SOURCE:
U.S.G.S. 1:250,000 Map Series, 1953

0 10 20
SCALE IN MILES

N
W E

CHUGACHMIUT
WATERSHED ANALYSIS & WATER QUALITY EVALUATION

SITE LOCATION MAP

CHENEGA BAY AND TATITLEK, ALASKA

JOB NO. 74-38396100.00	DRAWN: ECA
DATE: FEBRUARY 2002	FILE: SITE LOC 74-38396100.00.DWG

URS

FIGURE 1

LEGEND

CHB-01 — Stream cross-section and sample location

Watershed boundary

Stream

SOURCE:
AeroMap U.S., Inc.
Date of Photography: June 23, 1996

0 500 1,000 2,000

APPROXIMATE SCALE IN FEET

CHUGACHMIUT
WATERSHED ANALYSIS & WATER QUALITY EVALUATION

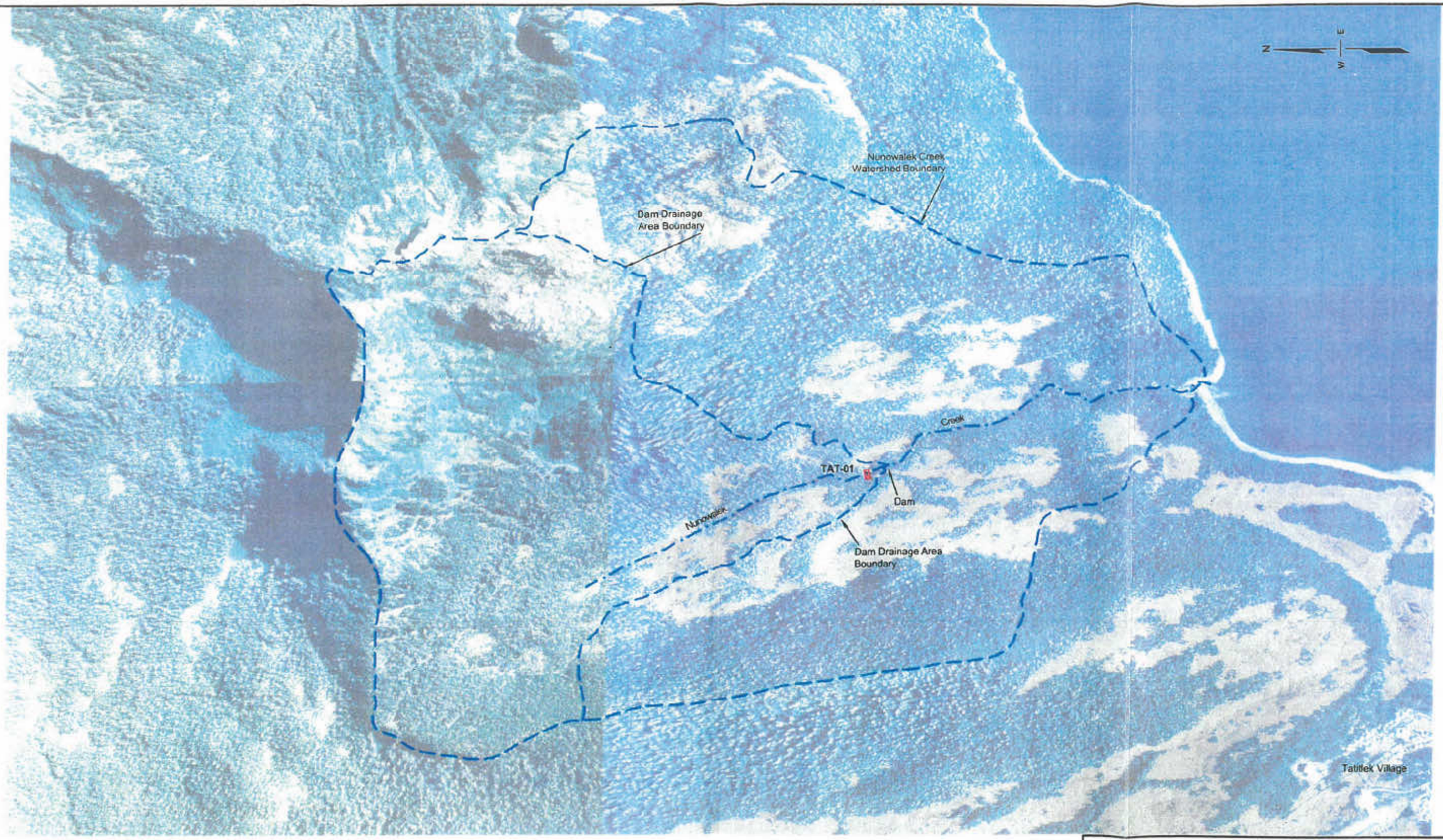
AERIAL PHOTOGRAPH
ANDERSON CREEK WATERSHED

CHENEGA BAY, ALASKA

URS

JOB NO: 74-38396100.00	DRAWN: ECA
DATE: FEBRUARY 2002	FILE: 74-38396100.00 AND.DWG

FIGURE 2



LEGEND

- Watershed boundary
- Stream
- TAT-01 Stream cross-section and sample location

SOURCE:
AeroMap U.S., Inc.
Date of Photography: August 15, 1995 and October 3, 1995

0 400 800 1,600
APPROXIMATE SCALE IN FEET

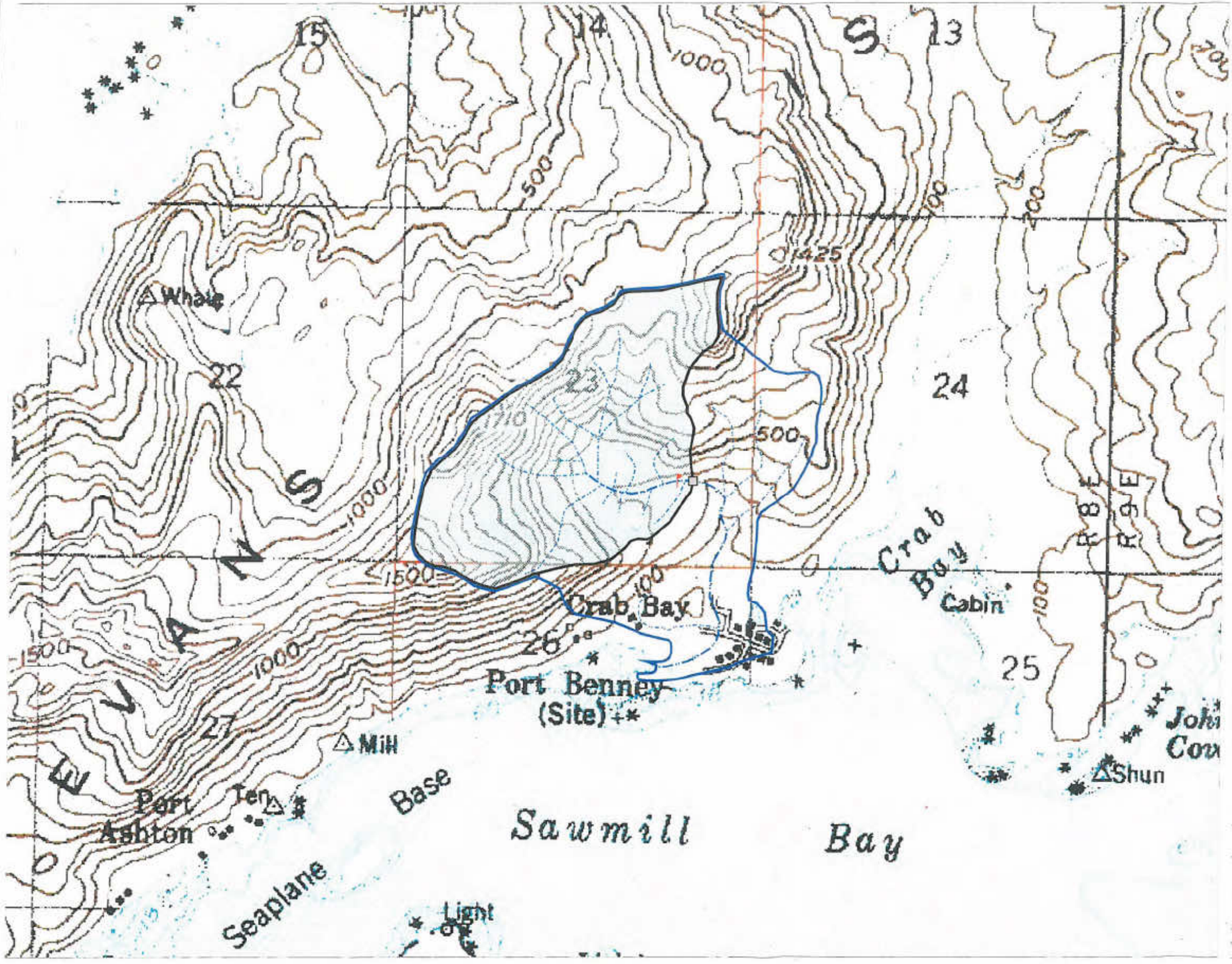
CHUGACHMIUT
WATERSHED ANALYSIS & WATER QUALITY EVALUATION

AERIAL PHOTO MOSAIC
NUNOWALAK CREEK WATERSHED
TATITLEK, ALASKA

URS

JOB NO: 76-38396.00.00	DRAWN: ECA
DATE: FEBRUARY 2002	FILE: TATITLEK WATERSHED.DWG

FIGURE 3



Legend

- Anderson Creek Watershed Boundary
- Dam Drainage Area
- Anderson Creek
- Tributary Stream Channel
- Ponds
- Public Water Supply Dam
- CHB-01 Stream cross-section and water sample location

N

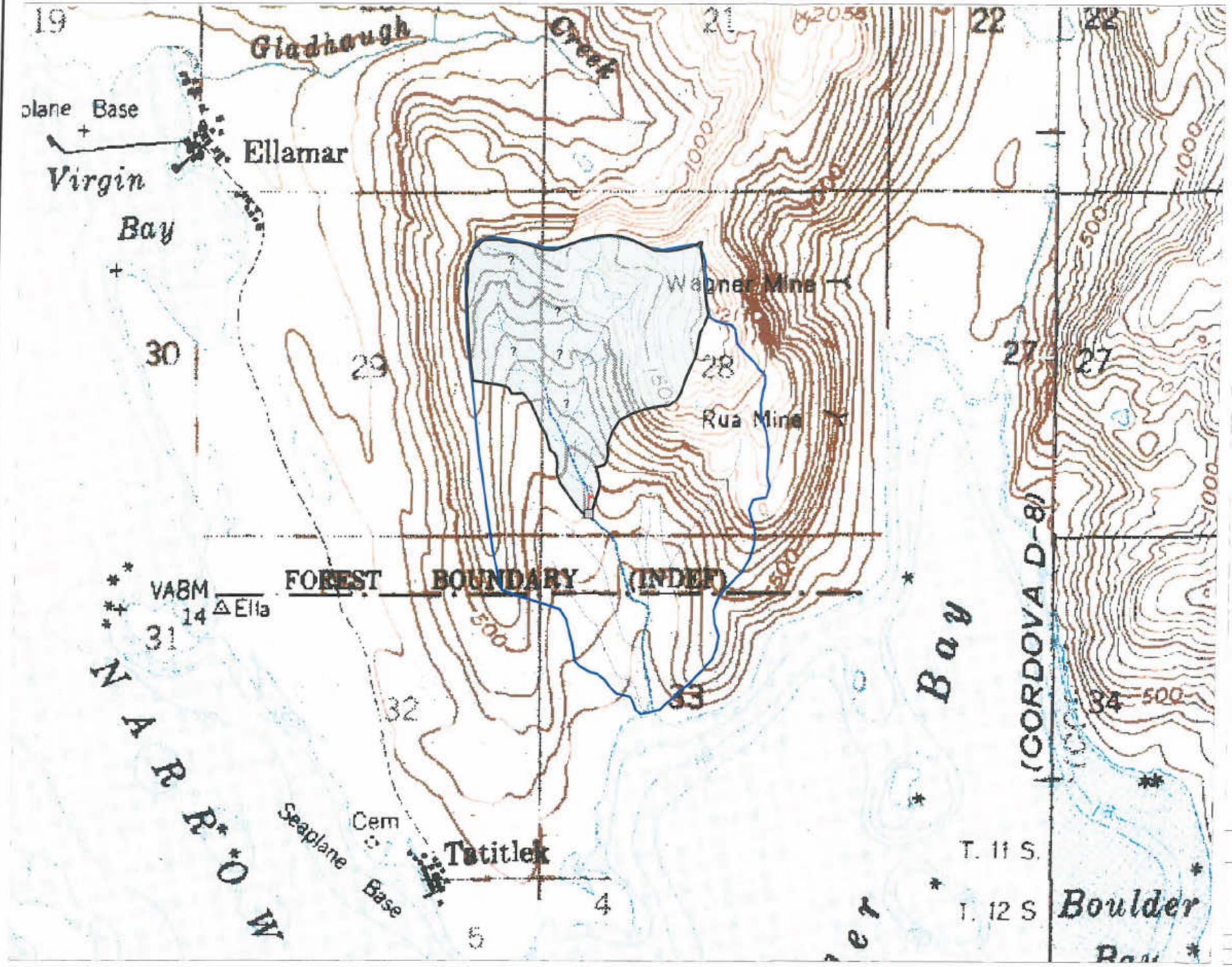
Chugachmiut
Watershed Analysis and Water Quality Evaluation

Topography, Streams and Watershed Boundaries Chenega Bay, Alaska

URS

JOB NO: 74-38398100.00	DRAWN BY: TEK
DATE: February 27, 2001	FILE:

FIGURE 4



Legend

- Overall Watershed Boundary
- Dam Drainage Area
- Public Water Supply Creek (Unnamed)
- Tributary Stream Channel
- Ponds
- Public Water Supply Dam
- TAT-01 Stream cross-section and water sample location

N

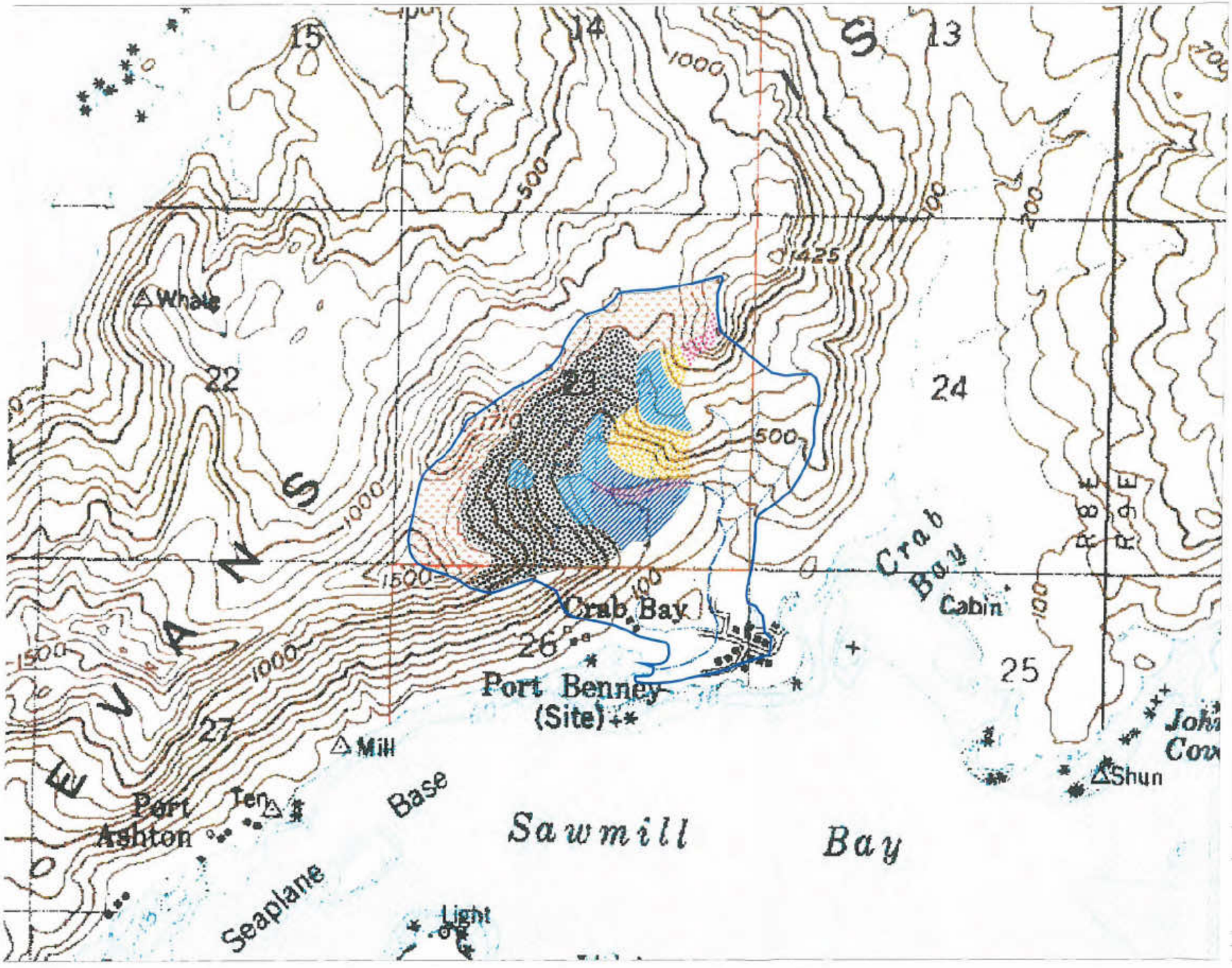
Chugachmiut
Watershed Analysis and Water Quality Evaluation

Topography, Streams and Watershed Boundaries Tatitlek, Alaska

URS

JOB NO. 74-38396100.00	DRAWN BY: TEK
DATE: February 27, 2001	FILE:

FIGURE 5



Legend
Soil Types[1]

- AH/RO+Cr
  Alpine highlands with rock outcrops and Cryumbrepts
- GS-32/Fr+Cr
  Nonforested upper glacial slopes with Fragiorthods and Cryothods
- GS-33/KnF
  Forested lower glacial slopes with Kniklik gravelly silty loam
- GS-36/Cr
  Broken glacial slopes, forested and nonforested/ disturbed, with muck or loam over weathered bedrock
- ISL-101/Ub
  Nonforested ice-scoured lands with Unakwik peat
- ISL-102/LuD
  Forested ice-scoured lands with LaTouche-Unakwik Complex soils
- ISL-102/LaF
  Forested ice-scoured lands with LaTouche gravelly loam

1500 0 1500 3000 Feet

N

1. Additional details provided in Table 3.

Data Sources:
Base Map Data USGS Quad Sheet A-3 (1951, Orthophotorevision 1983)
Soil polygons, watershed boundary created by URS Corporation
URS Corporation does not guarantee the accuracy or validity of the data provided.
Projection: UTM, Zone 6
Datum: NAD27

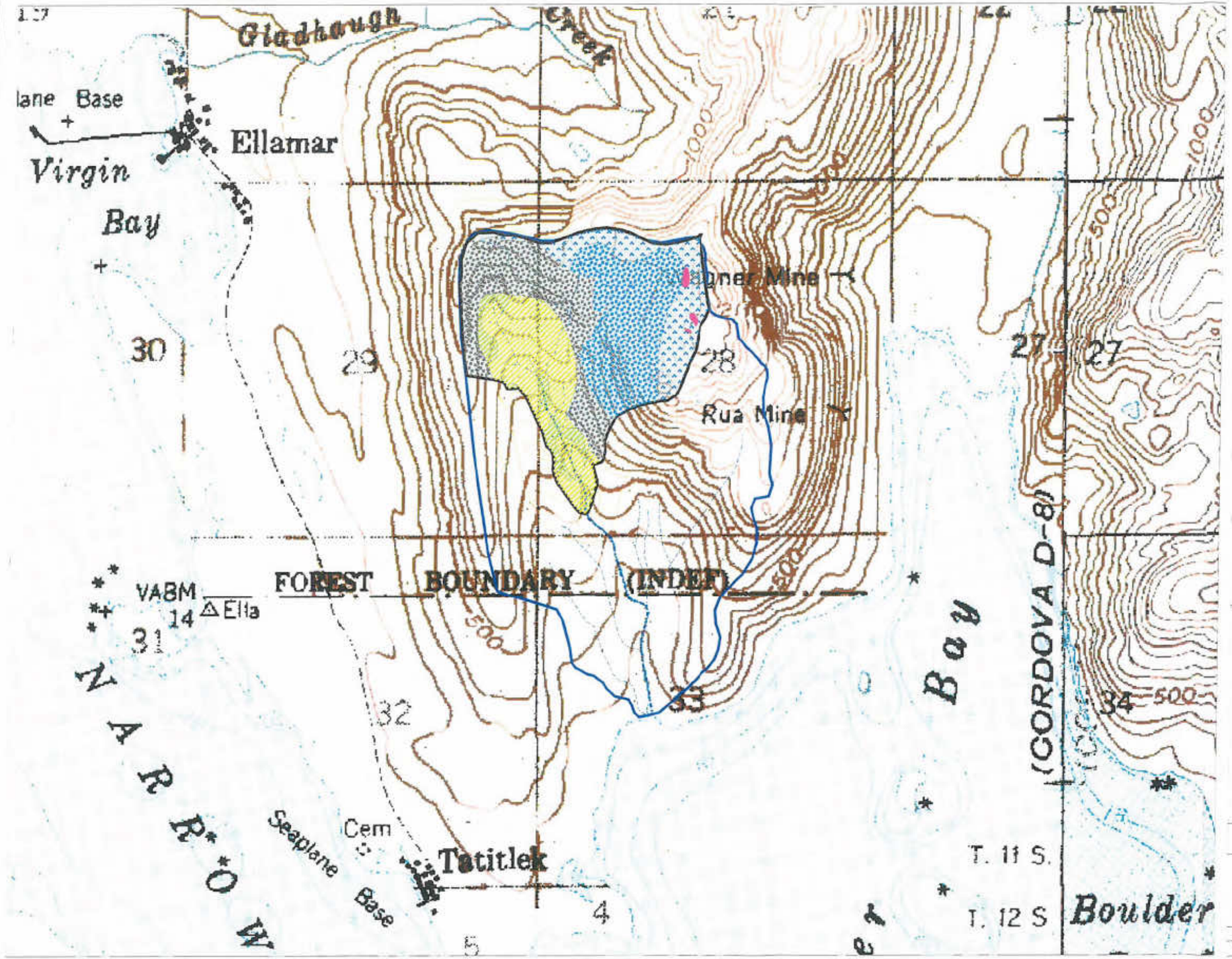
Chugachmiut
Watershed Analysis and Water Quality Evaluation

Soils Map of Chenega Bay Dam Drainage Area

URS

JOB NO: 74-38396100.00	DRAWN BY: TEK
DATE: February 27, 2001	FILE:

FIGURE 6



Legend

Soil Types[1]

AH/R
Alpine highlands with rock outcrops and shallow soils

AH/Tu
Alpine talus deposits

GS/BF26
Snowslide areas and forested upper glacial slopes with Shakan-McGilvery Complex soils

GS/F12
Forested mid-lower glacial slopes with Kupreanof-McGilvery Complex soils

ISL/MF2
Upper valley muskegs and low ridges

ISL/F45
Forested lower sideslopes and ridges with gravelly silt loam and muck

1. Additional details provided in Table 4.

N

Chugachmiut
Watershed Analysis and Water Quality Evaluation

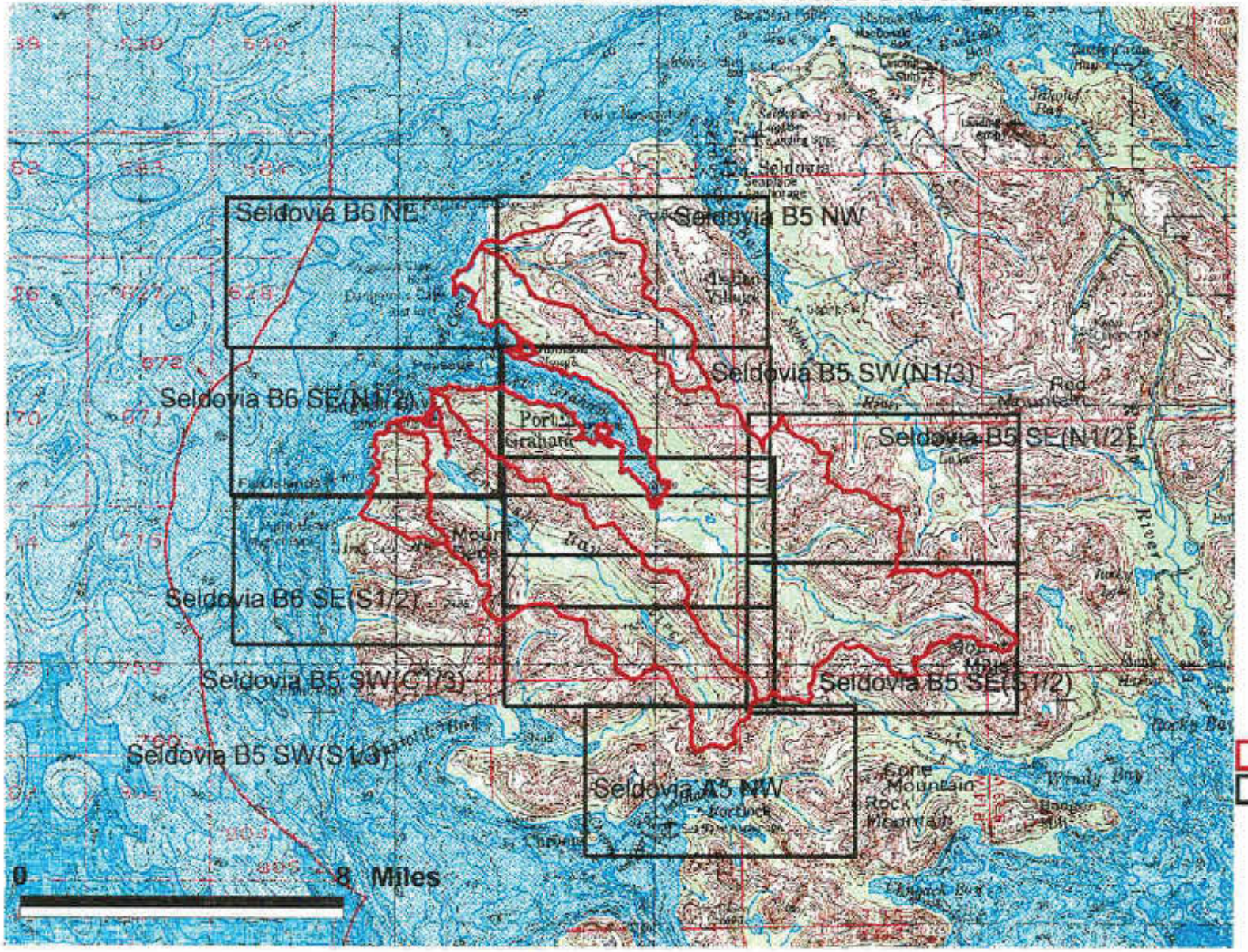
Soil Map of Taitlek Dam Drainage Area

URS

JOB NO: 74-38396100.00 | DRAWN BY: TEK
DATE: February 27, 2001 | FILE:

FIGURE 7

Figure D-1
Map Key Showing Subarea Boundaries
Port Graham and Nanwalek Watersheds



Subarea Map Seldovia B6 NE : Watershed Boundaries and Streams

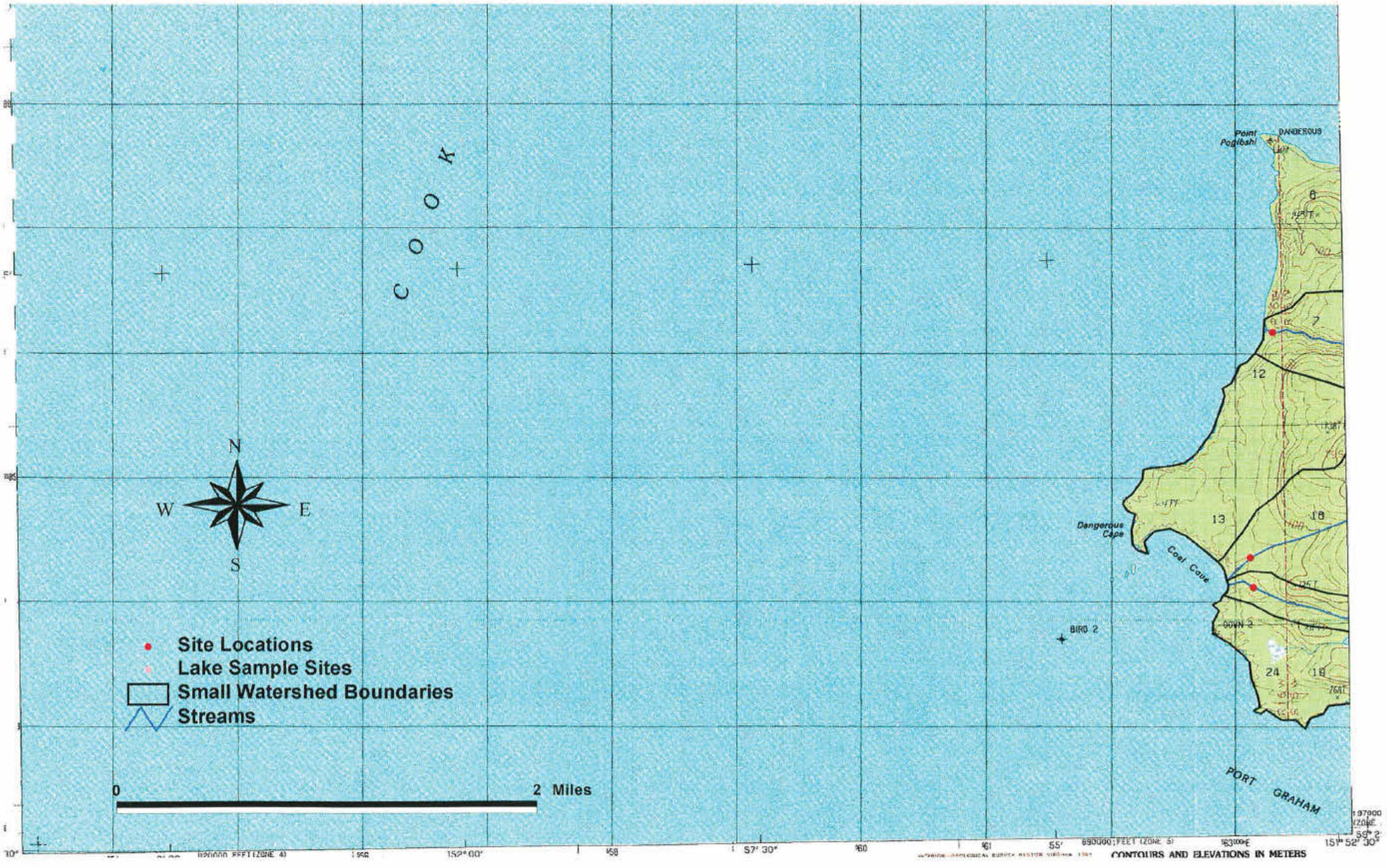


Figure D-2

Subarea Map Seldovia B6 SE (N1/2): Watershed Boundaries and Streams

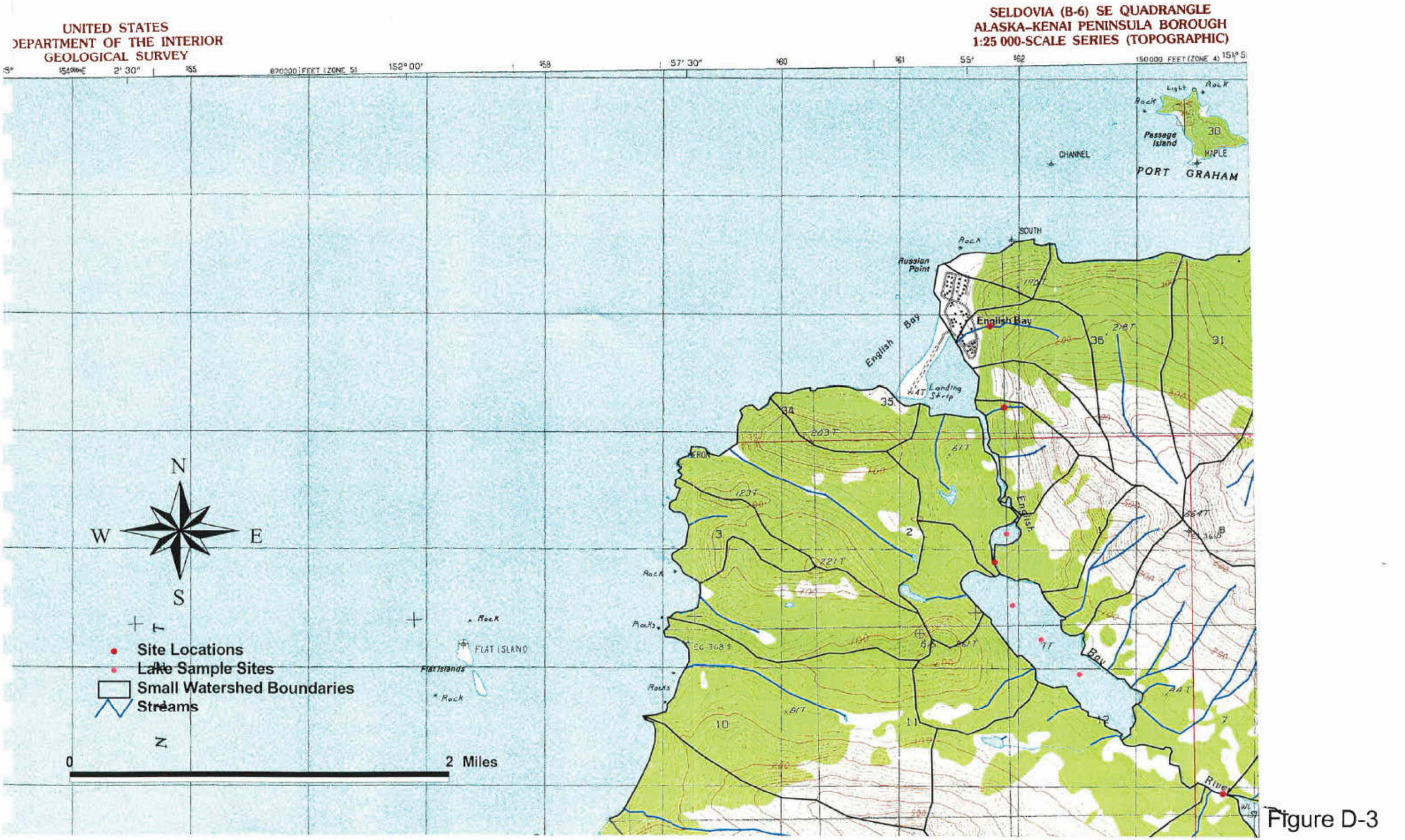


Figure D-3

Subarea Map Seldovia B6 SE (S1/2): Watershed Boundaries and Streams

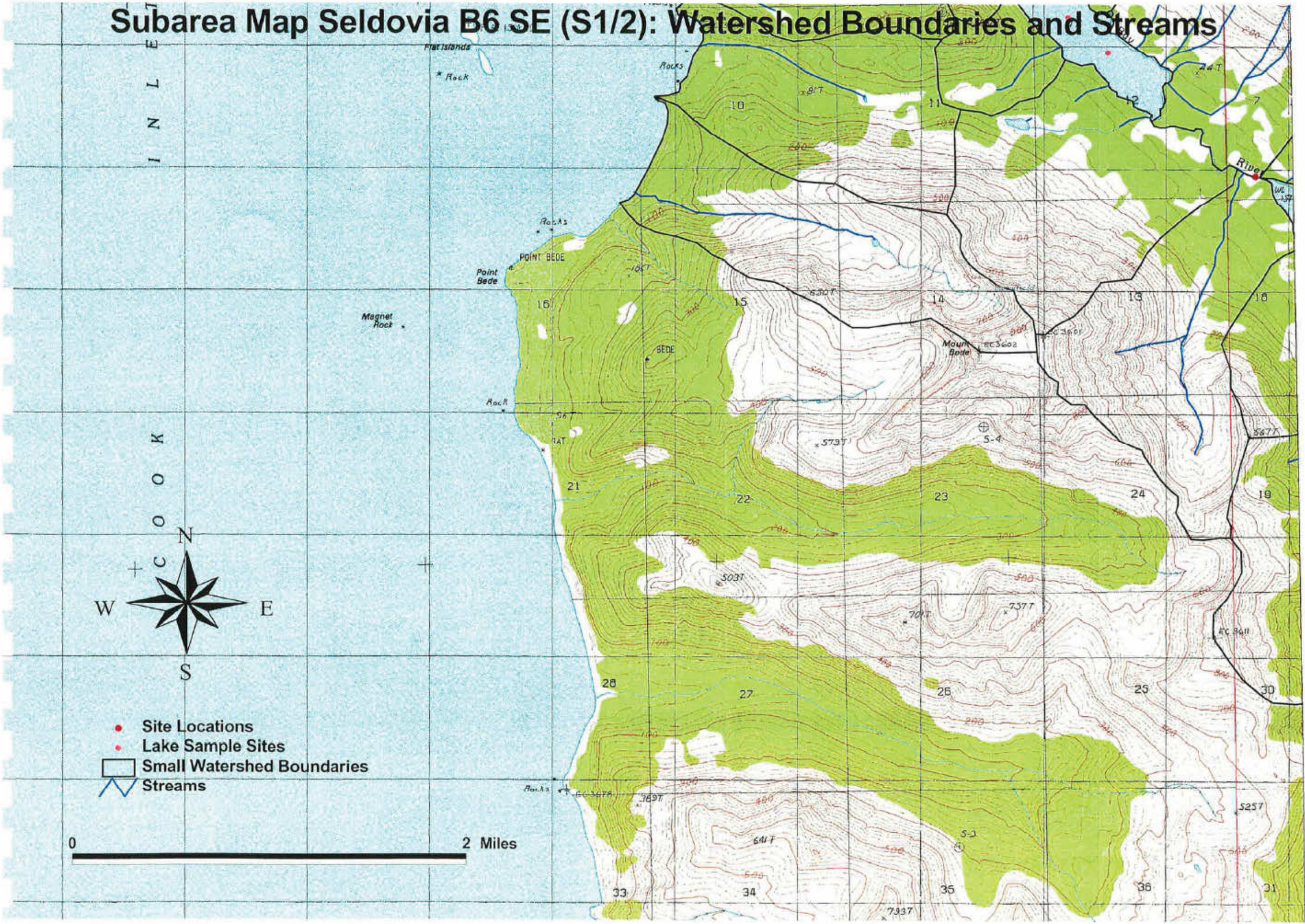


Figure D-4

Subarea Map Seldovia B5 NW : Watershed Boundaries and Streams

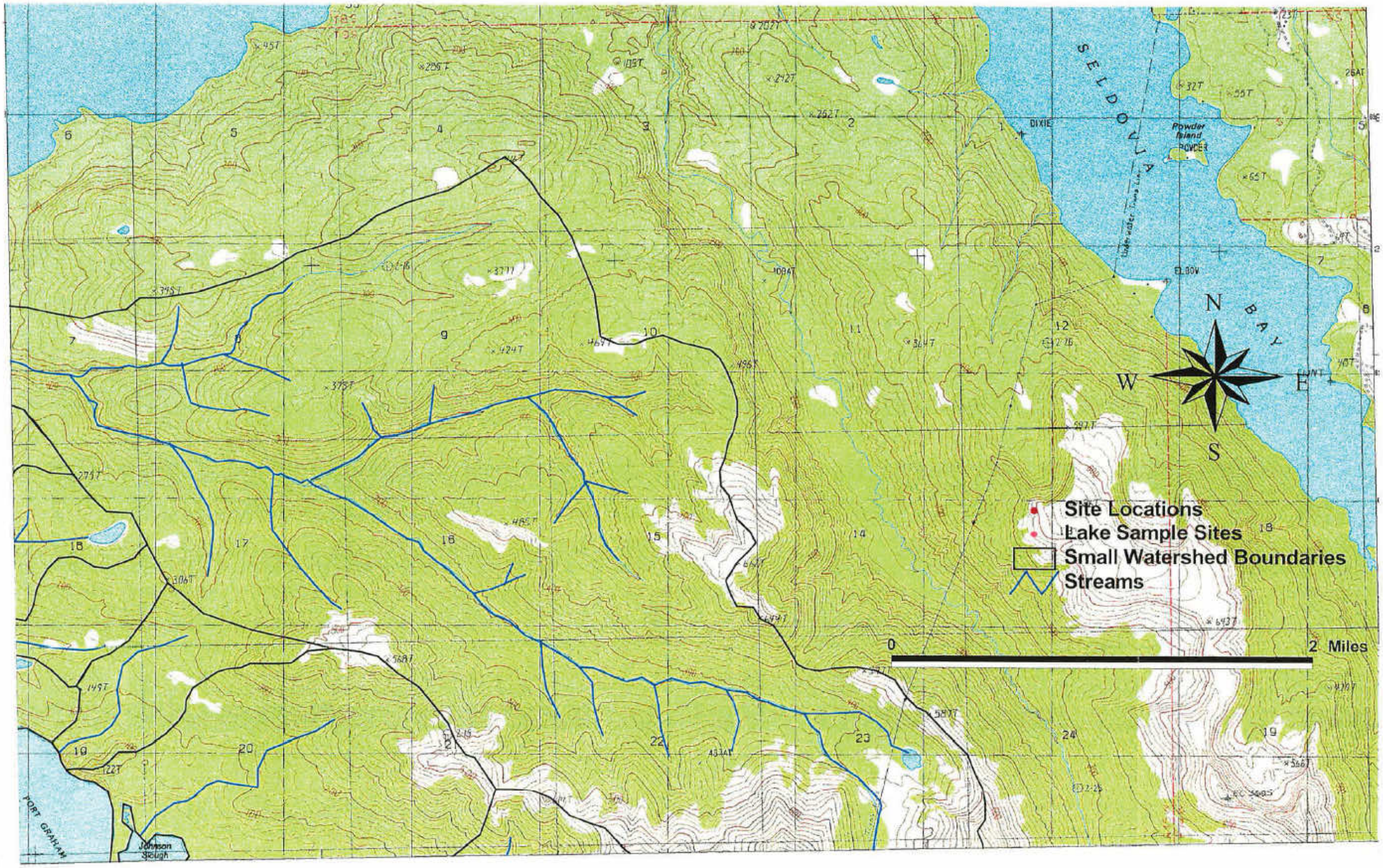


Figure D-5

Subarea Map Seldovia B5 SW (N1/3) : Watershed Boundaries and Streams

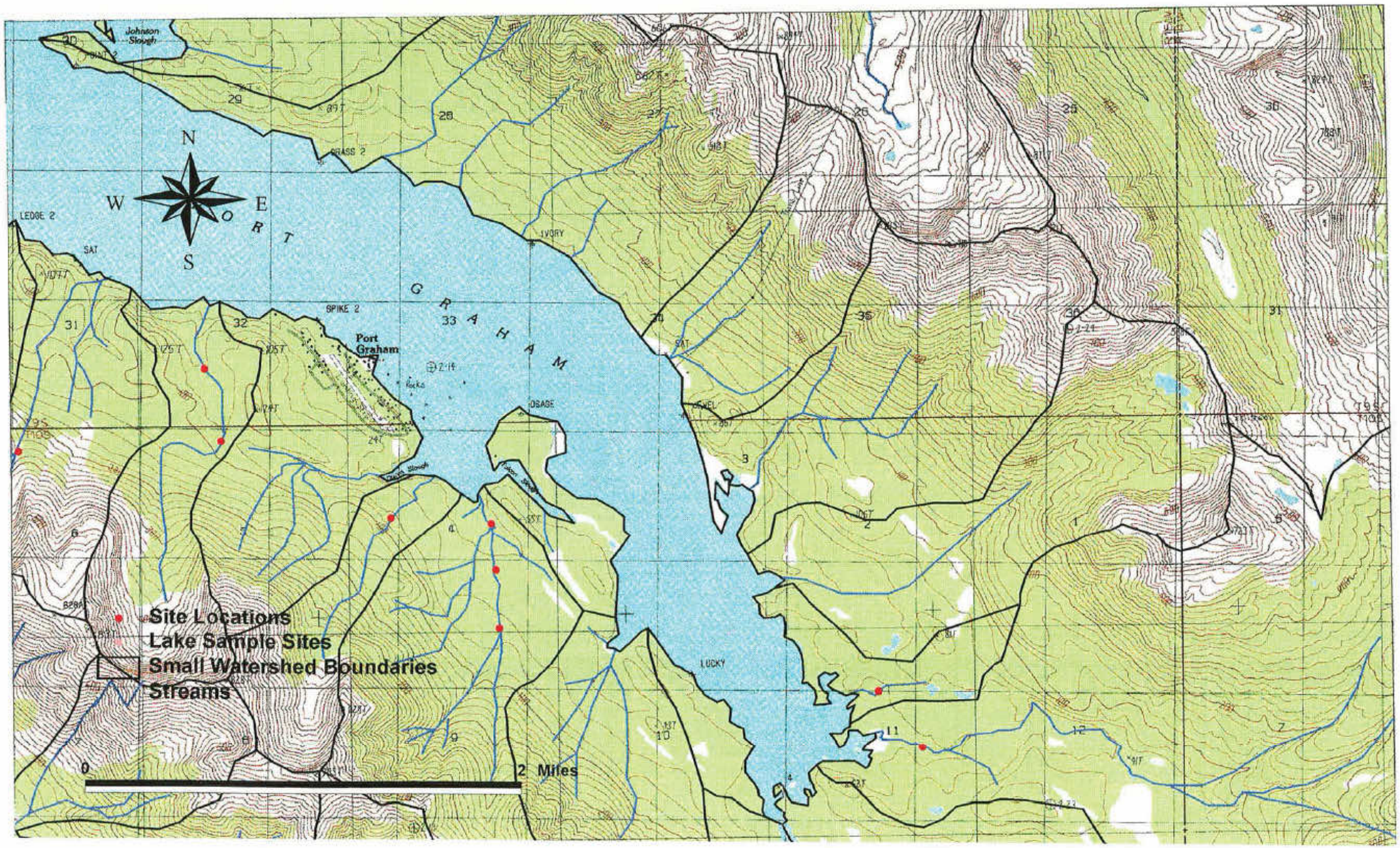


Figure D-6

Subarea Map Seldovia B5 SW(C1/3) : Watershed Boundaries and Streams

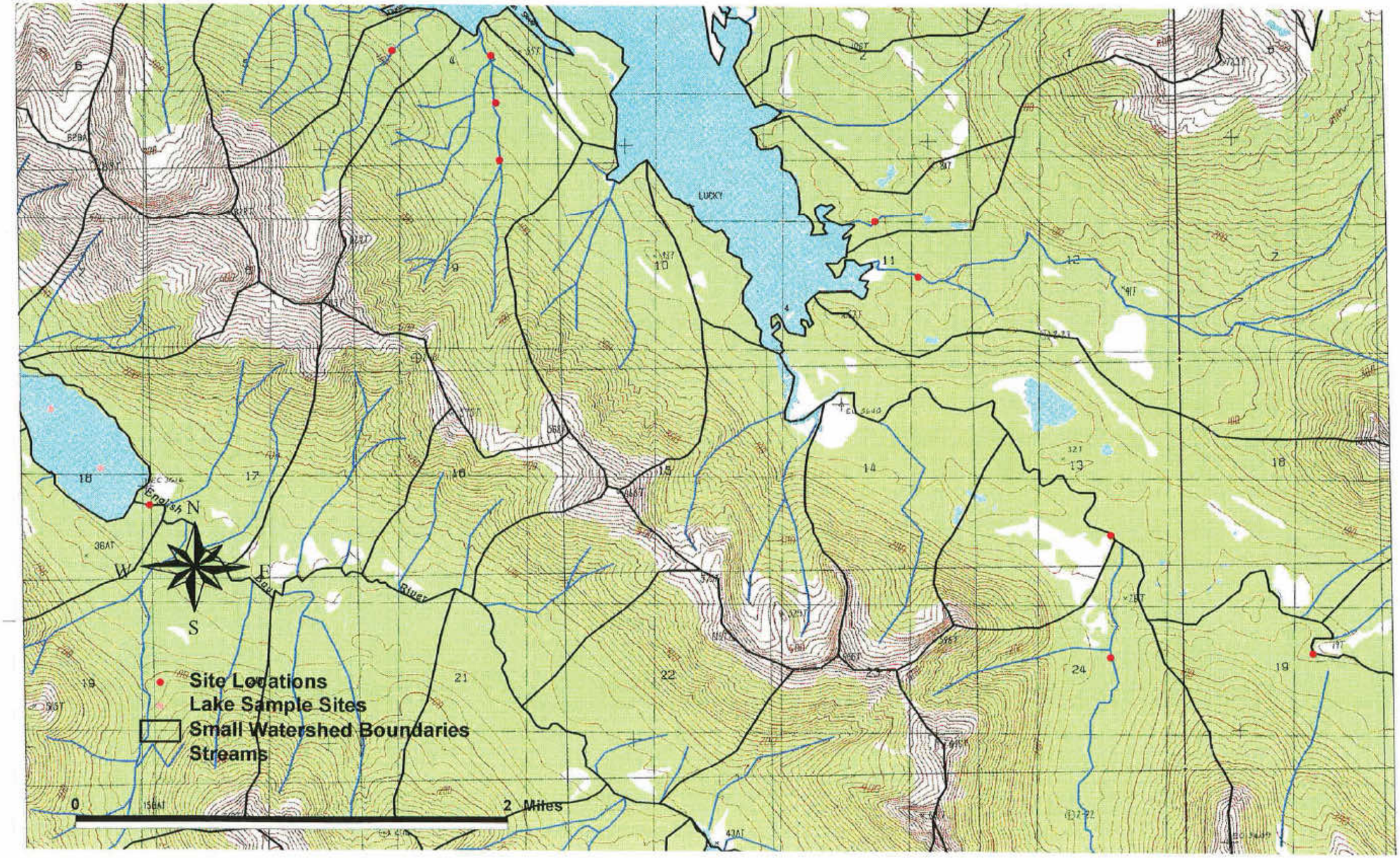


Figure D-7

Subarea Map Seldovia B5 SW (S1/3) : Watershed Boundaries and Streams

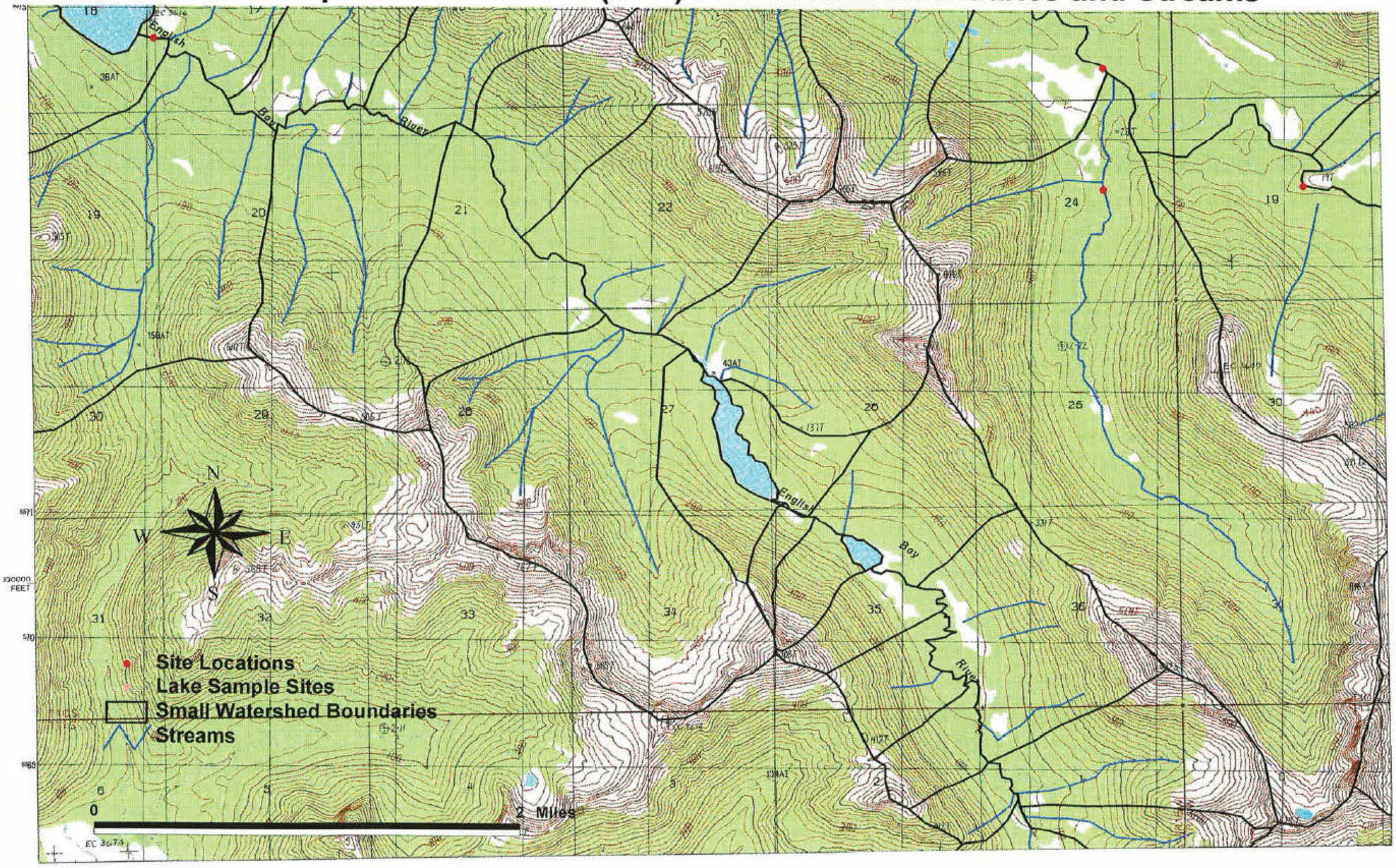


Figure D-8

Subarea Map Seldovia A5 NW : Watershed Boundaries and Streams

ITERIOR
EY

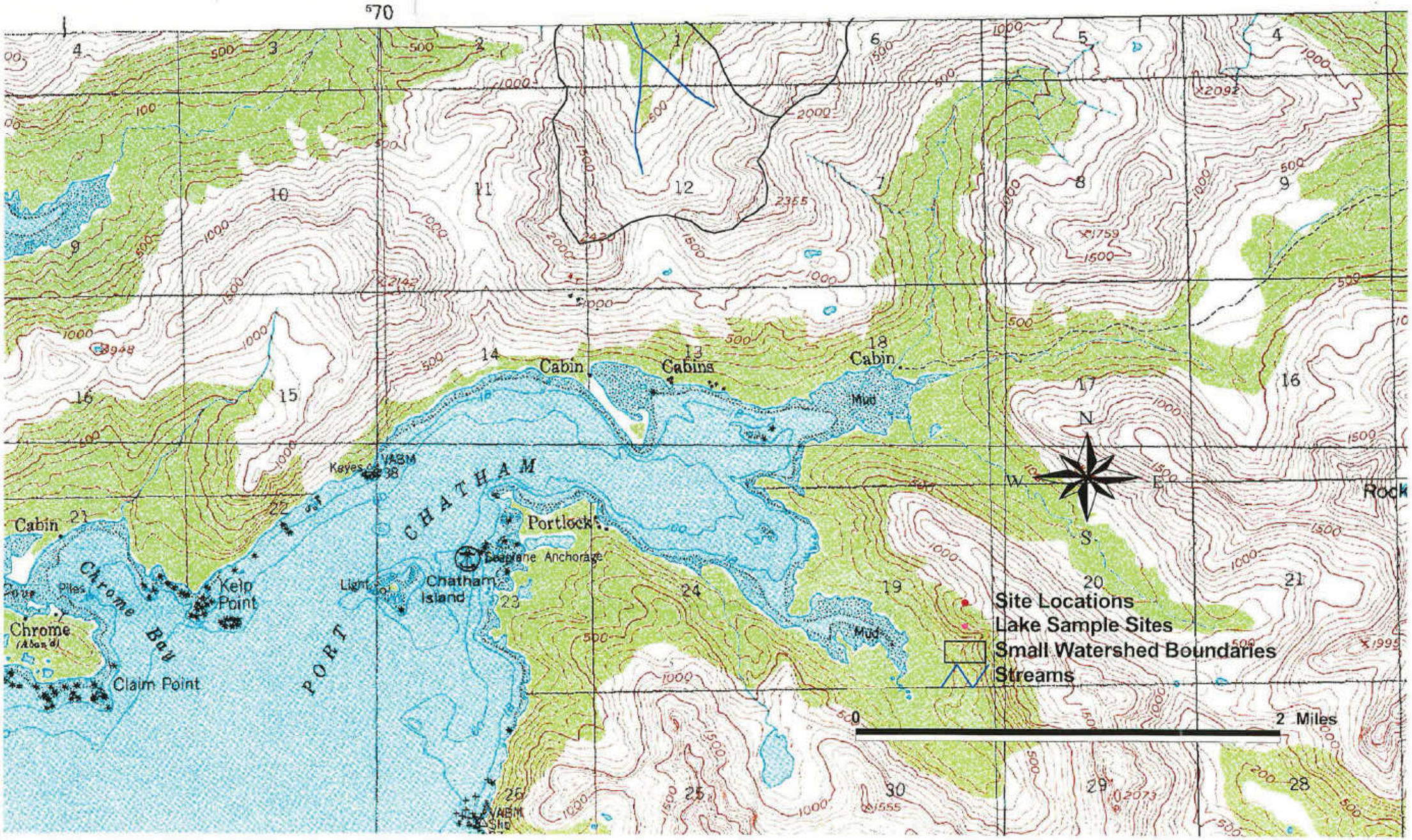


Figure D-9

Subarea Map Seldovia B5 SE (N1/2): Watershed Boundaries and Streams

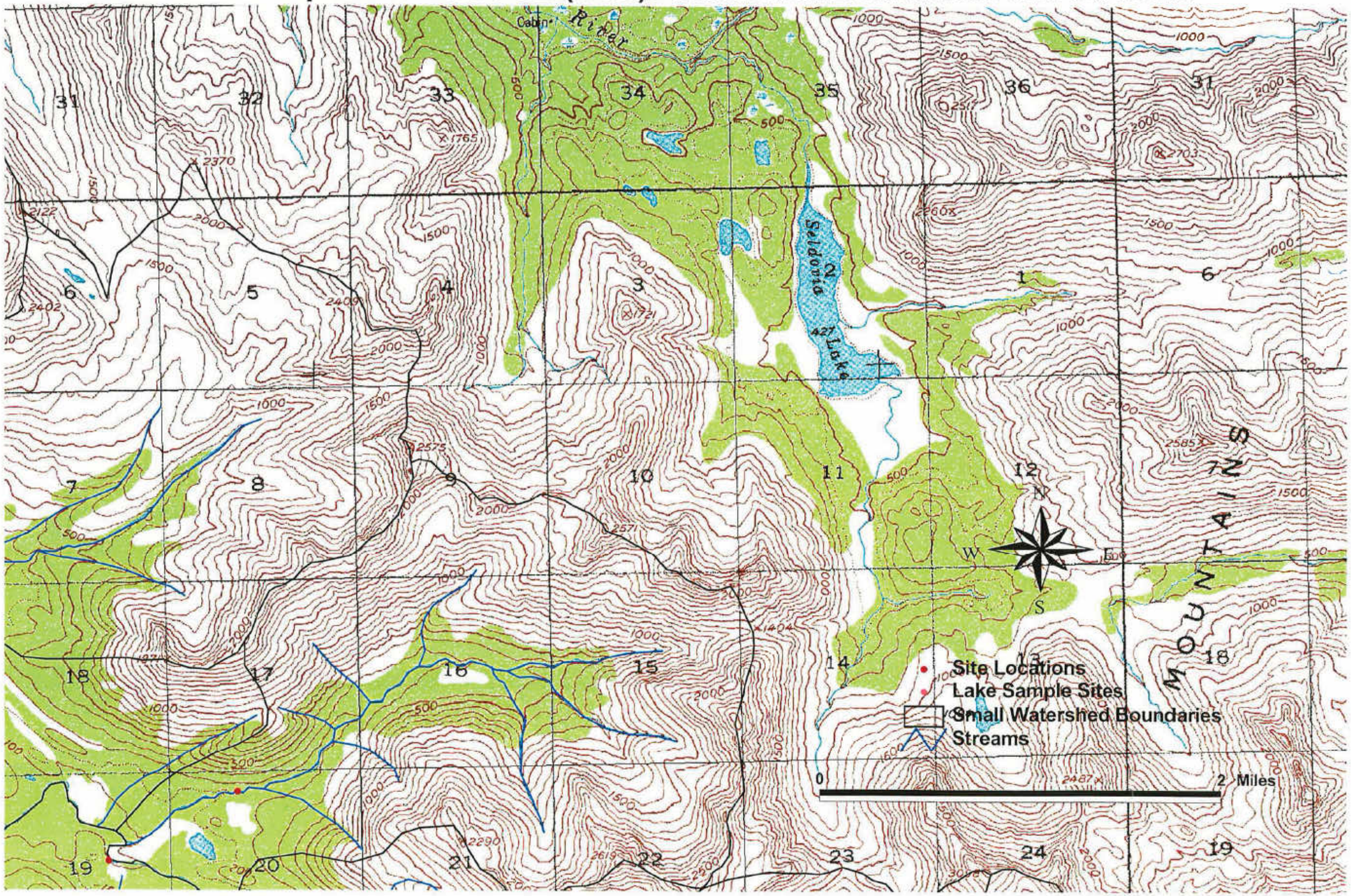


Figure D-10

Subarea Map Seldovia B5 SE (S1/2): Watershed Boundaries and Streams

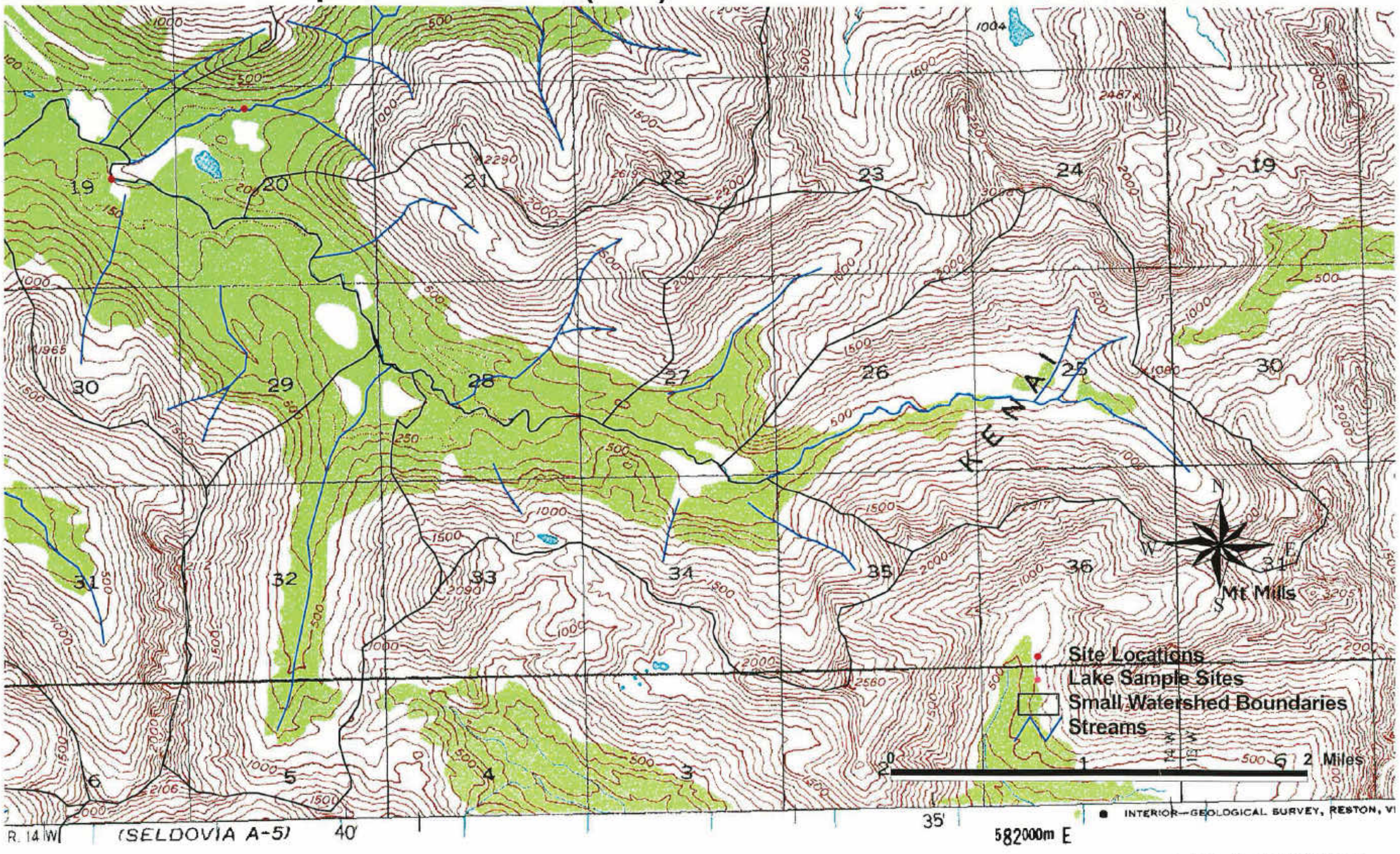


Figure D-11

APPENDIX E

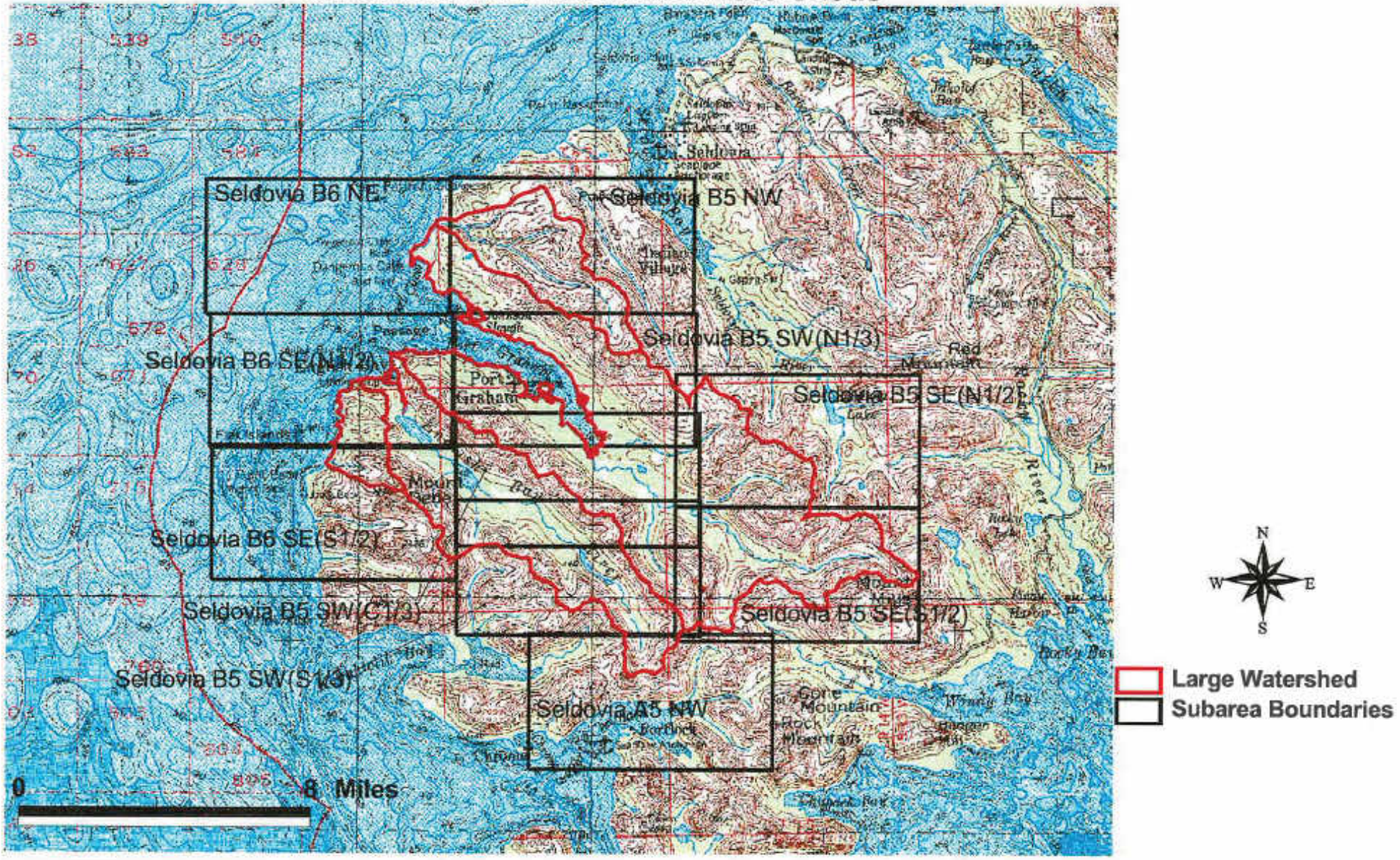
SOIL MAPS,
PORT GRAHAM AND NANWALEK WATERSHEDS

APPENDIX E

The following figures are included in this appendix:

Note: Soils have not been mapped by NRCS (1997) for the following subareas: Seldovia B-5 SW (S1/3), Seldovia A-5 NW, Seldovia B-5 SE (N1/2), and Seldovia B-5 SE (S1/2).

Figure E-1
Map Key Showing Subarea Boundaries
Port Graham and Nanwalek Watersheds



KEY TO SOIL MAP UNITS
Port Graham and Nanwalek Watersheds

Field Symbol	NRCS Map No.	Soil Type
AFA	136	Taluwik Silt Loam, 0-3% slopes
AFB	137	Taluwik Silt Loam, 3-8% slopes
ChB	103	Chenega Silt Loam, 3-8% slopes
Cr	142	Typic Cryaquents–Andic Cryofluvents Complex, 0-3% slopes
KiB	124	Koyuktolik and Nuka Peats, 0-8% slopes
KpDD	112	Kasitsna Silt Loam, rolling to steep
KsE	117	Kasitsna-Seldovia Complex, 25-45% slopes
KsF	114	Kasitsna-KasitsnaCool-Seldovia Complex, 45-65% slopes
KtDD	122	Kasitsna-Tutka Complex, rolling to steep
KtEE	123	Kasitsna-Tutka Complex, hilly to very steep
KtF	120	Kasitsna-Tutka Complex, 45-65% slopes
KtG	121	Kasitsna-Tutka Complex, 65-120% slopes
KyDD	115	Kasitsna-Nuka Complex, nearly level to hilly
KytDD	116	Kasitsna-Nuka-Tutka Complex, nearly level to hilly
NaF	129	Nanwalek Silt Loam, 25-65% slopes
NaG	128	Nanwalek-Rock Outcrop Complex, 65-120% slopes
NkEF	126	Nanwalek-Kasitsna Cool Complex, 25-65% slopes
NwEF	125	Nanwalek Silt Loam, 25-65% slopes, warm
RM	104	Cryods, Cryothents, and Rock Outcrop, 5-120% slopes
RO	132	Rock Outcrop-Cryothents, very steep
SdC	134	Seldovia Silt Loam, 0-15% slopes
SdDD	118	Kasitsna-Seldovia-Portgraham Complex, rolling to steep
SdE	135	Seldovia Silt Loam, 25-45% slopes
SdEE	119	Kasitsna-Seldovia-Portgraham Complex, hilly to very steep
Ss	106	Ismailof Sandy Loam, 0-3% slopes
TxA	107	Jakalof Silt Loam, 0-3% slopes
TxB	108	Jakalof Silt Loam, 3-8% slopes

Source: NRCS (1997)

FIGURE E-2

Subarea Map Seldovia B6 NE : Soil Types

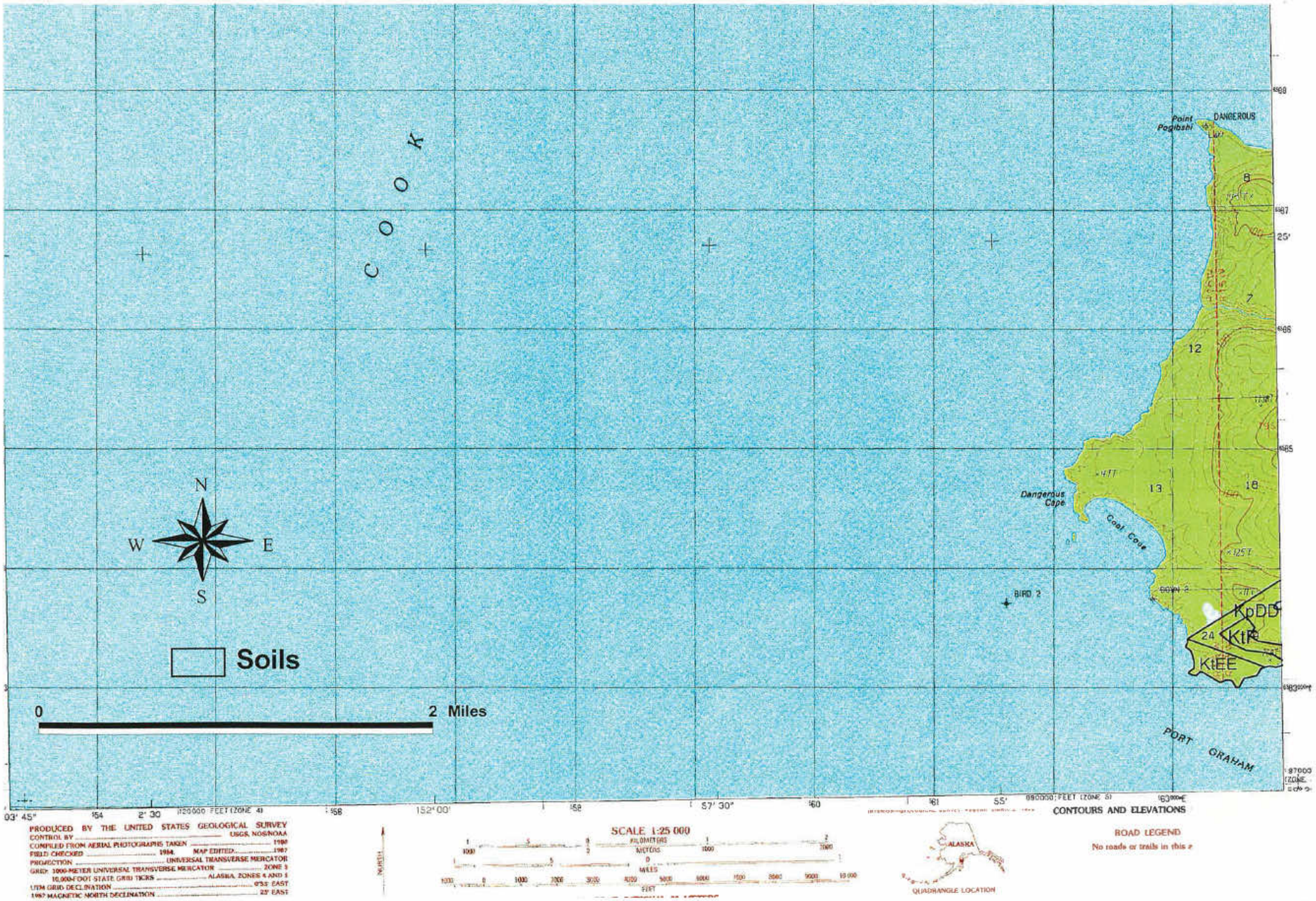


Figure E-3

Subarea Map Seldovia B6 SE(N1/2) : Soil Types

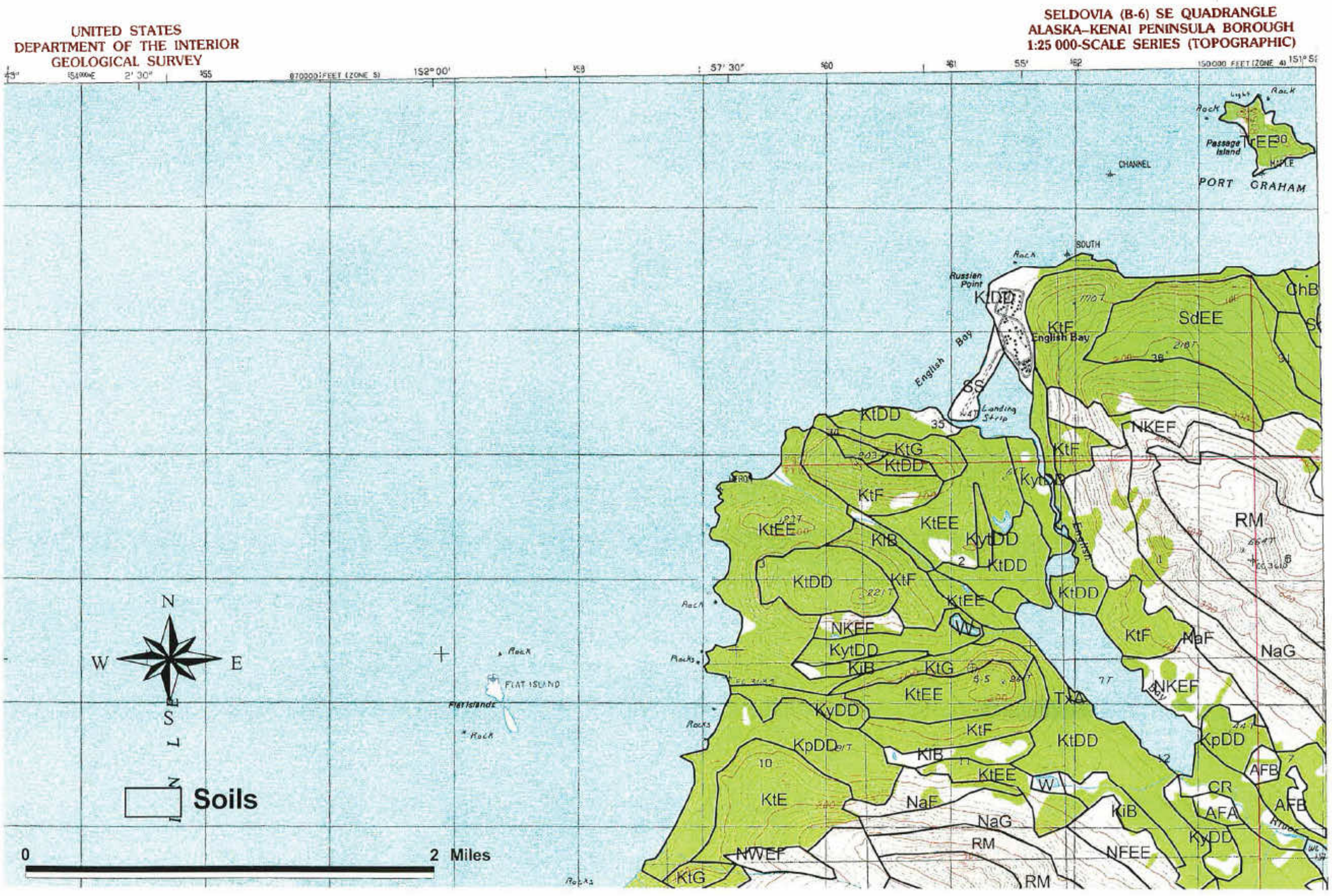


Figure E-4

Subarea Map Seldovia B6 SE(S1/2) : Soil Types

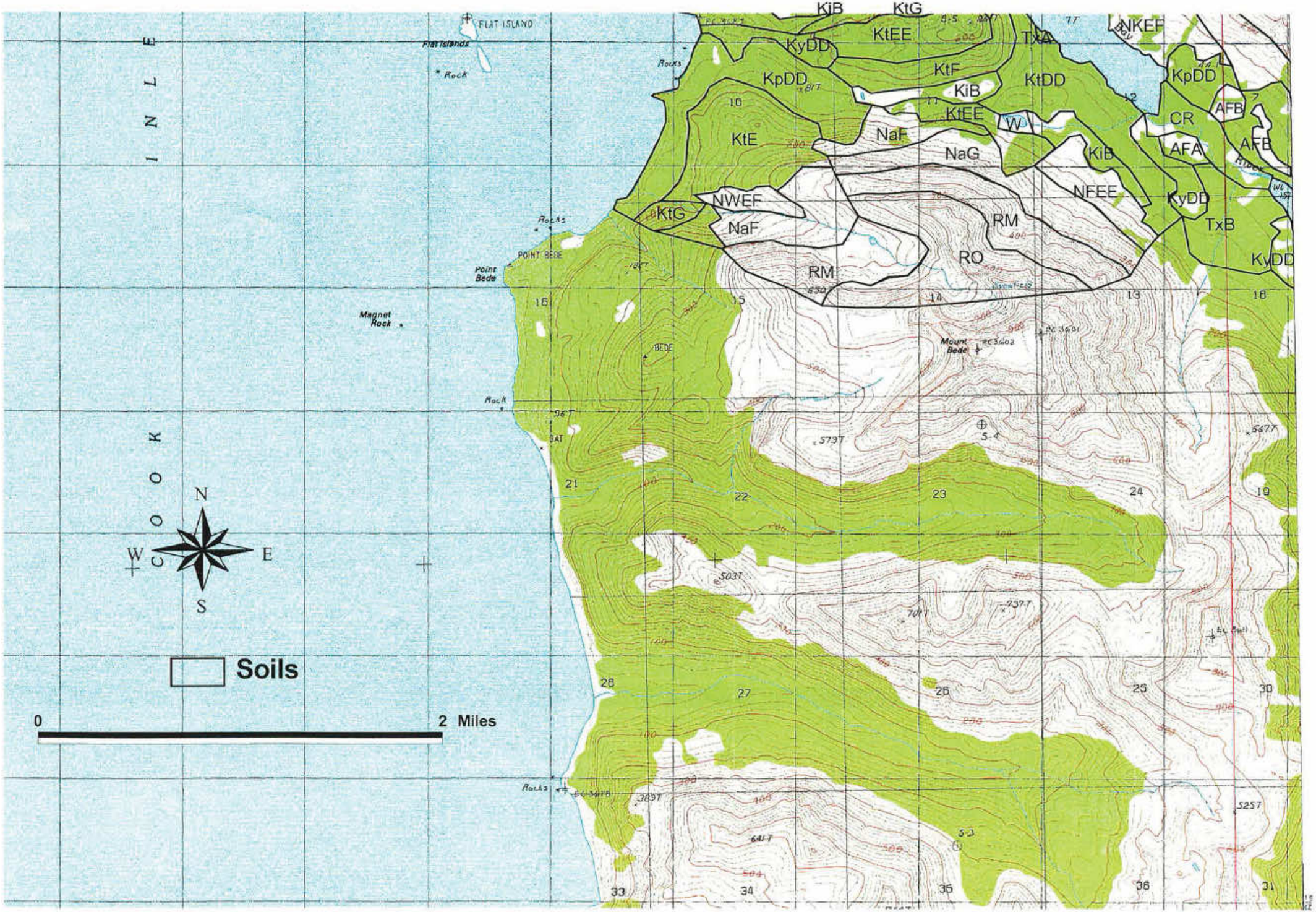


Figure E-5

Subarea Map Seldovia B5 NW : Soil Types

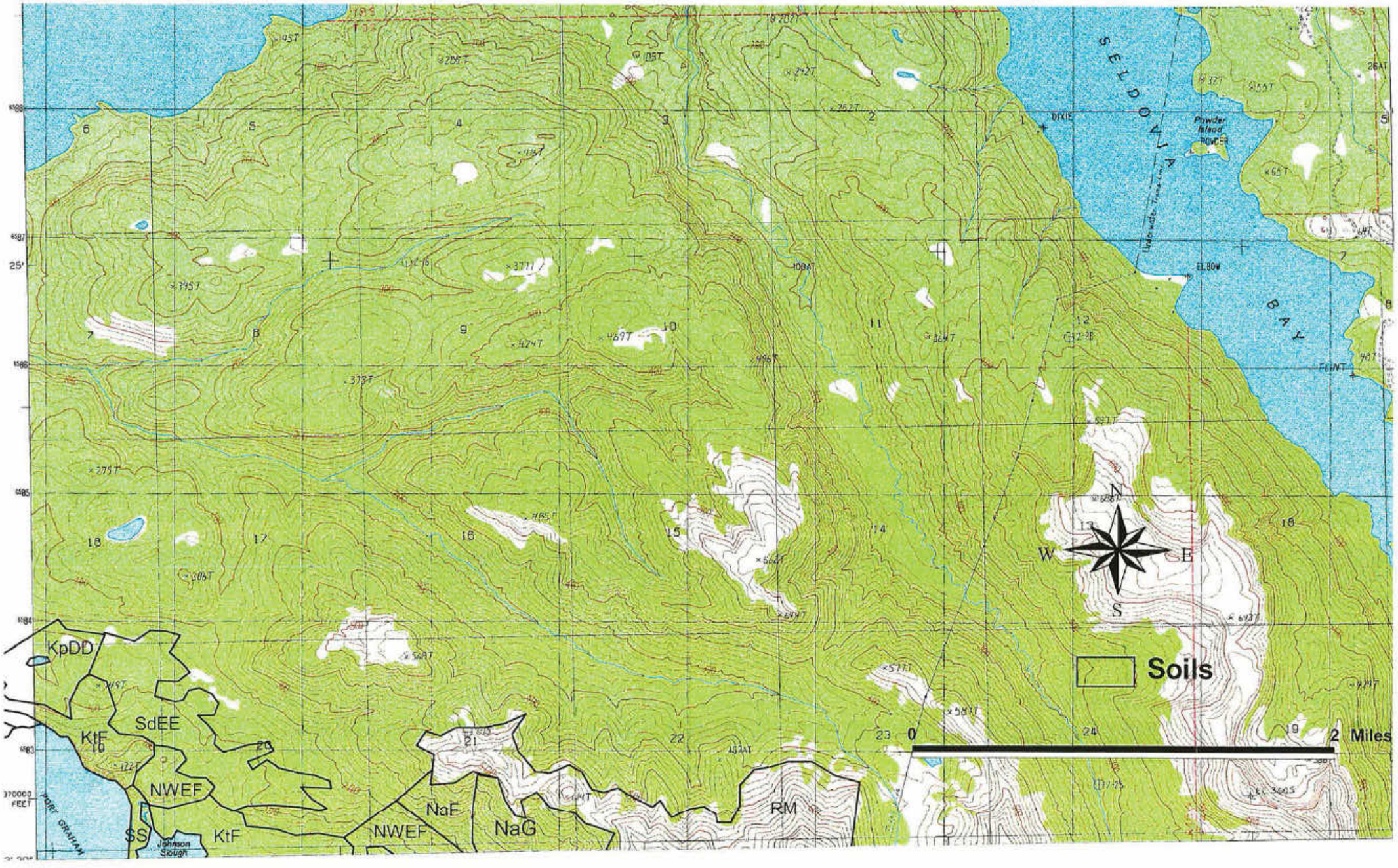


Figure E-6

Subarea Map Seldovia B5 SW(N1/3) : Soil Types

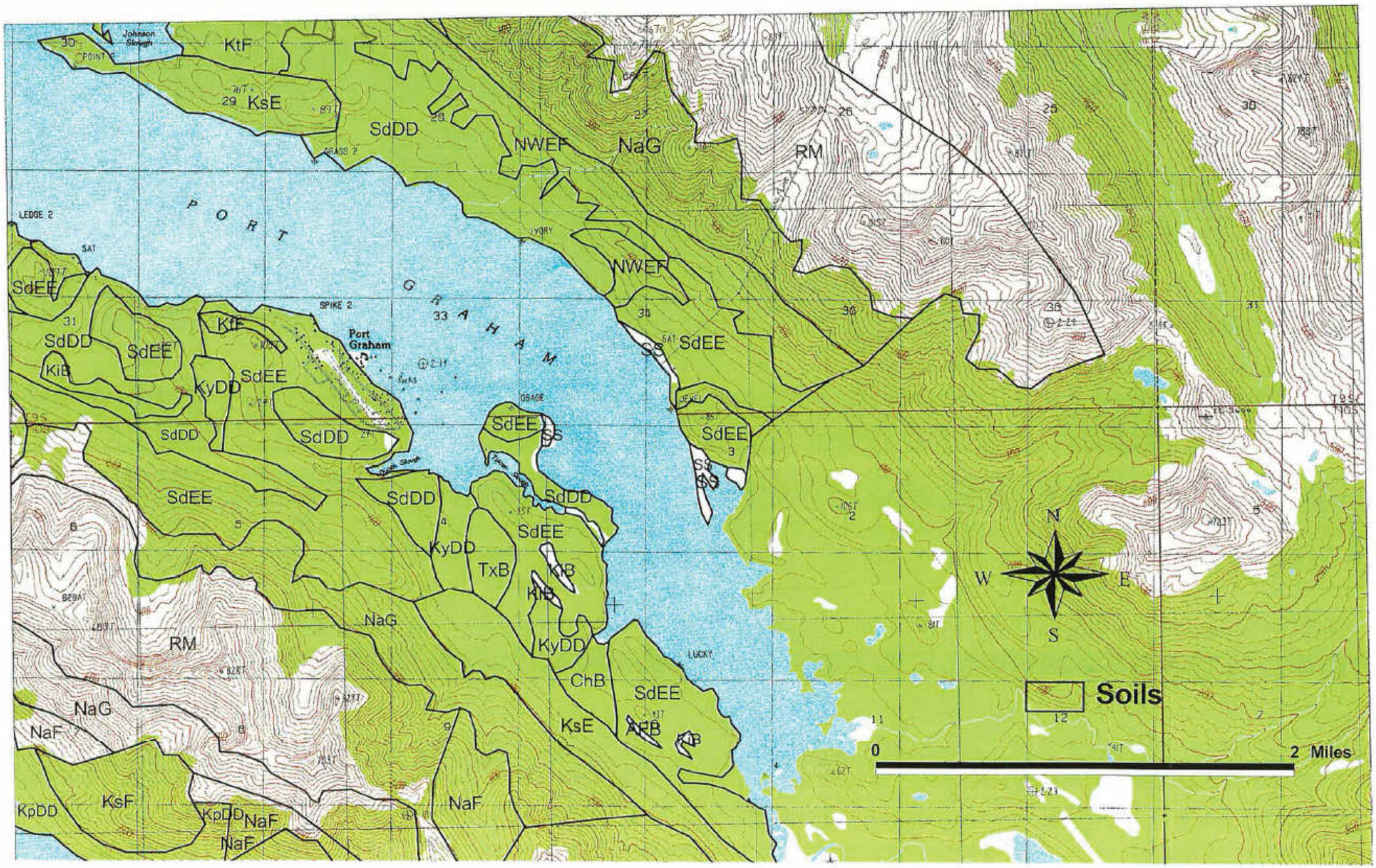


Figure E-7

Subarea Map Seldovia B5 SW(C1/3) : Soil Types

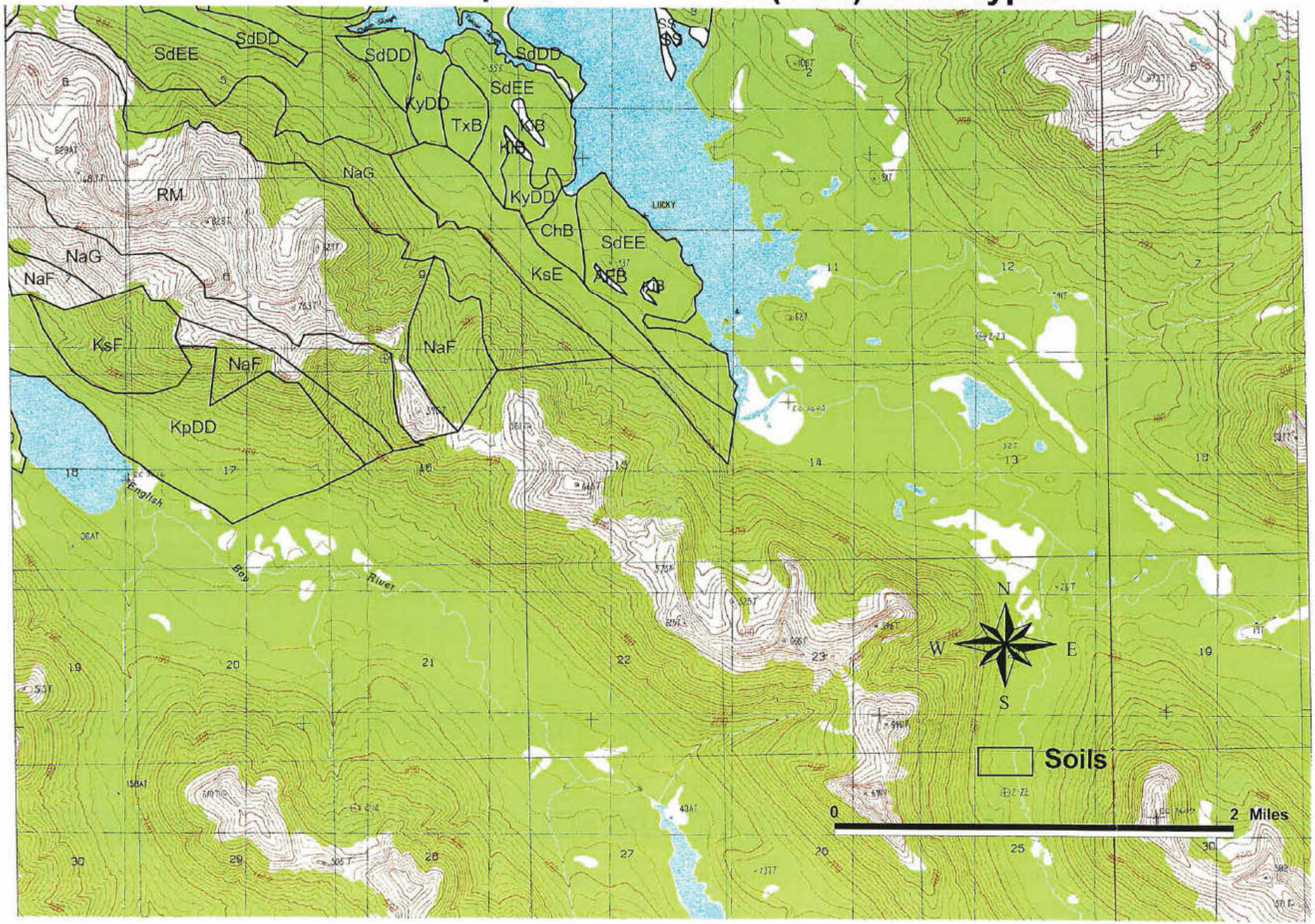
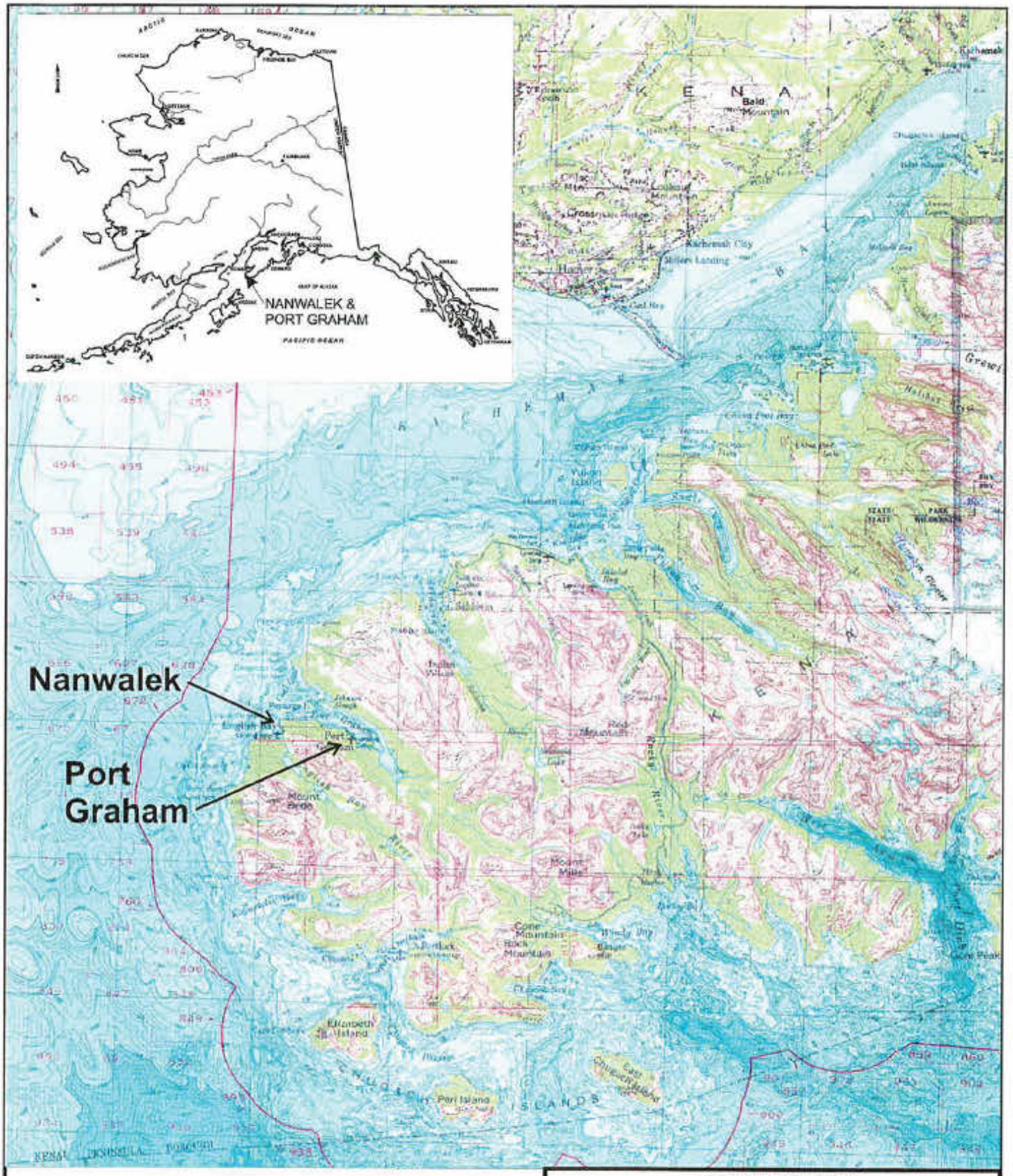


Figure E-8



Source: USGS 1:250,000 Topographic Map Series
Seldovia, Alaska Quadrangle (1963, Rev. 1985)

0 1 2 4

APPROXIMATE SCALE IN MILES

CHUGACHMIUT

WATERSHED ANALYSIS AND WATER QUALITY EVALUATION

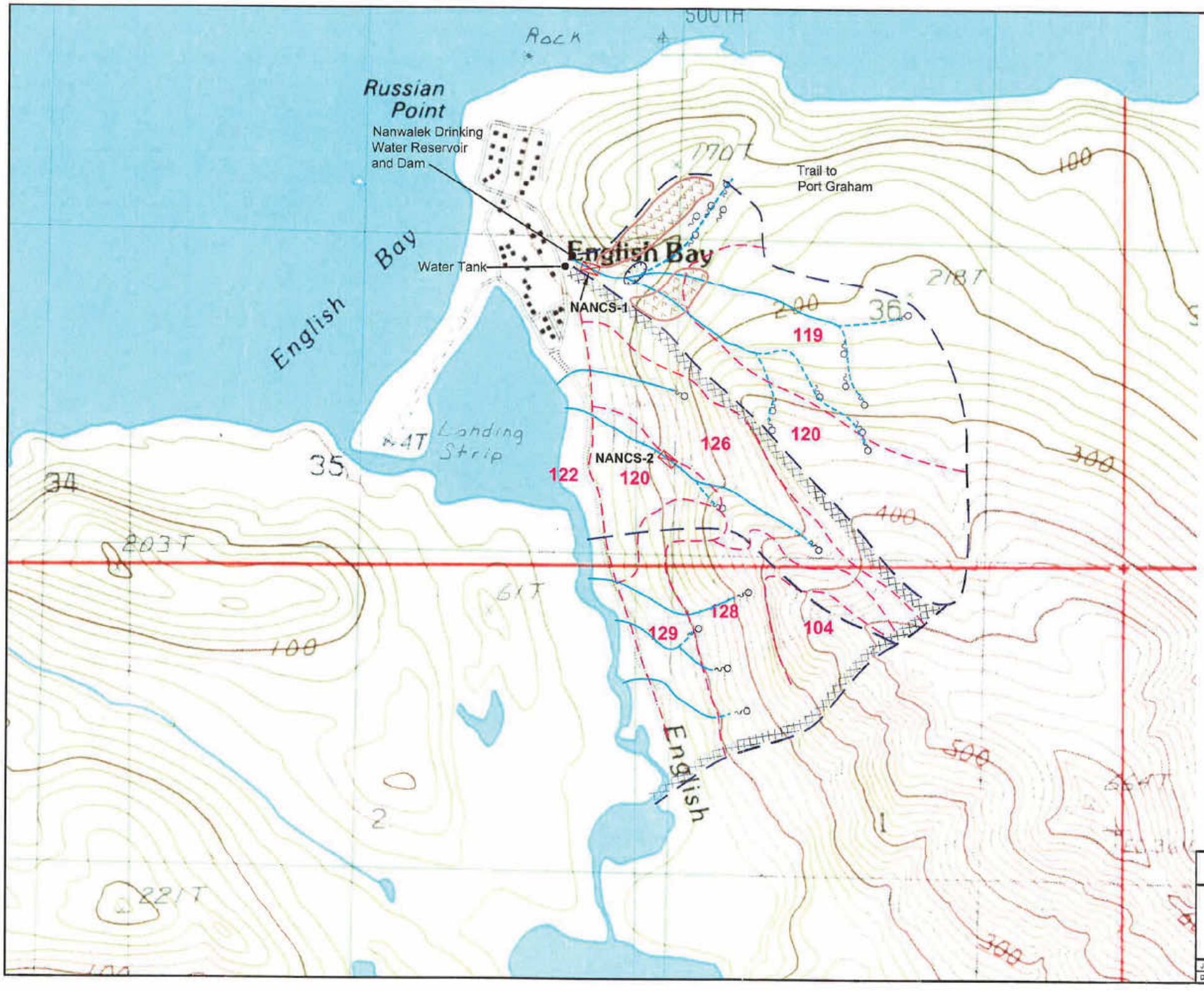
SITE LOCATION MAP

NANWALEK AND PORT GRAHAM, ALASKA

DAMES & MOORE
D&M GROUP

JOB NO:	38396-001-220	DRAWN:	ELK
DATE:	12 MARCH 1998	FILE:	FIG01.CDR

FIGURE 1



LEGEND

	Watershed review area
	Watershed boundary
	Perennial stream
	Intermittent stream
	Spring or seep
	Stream cross-section and sample location
	Steep slopes (>35°) with sections of exposed rock
	Logging Road
	Trail
	Soil unit boundary
	Small Basin

SOIL UNITS

104	Rock Outcrop
119	Kasitsna-Seldovia-Port Graham Complex Hilly to very steep
120	Kasitsna-Tutka Complex
122	Kasitsna-Tutka Complex rolling to steep
126	Nanwalek, Cook Complex
128	Nanwalek - Rock Outcrop Complex
129	Nanwalek Silt Loam

N
W — E

0 500 1000 2000
SCALE IN FEET

CHUGACHMIUT

NANWALEK
SOIL UNITS & WATERSHED
NANWALEK, ALASKA

DAMES & MOORE
GROUP

JOB NO:	38396-002-030	DRAWN:	AR
DATE:	AUGUST 1999	FILE:	PG-NAN.DWG

FIGURE 2

LEGEND

	Watershed review area
	Watershed boundary
	Perennial stream
	Intermittent stream
	Spring or seep
	Stream cross-section and sample location
	Muskeg
	Steep slopes (>35°) with sections of exposed rock
	Steep-walled, narrow stream section
	Wetland Meadow
	Bridge
	Former Wood Dam
	Logging Road
	Trail
	Soil unit boundary

SOIL UNITS

103	Chenega Silt Loam
104	Rock Outcrop
108	Jakalof Silt Loam
115	Kasitsna-Nuka Complex
117	Kasitsna-Seldovia Complex
118	Kastisna-Seldovia-Port Graham Complex, rolling to steep
119	Kasitsna-Seldovia-Port Graham Complex, hilly to very steep
120	Kasitsna-Tutka Complex
126	Nanwalek, Cook Complex
128	Nanwalek - Rock Outcrop Complex
134	Seldovia Silt Loam

0 1/8 1/4 1/2
SCALE IN MILES

N W E

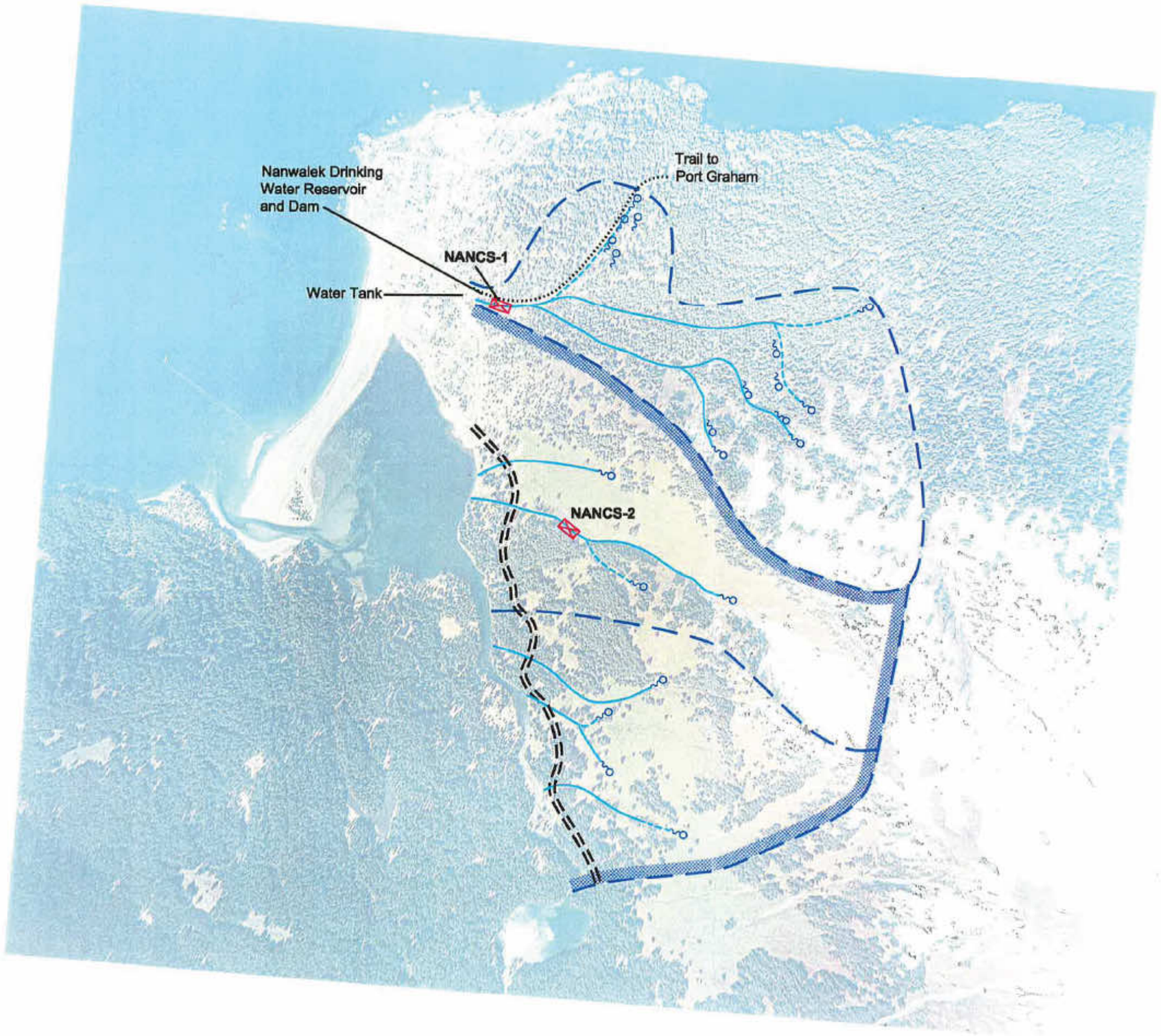
CHUGACHMIUT

PORT GRAHAM
SOIL UNITS & WATERSHED
PORT GRAHAM, ALASKA

DAMES & MOORE GROUP

JOB NO:	36390-002-090	DRAWN:	AR
DATE:	AUGUST 1999	FILE:	PG-NAN.DWG

FIGURE 3



LEGEND

- Watershed review area
- Watershed boundary
- Perennial stream
- Intermittent stream
- Spring or seep
- Stream cross-section and sample location
- Logging road
- Trail

SOURCE:
AeroMap U.S., Inc.
Date of Photography: May 19, 1993

N
W — E

0 500 1000 2000
APPROXIMATE SCALE IN FEET

CHUGACHMIUT

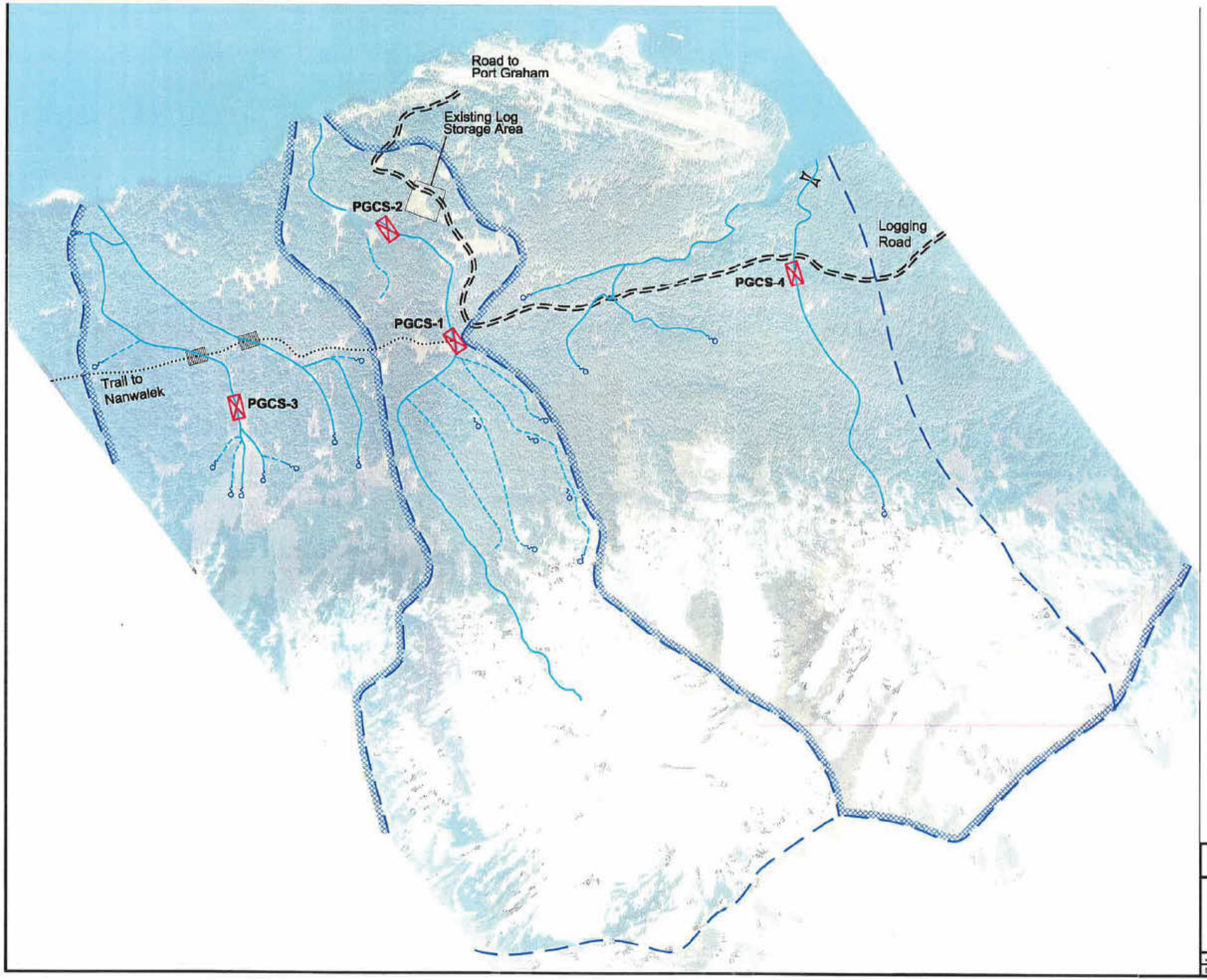
AERIAL PHOTOGRAPH NANWALEK WATERSHED

NANWALEK, ALASKA

JOB NO:	56396-002-090	DRAWN:	AR
DATE:	AUGUST 1999	FILE:	AERIALS.DWG

DAMES & MOORE DCM GROUP

FIGURE 4



LEGEND

- Watershed review area
- Watershed boundary
- Perennial stream
- Intermittent stream
- Spring or seep
- Stream cross-section and sample location
- Bridge
- Former wood dam
- Logging road
- Trail

NOTE:
Watershed boundary delineation limited to available aerial photography coverage

SOURCE:
AeroMap U.S., Inc.
Date of Photography: May 19, 1993

0 1/8 1/4 1/2
APPROXIMATE SCALE IN MILES

N
W E

CHUGACHMIUT

AERIAL PHOTOGRAPH
PORT GRAHAM WATERSHED
PORT GRAHAM, ALASKA

DAMES & MOO
DE&M GROUP

JOB NO:	36366-002-090	DRAWN:	AR
DATE:	AUGUST 1999	FILE:	AERIALS.DWG

FIGURE 5