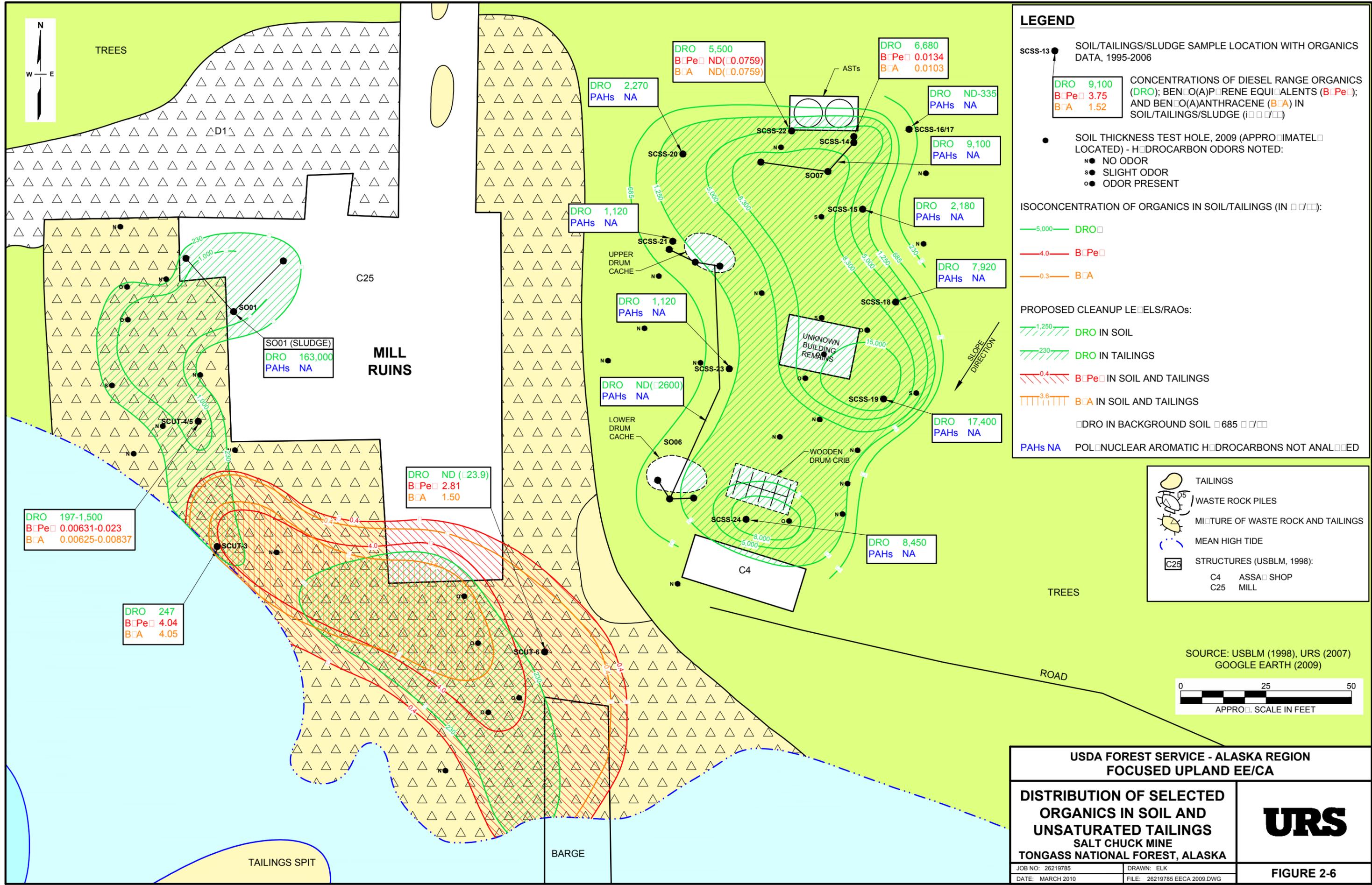
C 825
P 651
H 25.3
Se ND (4.4)

C 7,320
P 6,170
H 311
Se 8.36

C 59.3 - 72.3
P 13.8 - 17.0
H 0.143 - 0.212
Se 0.13 - 0.25

C 4,270 - 7,260
P 16.7 - 351
H 0.318 - 20.7
Se 1.32 - 1.88

G:\PROJECTS\26219785 SALT CHUCK MINE\2009\26219785 EECA 2009.DWG ; Revised 3/1/2010 1:44:52 PM



DRO 197-1,500
 BPe 0.00631-0.023
 BA 0.00625-0.00837

DRO 247
 BPe 4.04
 BA 4.05

SO01 (SLUDGE)
 DRO 163,000
 PAHs NA

DRO ND (23.9)
 BPe 2.81
 BA 1.50

DRO 2,270
 PAHs NA

DRO 1,120
 PAHs NA

DRO 1,120
 PAHs NA

DRO ND (2600)
 PAHs NA

DRO 5,500
 BPe ND (0.0759)
 BA ND (0.0759)

DRO 6,680
 BPe 0.0134
 BA 0.0103

DRO ND-335
 PAHs NA

DRO 9,100
 PAHs NA

DRO 2,180
 PAHs NA

DRO 7,920
 PAHs NA

DRO 17,400
 PAHs NA

DRO 8,450
 PAHs NA

TAILINGS SPIT

BARGE

ROAD

TREES

WOODEN DRUM CRIB

UNKNOWN BUILDING REMAINS

LOWER DRUM CACHE

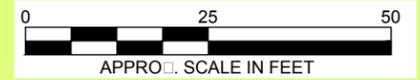
UPPER DRUM CACHE

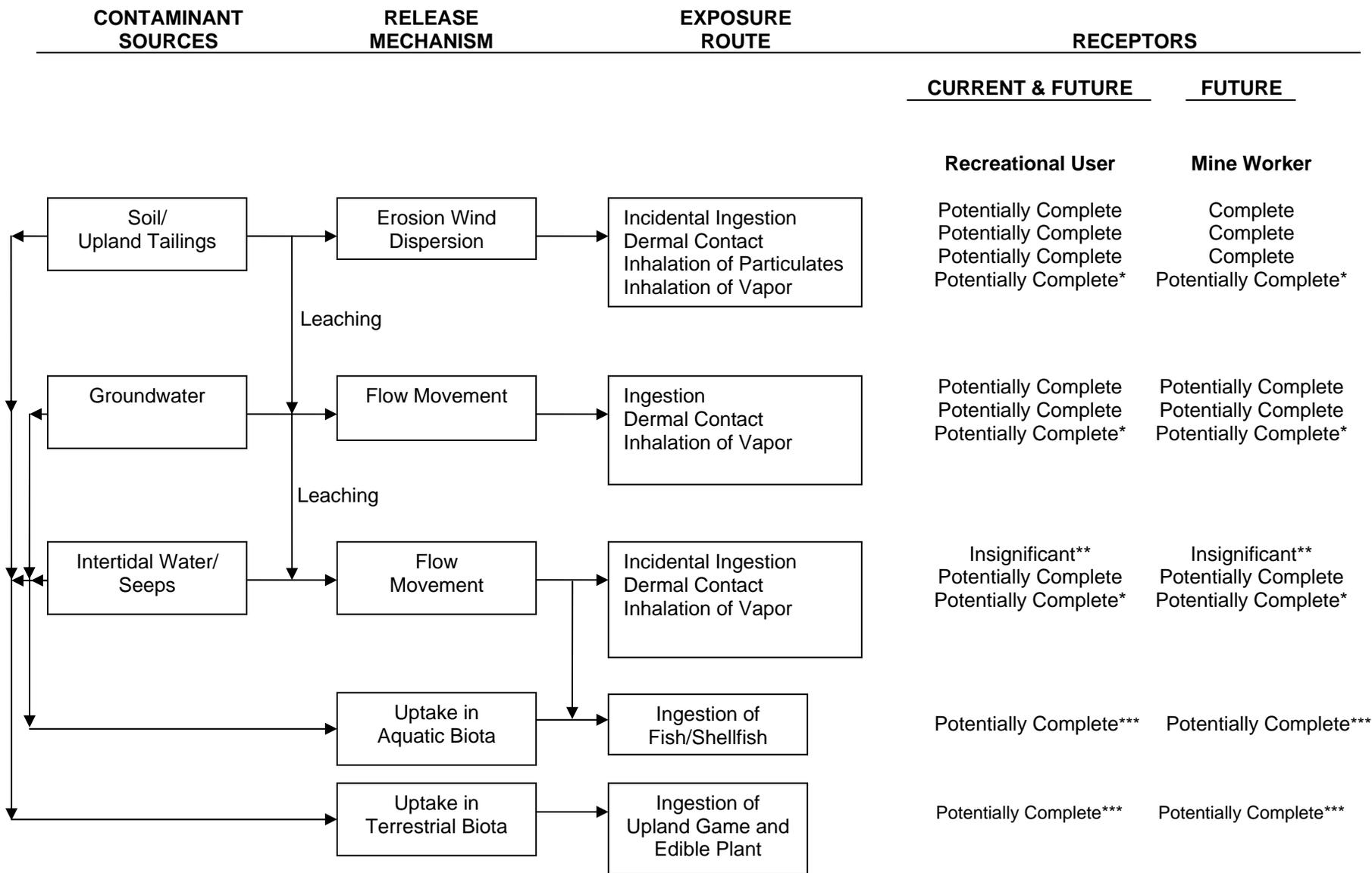
MILL RUINS

C25

C4

D1





NOTE: This EE/CA addresses uplands soil and tailings only.

*Possibly complete for mercury, all other inorganics nonvolatile.

**Intertidal water too saline for ingestion as drinking water.

***To be addressed as part of site-wide risk assessment, including subsistence use as appropriate.

HUMAN HEALTH CONCEPTUAL SITE MODEL

February 2010
26219785

Focused Upland EE/CA Salt Chuck Mine
Tongass National Forest, Alaska

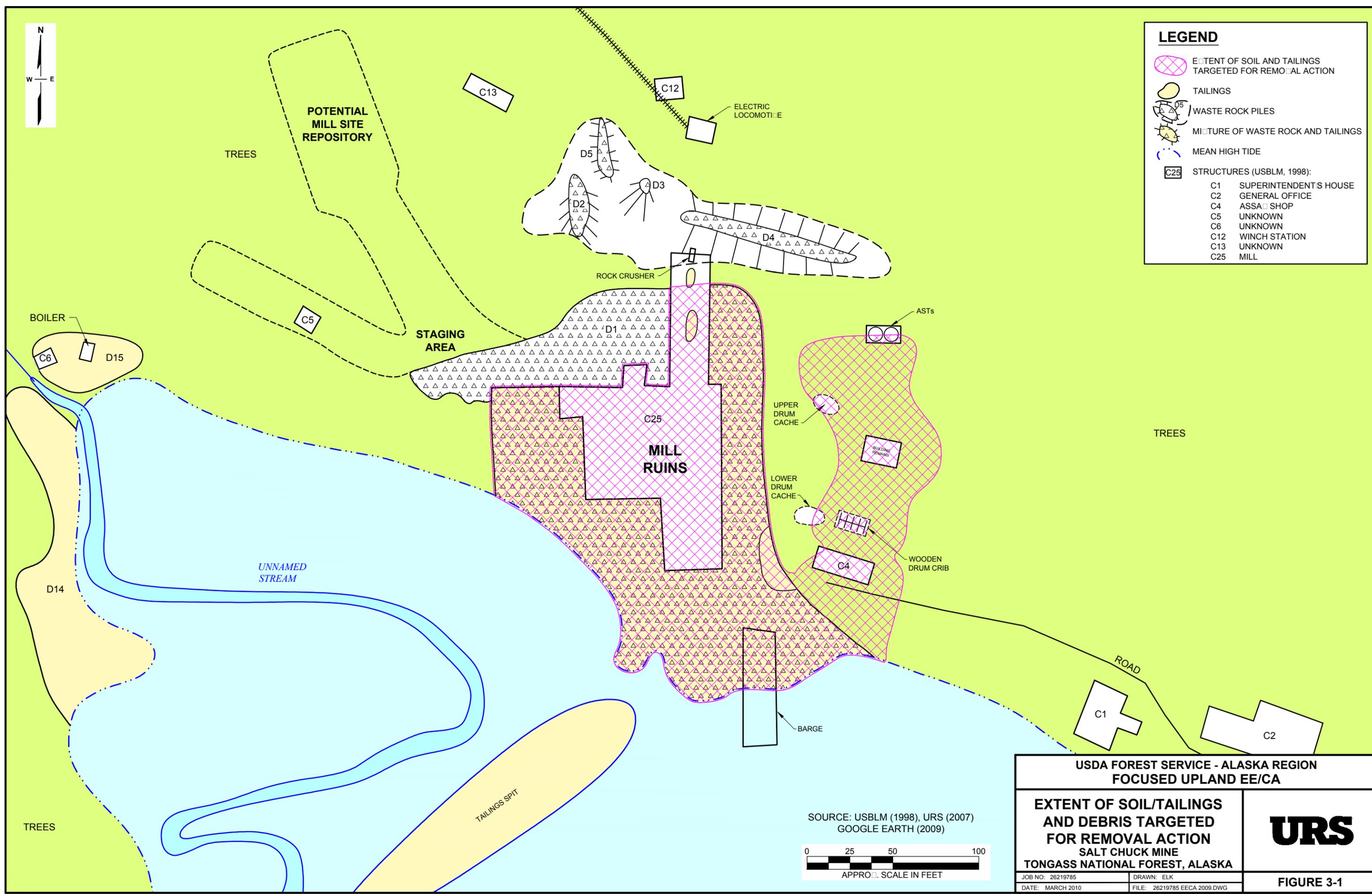


Figure 2-7

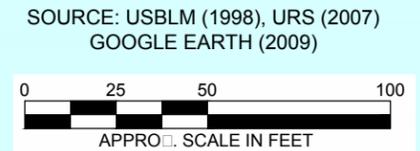


LEGEND

- EXTENT OF SOIL AND TAILINGS TARGETED FOR REMOVAL ACTION
- TAILINGS
- WASTE ROCK PILES
- MIXTURE OF WASTE ROCK AND TAILINGS
- MEAN HIGH TIDE
- STRUCTURES (USBLM, 1998):
 - C1 SUPERINTENDENT'S HOUSE
 - C2 GENERAL OFFICE
 - C4 ASSAULT SHOP
 - C5 UNKNOWN
 - C6 UNKNOWN
 - C12 WINCH STATION
 - C13 UNKNOWN
 - C25 MILL



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USDA FOREST SERVICE - ALASKA REGION FOCUSED UPLAND EE/CA	
EXTENT OF SOIL/TAILINGS AND DEBRIS TARGETED FOR REMOVAL ACTION SALT CHUCK MINE TONGASS NATIONAL FOREST, ALASKA	
JOB NO: 26219785	DRAWN: ELK
DATE: MARCH 2010	FILE: 26219785 EECA 2009.DWG
URS	
FIGURE 3-1	



BORROW PIT WEST
(ALT. 2 PRIMARY)



BORROW PIT EAST
(ALT. 2 SECONDARY)



GLORY HOLE



POWER
LAKE

LAKE ELLEN CREEK

MILL SITE REPOSITORY
(ALT. 1)



MILL SITE

SALT
CHUCK

LAKE
ELLEN

USDA FOREST SERVICE - ALASKA REGION
FOCUSED UPLAND EE/CA

REPOSITORY SITES

URS

SALT CHUCK MINE
TONGASS NATIONAL FOREST, ALASKA

JOB NO: 26219785

DRAWN: ELK

DATE: DECEMBER 2009

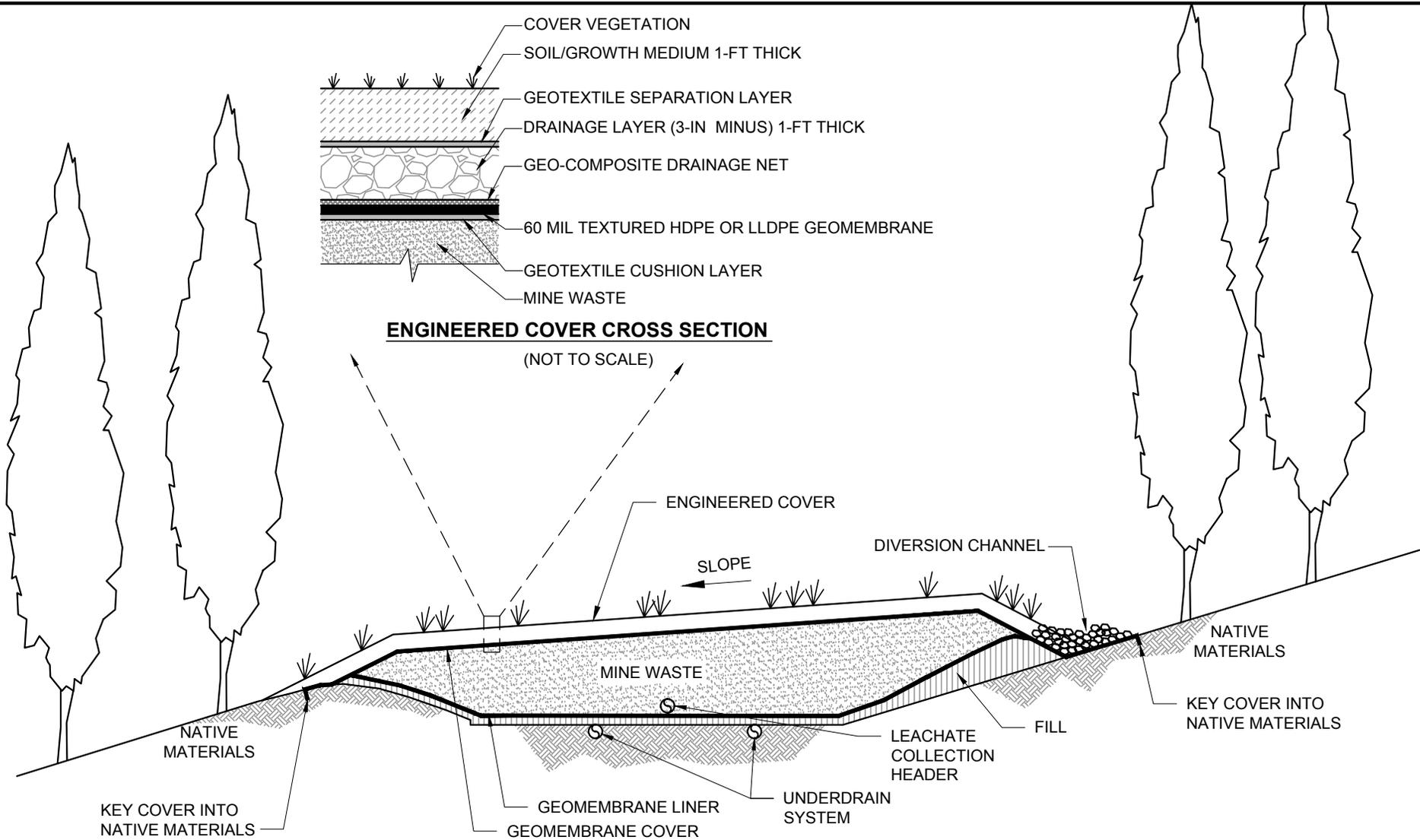
FILE: 26219785 EECA 2009.DWG

FIGURE 4-1

SOURCE:
GOOGLE EARTH (2009)

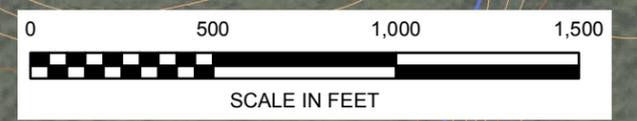
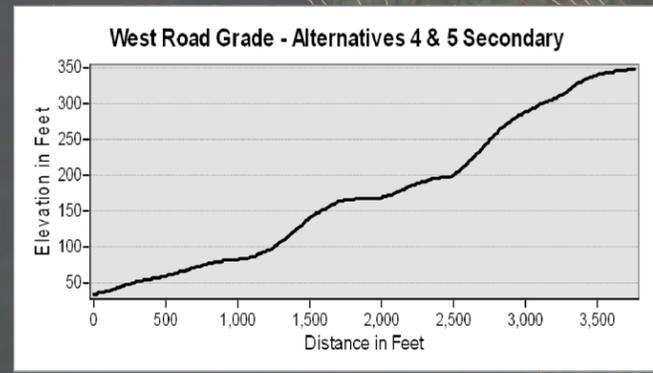
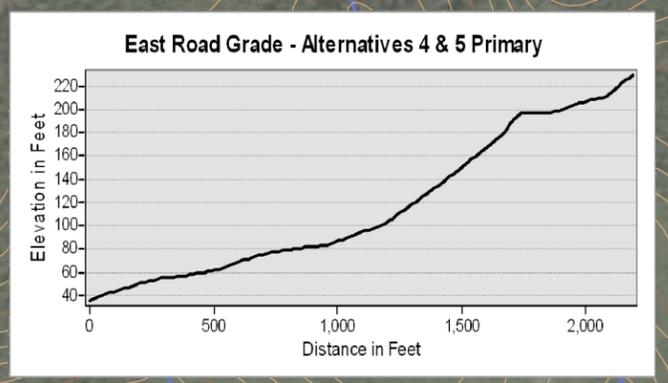
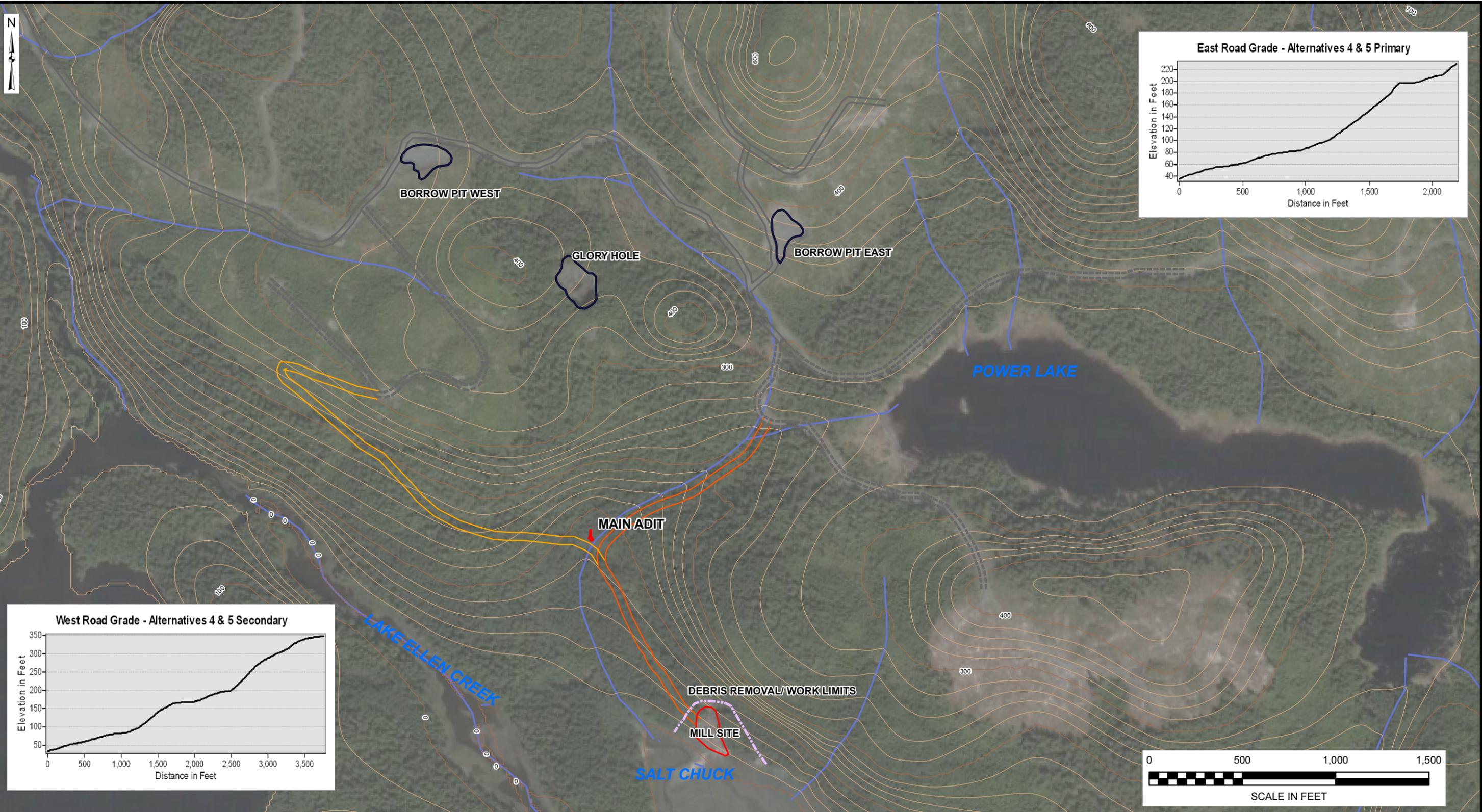


APPROXIMATE SCALE IN FEET



USDA FOREST SERVICE - ALASKA REGION FOCUSED UPLAND EE/CA	
ENGINEERING CONCEPTS REPOSITORY DESIGN	
SALT CHUCK MINE TONGASS NATIONAL FOREST, ALASKA	
JOB NO: 26219785	DRAWN: ELK
DATE: DECEMBER 2009	FILE: 26219785 EECA 2009.DWG
URS	
FIGURE 4-2	

M:\Projects\Federal\26219785 - Salt Chuck Mine EE-CA - 2006-2009\Fig4-3\SaltChuckMine_RoadProposal_Fig4-3_AKStandard.mxd



- PROPOSED ROAD ALIGNMENT:(PRIMARY)
- PROPOSED ROAD ALIGNMENT:(SECONDARY)
- ROAD NO LONGER MAINTAINED
- EXISTING ROAD
- 100 FT INDEX
- 20 FT INTERMEDIATE
- STREAMS
- ADIT

Note 1: Intermediate contours were derived from USGS 100 ft contours.
 Note 2: Sources Original Roads, Streams and Water Body data from the USGS - these have been altered slightly to reflect on the ground knowledge.

**USDA FOREST SERVICE - ALASKA REGION
FOCUSED UPLAND EE/CA**

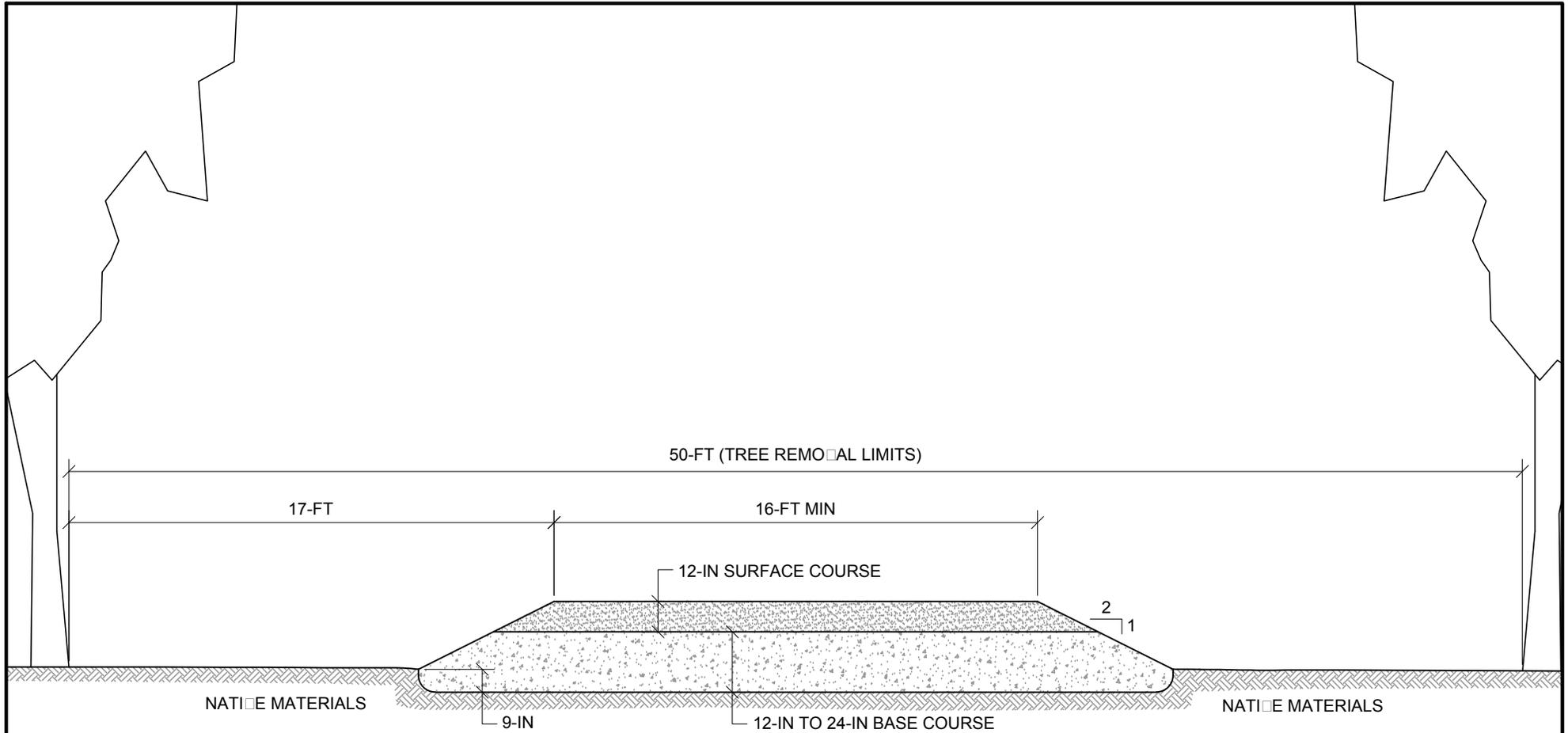
**POTENTIAL
ROAD
ALIGNMENT**

**SALT CHUCK MINE
TONGASS NATIONAL FOREST, ALASKA**

URS

JOB NO: 26219785	DRAWN: CDK
DATE: FEB 2010	FILE: SEE PATH

FIGURE 4-3



NOTE:
 BASE COURSE MATERIAL SHALL BE FLOATED IN FOLLOWING CLEARING AND GRUBBING. THICKNESS WILL VARY BASED ON NATIVE MATERIALS ENCOUNTERED.

CONCEPTUAL ROAD CROSS SECTION

NOT TO SCALE

USDA FOREST SERVICE - ALASKA REGION FOCUSED UPLAND EE/CA	
ENGINEERING CONCEPTS ROAD DESIGN	
SALT CHUCK MINE TONGASS NATIONAL FOREST, ALASKA	
JOB NO: 26219785	DRAWN: ELK
DATE: MARCH 2010	FILE: 26219785 EECA 2009.DWG
FIGURE 4-4	