



Responses to FERC Additional Information Request S-1

Sediment Transport

Final Report Part 2 Figures A-1 thru E-25

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Hells Canyon Project
FERC No. P-1971-079

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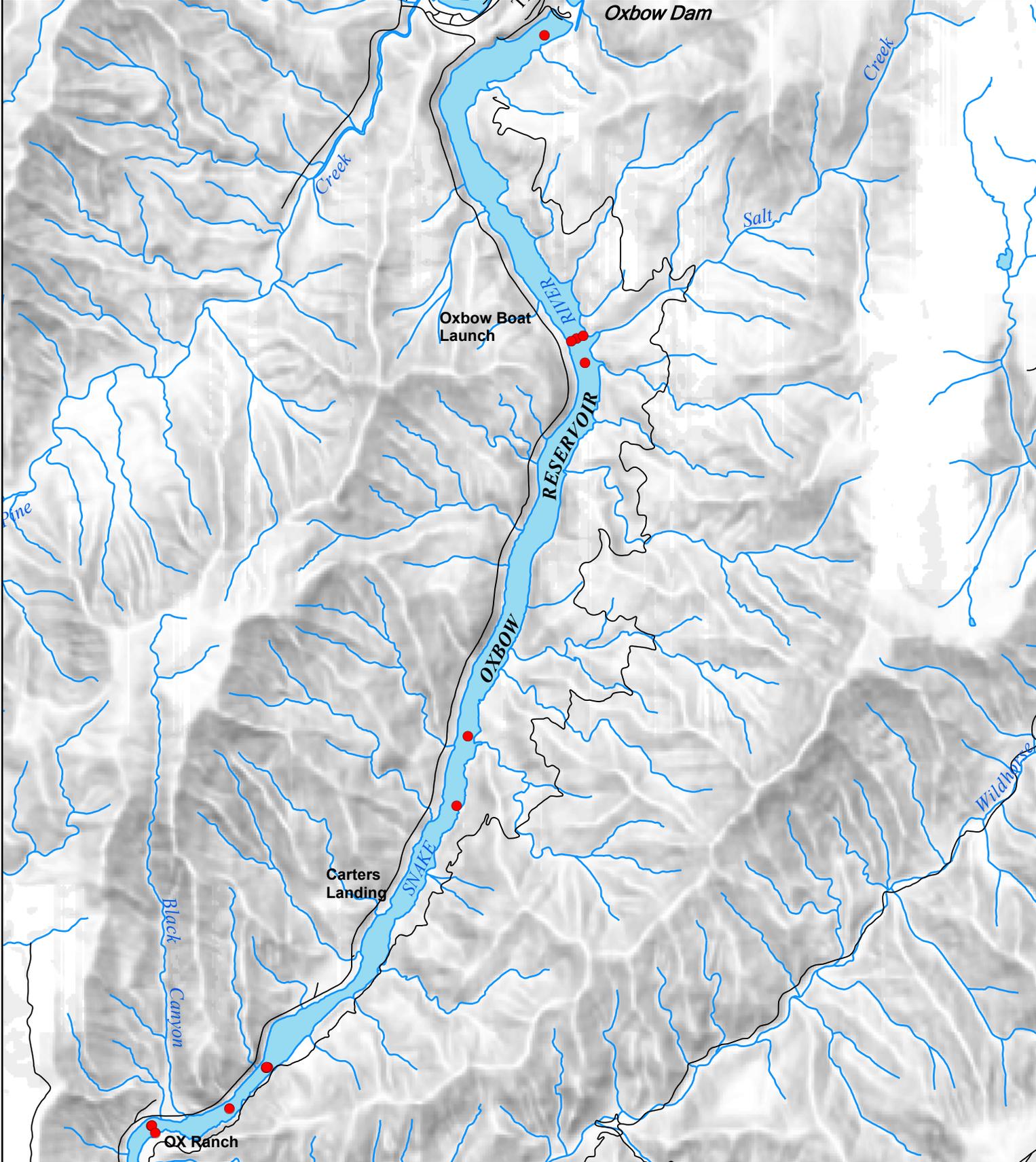
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Features Legend

-  Water Body
-  Streams
-  Roads
-  2004 Sediment Sampling Locations



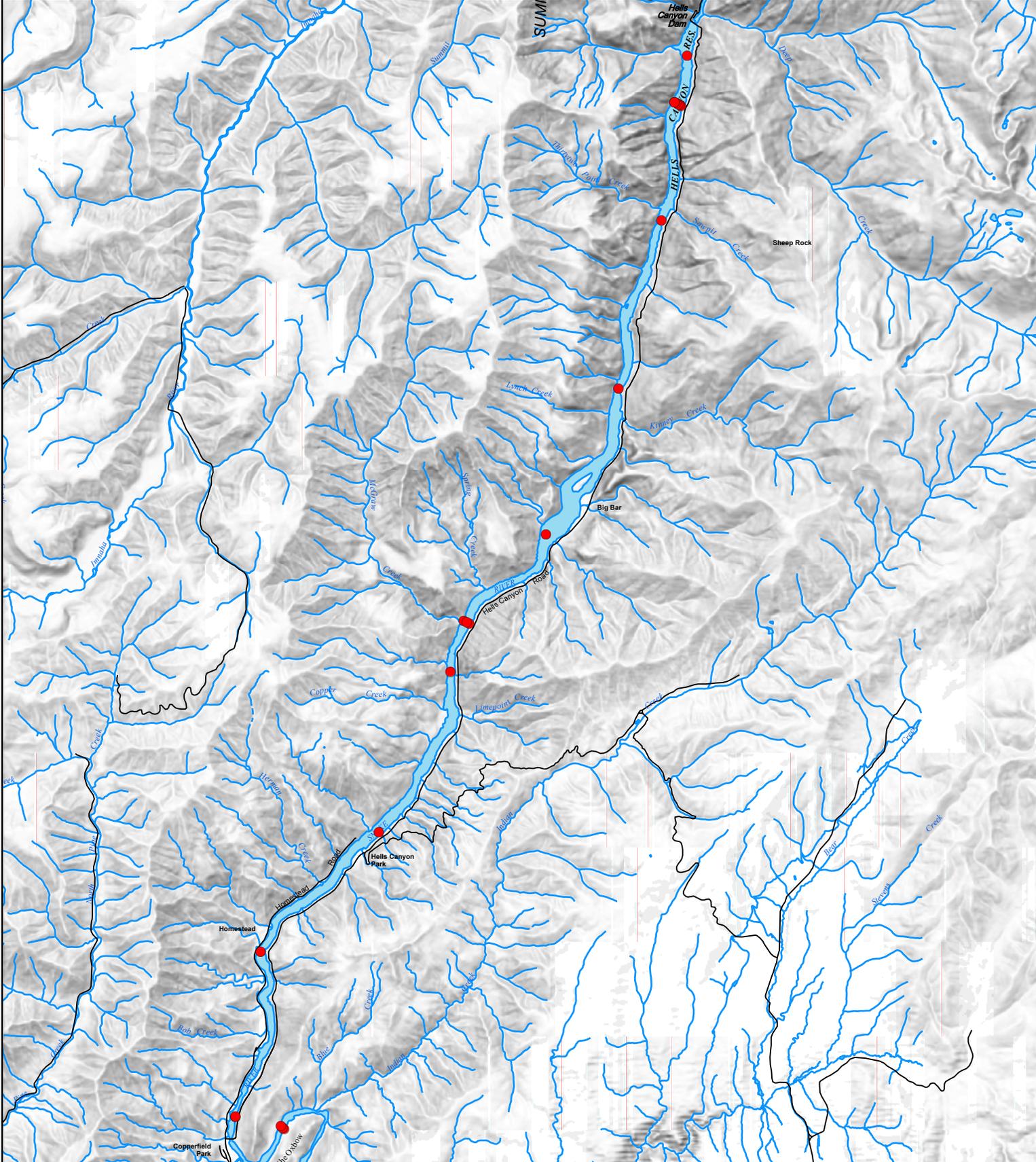
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Response to AIR S1, Figure A-1

Oxbow Reservoir Sediment Sampling Locations

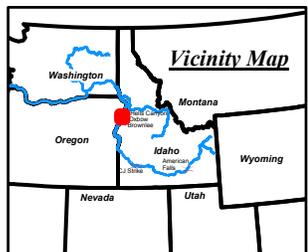


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Features Legend

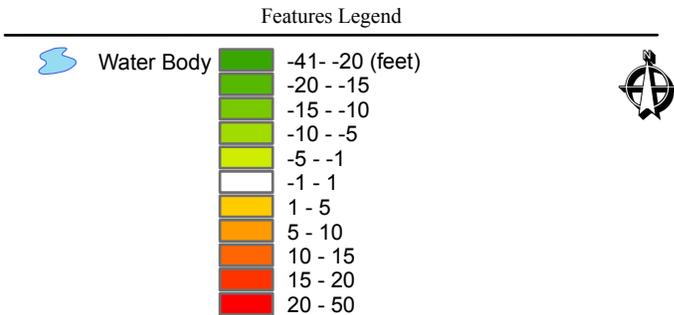
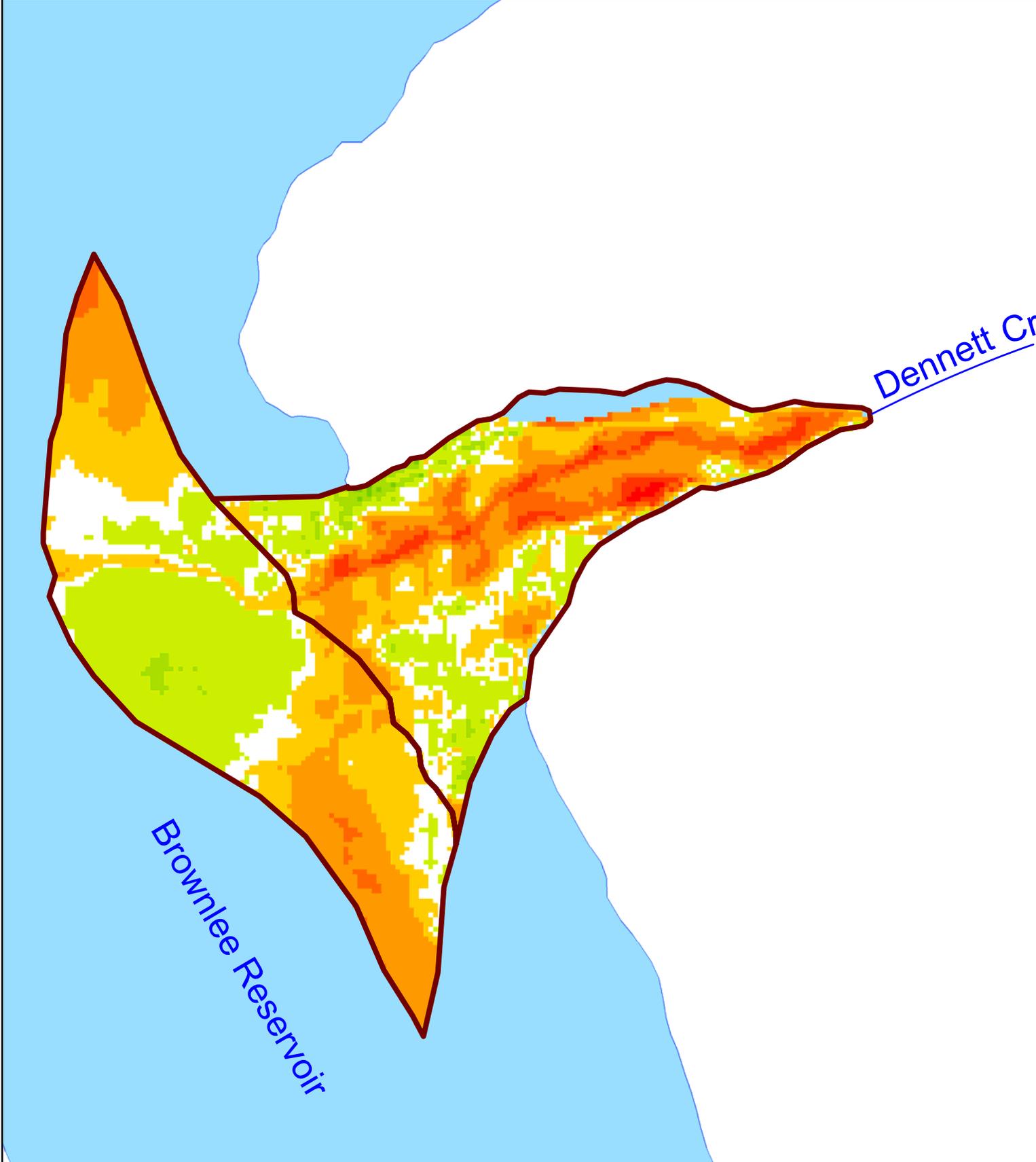
-  Water Body
-  Streams
-  Roads
-  2004 Sediment Sampling Locations



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Response to AIR S1, Figure A-2
Hells Canyon Reservoir
Sediment Sampling Locations



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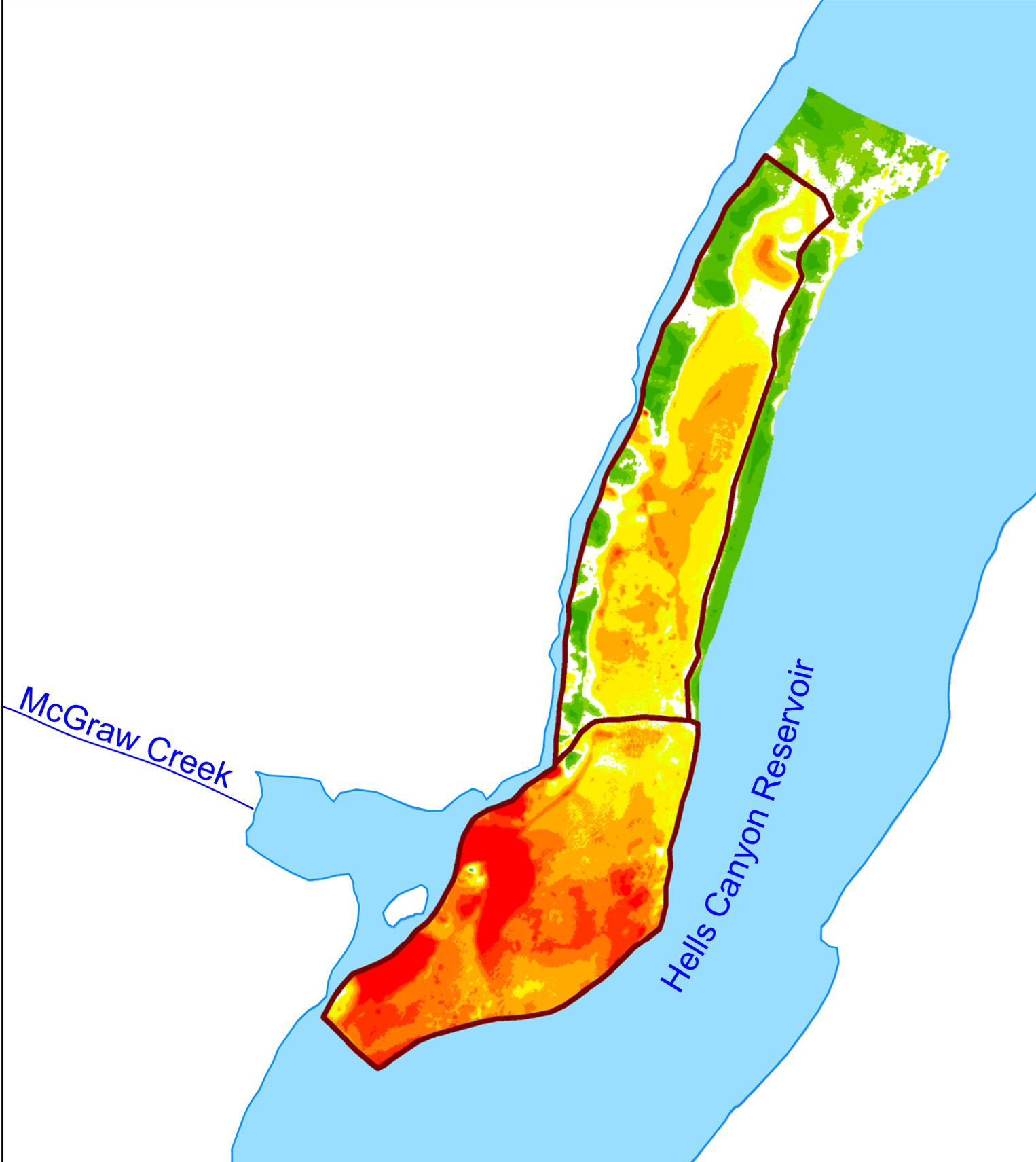
Response to AIR S1, Figure A-3

**Dennett Creek Fan Deposition and Erosion,
 Brownlee Reservoir**



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Features Legend

	Water Body	
	-9 - -4 (feet)	
	-4 - -2	
	-2 - -1	
	-1 - 1	
	1 - 2	
	2 - 4	
	4 - 6	
	6 - 8	
	8 - 10	
	10 - 38	

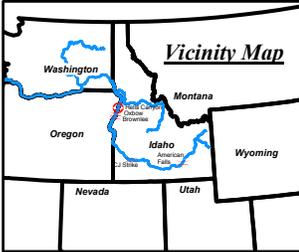
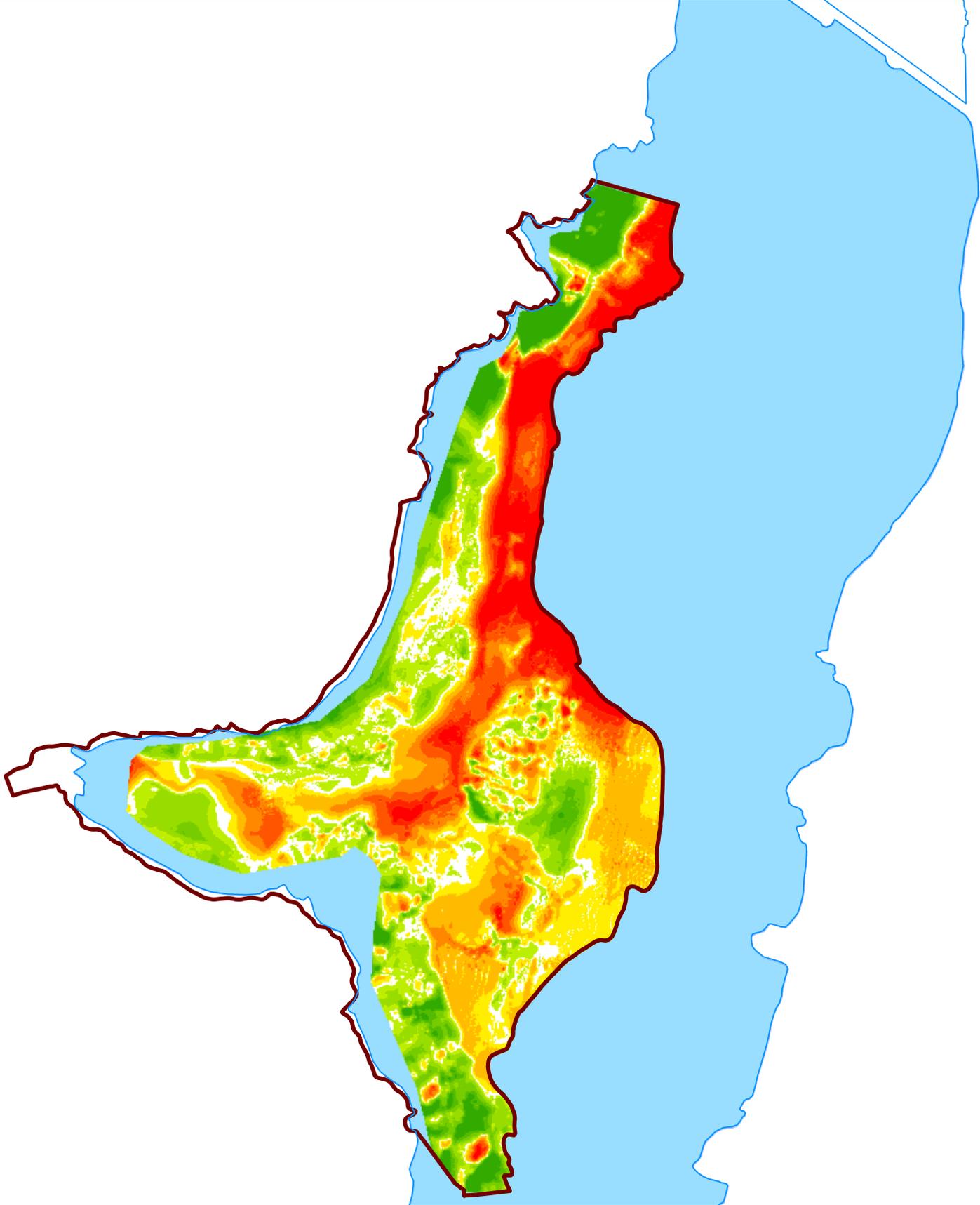


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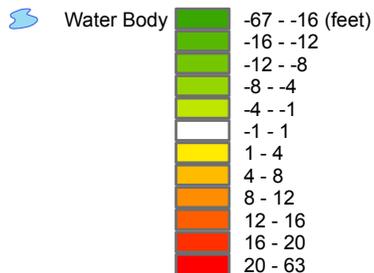
Response to AIR S1, Figure A-4
**McGraw Creek Fan Deposition and Erosion,
 Hells Canyon Reservoir**



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Features Legend



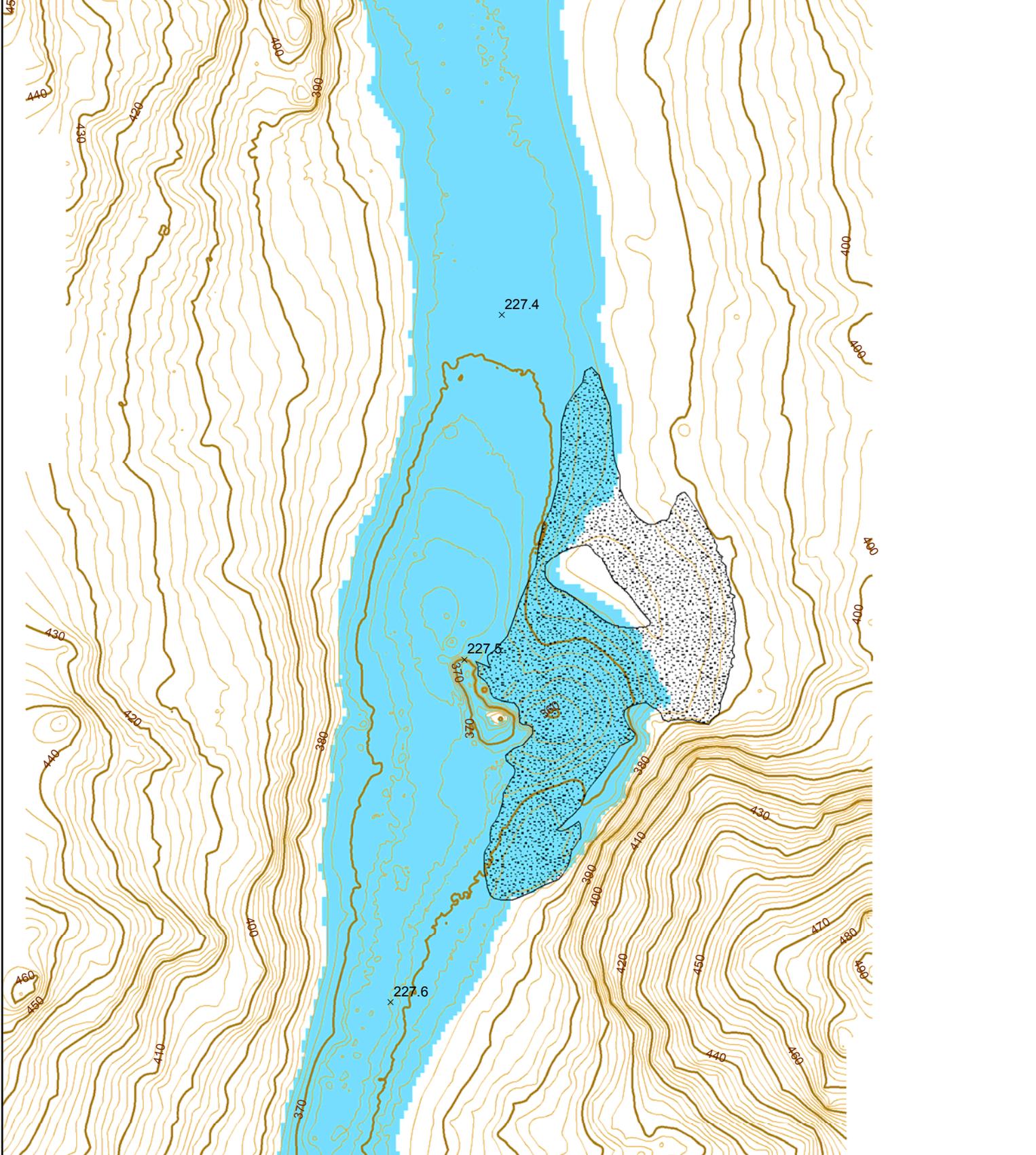
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Response to AIR S1, Figure A-5
**Steamboat Creek Fan Deposition and Erosion,
Hells Canyon Reservoir**



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Features Legend

- Modeled Inundation Area
- Sand Polygon
- River Mile
- Intermediate Contour
- Index Contour (meters)



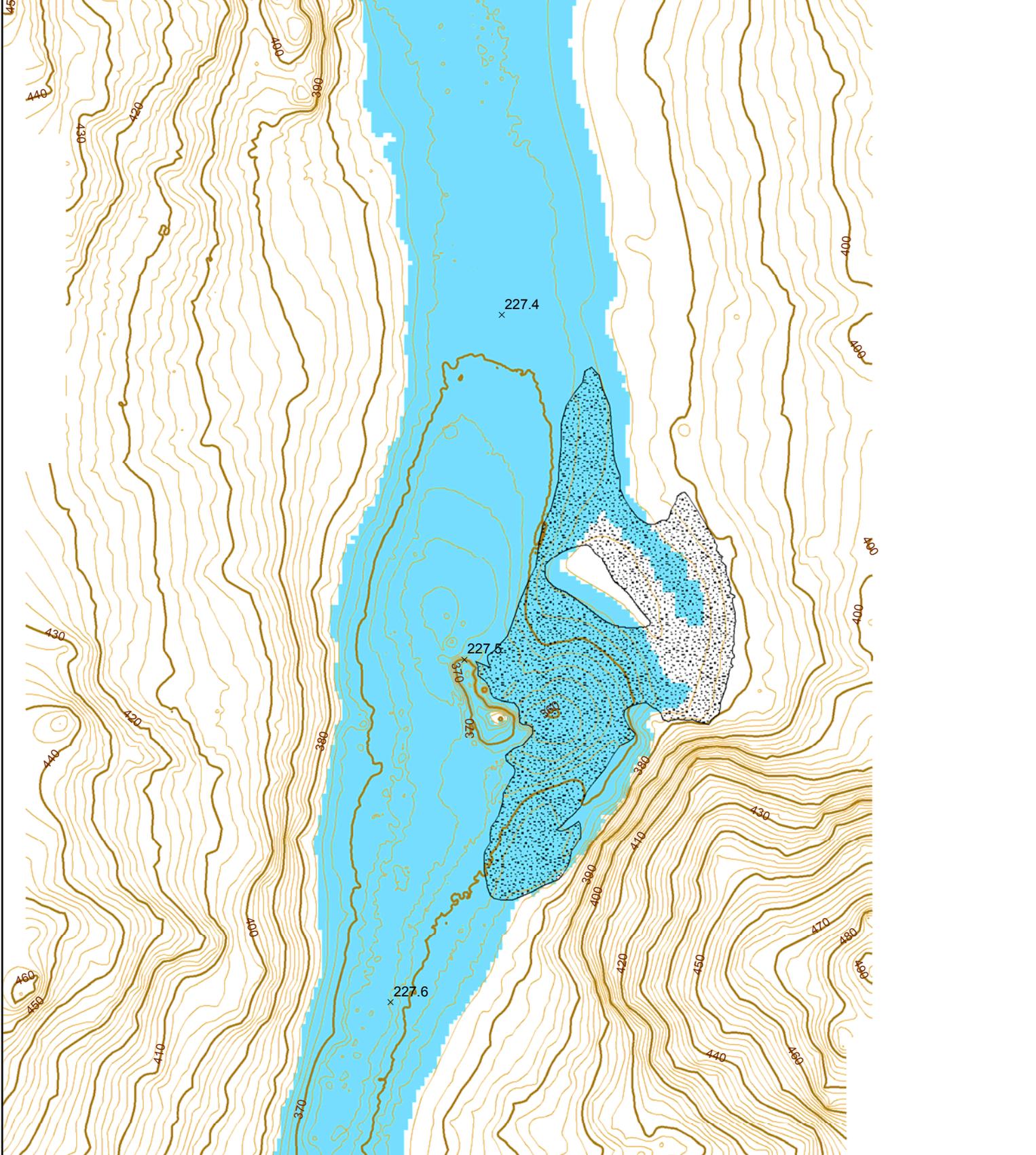
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Response to AIR S1, Figure B-1

Pine Bar Inundation Map - 5000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



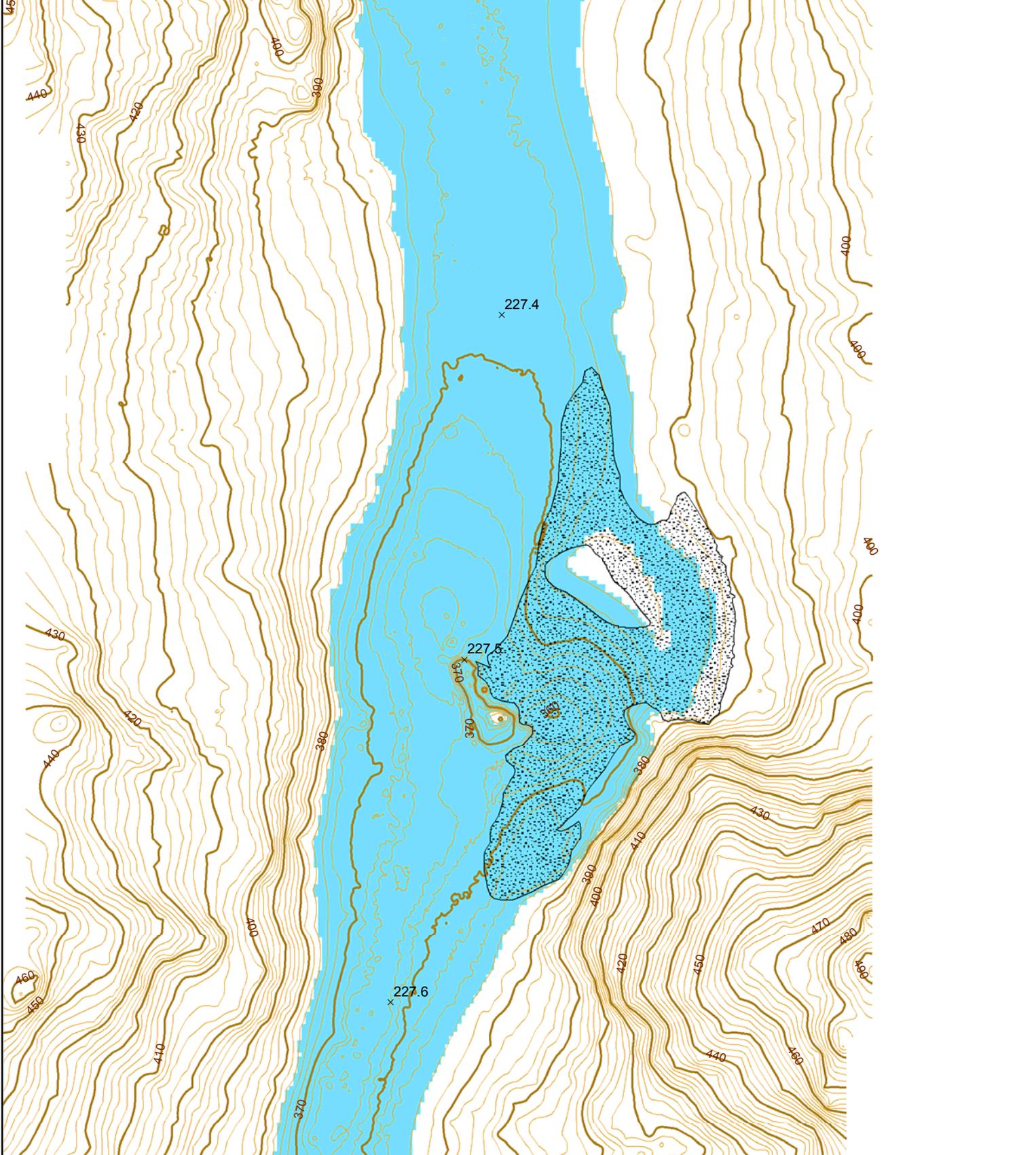
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Response to AIR SI, Figure B-2

Pine Bar Inundation Map - 10000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



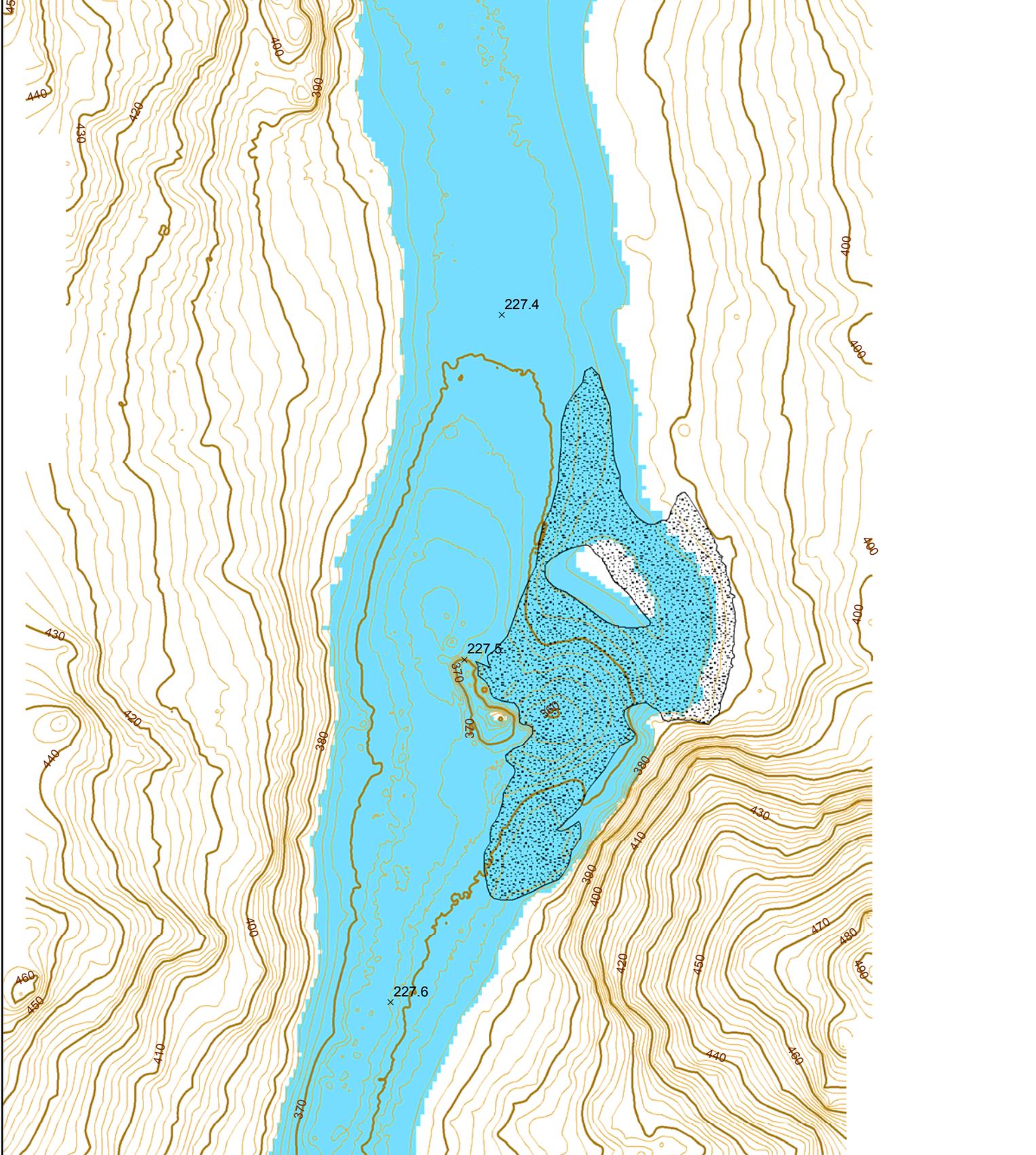
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Response to AIR S1, Figure B-3

Pine Bar Inundation Map - 15000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



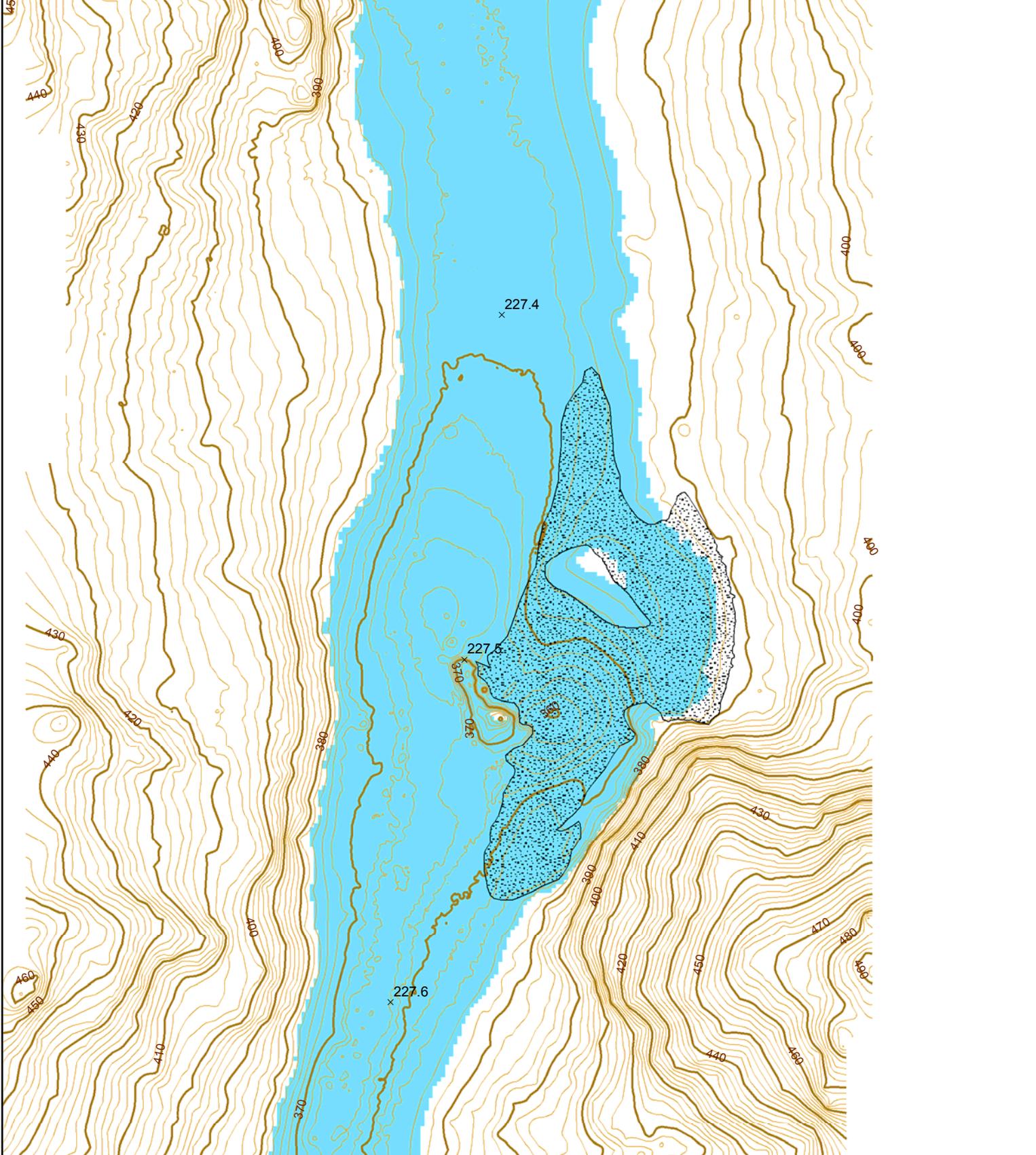
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Response to AIR S1, Figure B-4

Pine Bar Inundation Map - 20000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



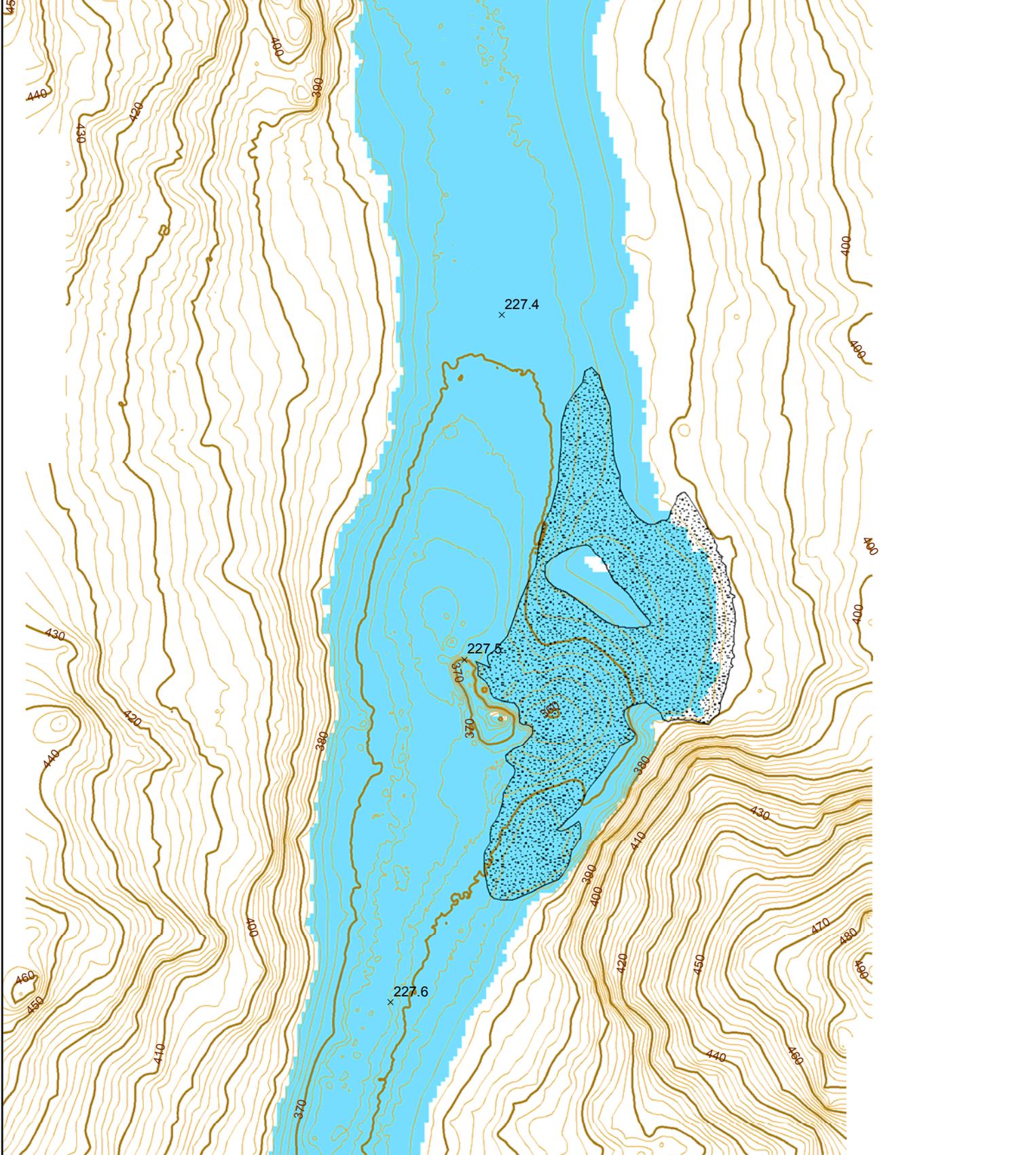
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Response to AIR S1, Figure B-5

Pine Bar Inundation Map - 25000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



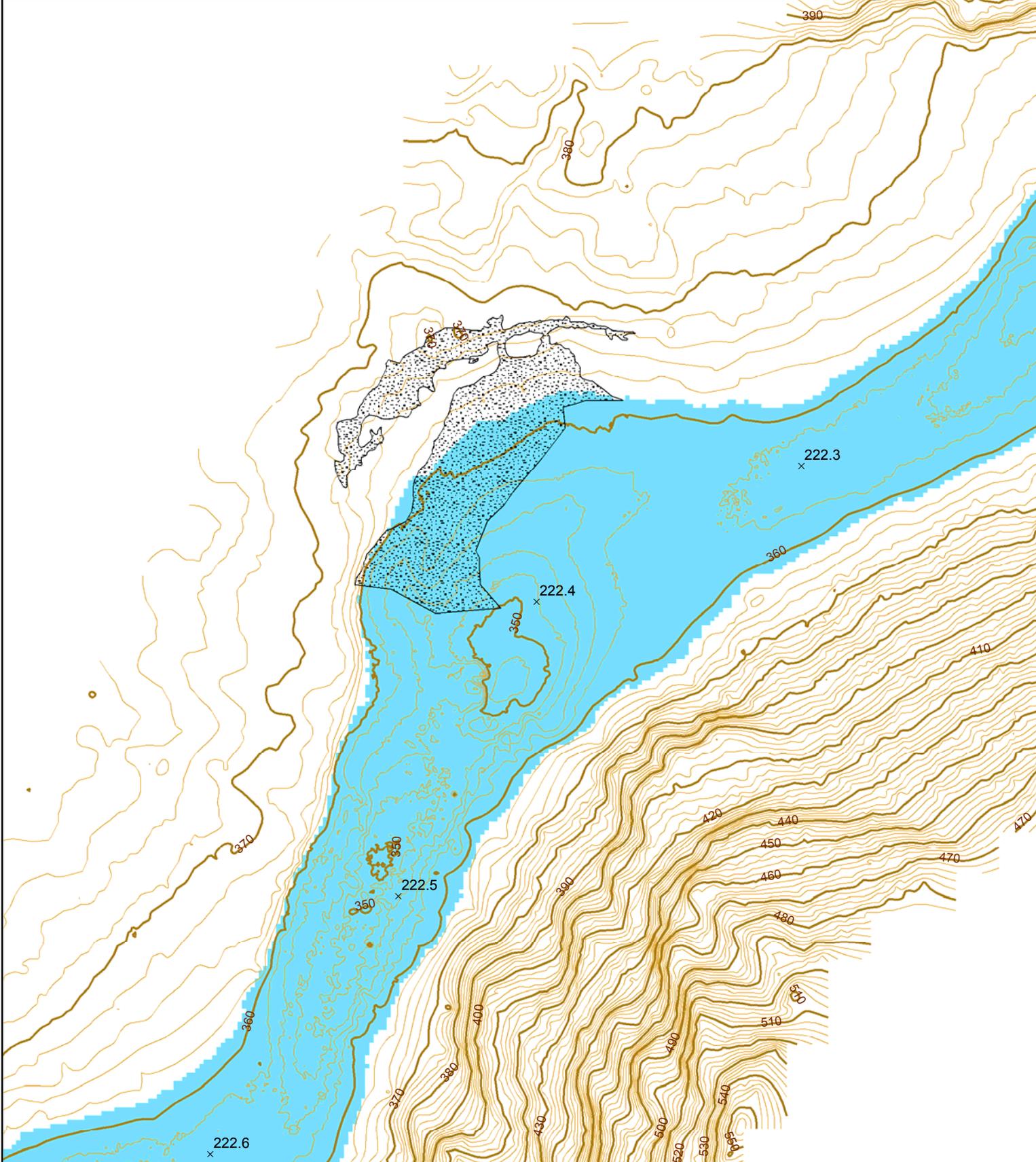
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Response to AIR SI, Figure B-6

Pine Bar Inundation Map - 30000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



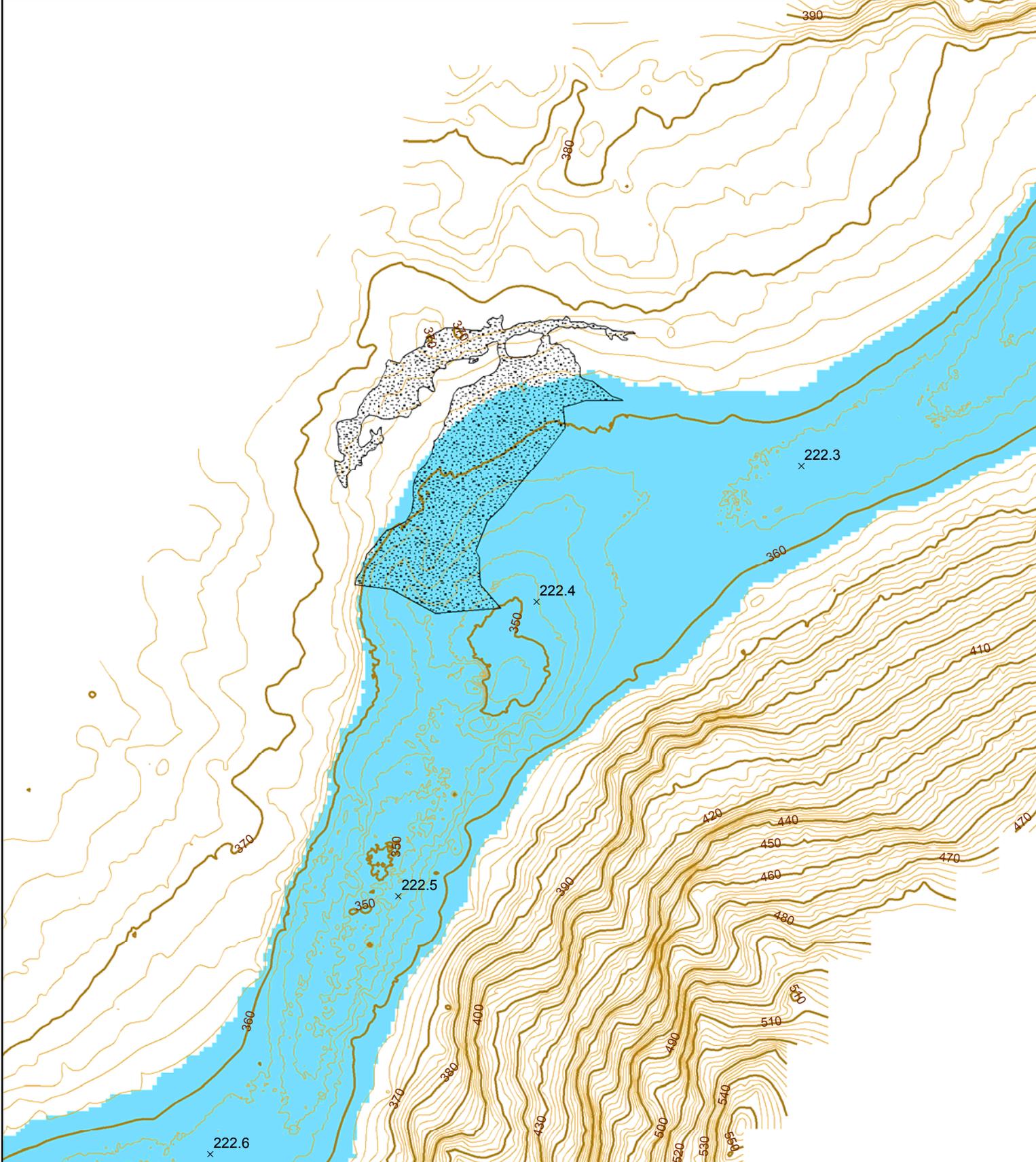
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Response to AIR S1, Figure B-7

Salt Creek Bar Inundation Map - 5000 cfs



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Features Legend

	Sand Polygon		River Mile	
	Modeled Inundation Area		Intermediate Contour	
			Index Contour (meters)	

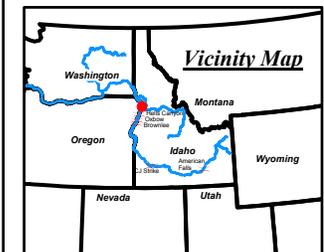
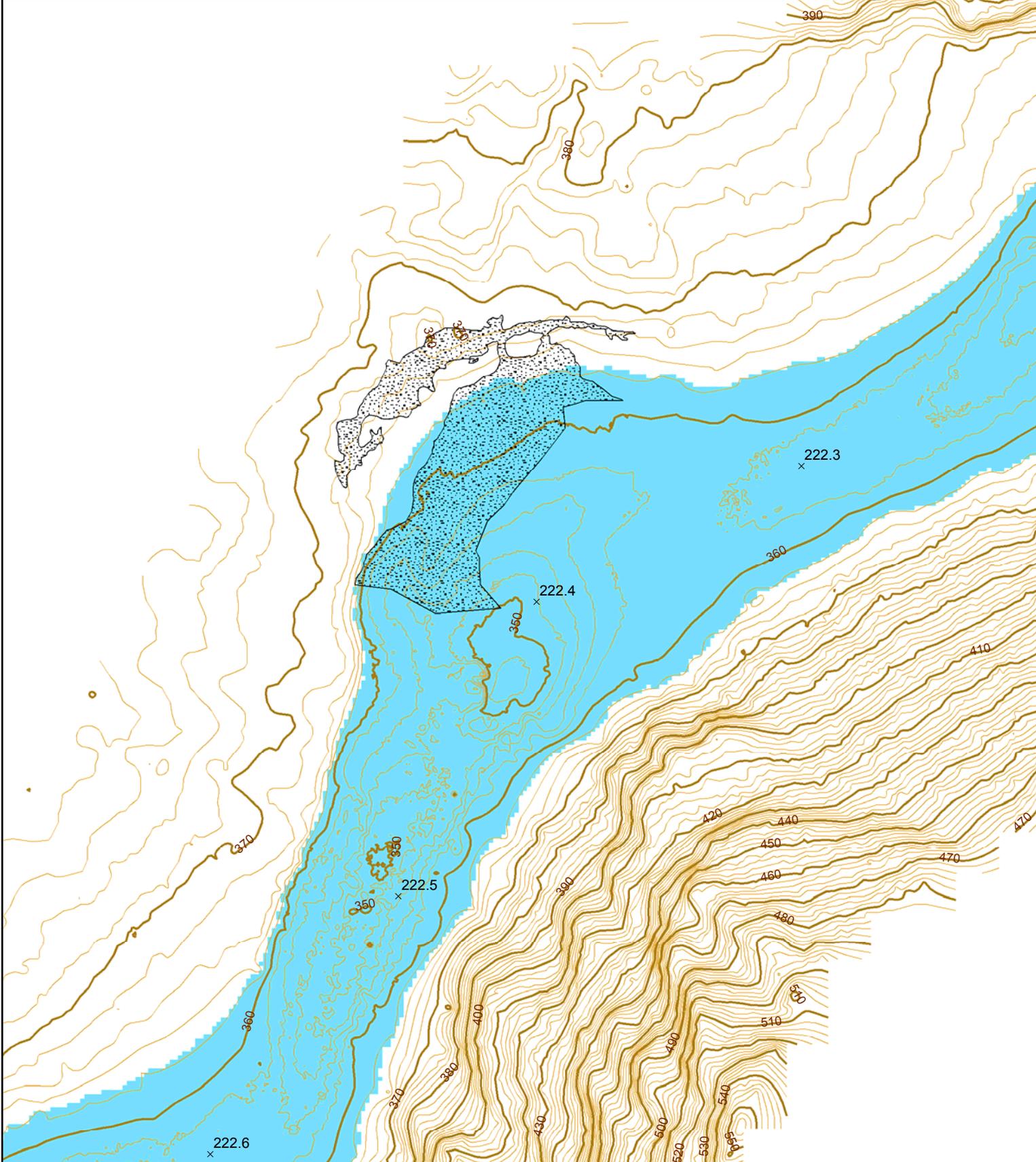
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Response to AIR SI, Figure B-8

Salt Creek Bar Inundation Map - 10000 cfs



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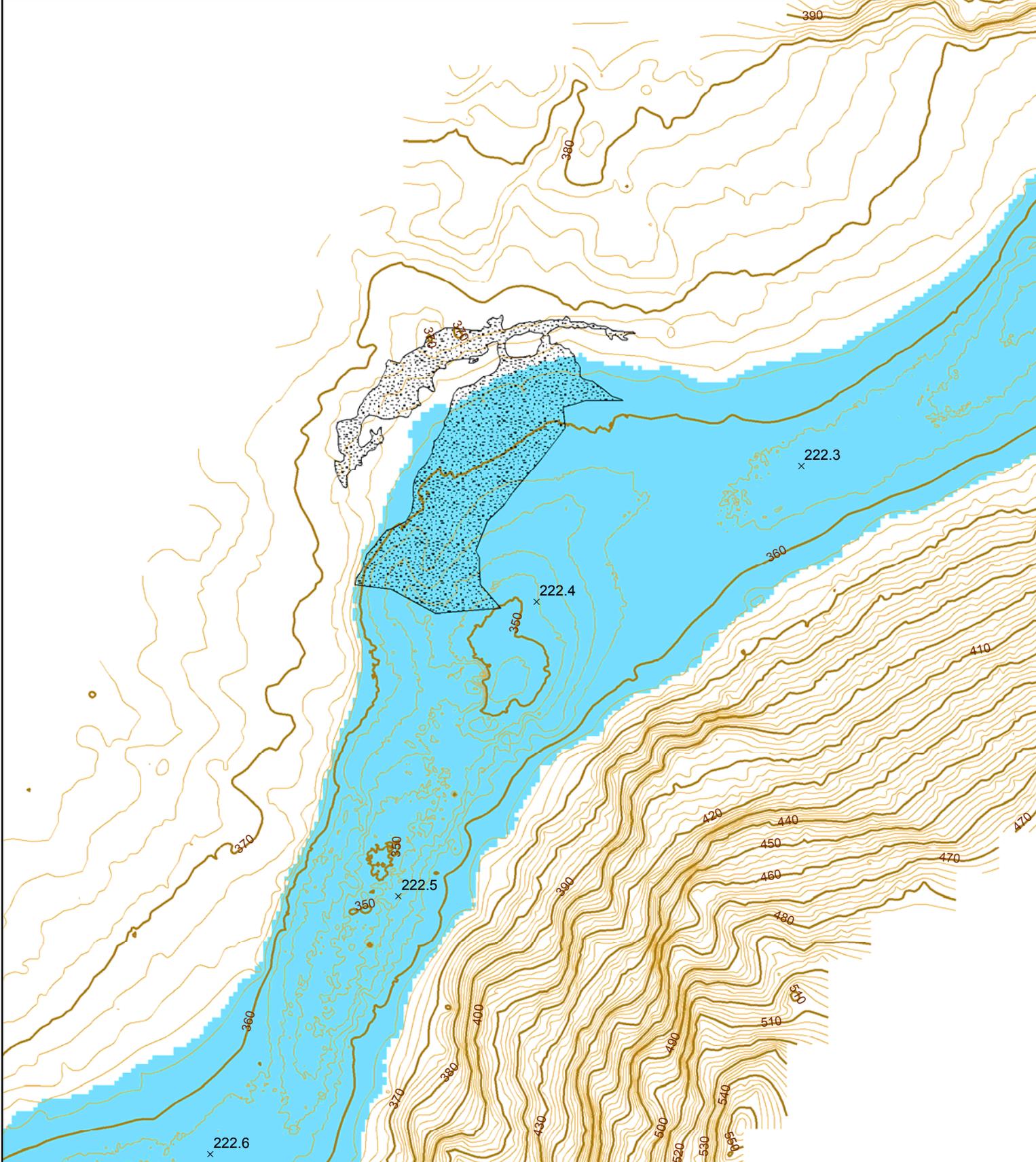
Features Legend

	Sand Polygon	×	River Mile
	Modeled Inundation Area	—	Intermediate Contour
		—	Index Contour (meters)

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Response to AIR SI, Figure B-9
Salt Creek Bar Inundation Map - 15000 cfs



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Features Legend

	Sand Polygon		River Mile	
	Modeled Inundation Area		Intermediate Contour	
			Index Contour (meters)	

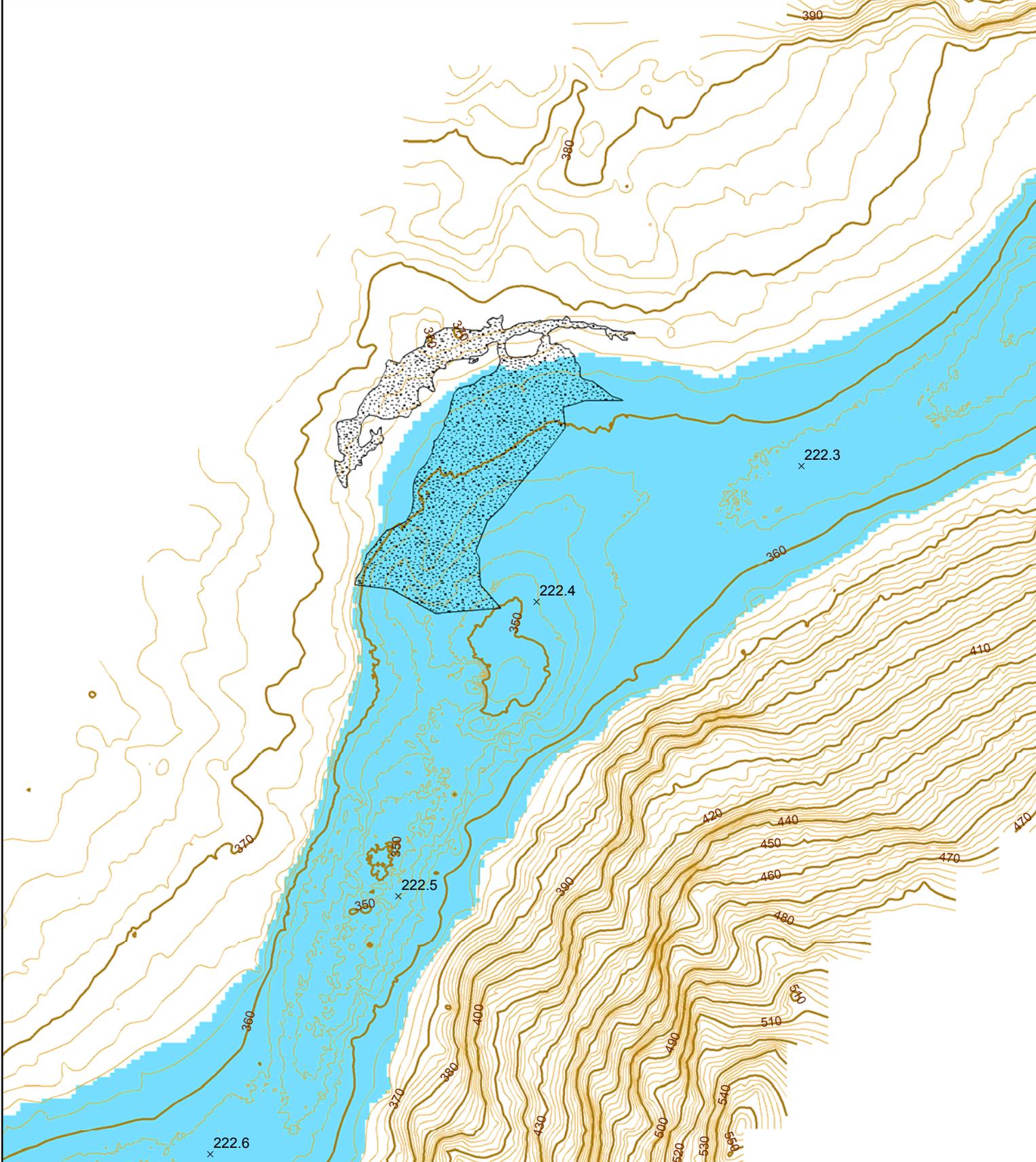
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Response to AIR SI, Figure B-10

Salt Creek Bar Inundation Map - 20000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



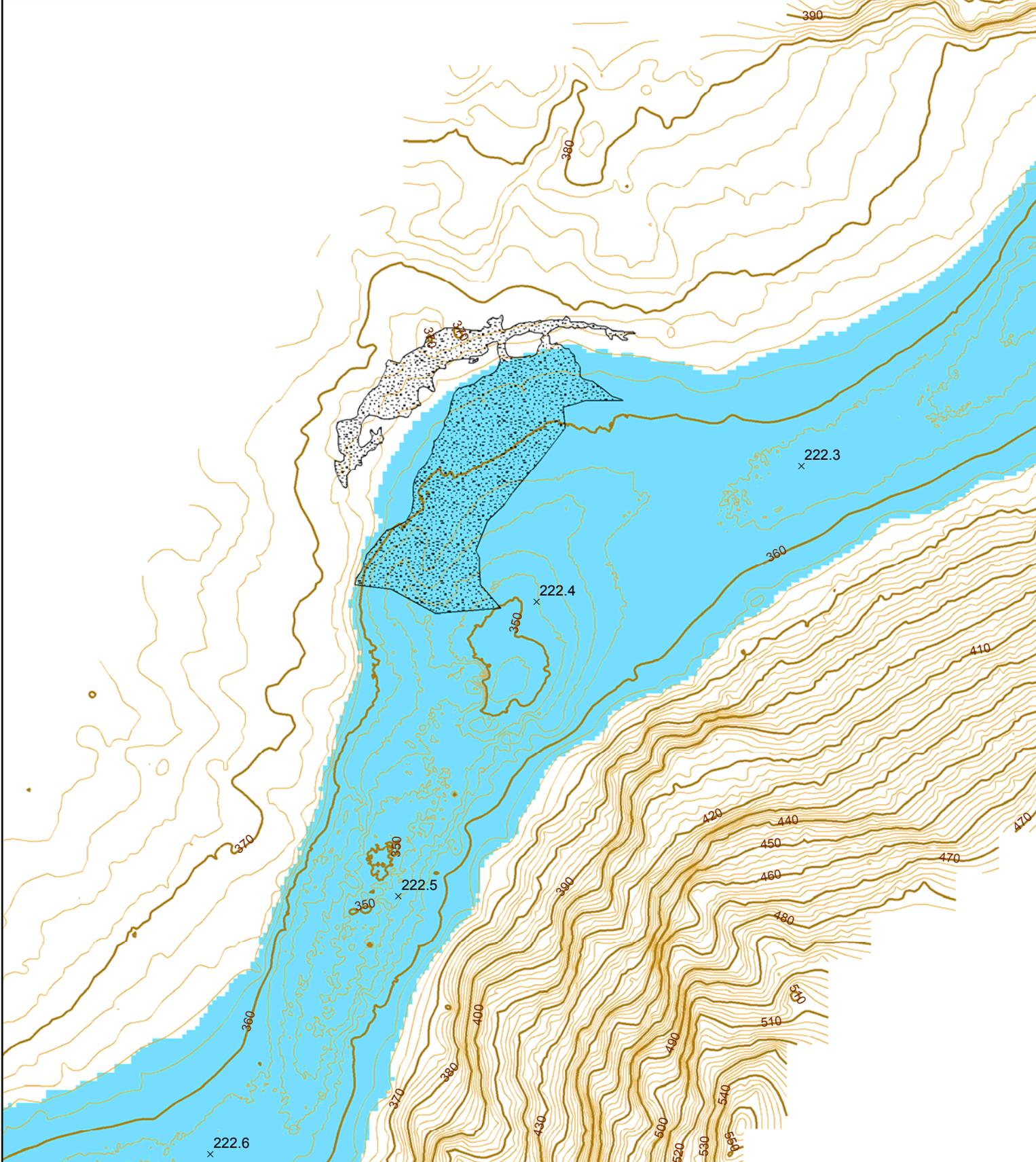
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Response to AIR SI, Figure B-11

Salt Creek Bar Inundation Map - 25000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



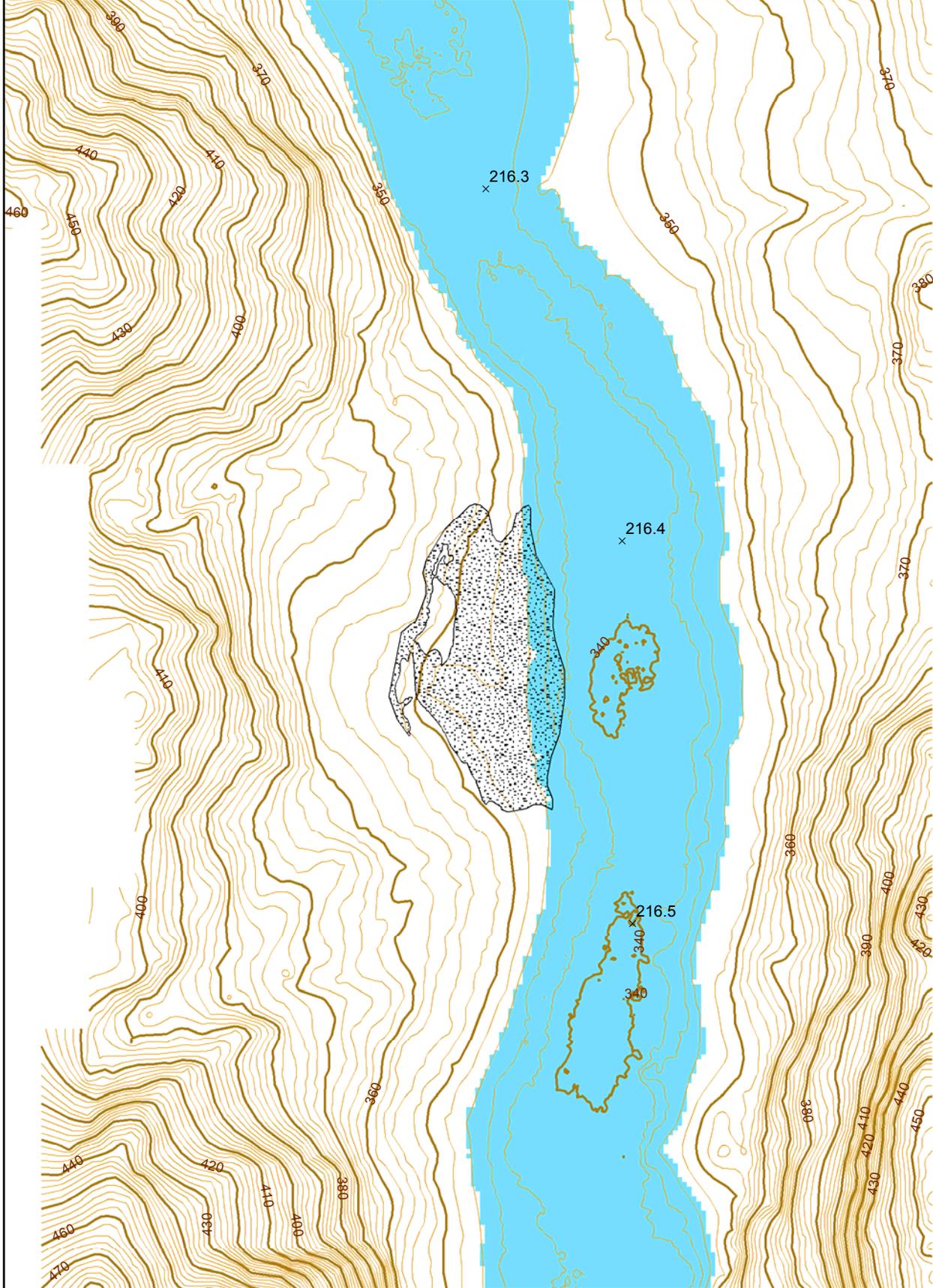
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Response to AIR SI, Figure B-12

Salt Creek Bar Inundation Map - 30000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



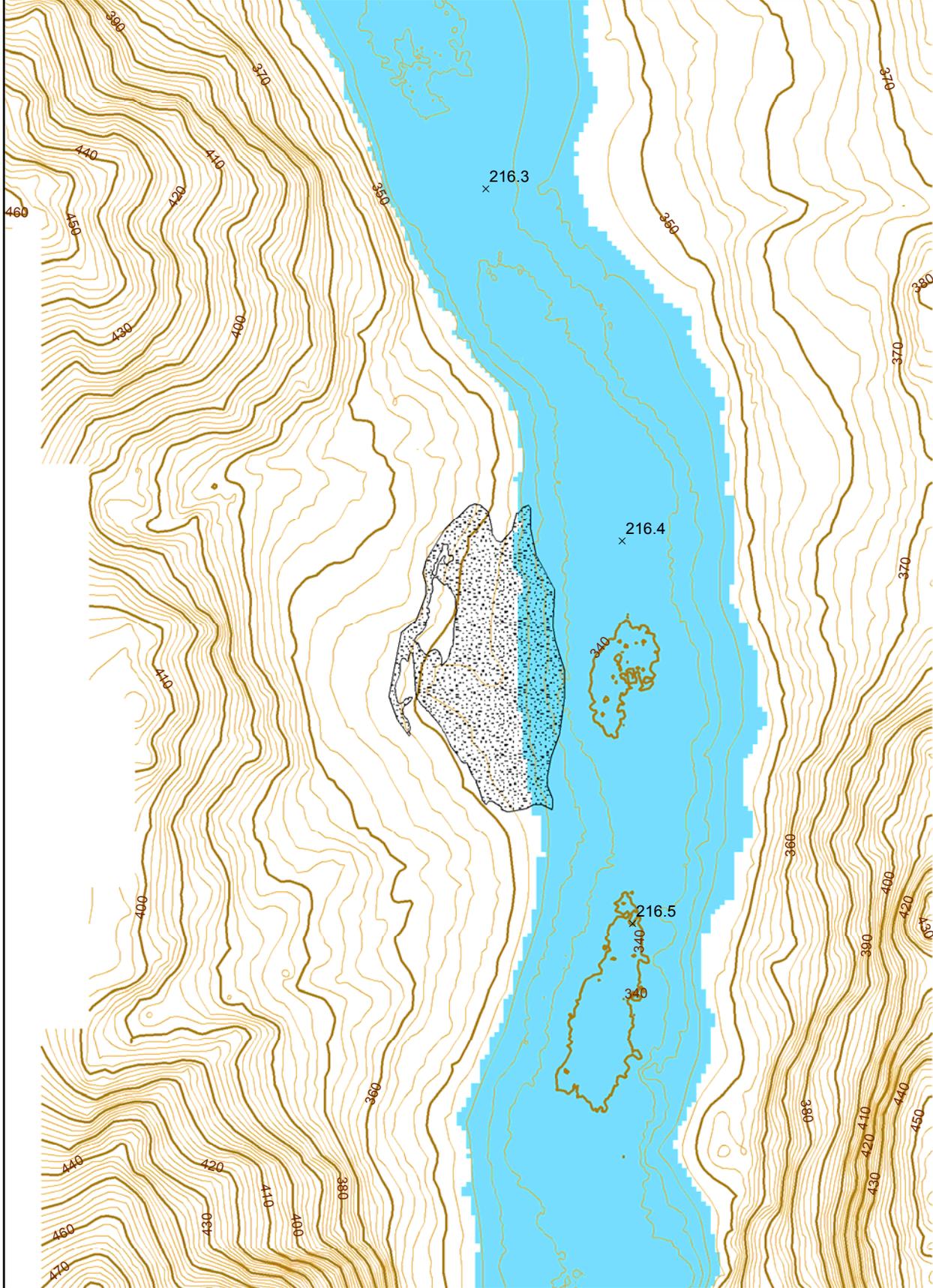
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Response to AIR SI, Figure B-13

Fish Trap Bar Inundation Map - 5000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



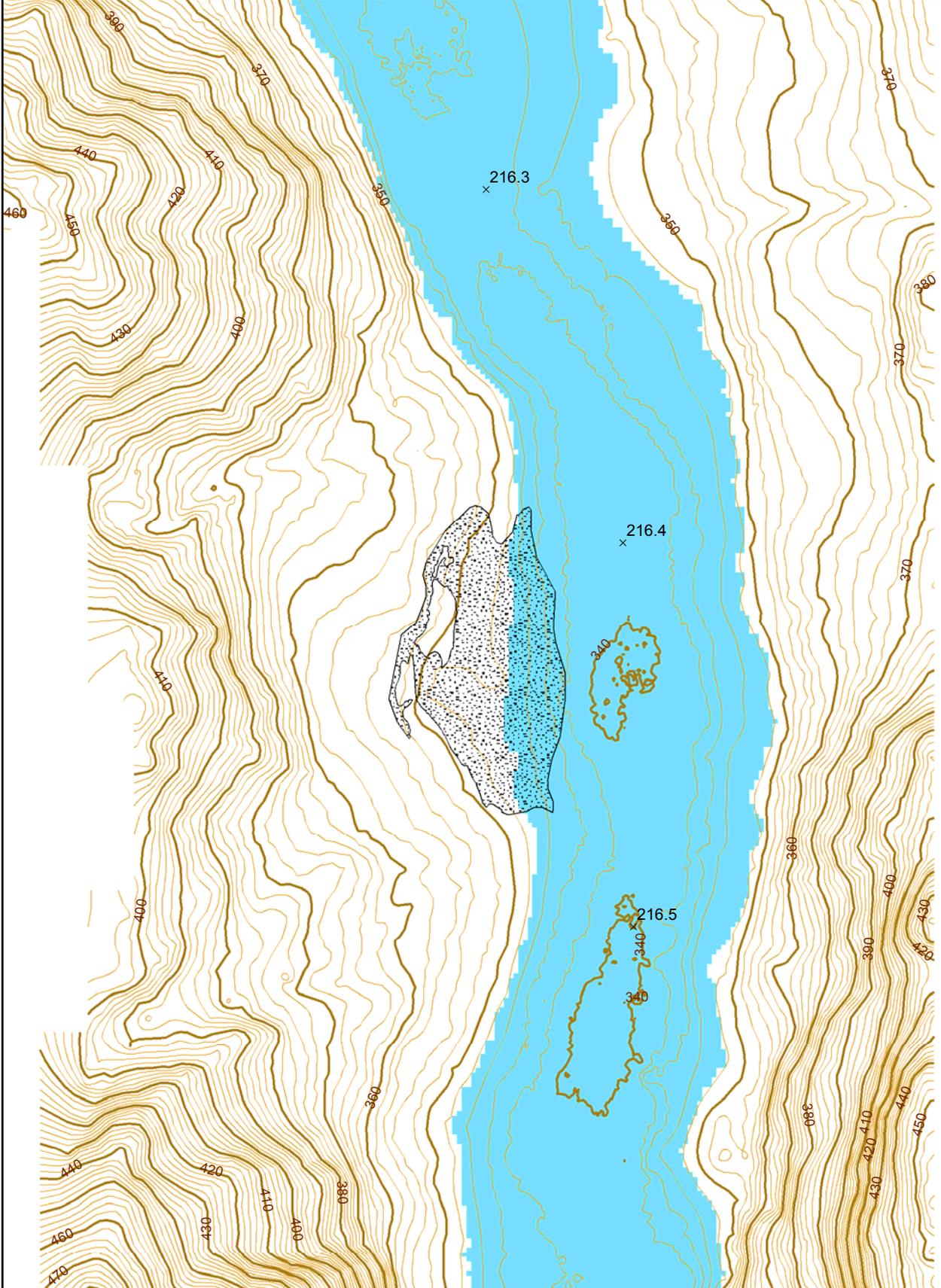
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Response to AIR SI, Figure B-14

Fish Trap Bar Inundation Map - 10000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



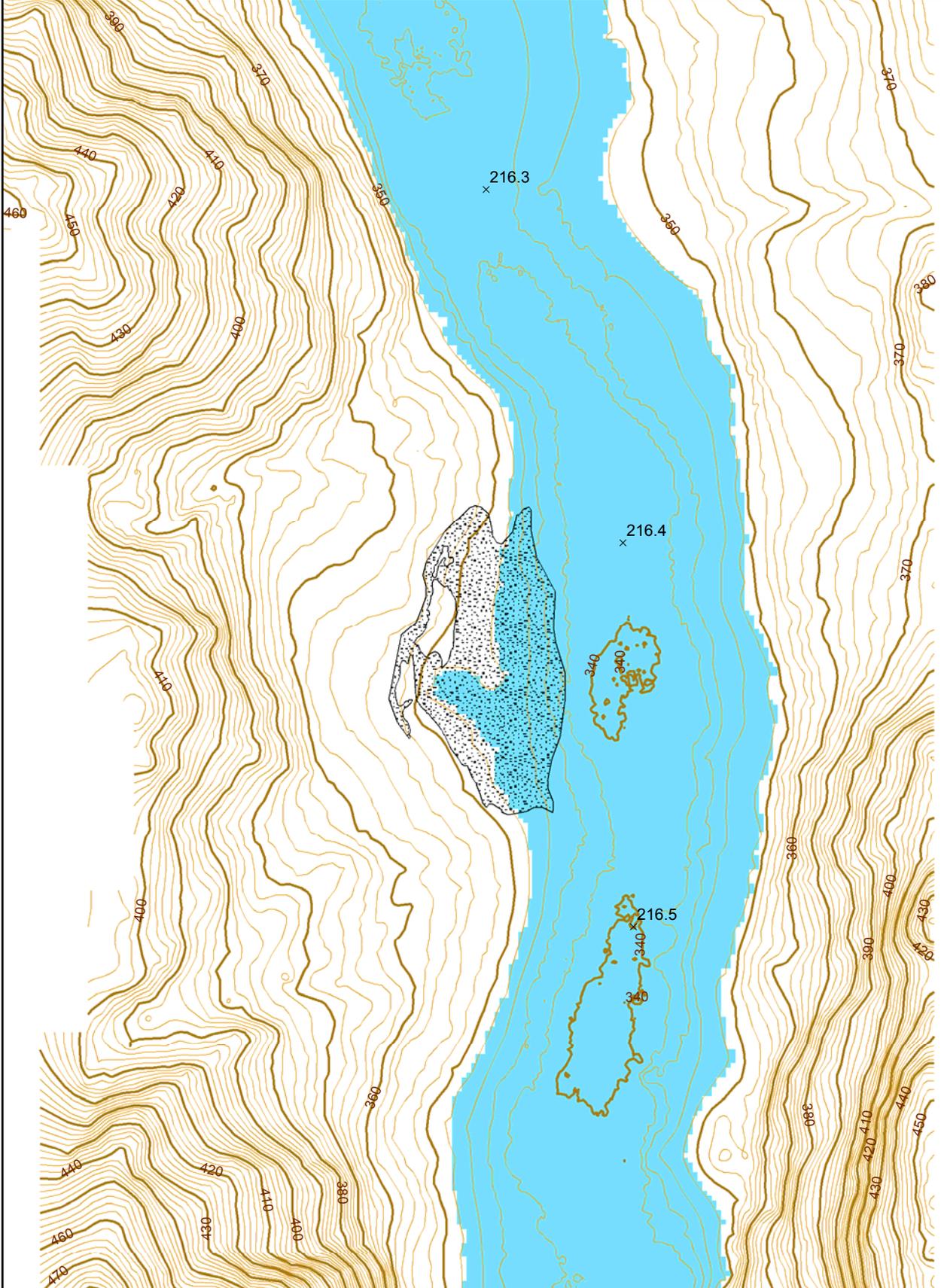
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Response to AIR SI, Figure B-15

Fish Trap Bar Inundation Map - 15000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



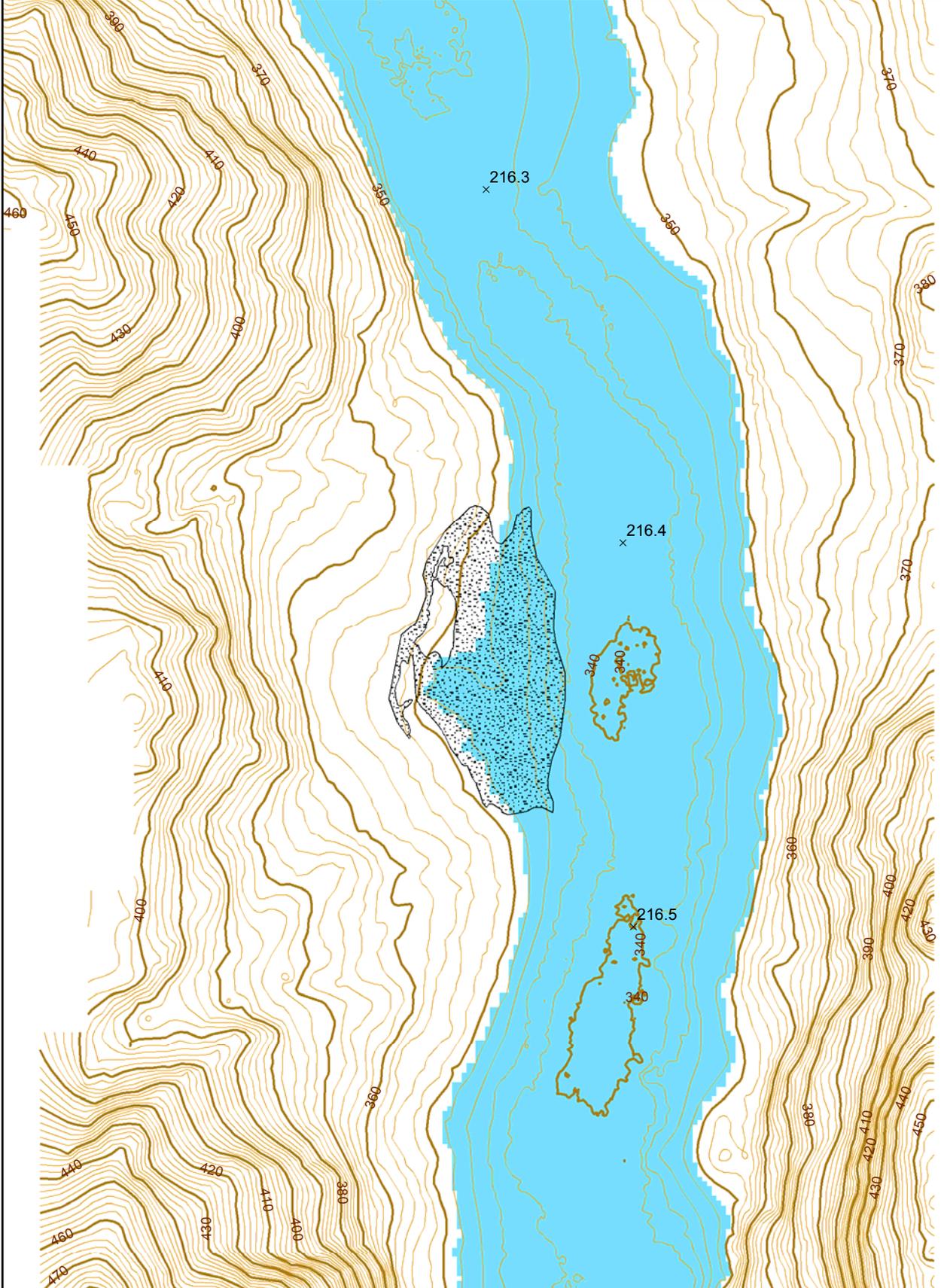
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Response to AIR SI, Figure B-16

Fish Trap Bar Inundation Map - 20000 cfs



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Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  River Mile
-  Intermediate Contour
-  Index Contour (meters)



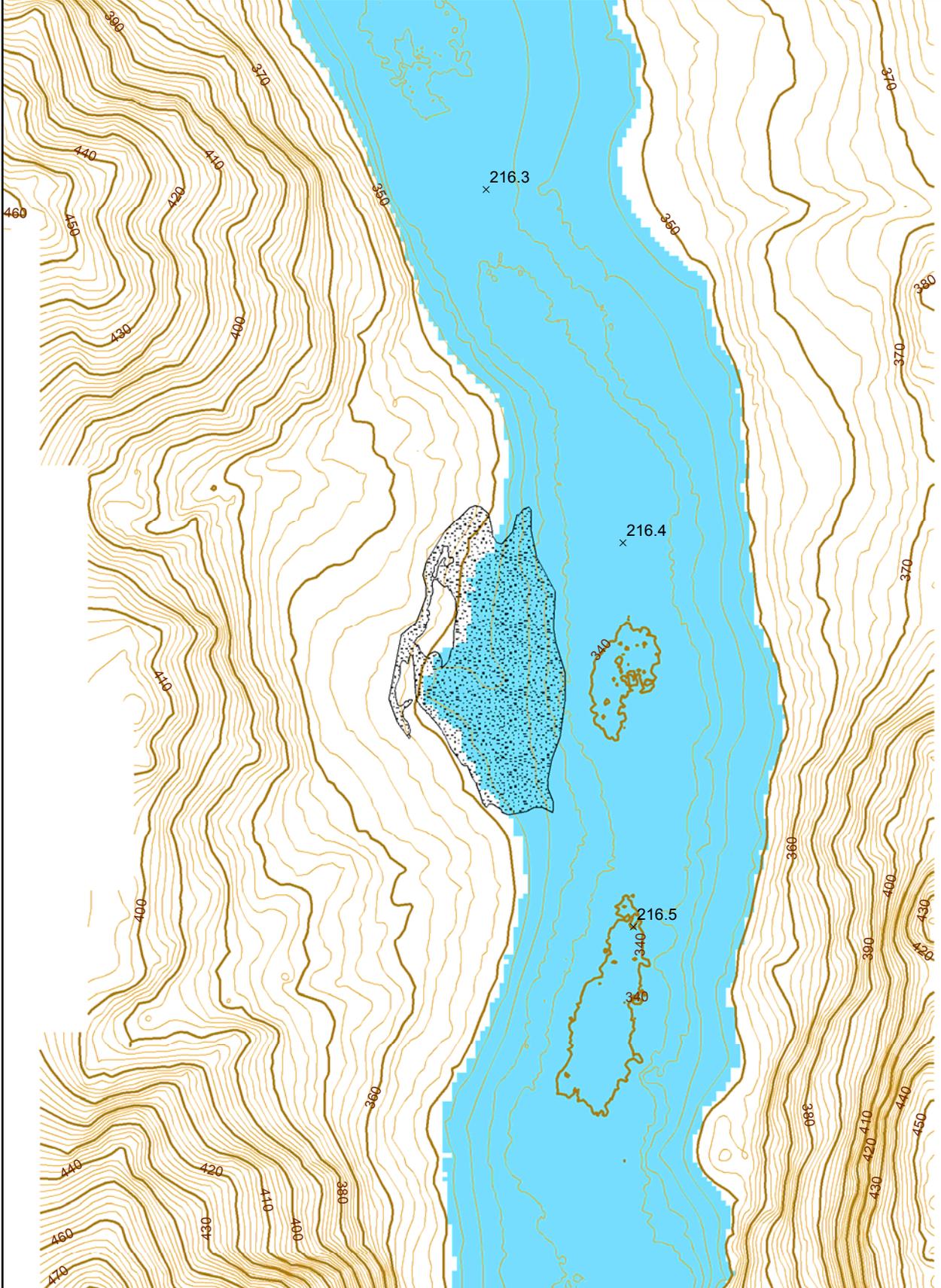
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Response to AIR SI, Figure B-17

Fish Trap Bar Inundation Map - 25000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  × River Mile
-  Intermediate Contour
-  Index Contour (meters)



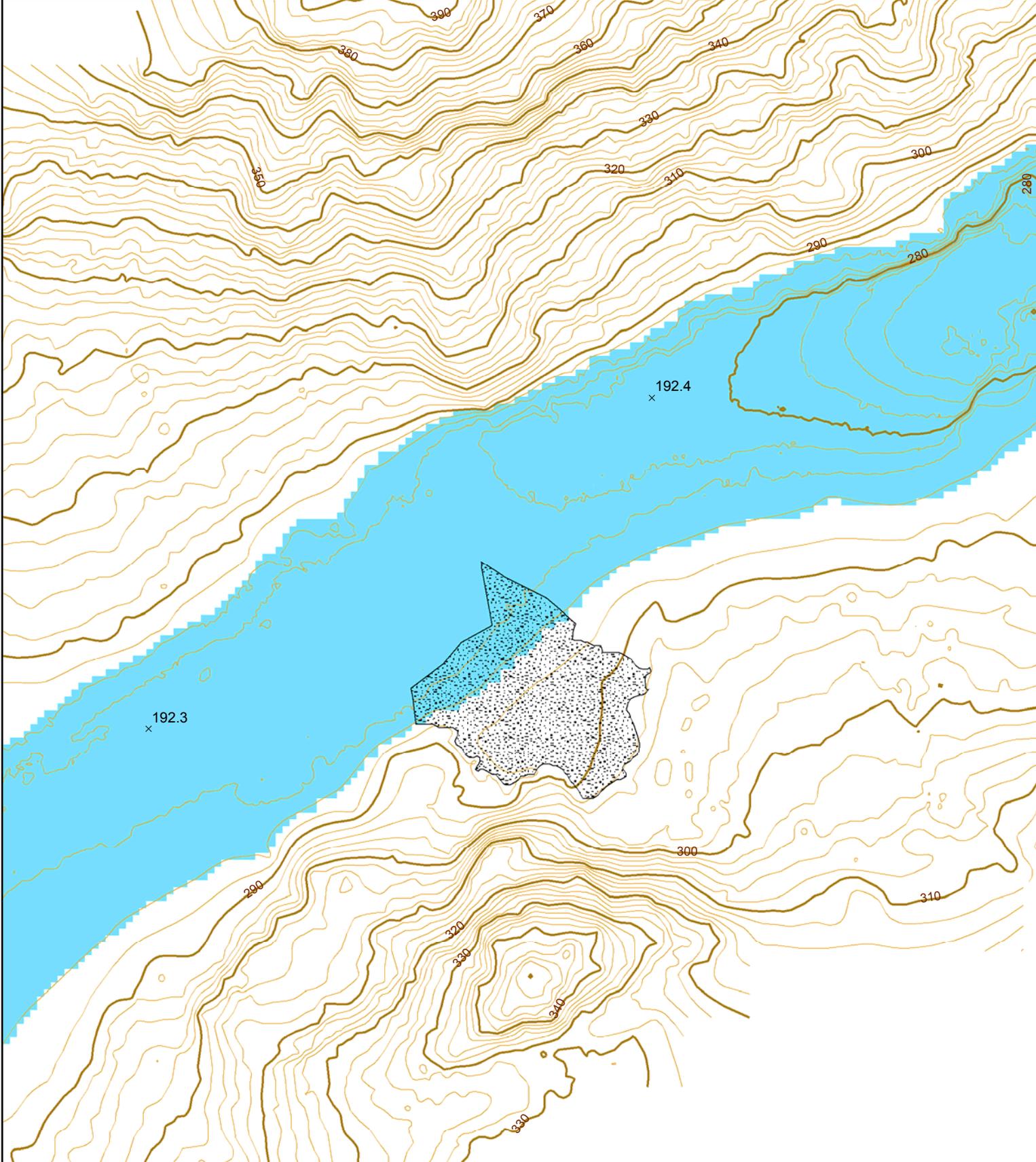
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Response to AIR SI, Figure B-18

Fish Trap Bar Inundation Map - 30000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



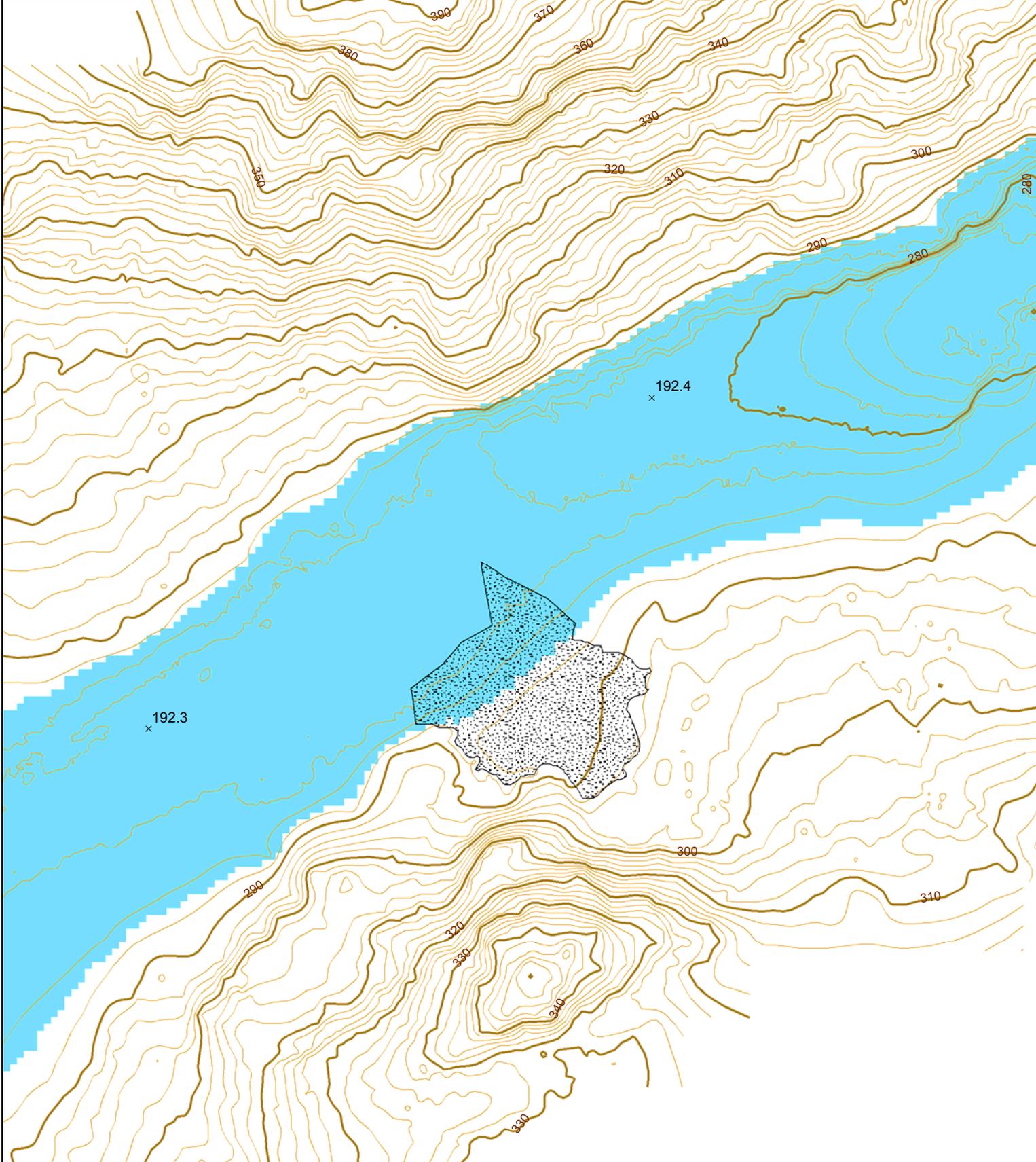
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Response to AIR SI, Figure B-19

China Bar Inundation Map - 5000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



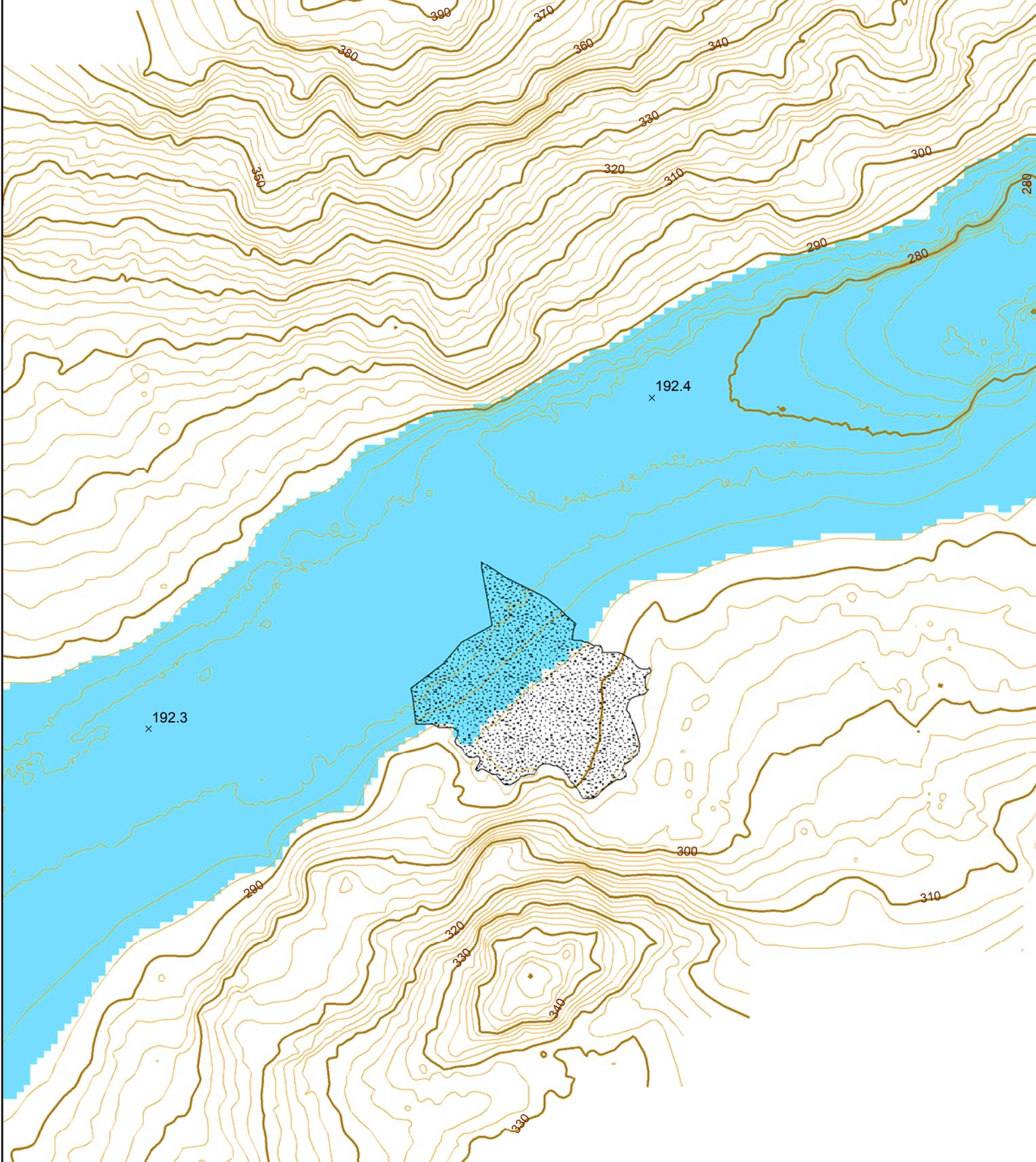
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Response to AIR SI, Figure B-20

China Bar Inundation Map - 10000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



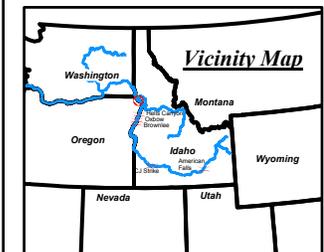
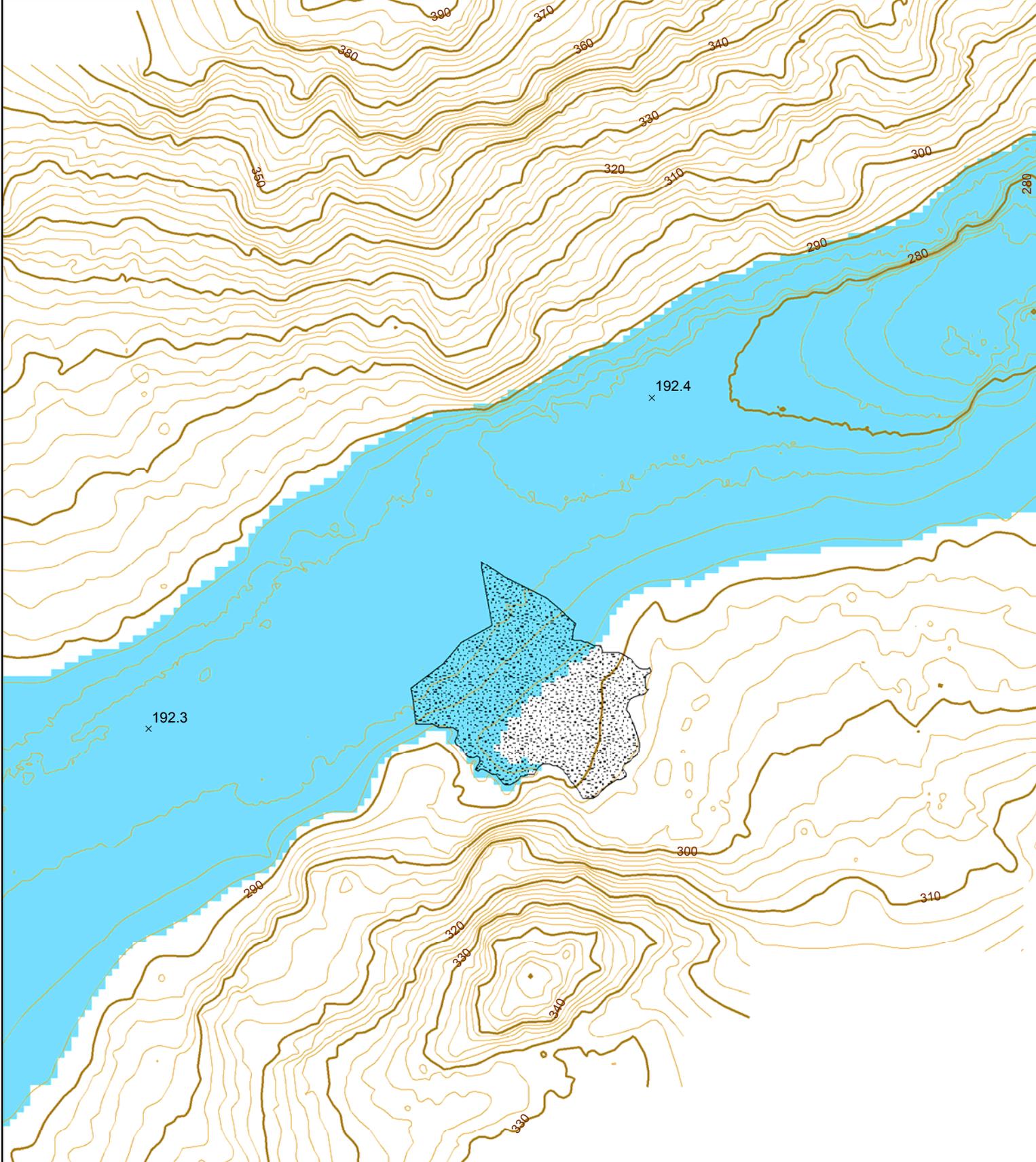
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Response to AIR S1, Figure B-21

China Bar Inundation Map - 15000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



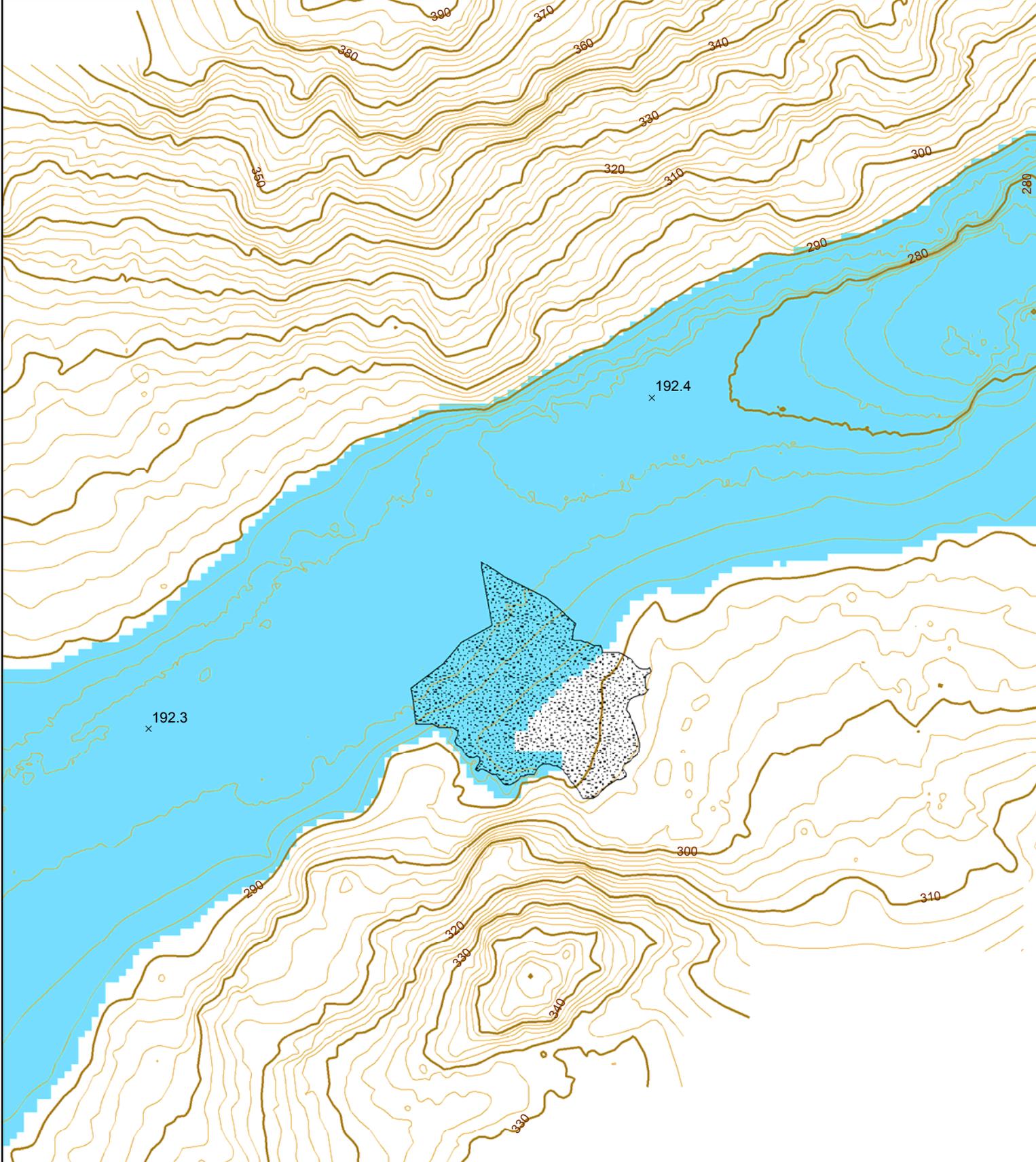
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Response to AIR SI, Figure B-22

China Bar Inundation Map - 20000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  × River Mile
-  Intermediate Contour
-  Index Contour (meters)



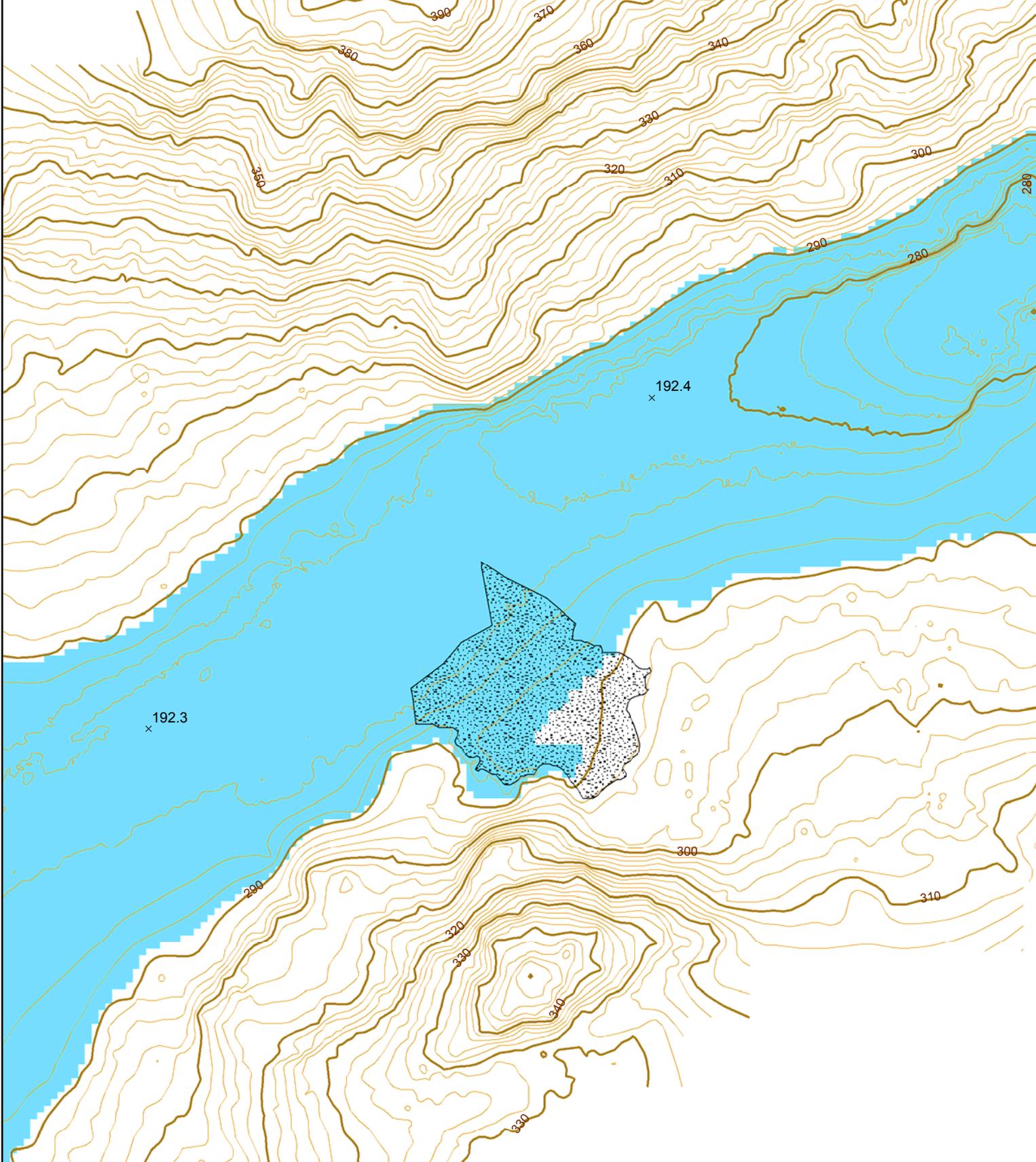
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure B-23

China Bar Inundation Map - 25000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  Modeled Inundation Area
-  Intermediate Contour
-  Index Contour (meters)
-  River Mile



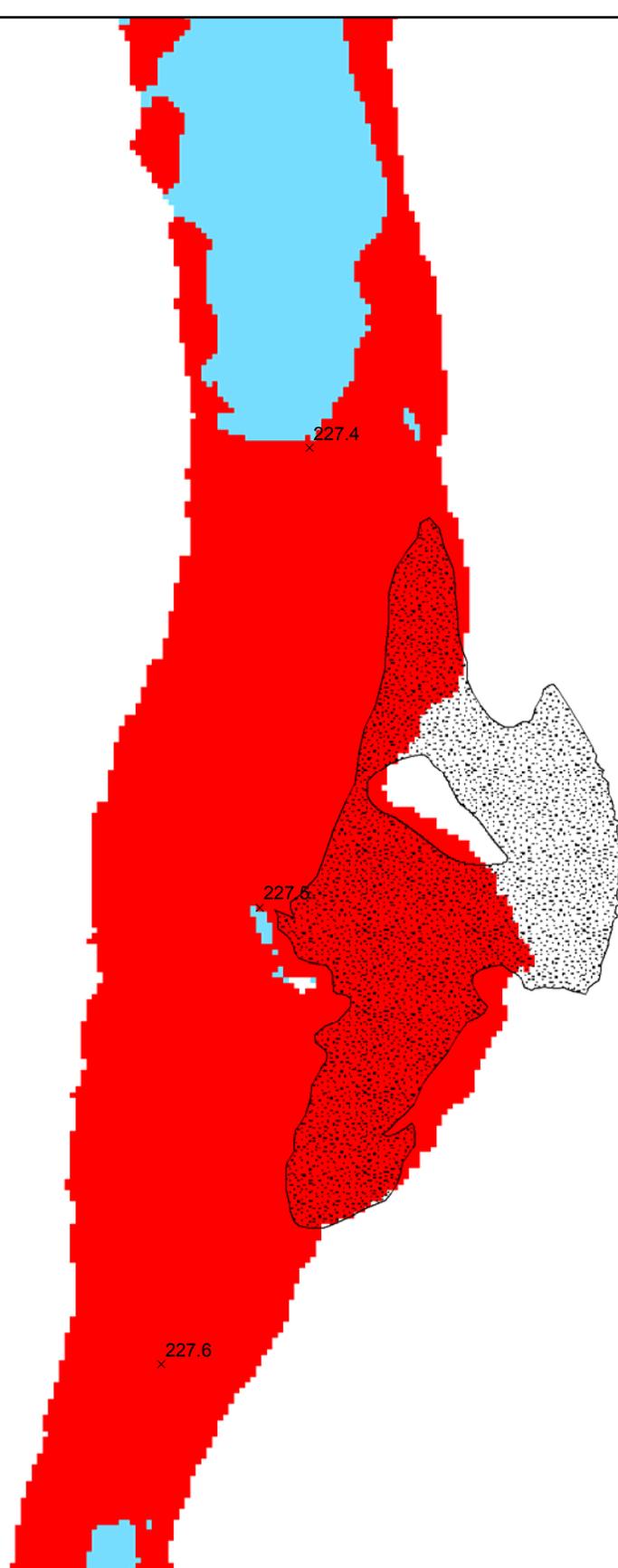
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure B-24

China Bar Inundation Map - 30000 cfs



01/10/05



Features Legend

	Sand Polygon	×	River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



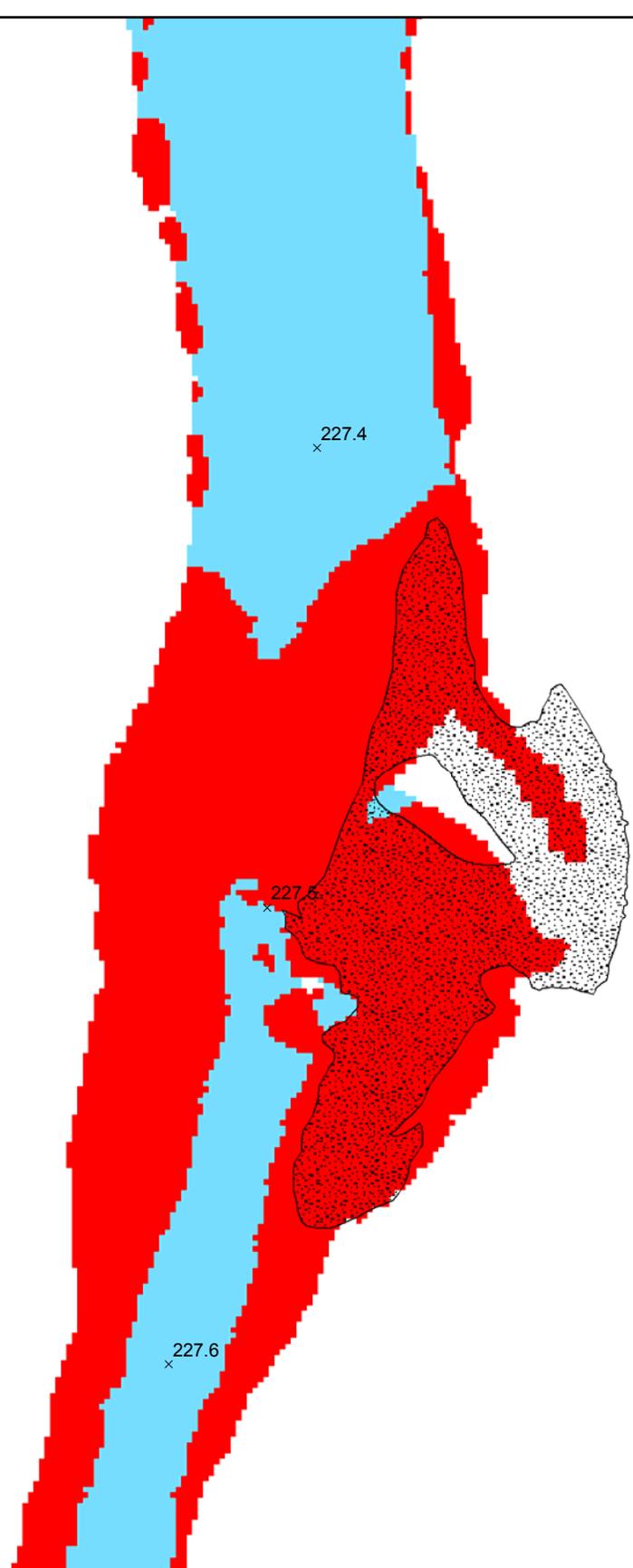
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-1

Pine Bar Sand Mobility Map - 5000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



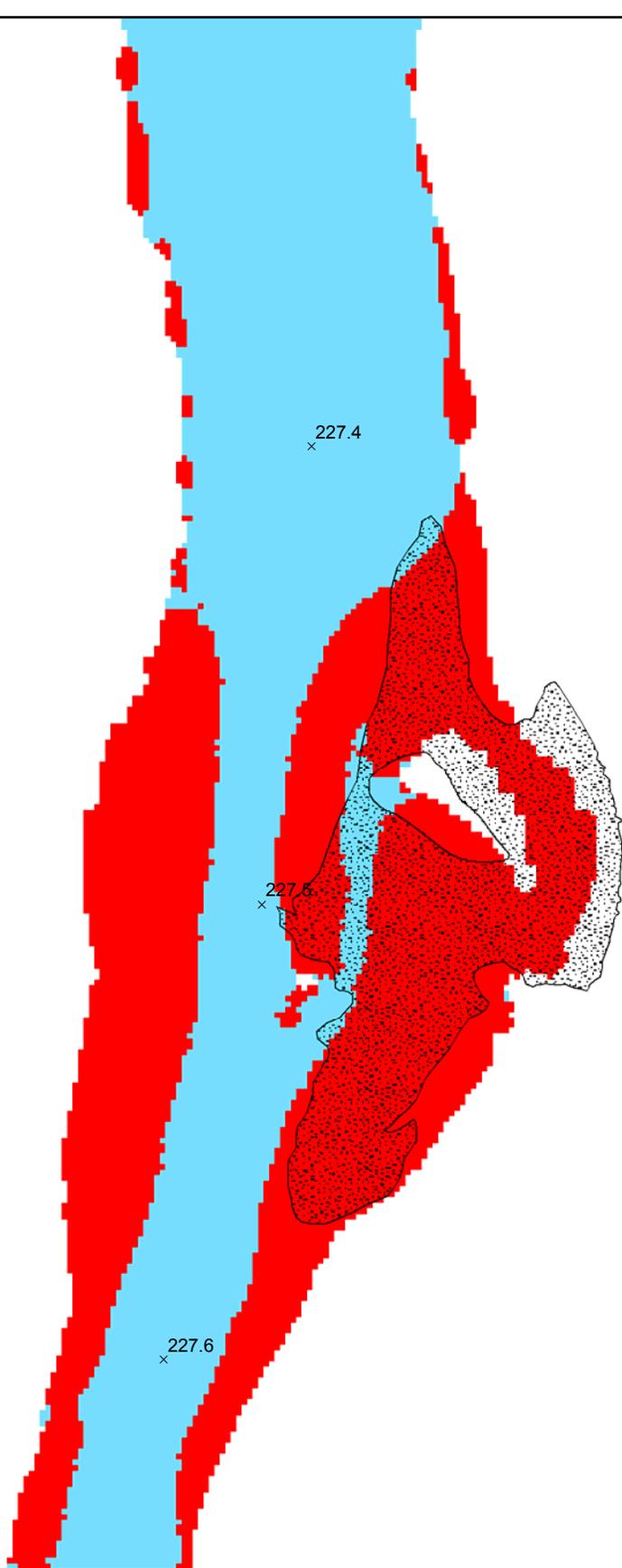
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-2

Pine Bar Sand Mobility Map - 10000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



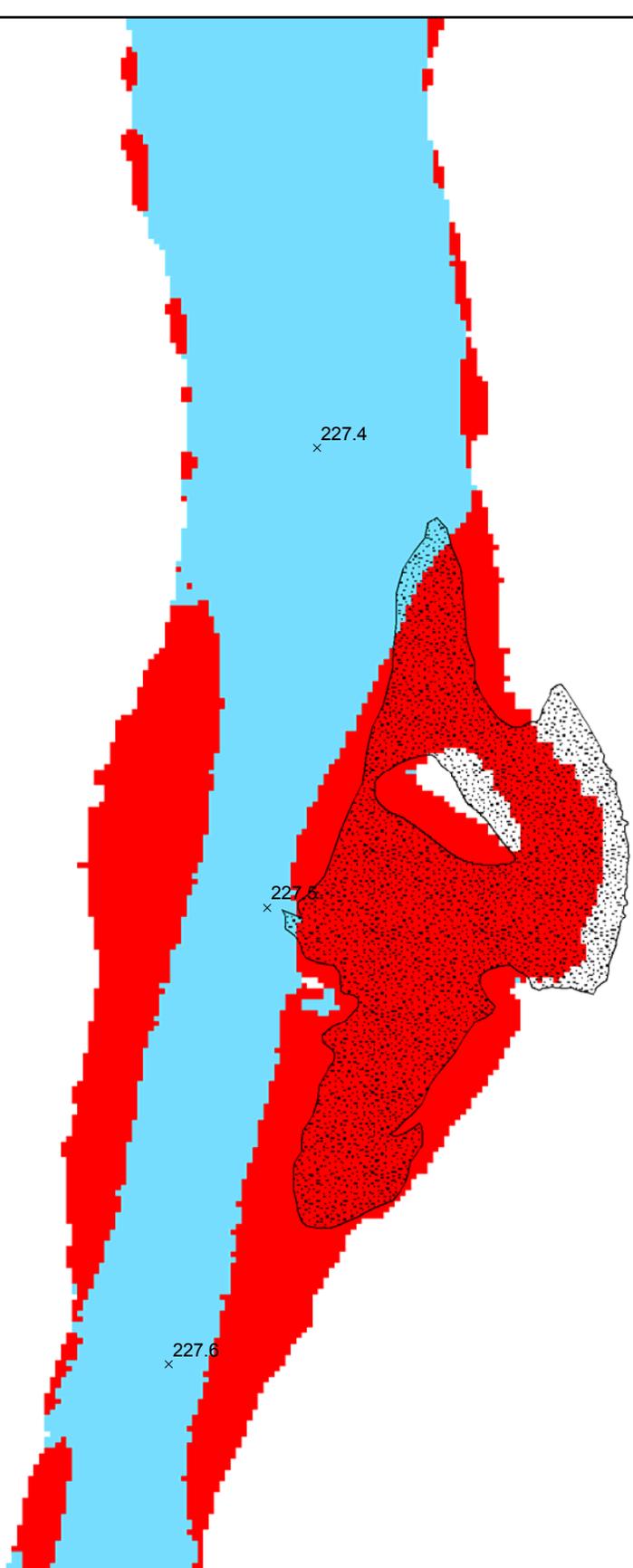
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-3

Pine Bar Sand Mobility Map - 15000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  1.0 mm Mobile
-  1.0 mm Stable
-  River Mile



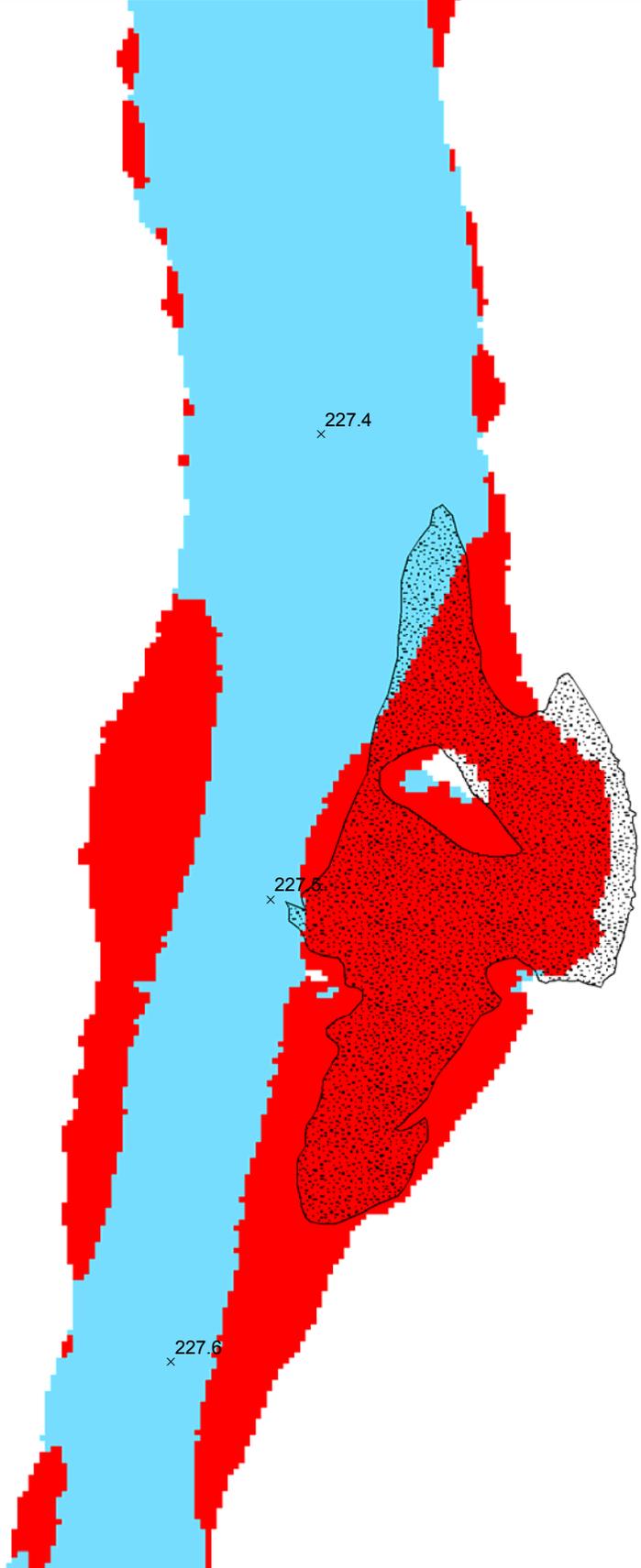
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-4

Pine Bar Sand Mobility Map - 20000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



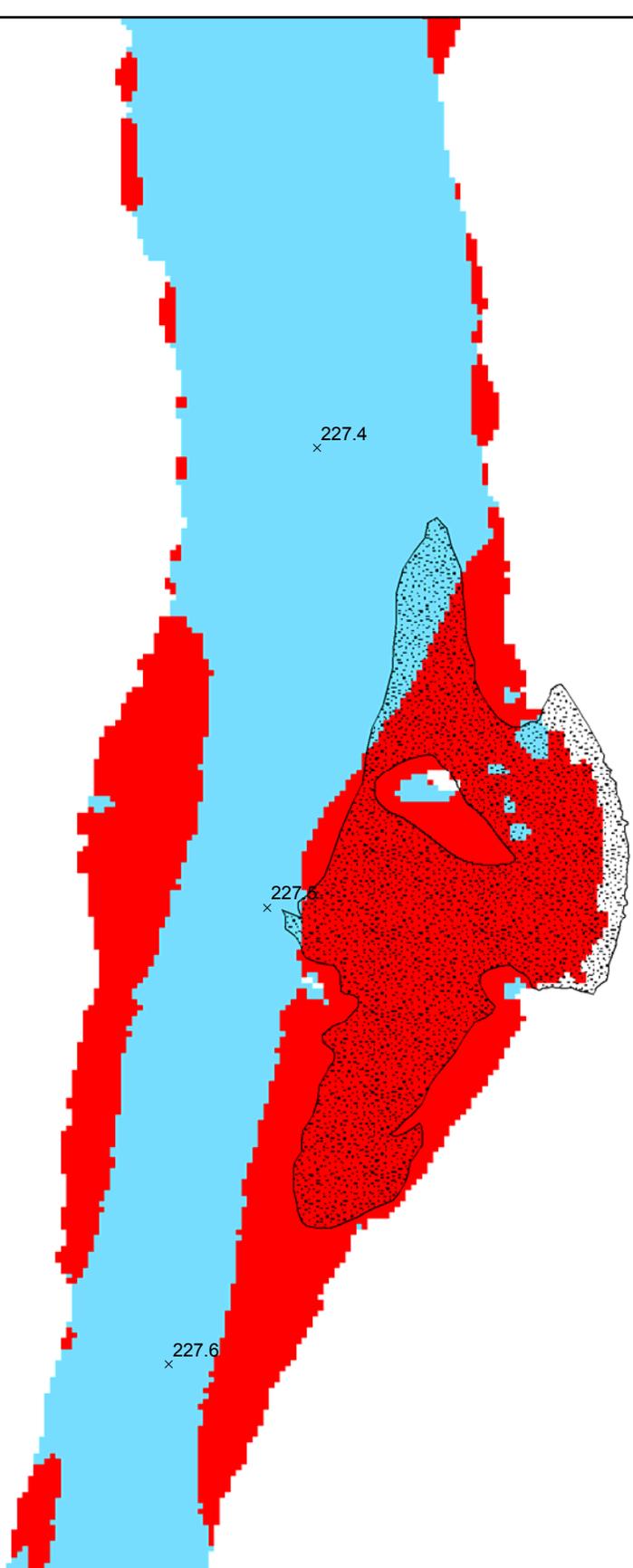
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure C-5

Pine Bar Sand Mobility Map - 25000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



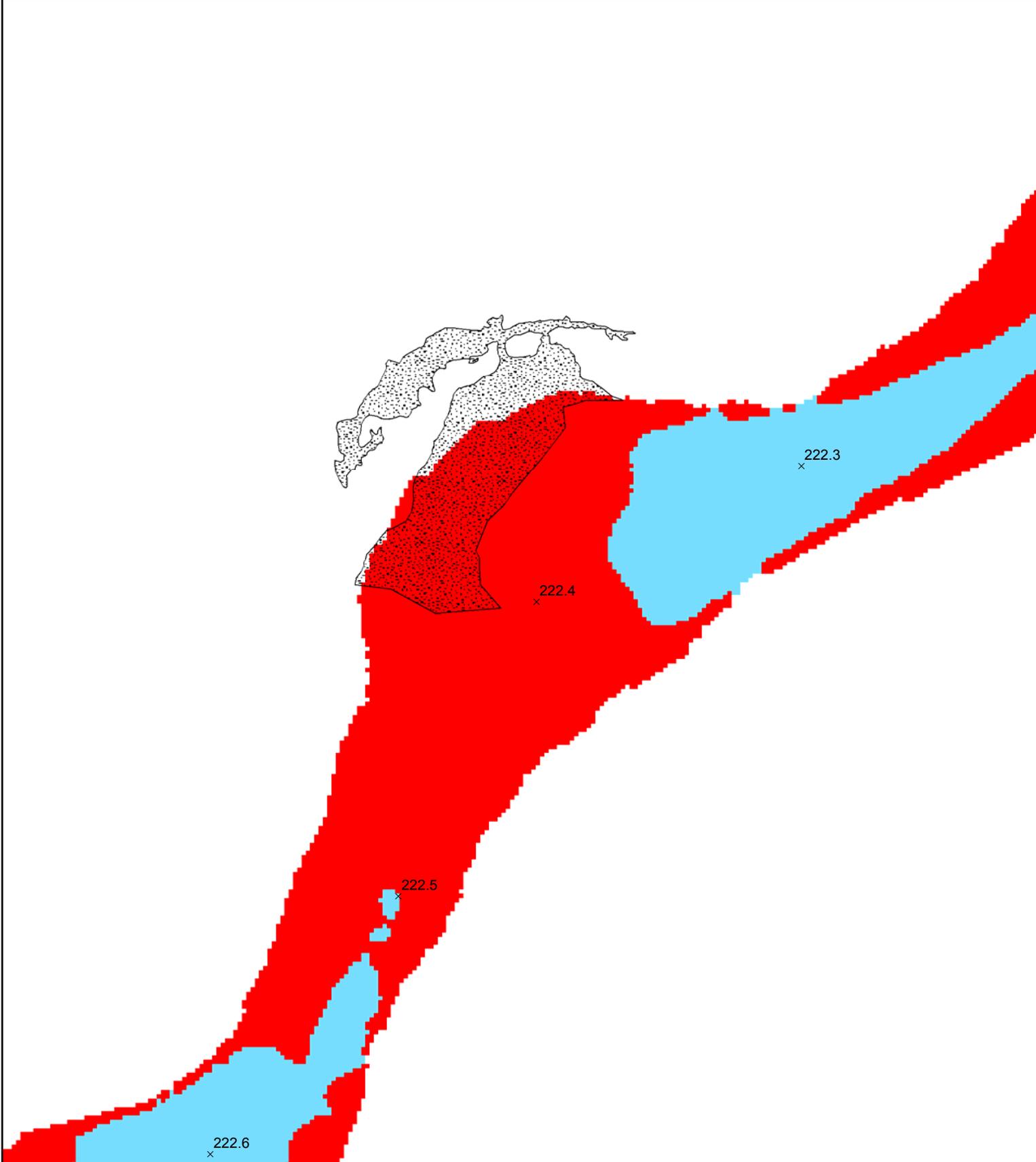
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure C-6

Pine Bar Sand Mobility Map - 30000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



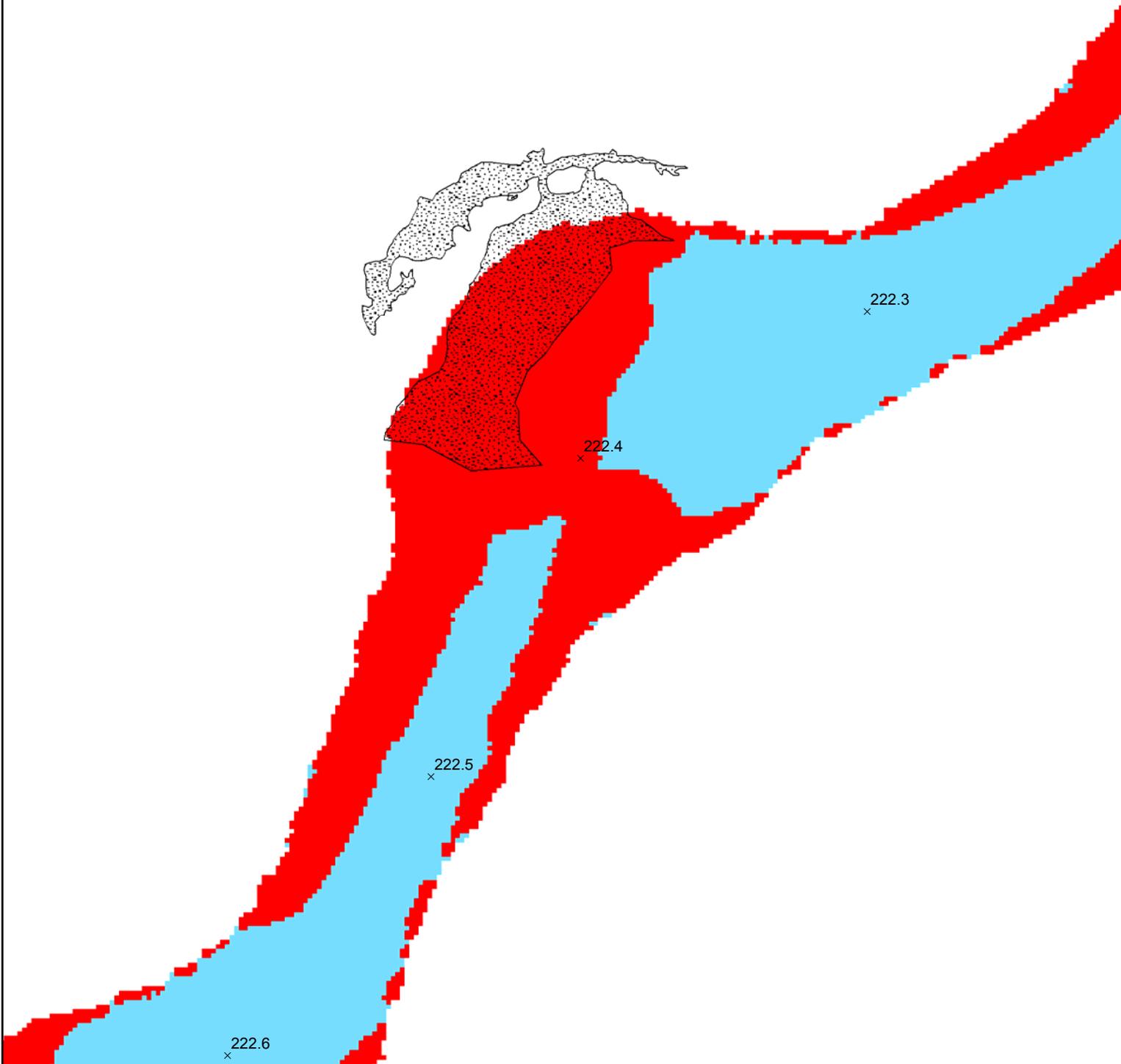
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-7

Salt Creek Bar Sand Mobility Map - 5000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



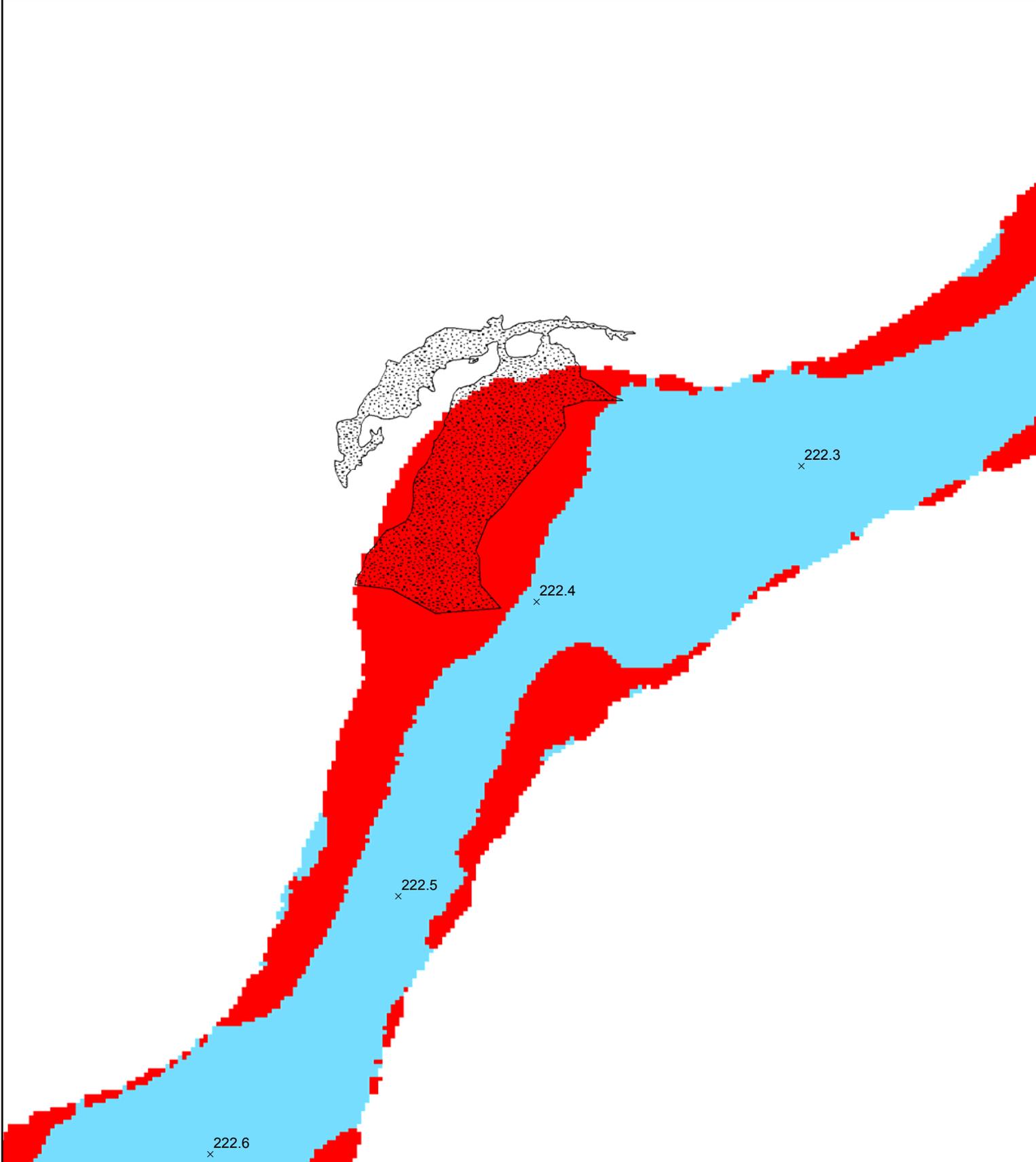
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure C-8

Salt Creek Bar Sand Mobility Map - 10000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



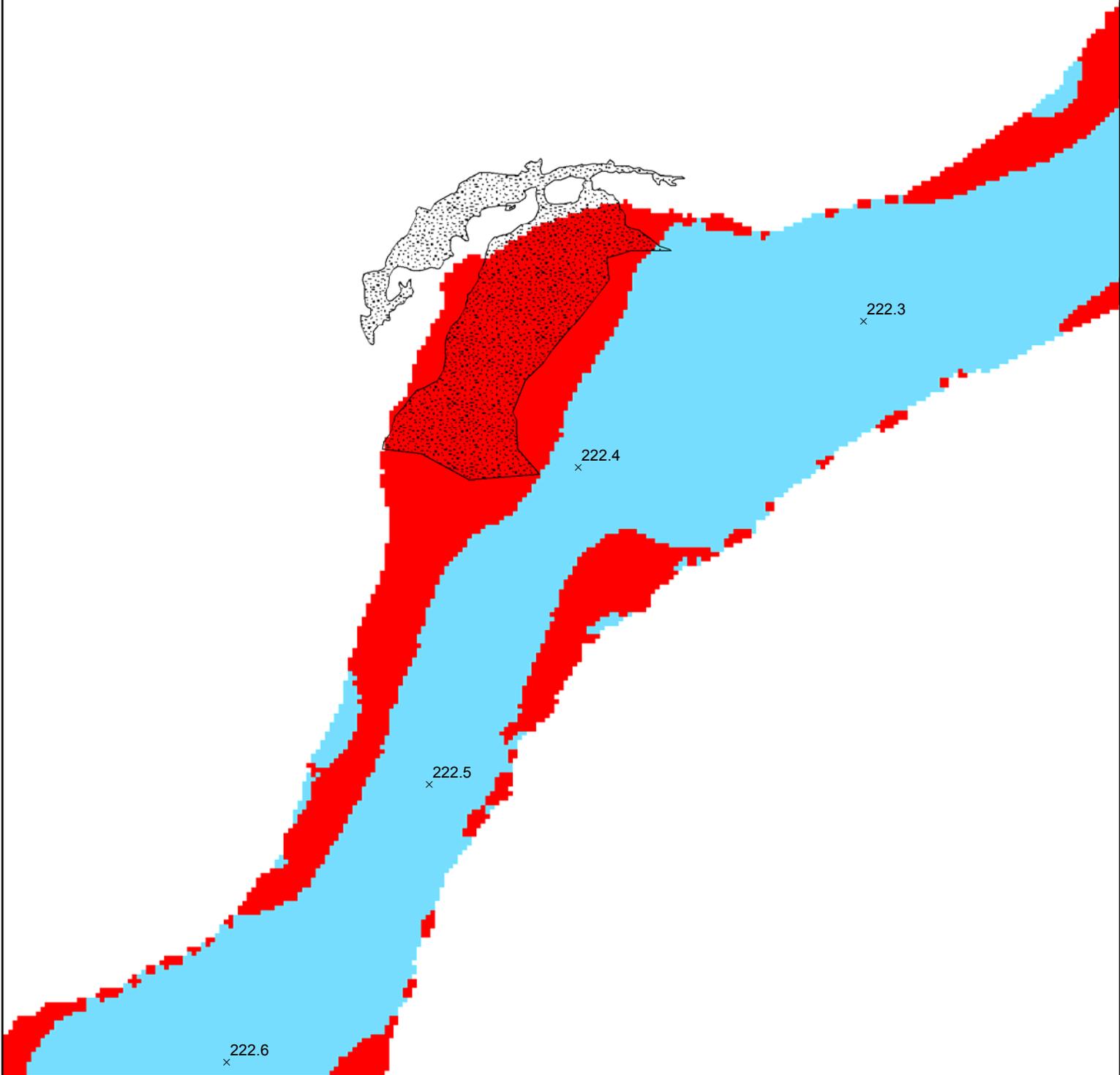
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-9

Salt Creek Bar Sand Mobility Map - 15000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



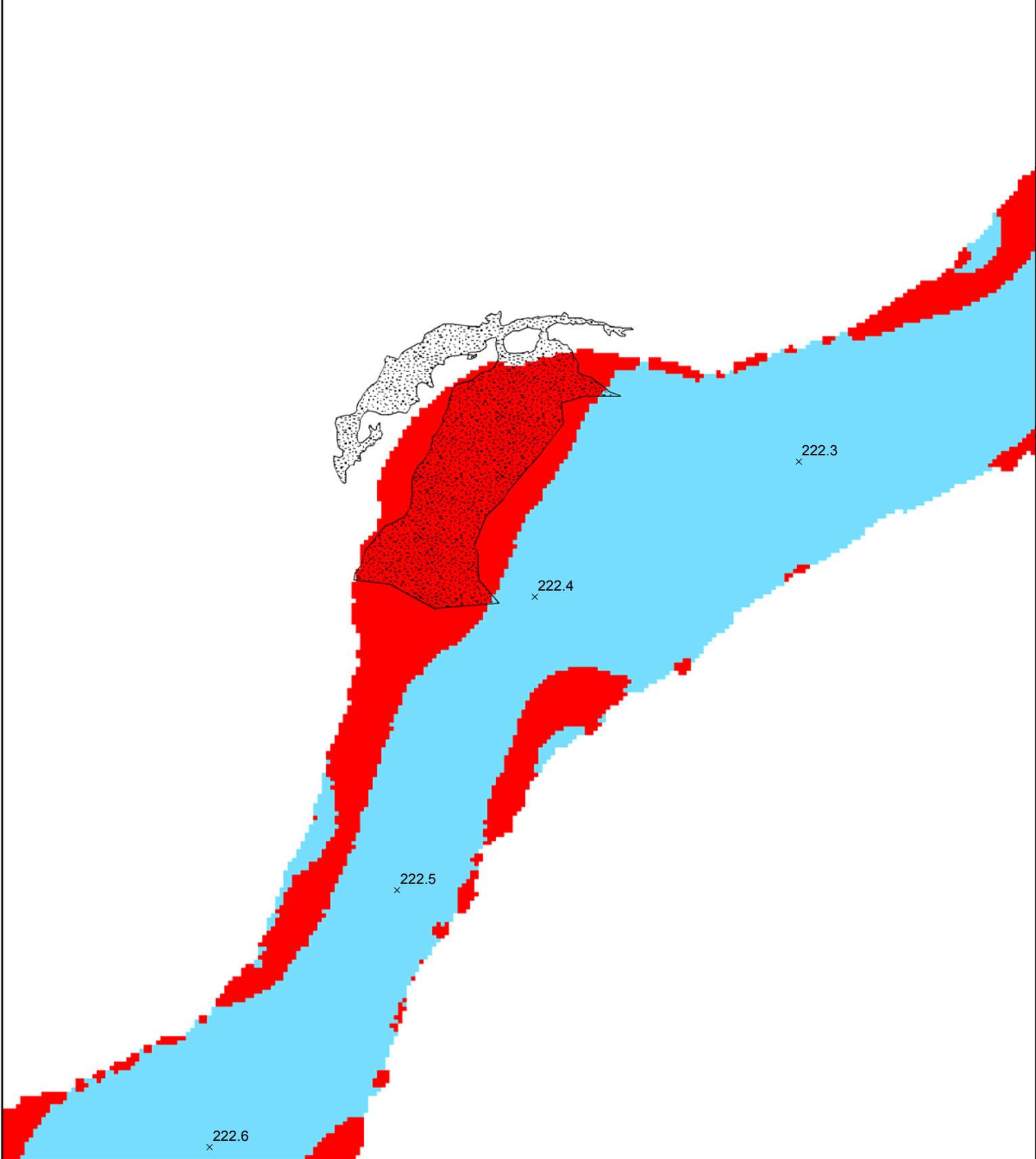
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-10

Salt Creek Bar Sand Mobility Map - 20000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



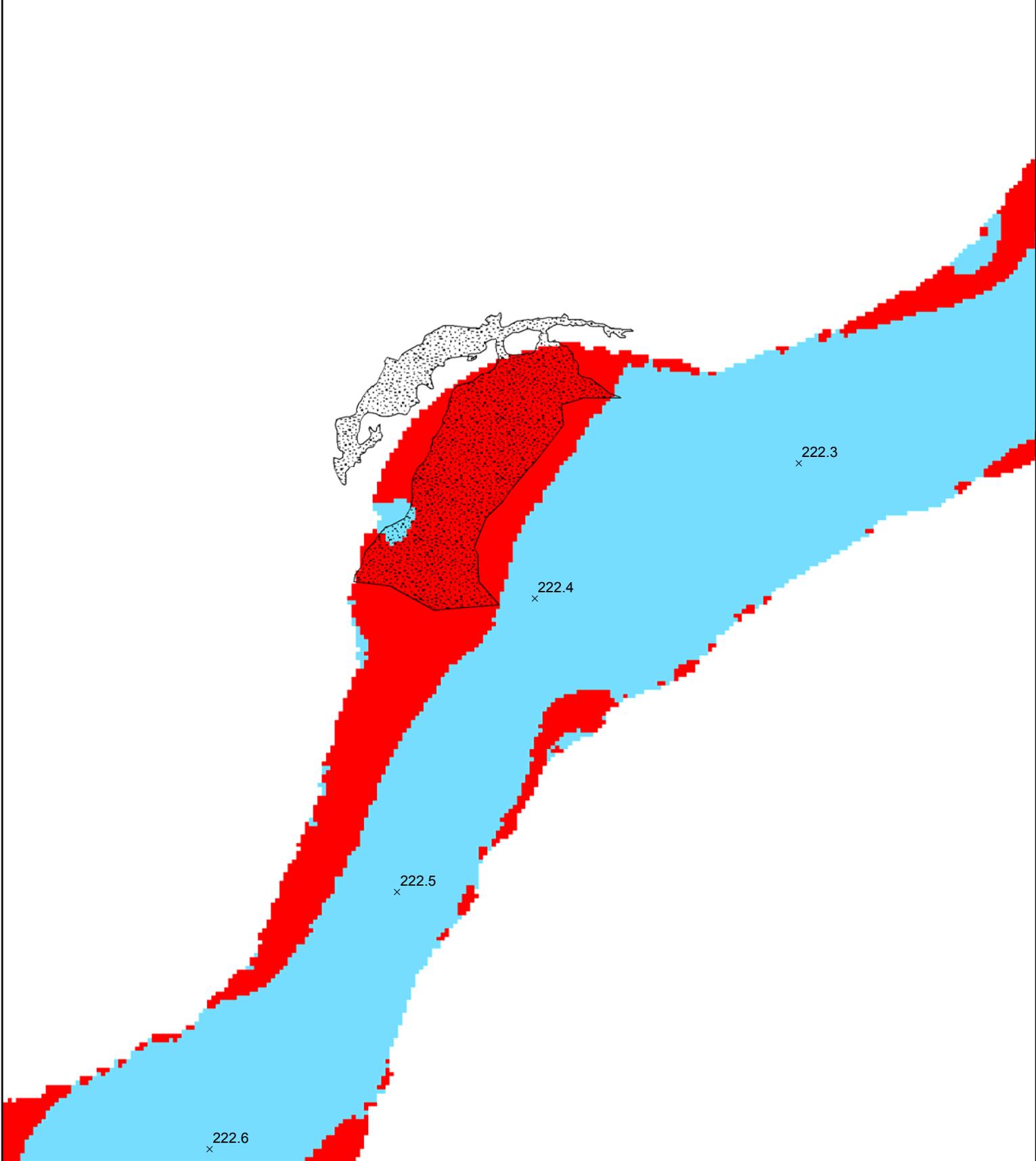
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-11

Salt Creek Bar Sand Mobility Map - 25000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



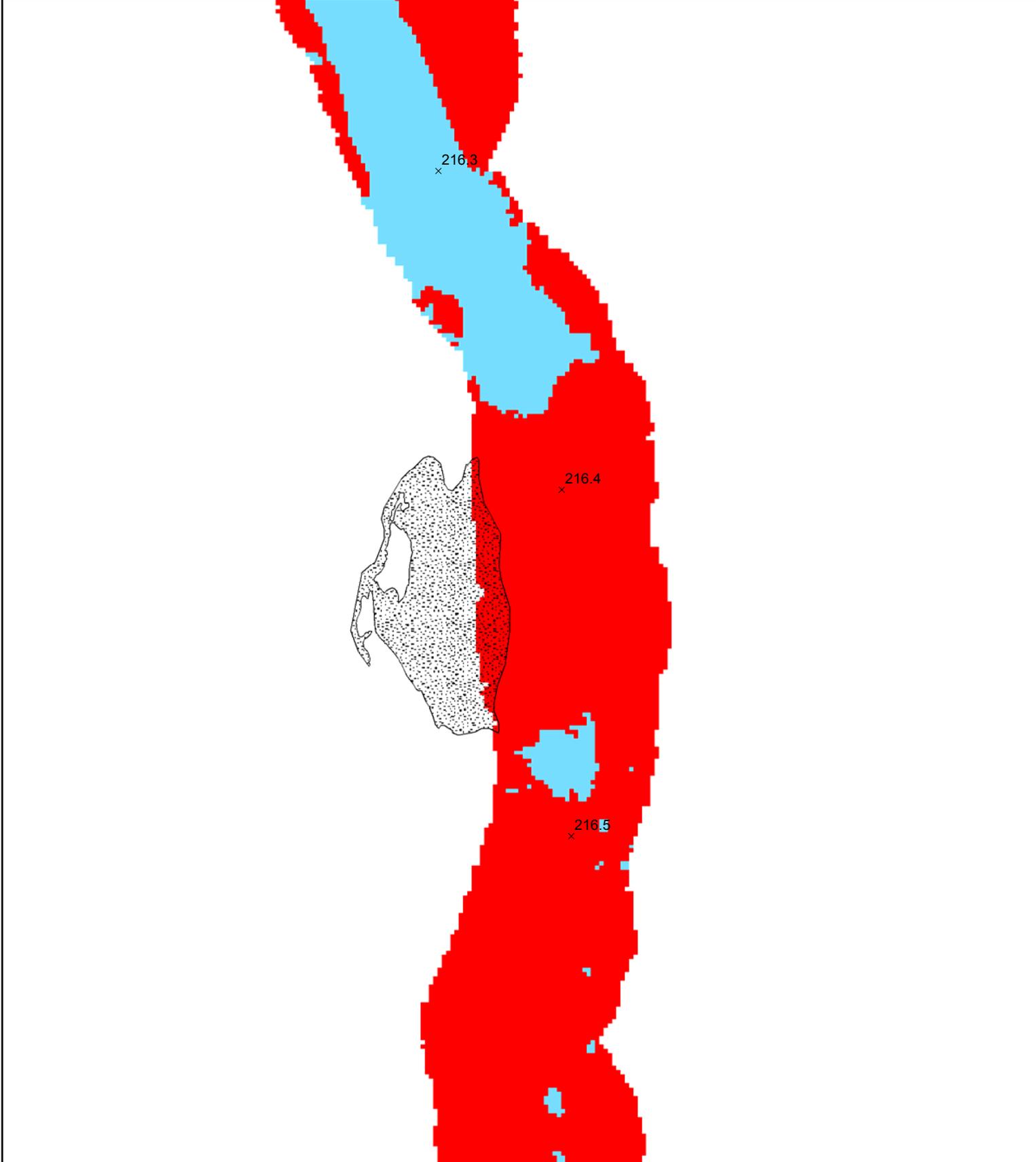
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure C-12

Salt Creek Bar Sand Mobility Map - 30000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  River Mile
-  1.0 mm Mobile
-  1.0 mm Stable



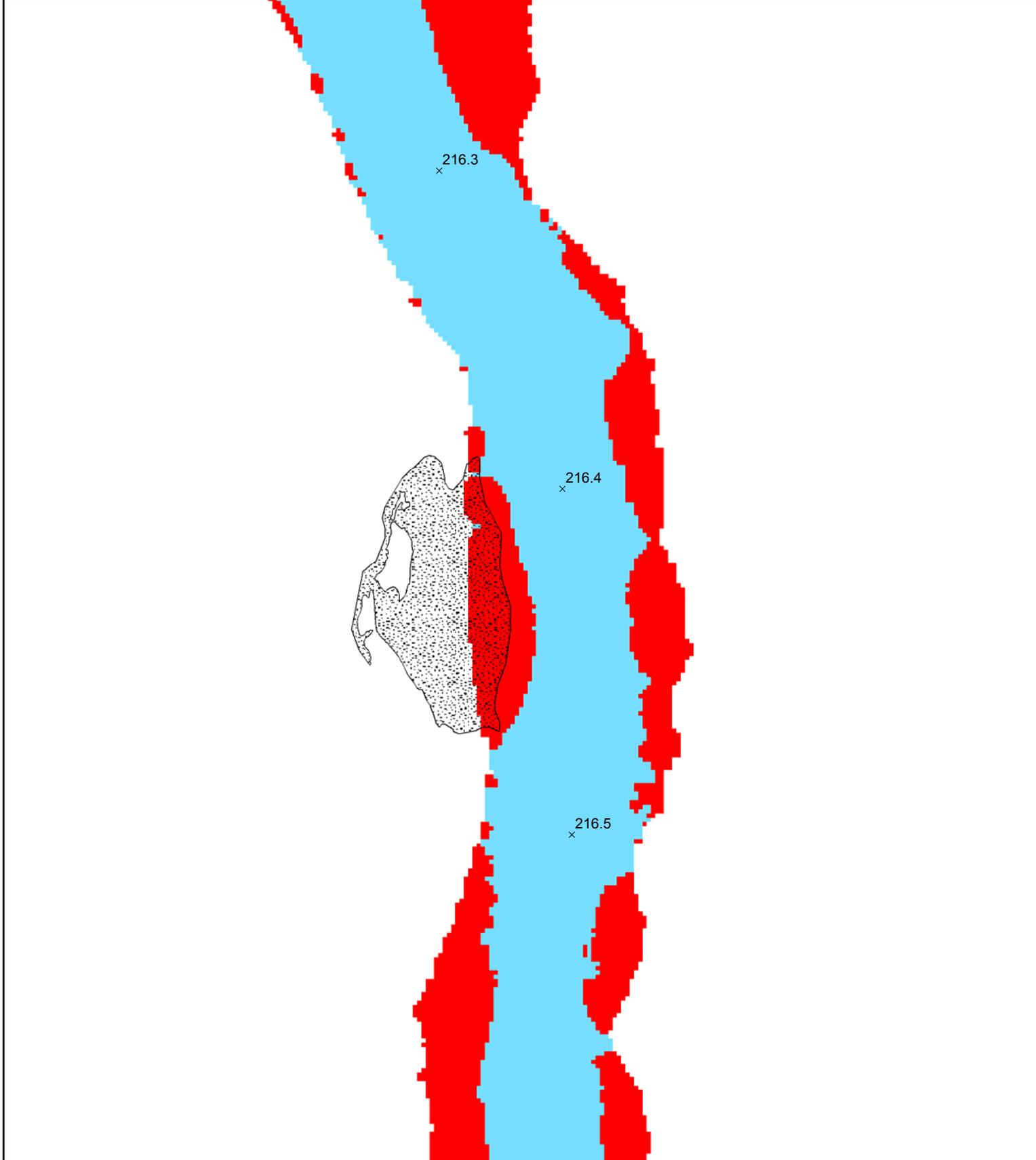
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-13

Fish Trap Bar Sand Mobility Map - 5000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



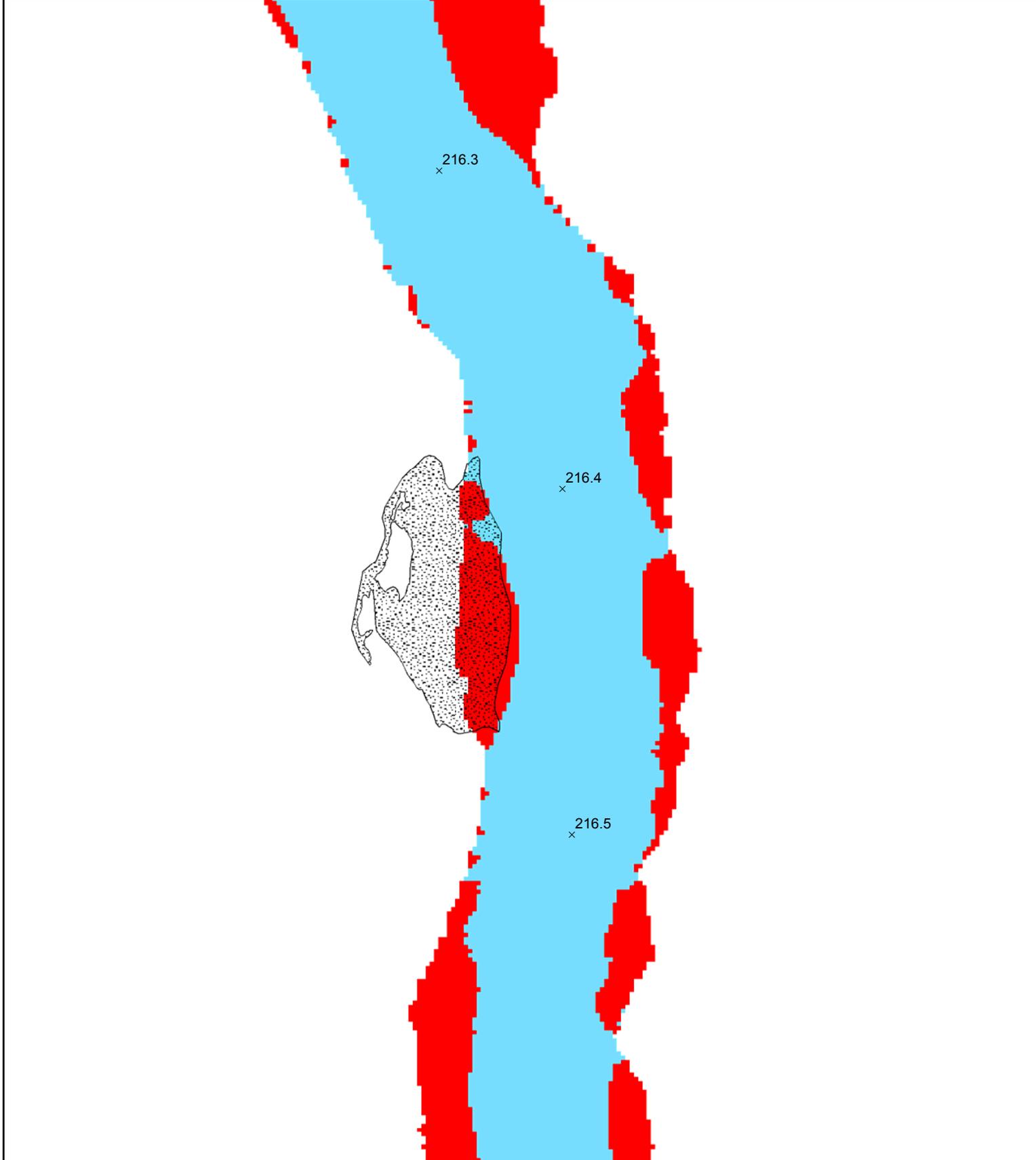
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-14

Fish Trap Bar Sand Mobility Map - 10000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



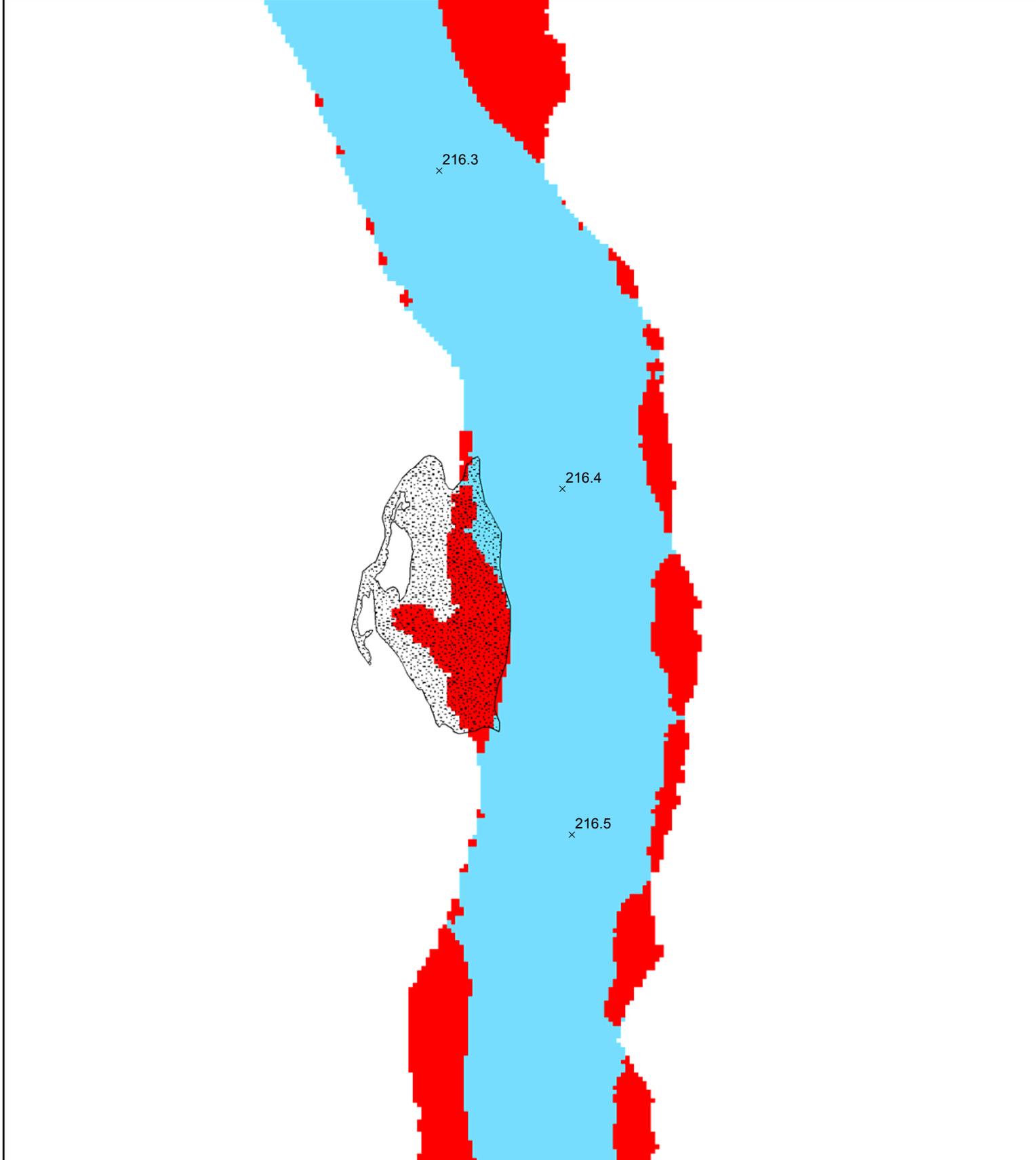
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-15

Fish Trap Bar Sand Mobility Map - 15000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  River Mile
- Model Results**
-  1.0 mm Mobile
-  1.0 mm Stable



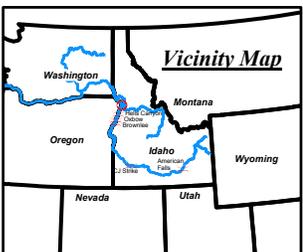
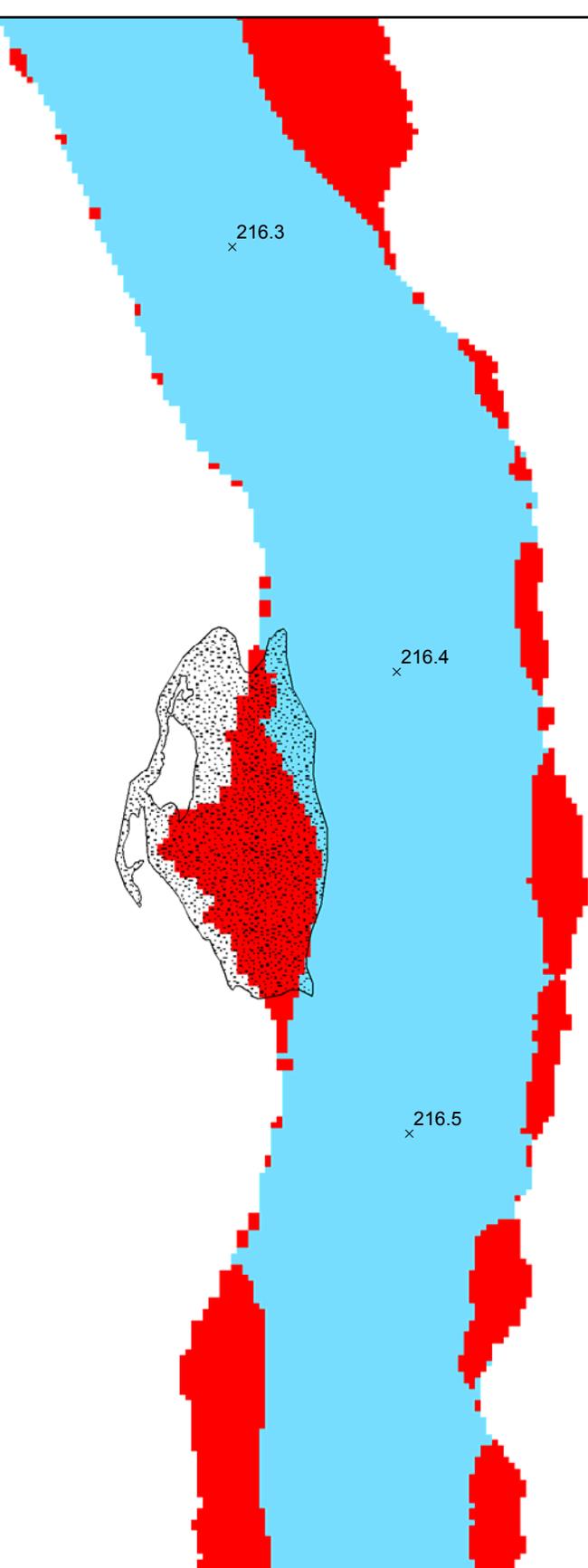
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-16

Fish Trap Bar Sand Mobility Map - 20000 cfs



01/10/05



Features Legend

-  Sand Polygon
-  River Mile
- Model Results**
-  1.0 mm Mobile
-  1.0 mm Stable



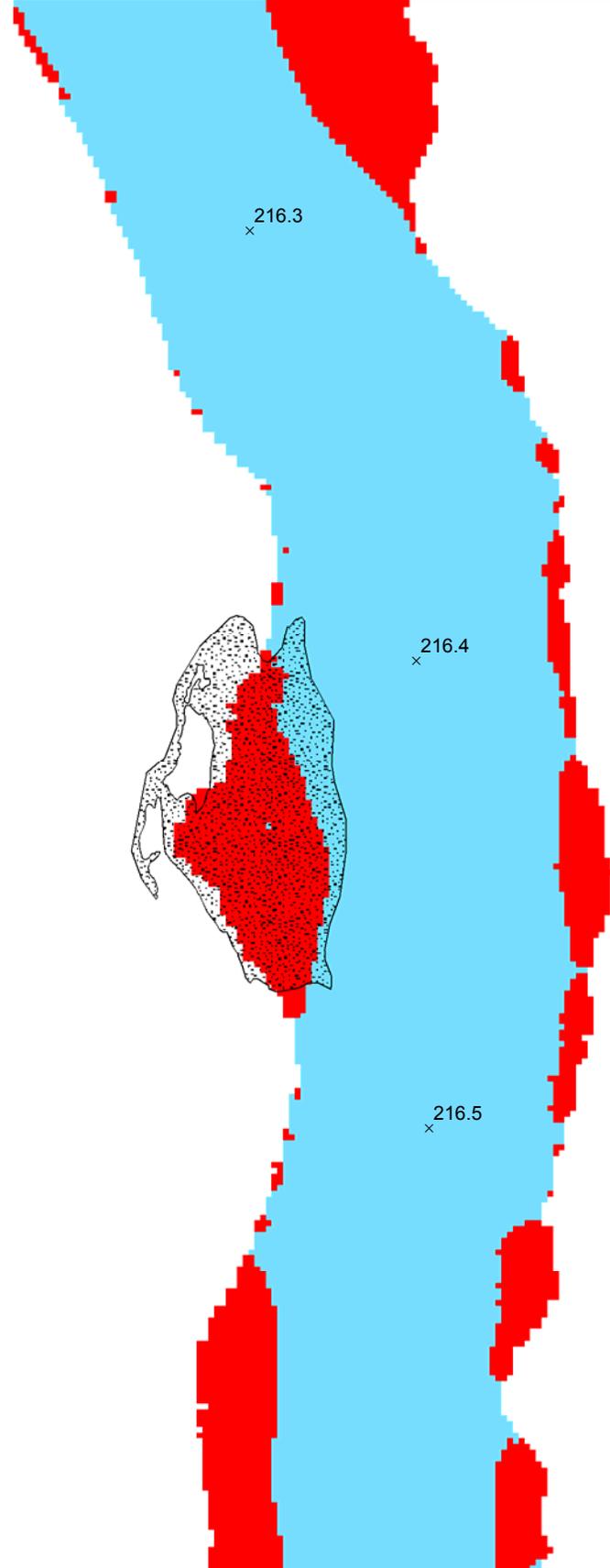
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure C-17

Fish Trap Bar Sand Mobility Map - 25000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



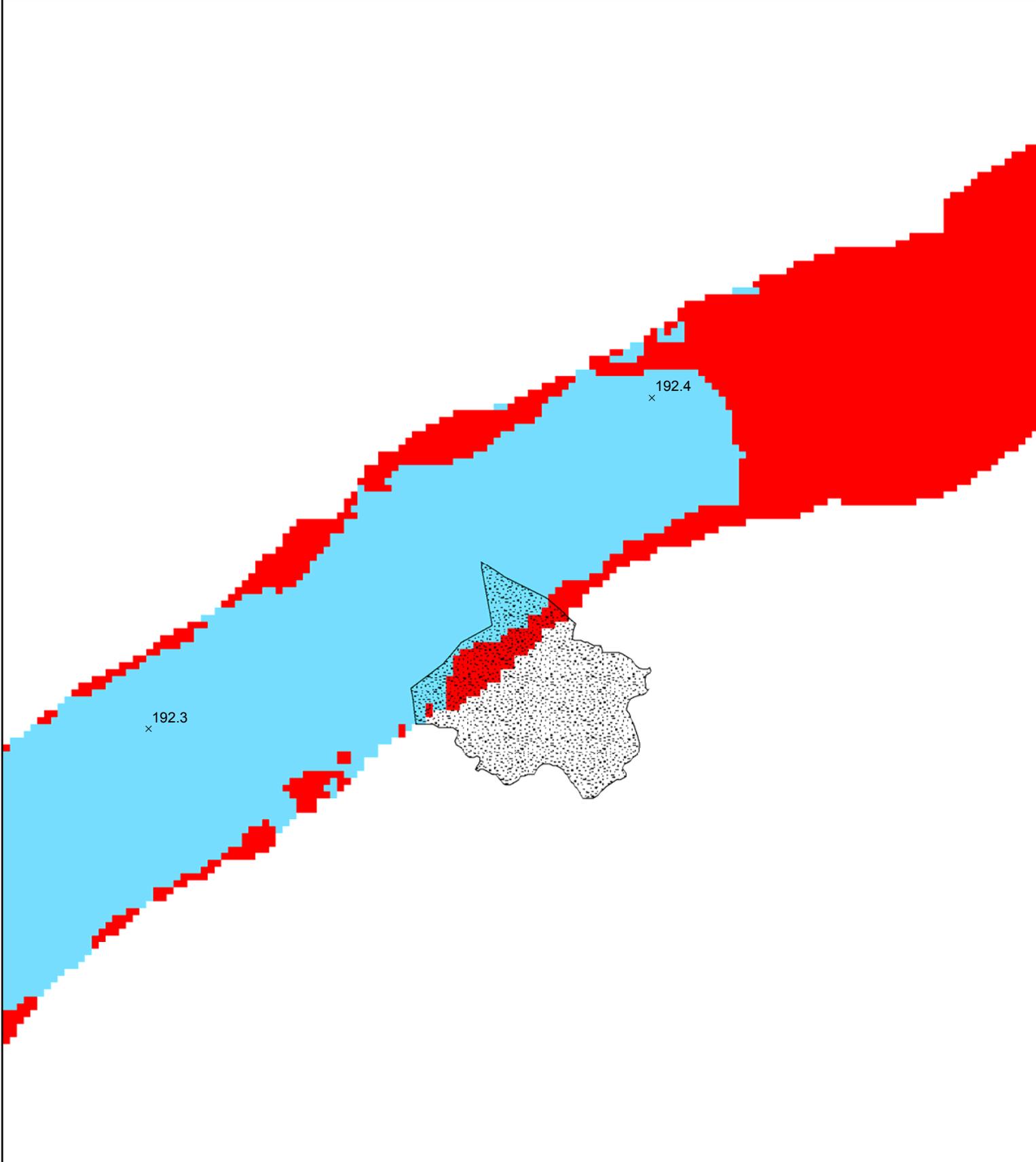
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-18

Fish Trap Bar Sand Mobility Map - 30000 cfs



01/10/05



Features Legend

	Sand Polygon	×	River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



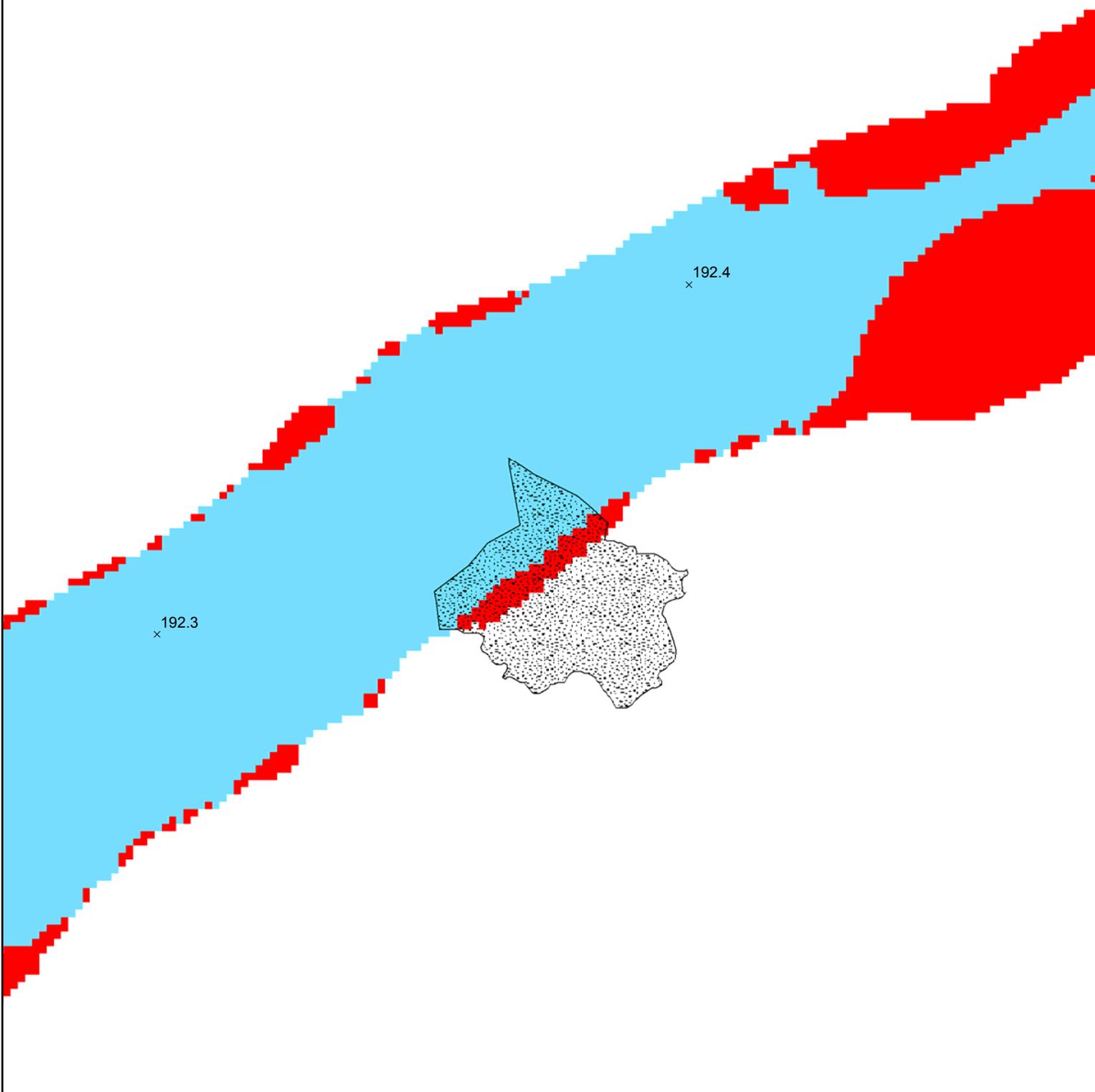
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-19

China Bar Sand Mobility Map - 5000 cfs



01/10/05



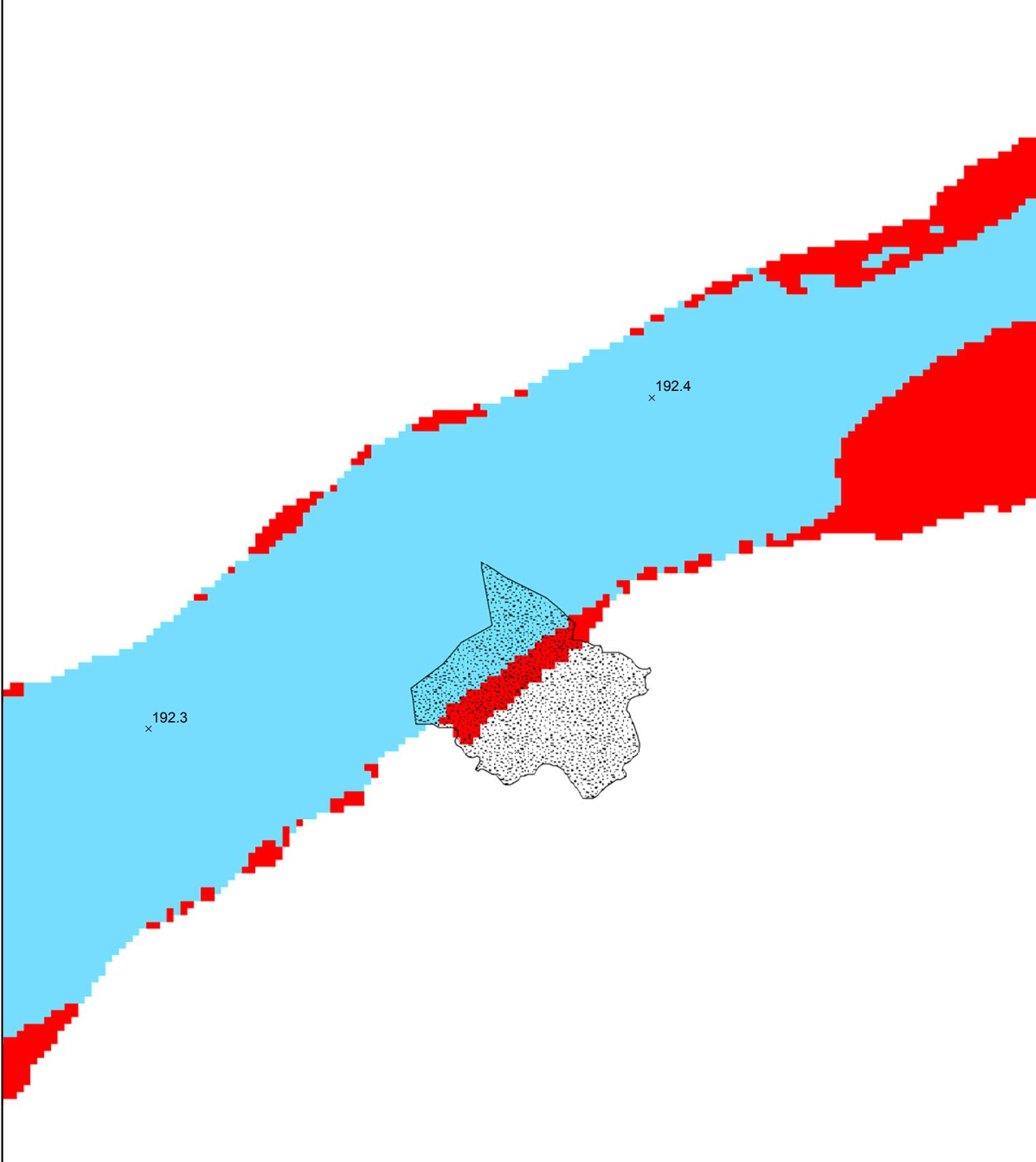
Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR S1, Figure C-20
China Bar Sand Mobility Map - 10000 cfs

0 12.5 25 50 75
 Meters

01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

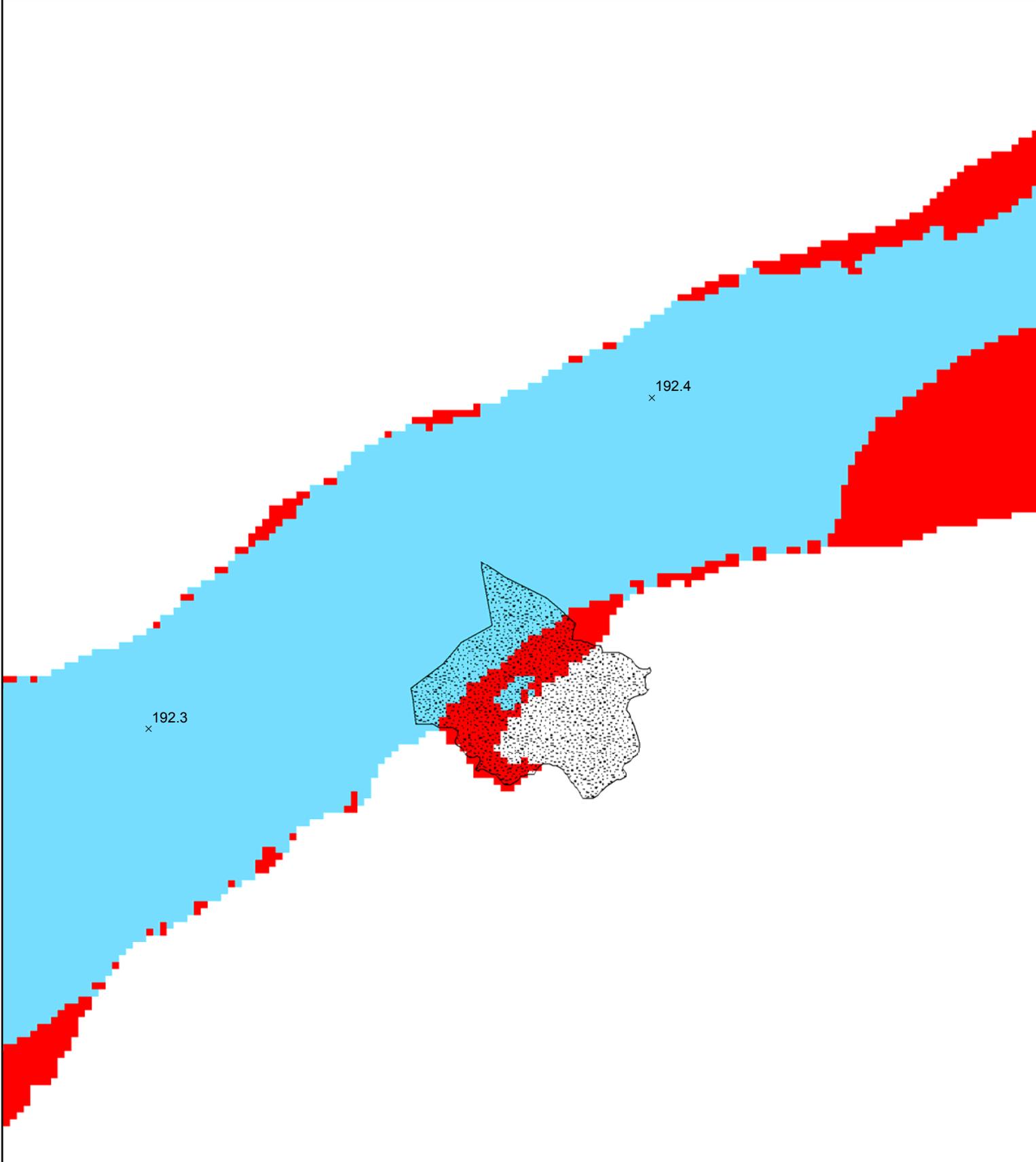
Response to AIR S1, Figure C-21

China Bar Sand Mobility Map - 15000 cfs



01/10/05





Features Legend

	Sand Polygon	×	River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



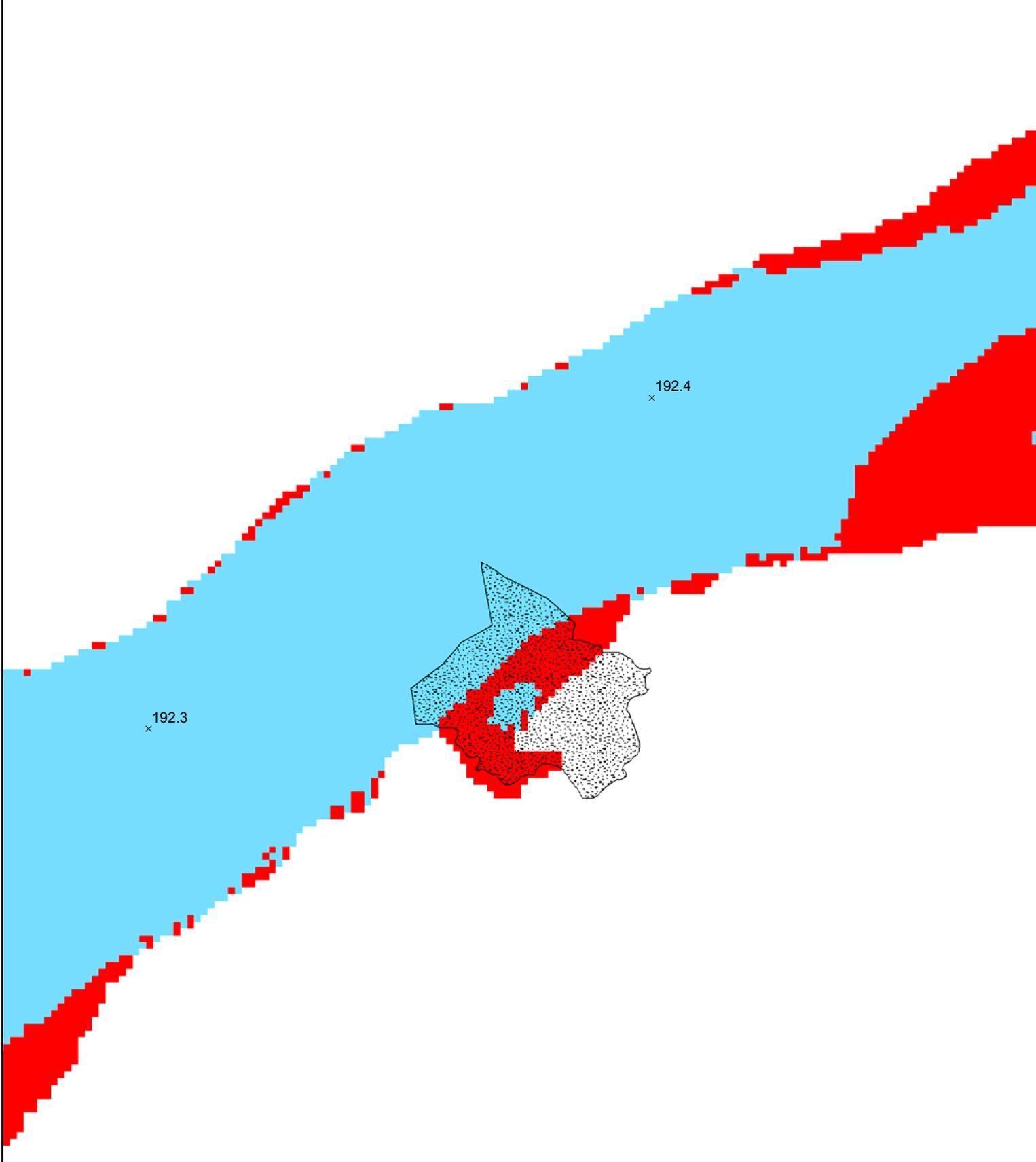
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-22

China Bar Sand Mobility Map - 20000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

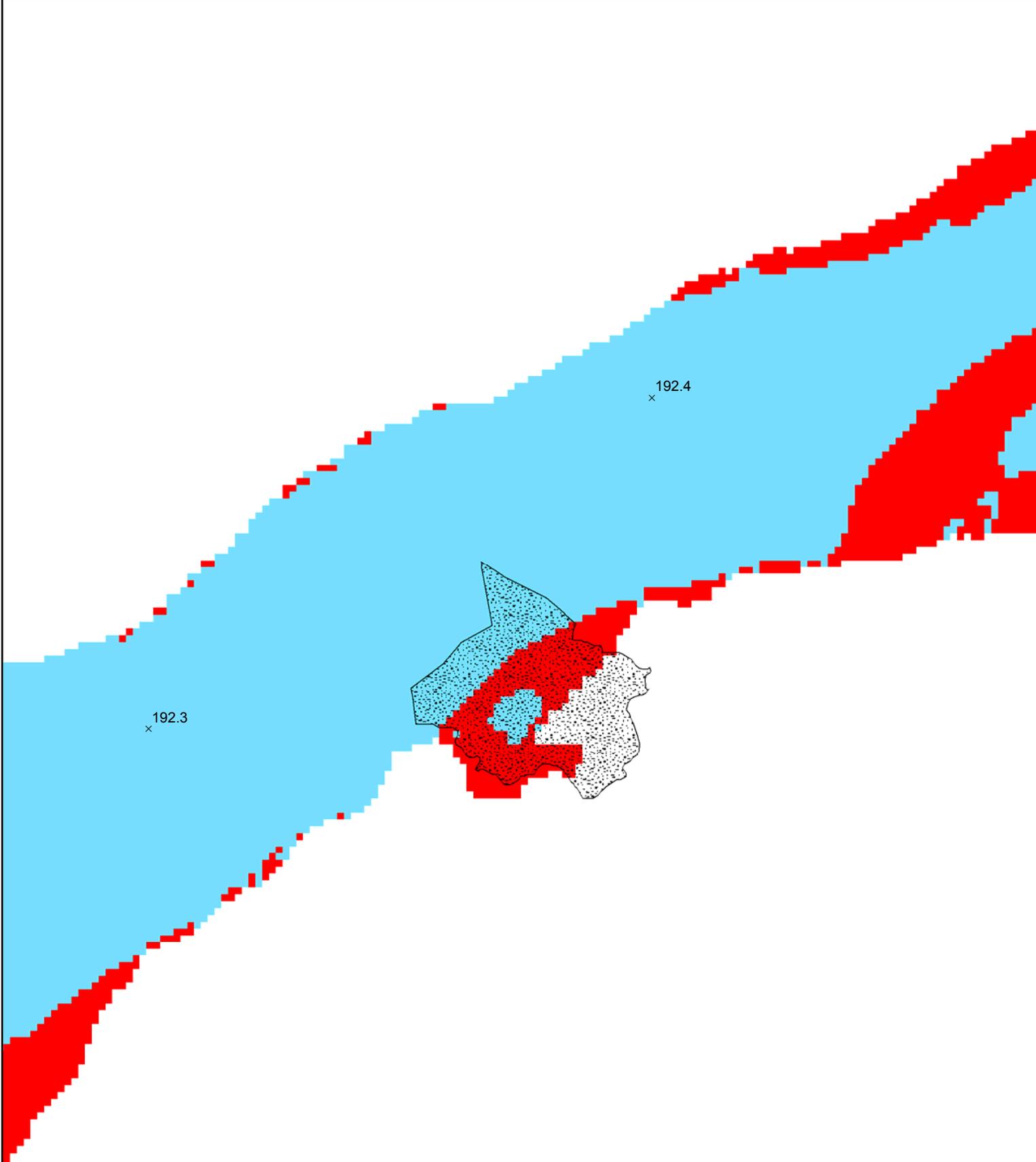
Response to AIR S1, Figure C-23

China Bar Sand Mobility Map - 25000 cfs



01/10/05





Features Legend

	Sand Polygon	×	River Mile
Model Results			
	1.0 mm Mobile		
	1.0 mm Stable		



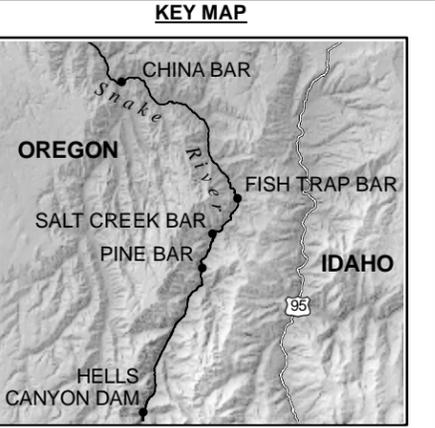
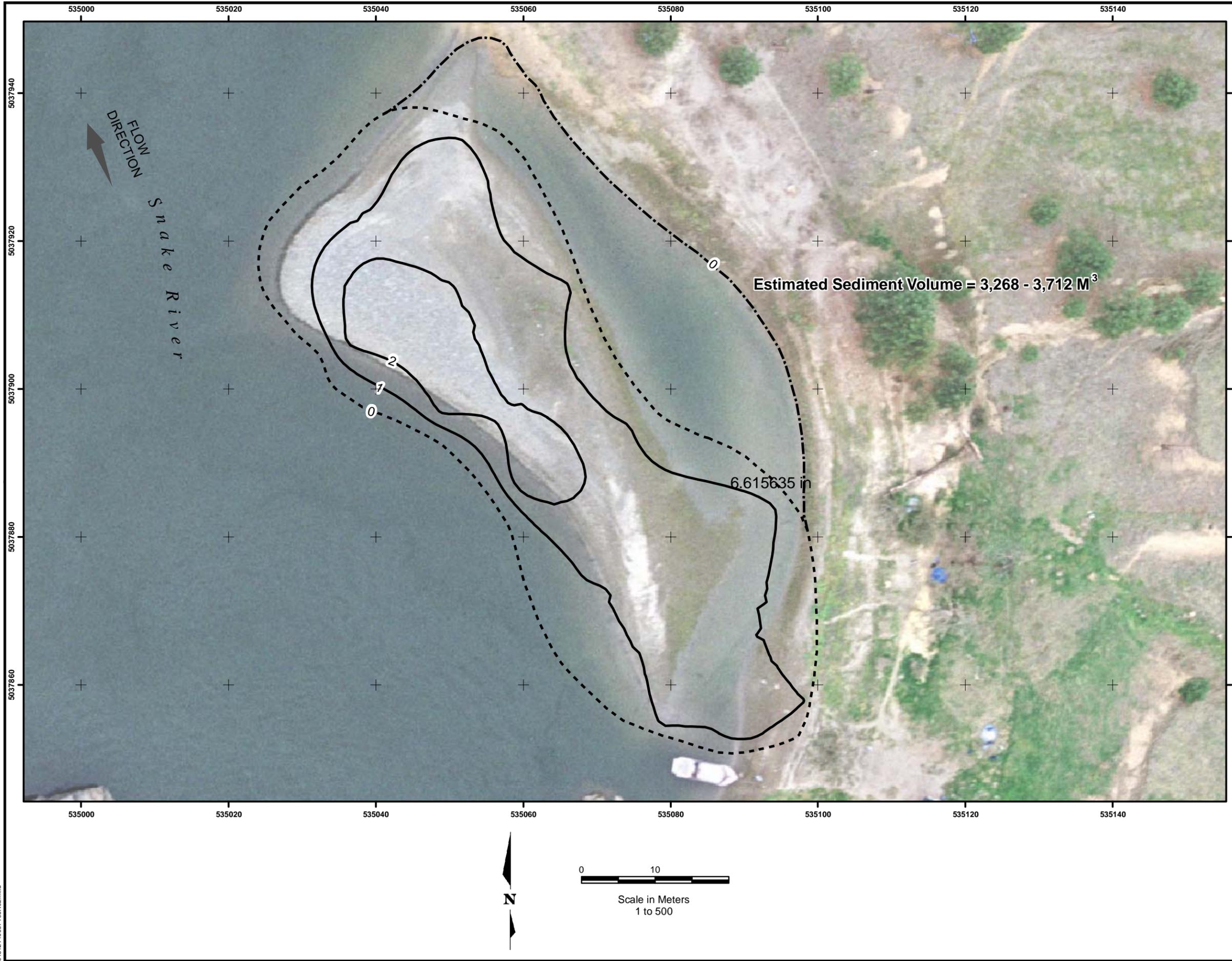
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure C-24

China Bar Sand Mobility Map - 30000 cfs



01/10/05



LEGEND

- ISOPACH (METERS)
- ALTERNATE ZERO ELEVATION CONTOUR BASED ON OBSERVATION
- LIMITS OF GEOPHYSICAL SURVEY

INSTRUMENTATION

DATASONIC SUBBOTTOM PROFILER
 AAE SEISMIC REFLECTION SYSTEM
 EPC 1086 GRAPHIC RECORDER
 CSI PROMAX DGPS

GEODETTIC PARAMETERS

VERT DATUM: -
 HORIZ DATUM: NAD 27
 PROJECTION: UTM, ZONE 11, METERS

GOLDER ASSOCIATES INC.
 18300 NE UNION HILL ROAD, STE. 200
 REDMOND, WA USA 98052-3333
 TEL: (425) 883-0777
 FAX: (425) 882-5498

SUBMITTED TO:

IDAHO POWER
 An IDACORP Company

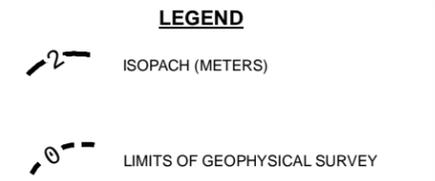
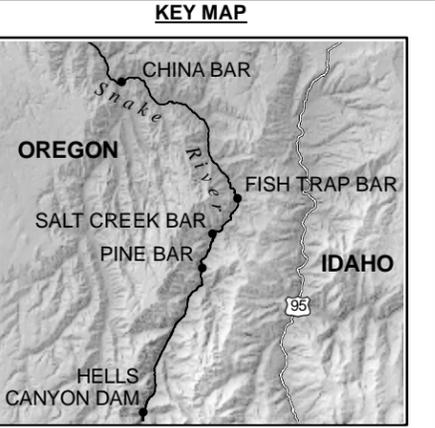
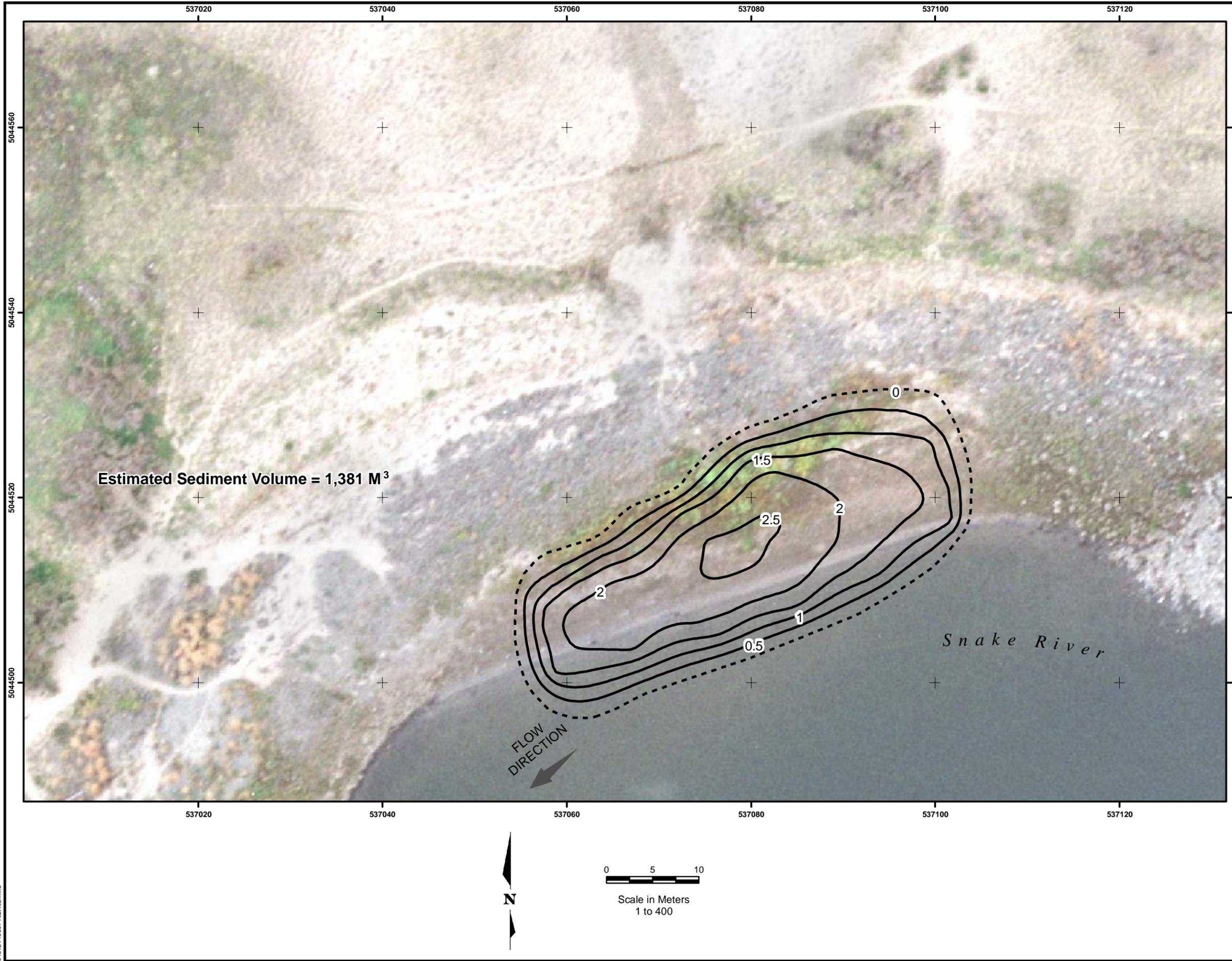
PROJECT:
 IPCO / HELLS CANYON GEOPHYSICS / ID

TITLE:
**PINE BAR
 SAND ISOPACH MAP
 RM 227.5**

PROJECT	0431294005	DESIGN	RS	12/13/04
FILE No.	0431294005F103R02	GIS	ATB	12/13/04
REV.	2	CHECK	RS	XX/XX/XX
SCALE	AS SHOWN	REVIEW	RS	XX/XX/XX

FIGURE D-1

0431294005F103R02.mxd



INSTRUMENTATION

DATASONIC SUBBOTTOM PROFILER
 AAE SEISMIC REFLECTION SYSTEM
 EPC 1086 GRAPHIC RECORDER
 CSI PROMAX DGPS

GEODETTIC PARAMETERS

VERT DATUM: -
 HORIZ DATUM: NAD 27
 PROJECTION: UTM, ZONE 11, METERS

Golder Associates
 GOLDER ASSOCIATES INC.
 18300 NE UNION HILL ROAD, STE. 200
 REDMOND, WA USA 98052-3333
 TEL: (425) 883-0777
 FAX: (425) 882-5498

SUBMITTED TO:
IDAHO POWER
 An IDACORP Company

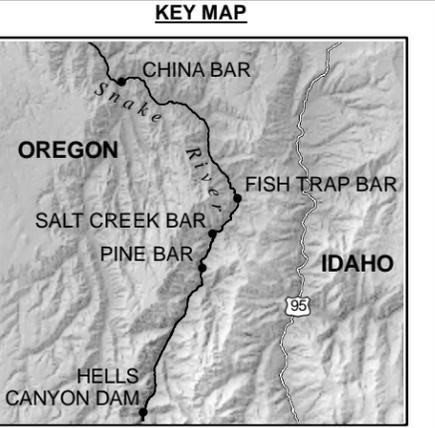
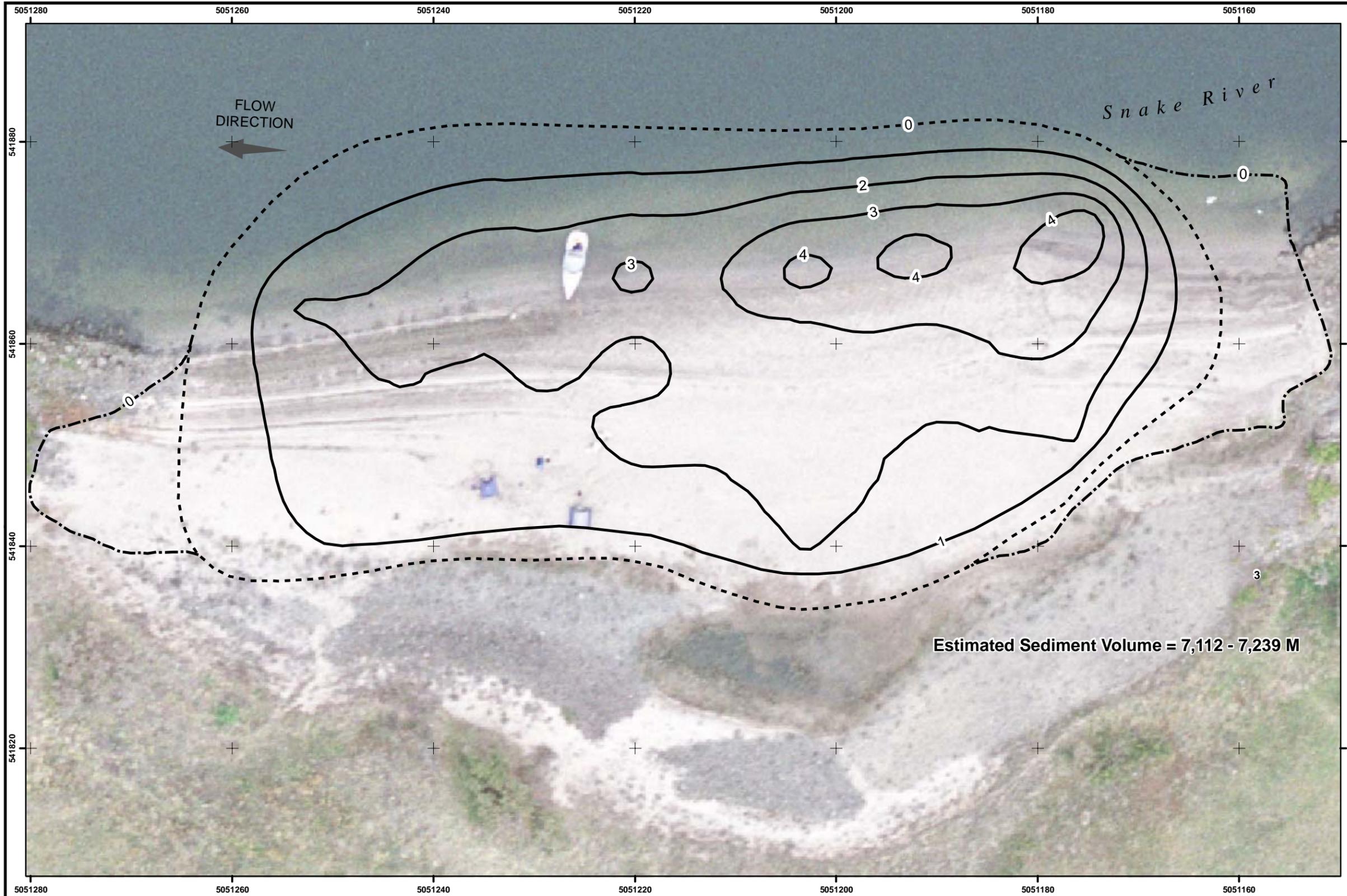
PROJECT:
 IPCO / HELLS CANYON GEOPHYSICS / ID

TITLE:
**SALT CREEK BAR
 SAND ISOPACH MAP
 RM 222.4**

PROJECT	0431294005	DESIGN	RS	12/13/04
FILE No.	0431294005F102R02	GIS	ATB	12/13/04
REV.	2	CHECK	RS	XX/XX/XX
SCALE	AS SHOWN	REVIEW	RS	XX/XX/XX

FIGURE D-2

0431294005F102R02.mxd



LEGEND

- ISOPACH (METERS)
- ALTERNATE ZERO ELEVATION CONTOUR BASED ON OBSERVATION
- LIMITS OF GEOPHYSICAL SURVEY

INSTRUMENTATION

DATASONIC SUBBOTTOM PROFILER
 AAE SEISMIC REFLECTION SYSTEM
 EPC 1086 GRAPHIC RECORDER
 CSI PROMAX DGPS

GEODETTIC PARAMETERS

VERT DATUM: -
 HORIZ DATUM: NAD 27
 PROJECTION: UTM, ZONE 11, METERS

Golder Associates
 18300 NE UNION HILL ROAD, STE. 200
 REDMOND, WA USA 98052-3333
 TEL: (425) 883-0777
 FAX: (425) 882-5498

SUBMITTED TO:
IDAHO POWER
 An IDACORP Company

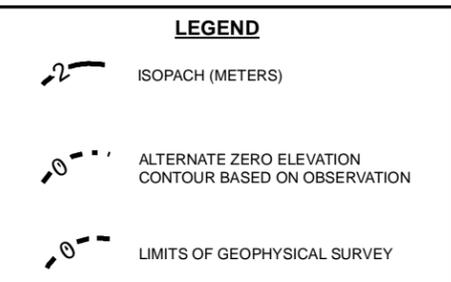
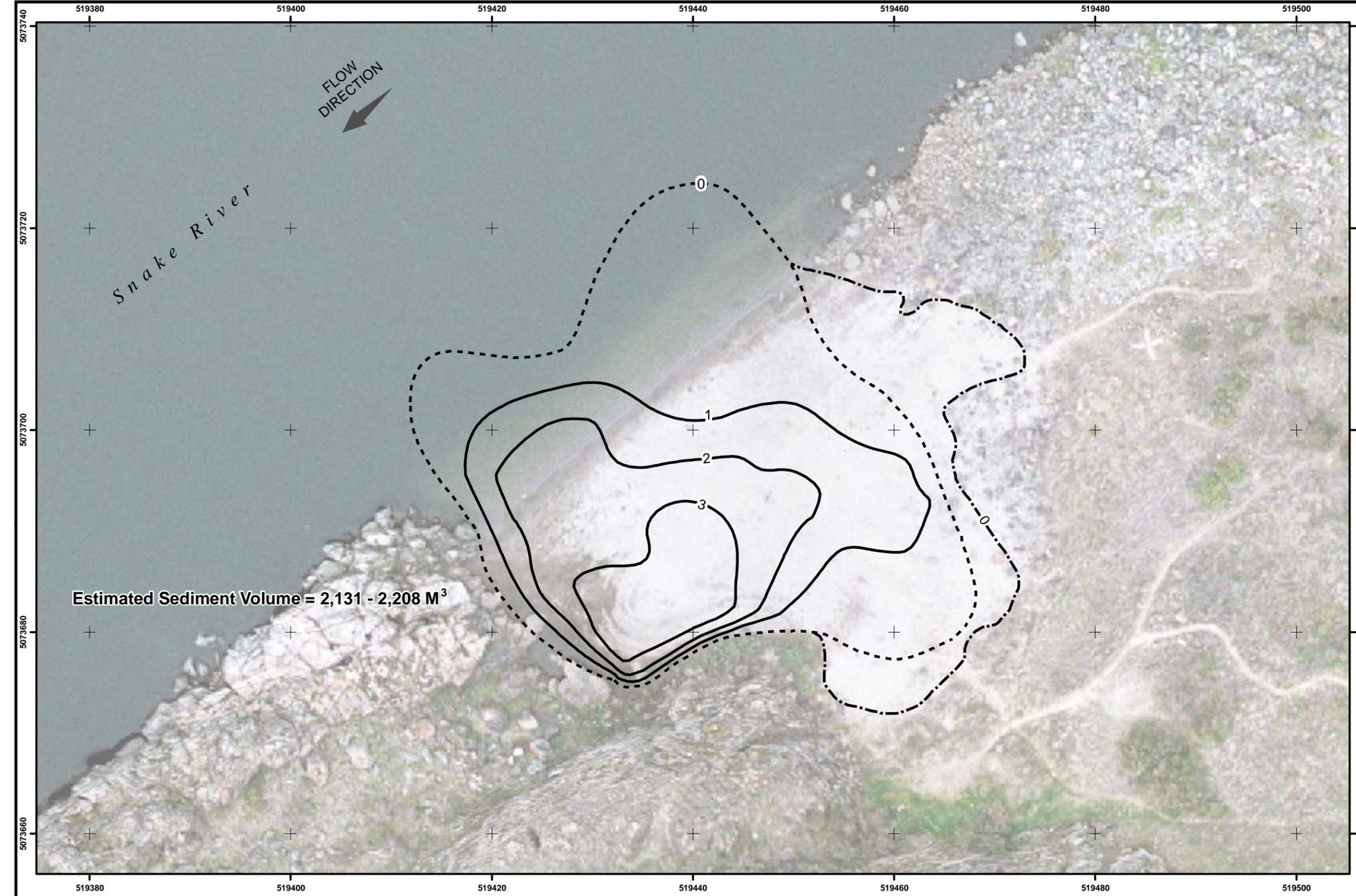
PROJECT:
 IPCO / HELLS CANYON GEOPHYSICS / ID

TITLE:
**FISH TRAP BAR
 SAND ISOPACH MAP
 RM 216.4**

PROJECT	0431294005	DESIGN	RS	12/13/04
FILE No.	0431294005F104R02	GIS	ATB	12/13/04
REV.	2	CHECK	RS	XX/XX/XX
SCALE	AS SHOWN	REVIEW	RS	XX/XX/XX

FIGURE D-3

0431294005F104R02.mxd



INSTRUMENTATION

DATASONIC SUBBOTTOM PROFILER

AAE SEISMIC REFLECTION SYSTEM

EPC 1086 GRAPHIC RECORDER

CSI PROMAX DGPS

GEODETTIC PARAMETERS

VERT DATUM: -

HORIZ DATUM: NAD 27

PROJECTION: UTM, ZONE 11, METERS

Golder Associates

GOLDER ASSOCIATES INC.
18300 NE UNION HILL ROAD, STE. 200
REDMOND, WA USA 98052-3333
TEL: (425) 883-0777
FAX: (425) 882-5498

SUBMITTED TO:

IDAHO POWER
An IDACORP Company

PROJECT:

IPCO / HELLS CANYON GEOPHYSICS / ID

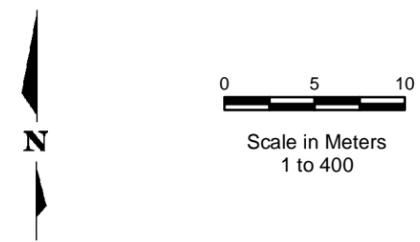
TITLE:

**CHINA BAR
SAND ISOPACH MAP
RM 192.3**

PROJECT	0431294005	DESIGN	RS	12/13/04
FILE No.	0431294005F101R02	GIS	ATB	12/13/04
REV.	2	CHECK	RS	XX/XX/XX
SCALE	AS SHOWN	REVIEW	RS	XX/XX/XX

FIGURE D-4

0431294005F101R02.mxd

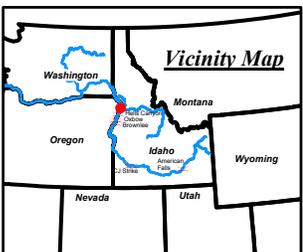
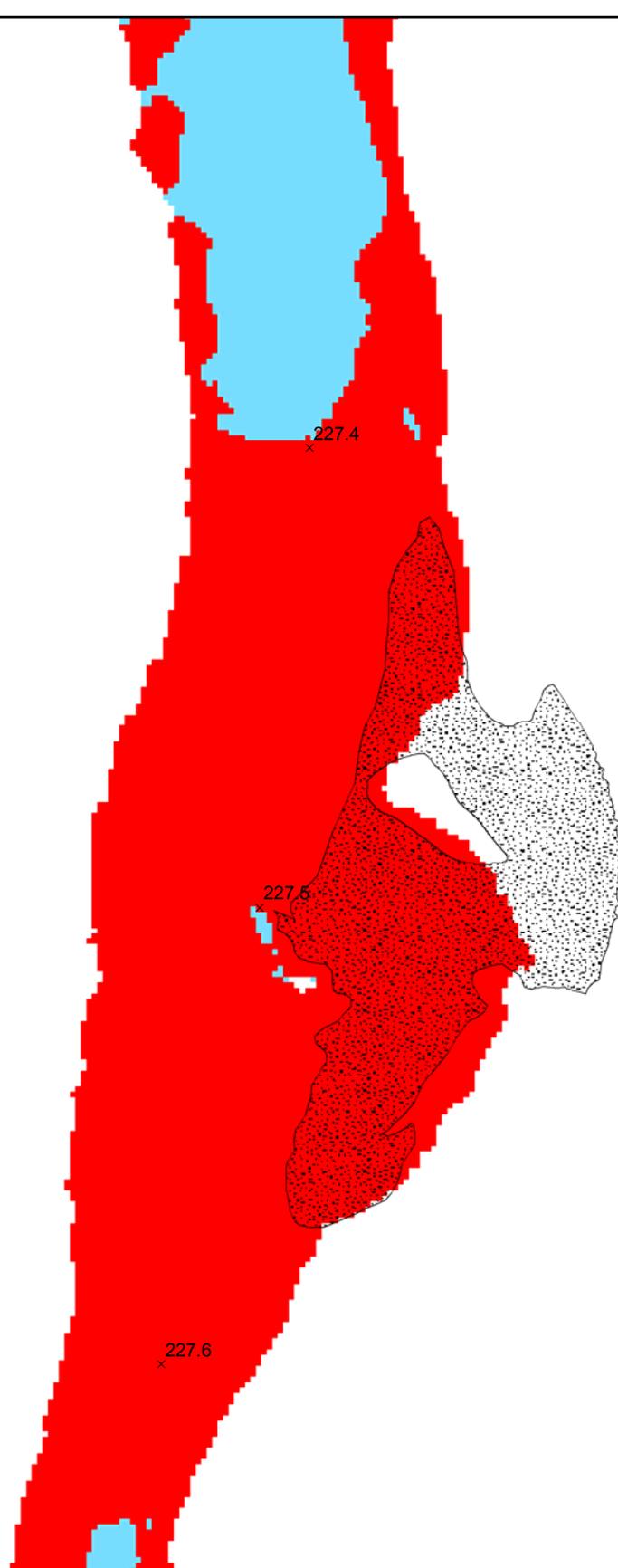


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Figure D-5. Hydropower diversion canal, Horseshoe Bend, Idaho

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Features Legend

- | | | | |
|---|---------------|---|------------------------------|
|  | Sand Polygon | × | River Mile |
| Model Results | | Field Sample Results | |
|  | 1.0 mm Mobile |  | No Sand Movement Indicated |
|  | 1.0 mm Stable |  | Sand Movement Indicated |
| | |  | 1.0 mm Sand Sample Collected |



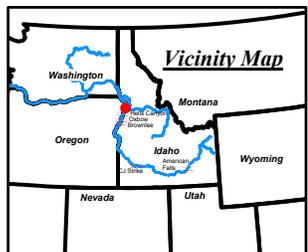
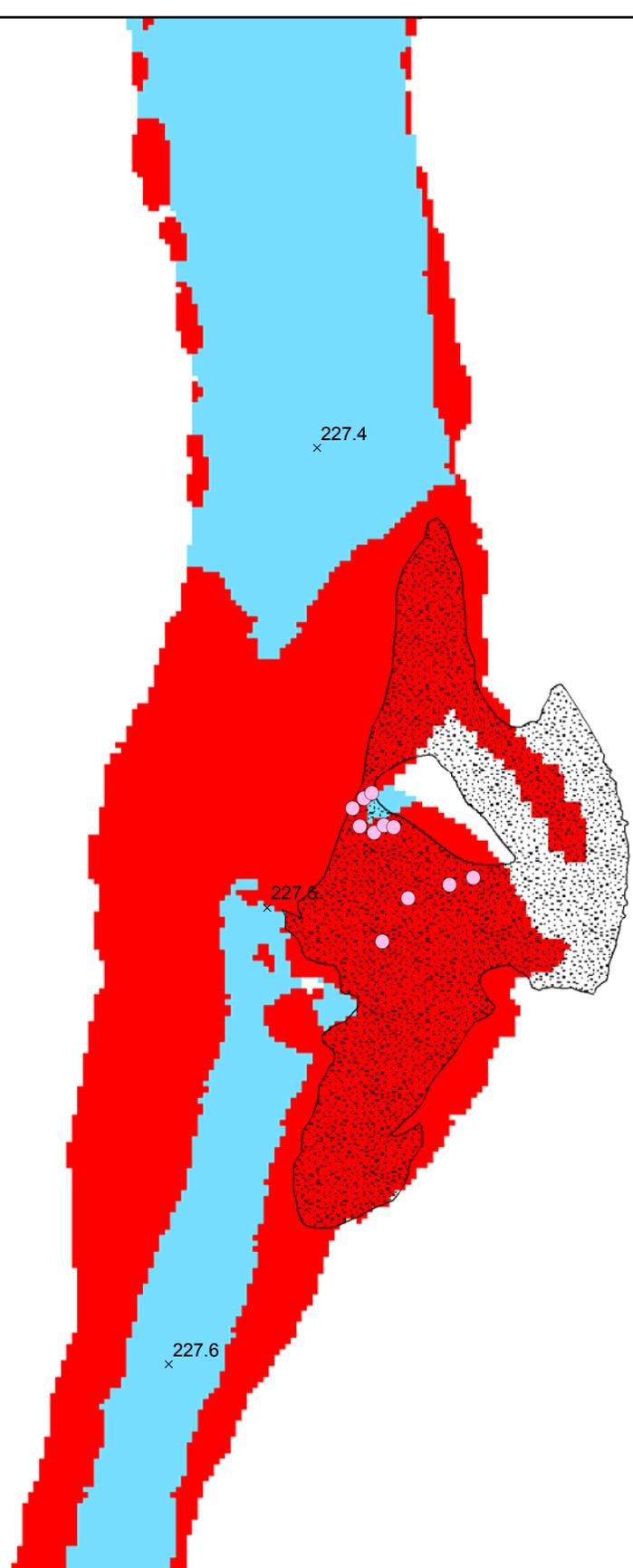
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-1

Pine Bar Field Sampling Map - 5000 cfs



01/10/05



Features Legend

	Sand Polygon	×	River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected



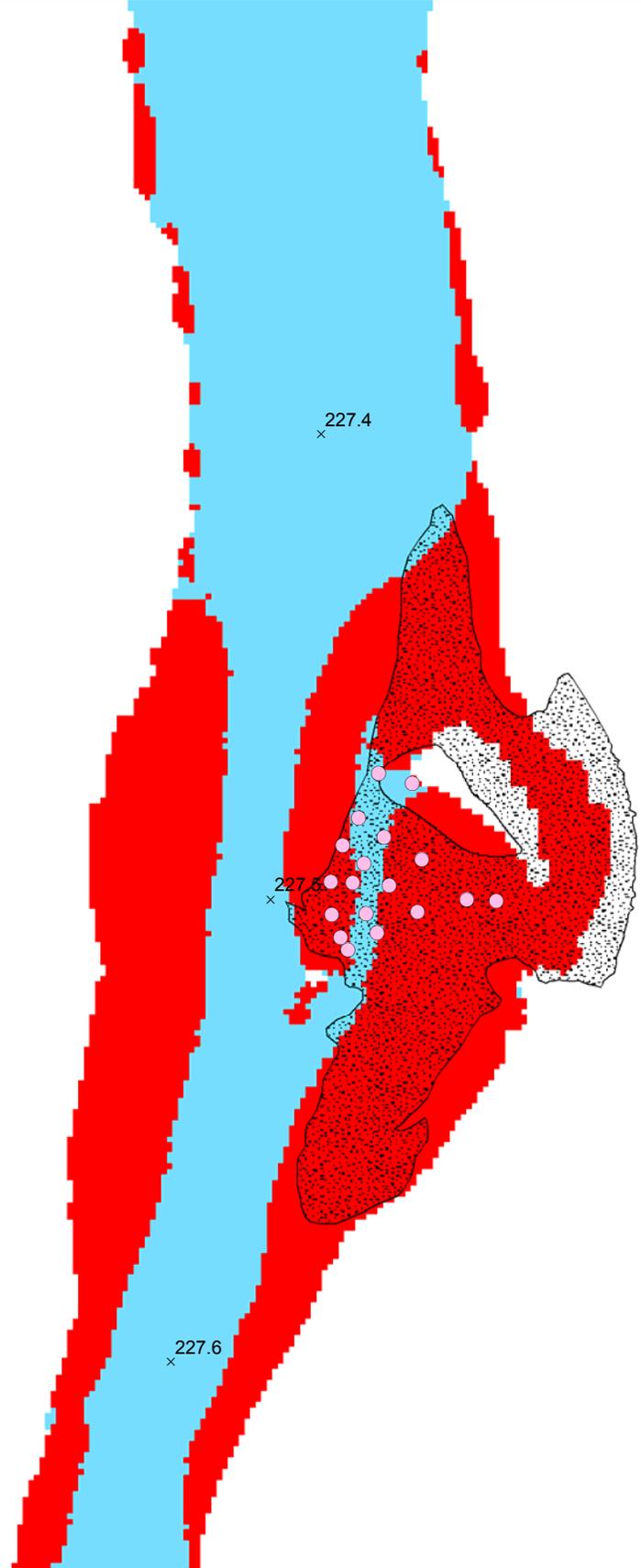
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-2

Pine Bar Field Sampling Map - 10000 cfs



01/10/05



Features Legend

- | | | | |
|---|---------------|---|------------------------------|
|  | Sand Polygon | × | River Mile |
| Model Results | | Field Sample Results | |
|  | 1.0 mm Mobile |  | No Sand Movement Indicated |
|  | 1.0 mm Stable |  | Sand Movement Indicated |
| | |  | 1.0 mm Sand Sample Collected |



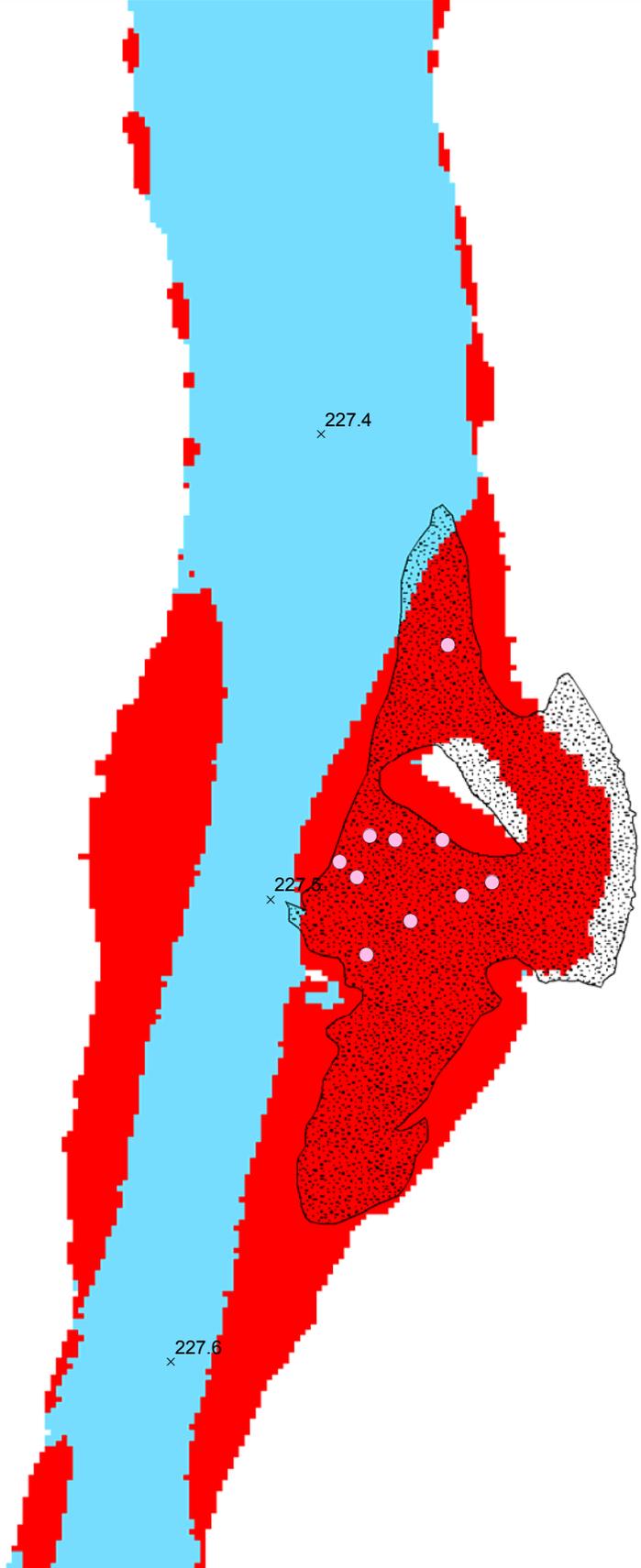
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-3

Pine Bar Field Sampling Map - 15000 cfs



01/10/05



Features Legend

- | | | | |
|----------------------|---------------|-----------------------------|------------------------------|
| | Sand Polygon | | River Mile |
| Model Results | | Field Sample Results | |
| | 1.0 mm Mobile | | No Sand Movement Indicated |
| | 1.0 mm Stable | | Sand Movement Indicated |
| | | | 1.0 mm Sand Sample Collected |



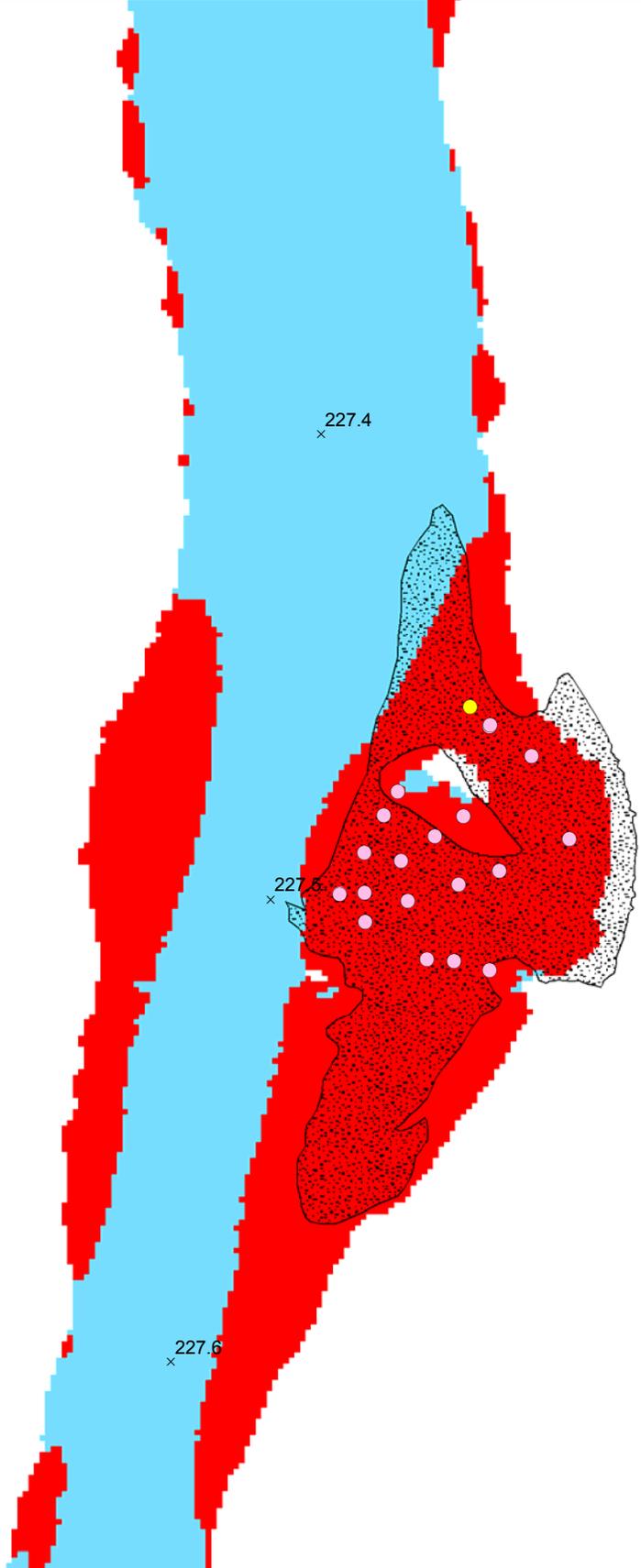
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-4

Pine Bar Field Sampling Map - 20000 cfs



01/10/05



Features Legend

- | | | | |
|---|---------------|---|------------------------------|
|  | Sand Polygon |  | River Mile |
| Model Results | | Field Sample Results | |
|  | 1.0 mm Mobile |  | No Sand Movement Indicated |
|  | 1.0 mm Stable |  | Sand Movement Indicated |
| | |  | 1.0 mm Sand Sample Collected |



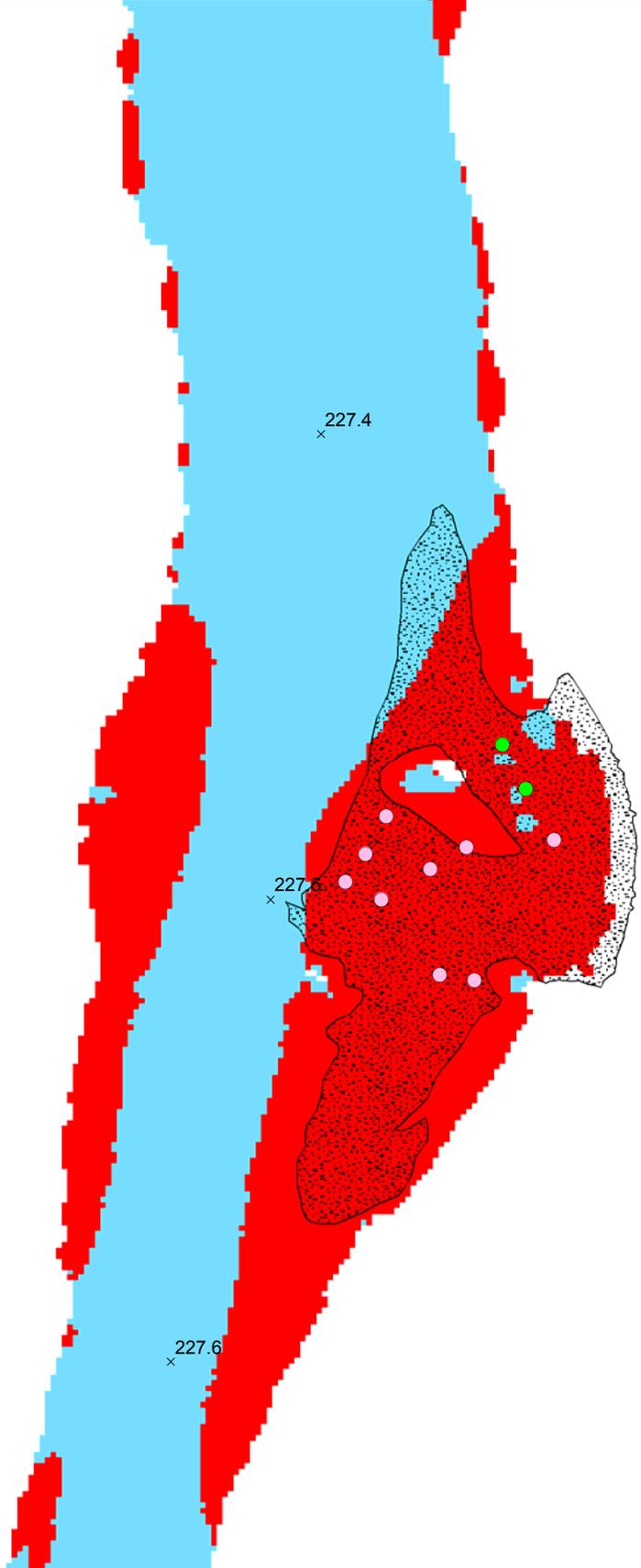
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-5

Pine Bar Field Sampling Map - 25000 cfs



01/10/05



Features Legend

- | | | | |
|---|---------------|---|------------------------------|
|  | Sand Polygon |  | River Mile |
| Model Results | | Field Sample Results | |
|  | 1.0 mm Mobile |  | No Sand Movement Indicated |
|  | 1.0 mm Stable |  | Sand Movement Indicated |
| | |  | 1.0 mm Sand Sample Collected |



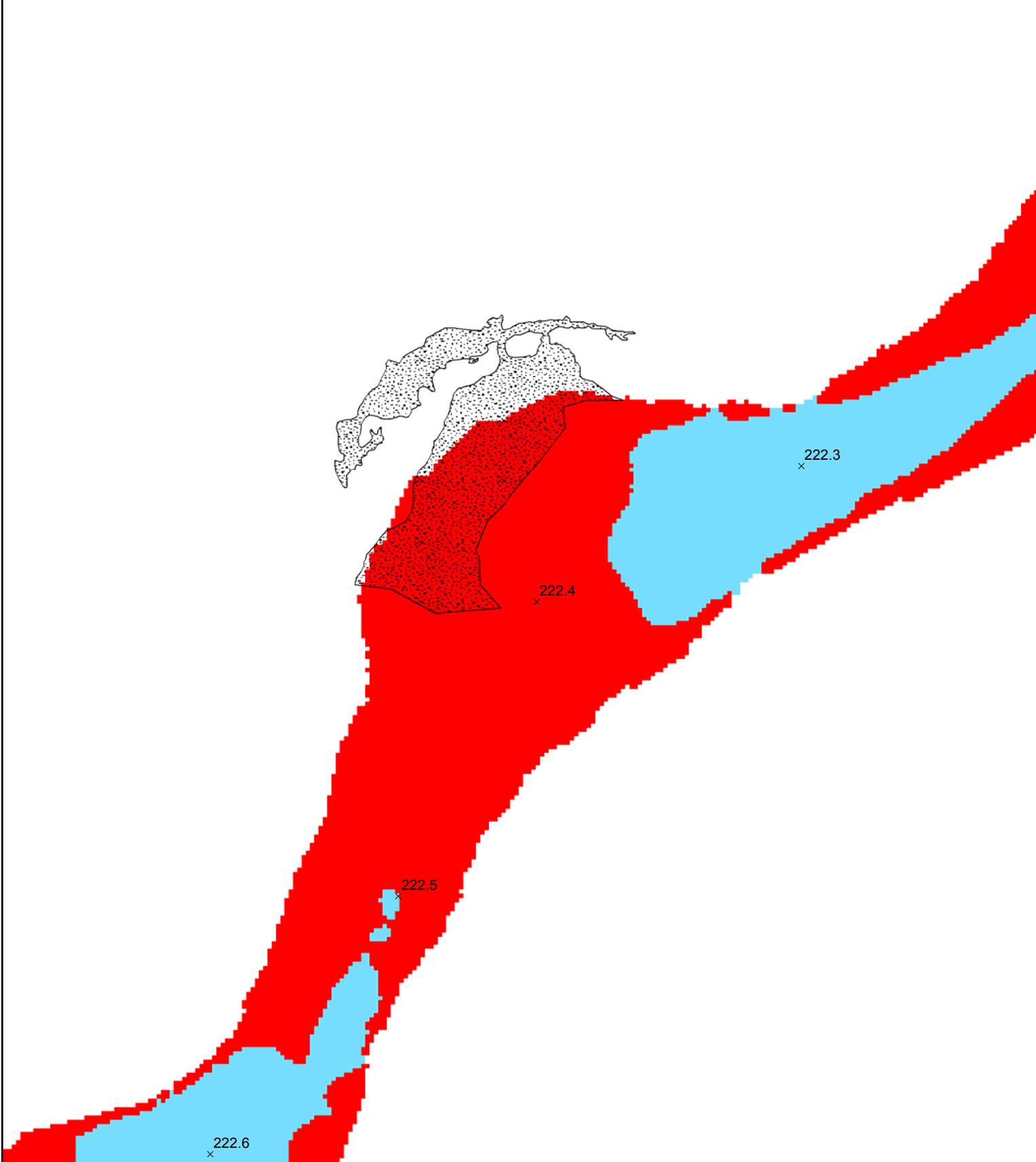
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-6

Pine Bar Field Sampling Map - 30000 cfs



01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected

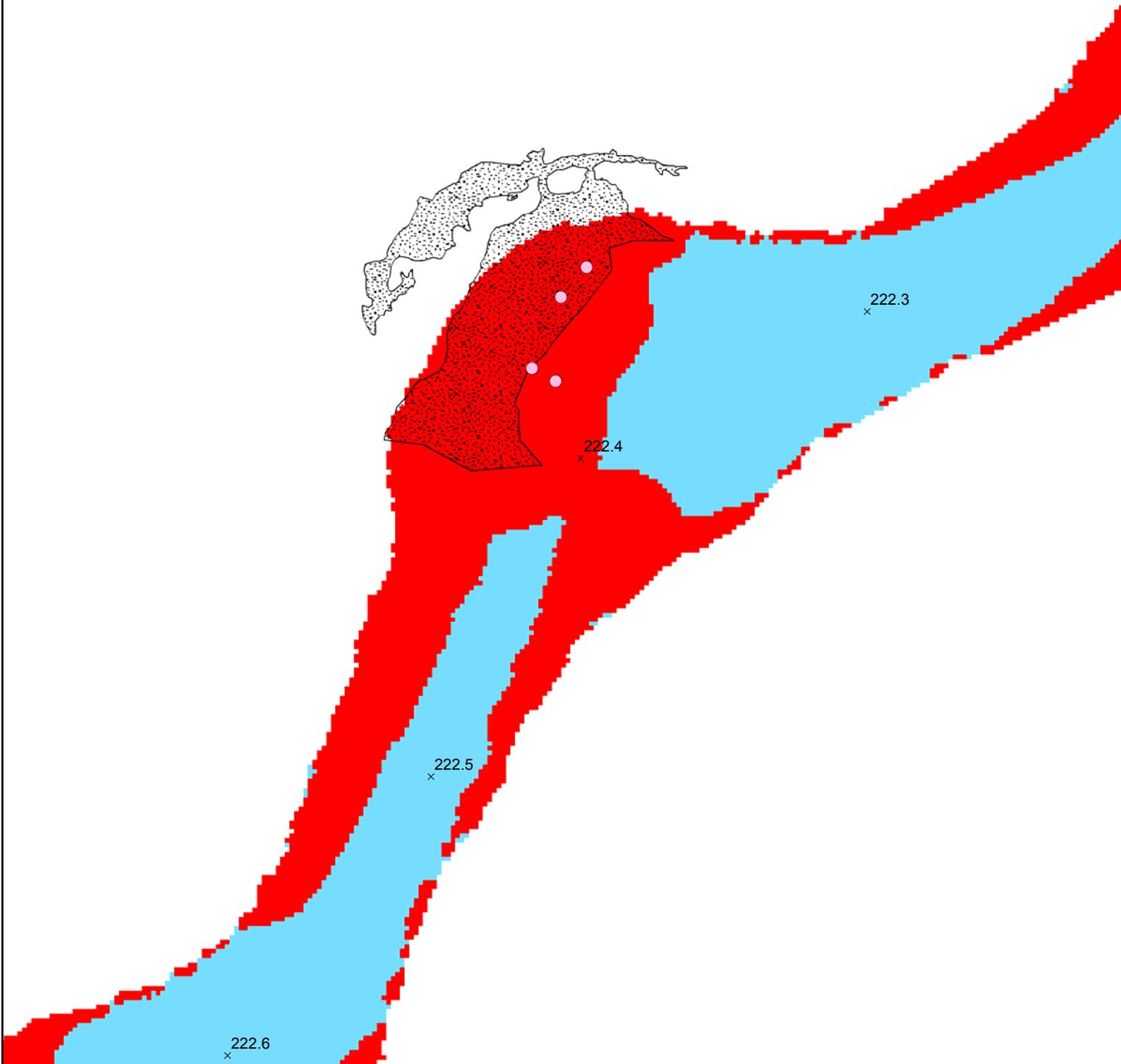
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-7

Salt Creek Bar Field Sampling Map - 5000 cfs



01/10/05



Features Legend

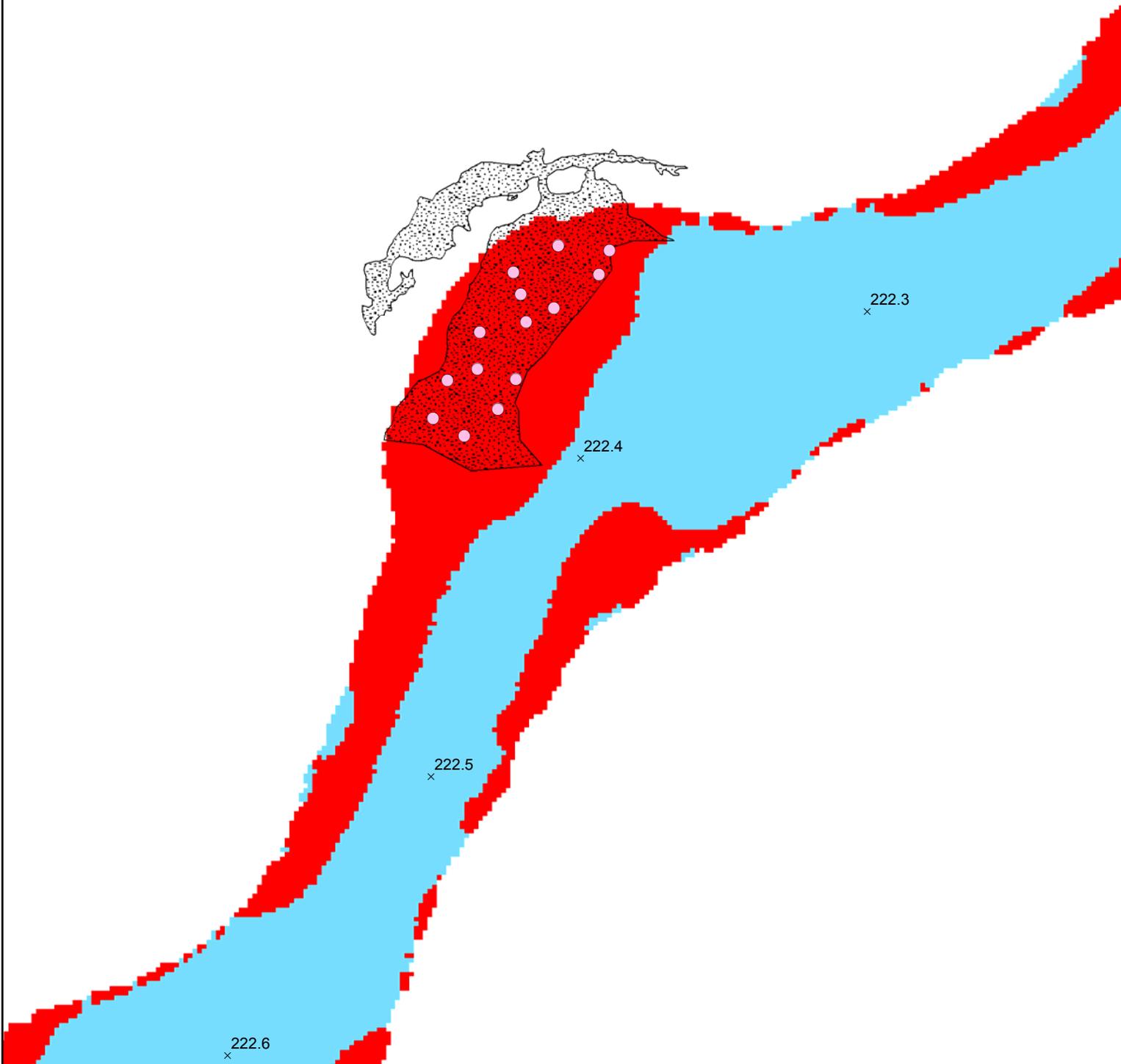
	Sand Polygon		River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-8

Salt Creek Bar Field Sampling Map - 10000 cfs

01/10/05



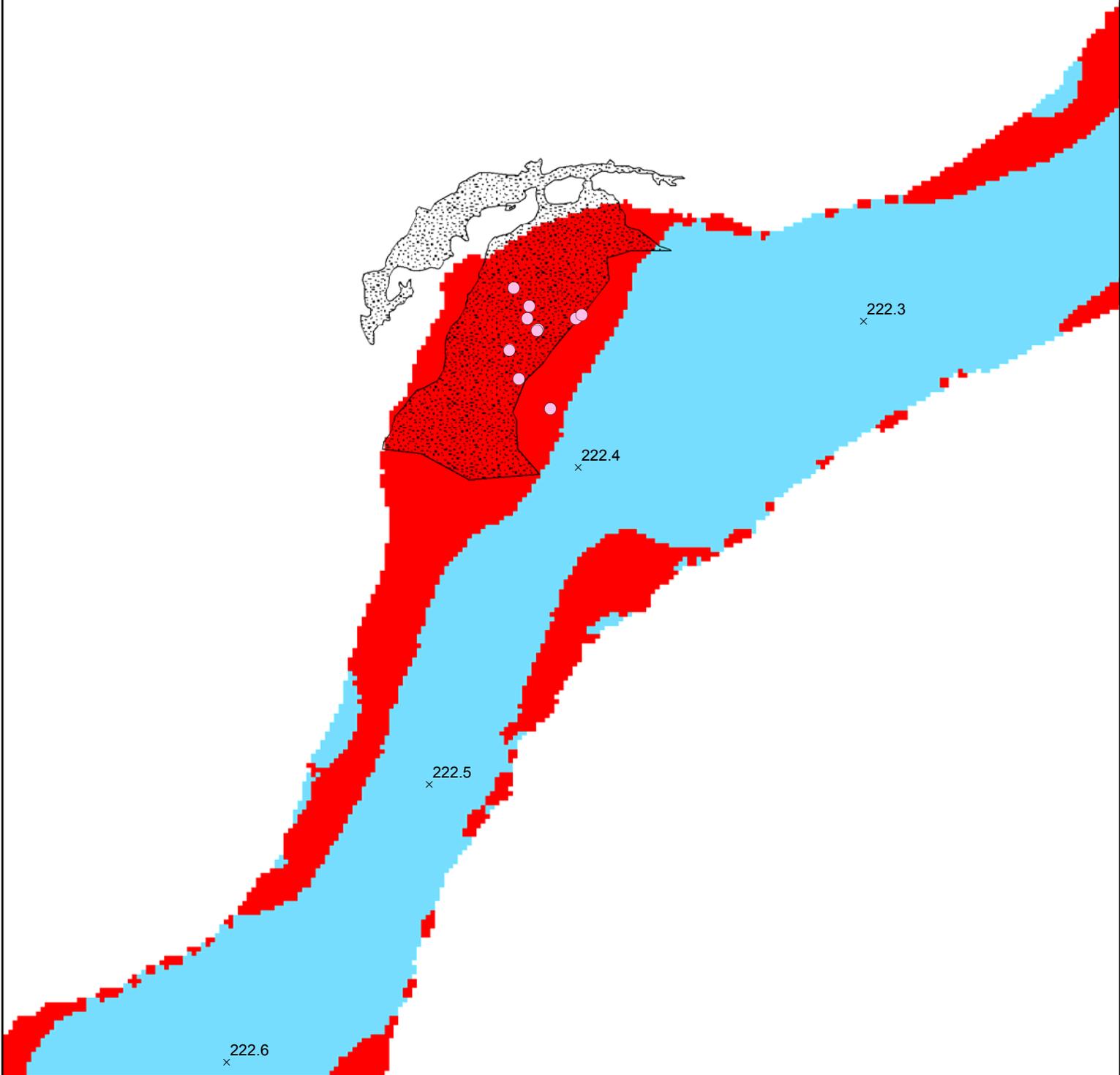
Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR SI, Figure E-9
Salt Creek Bar Field Sampling Map - 15000 cfs



01/10/05



Features Legend	
Sand Polygon	River Mile
Model Results	Field Sample Results
1.0 mm Mobile	No Sand Movement Indicated
1.0 mm Stable	Sand Movement Indicated
	1.0 mm Sand Sample Collected



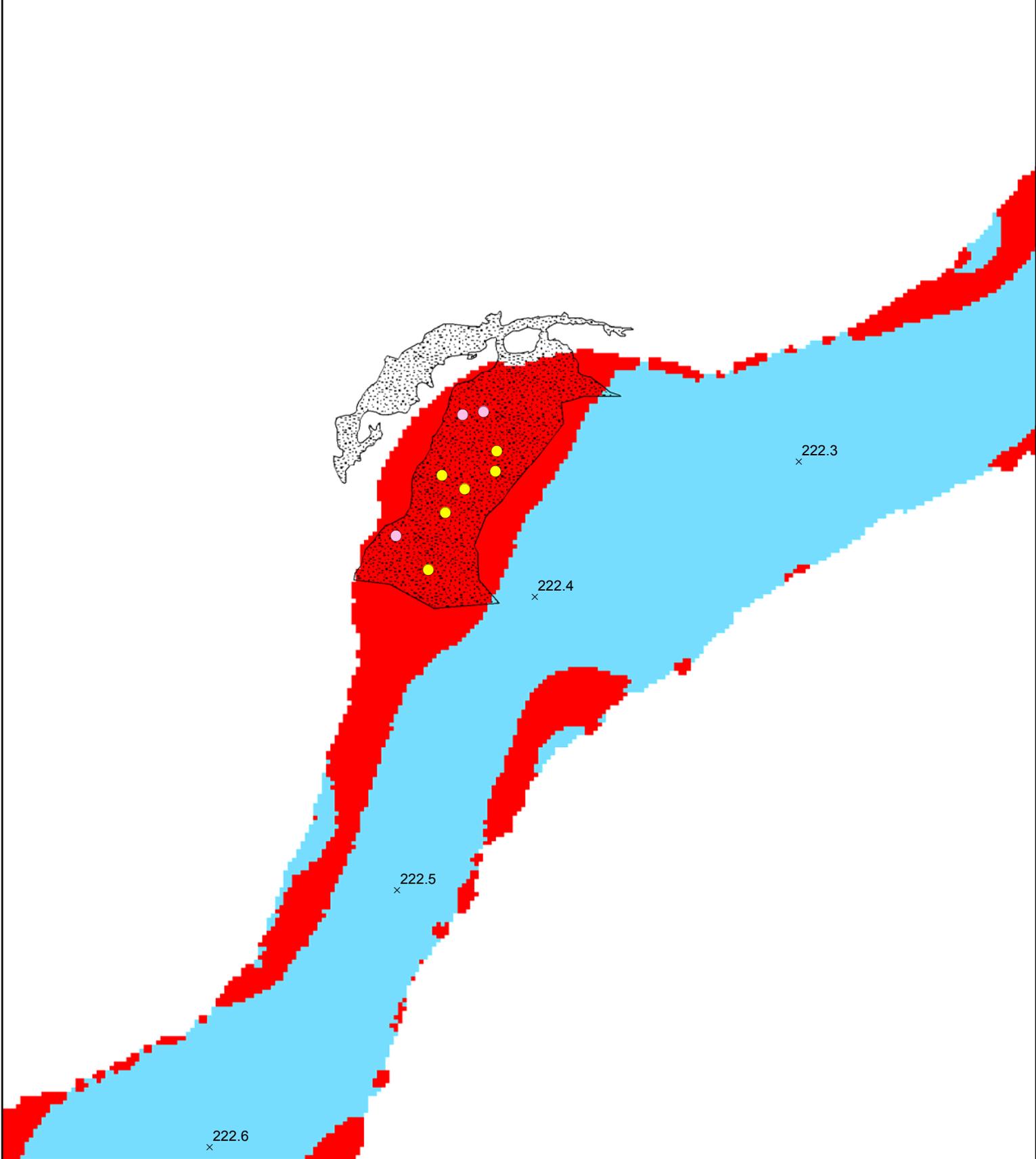
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-10

Salt Creek Bar Field Sampling Map - 20000 cfs



01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected



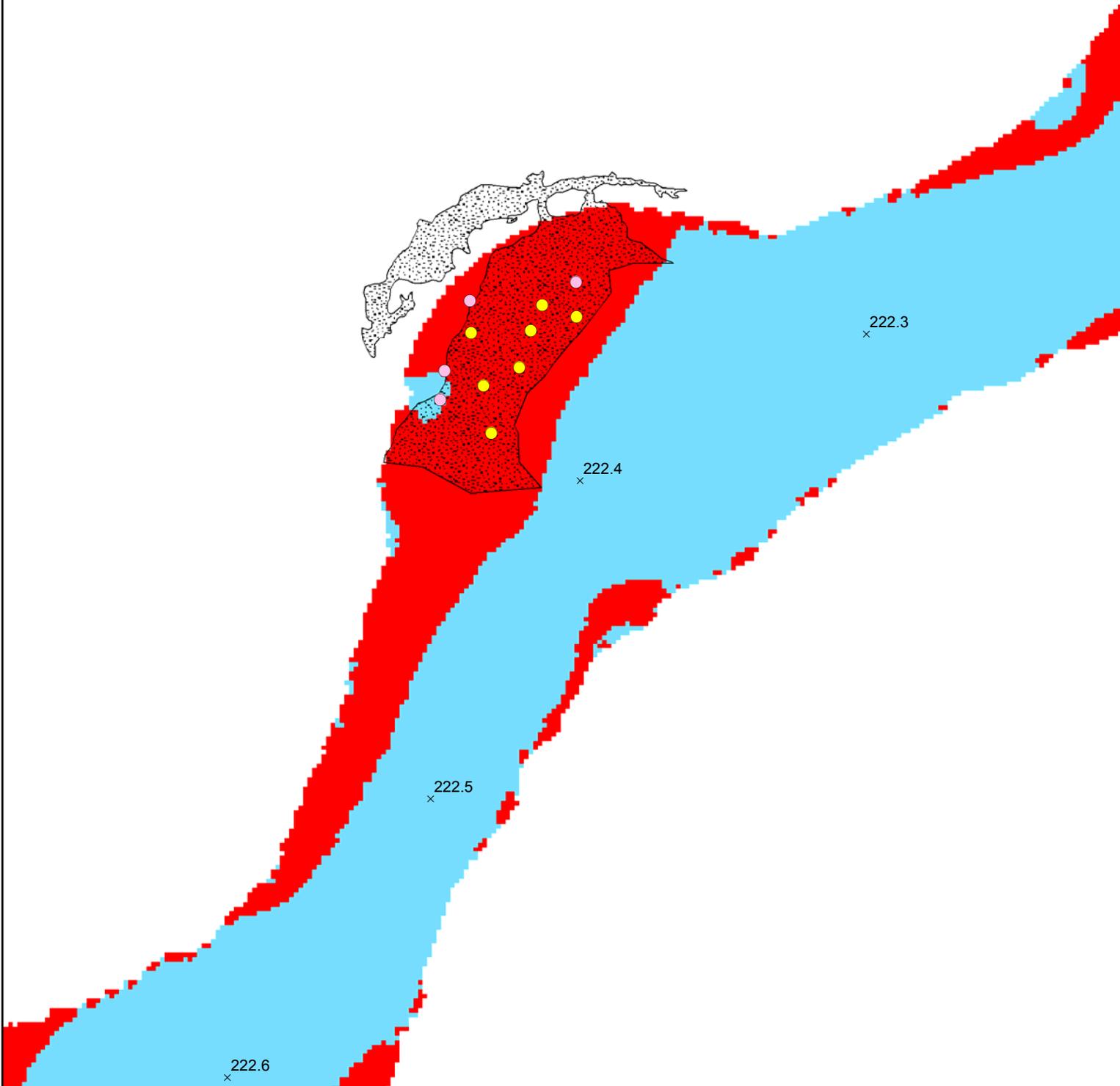
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-11

Salt Creek Bar Field Sampling Map - 25000 cfs



01/10/05



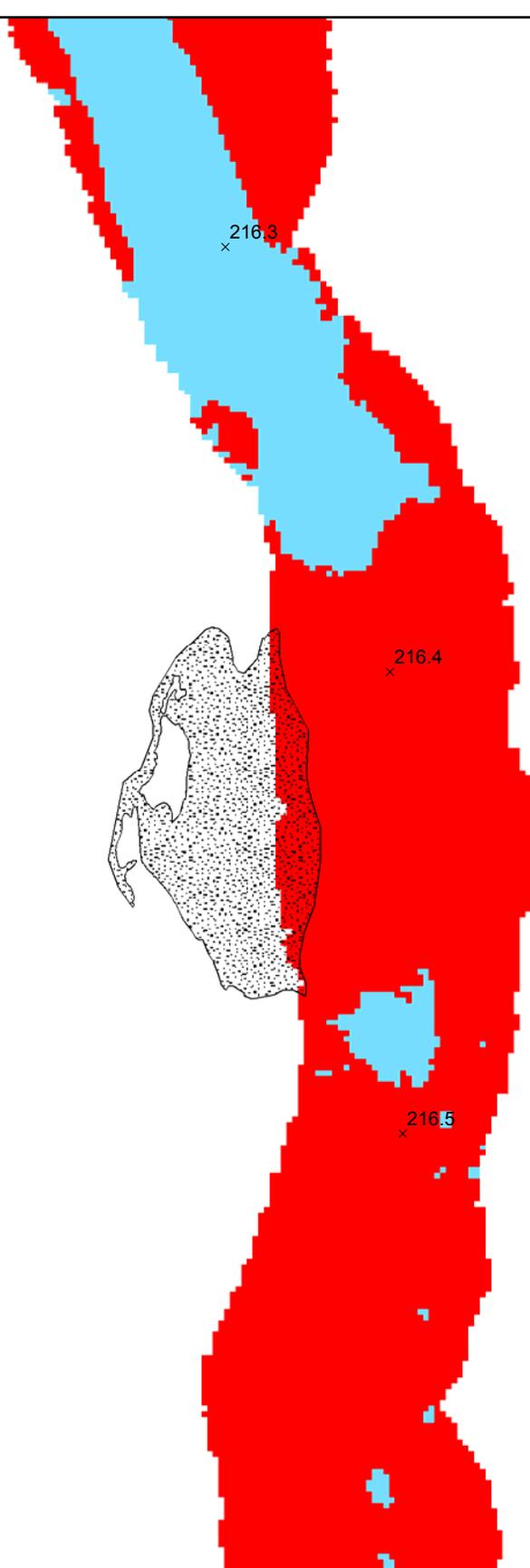
Features Legend

Sand Polygon	River Mile
Model Results	Field Sample Results
1.0 mm Mobile	No Sand Movement Indicated
1.0 mm Stable	Sand Movement Indicated
	1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR SI, Figure E-12
Salt Creek Bar Field Sampling Map - 30000 cfs

0 20 40 80 120 Meters

01/10/05



Features Legend

- | | |
|---|--|
|  Sand Polygon |  River Mile |
| Model Results | Field Sample Results |
|  1.0 mm Mobile |  No Sand Movement Indicated |
|  1.0 mm Stable |  Sand Movement Indicated |
| |  1.0 mm Sand Sample Collected |



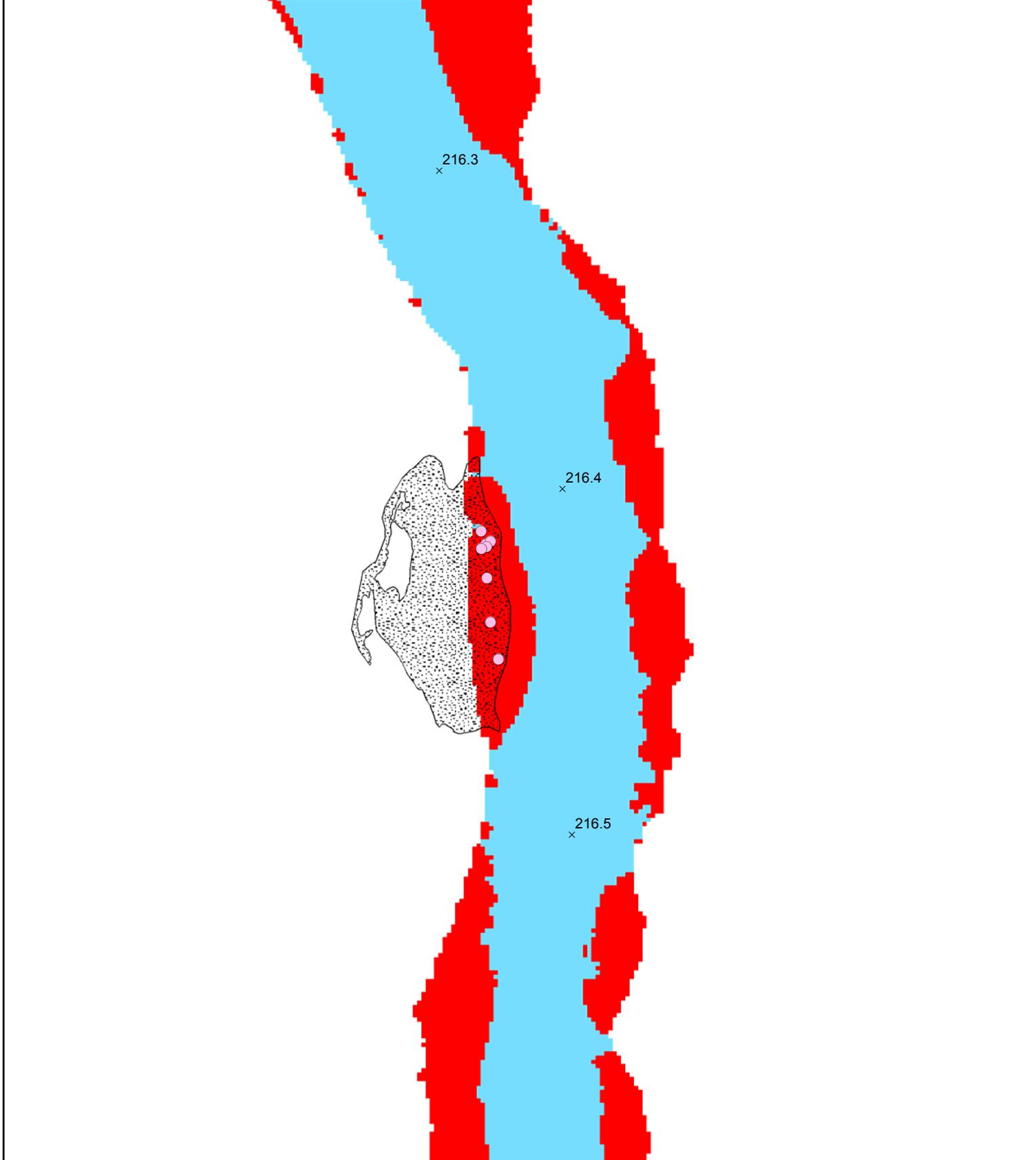
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-13

Fish Trap Bar Field Sampling Map - 5000 cfs



01/10/05



Features Legend

	Sand Polygon		River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected



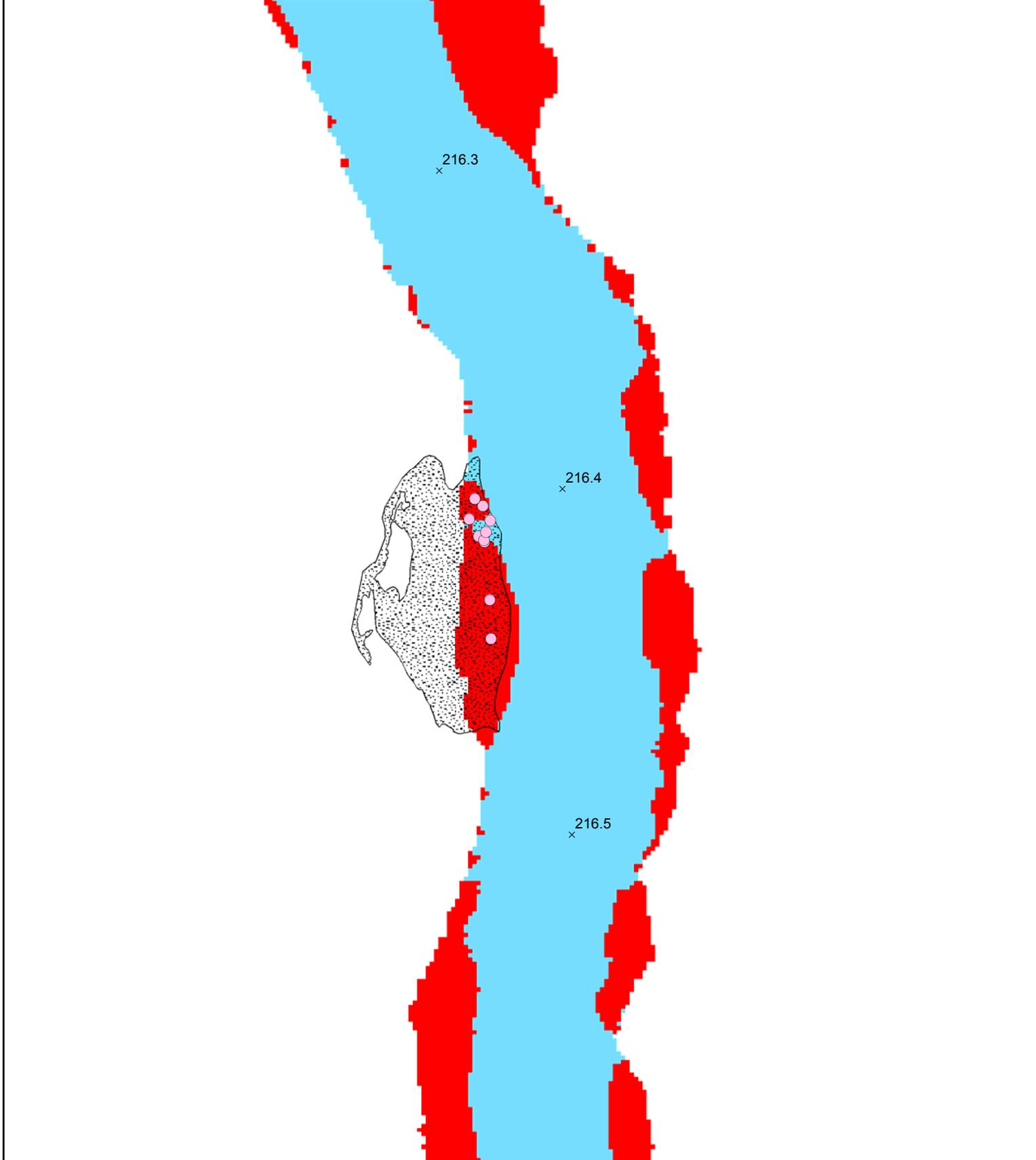
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-14

Fish Trap Bar Field Sampling Map - 10000 cfs



01/10/05

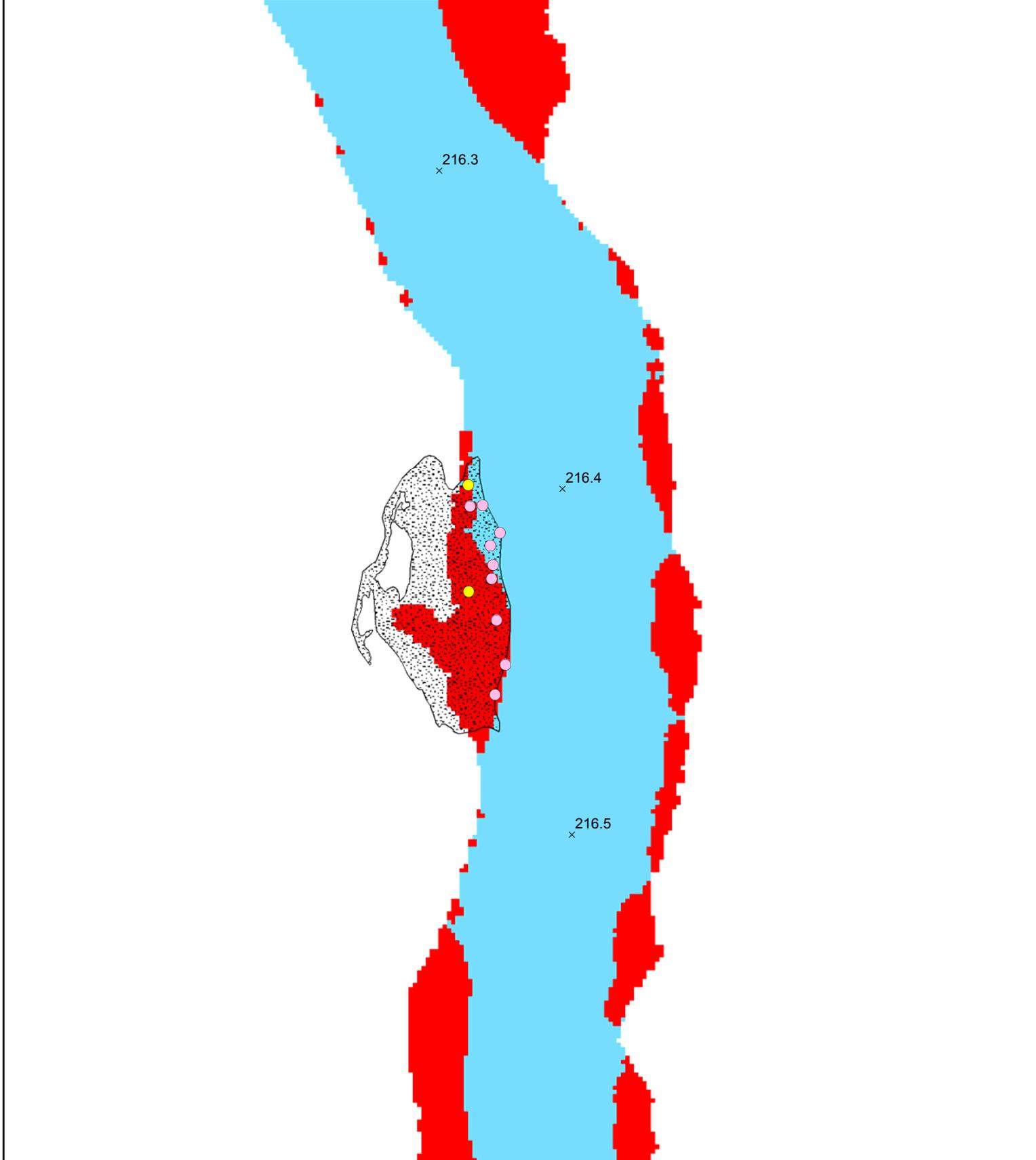


Features Legend

	Sand Polygon	×	River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR SI, Figure E-15
Fish Trap Bar Field Sampling Map - 15000 cfs

01/10/05



Features Legend

- | | | | |
|----------------------|---------------|-----------------------------|------------------------------|
| | Sand Polygon | | River Mile |
| Model Results | | Field Sample Results | |
| | 1.0 mm Mobile | | No Sand Movement Indicated |
| | 1.0 mm Stable | | Sand Movement Indicated |
| | | | 1.0 mm Sand Sample Collected |



HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

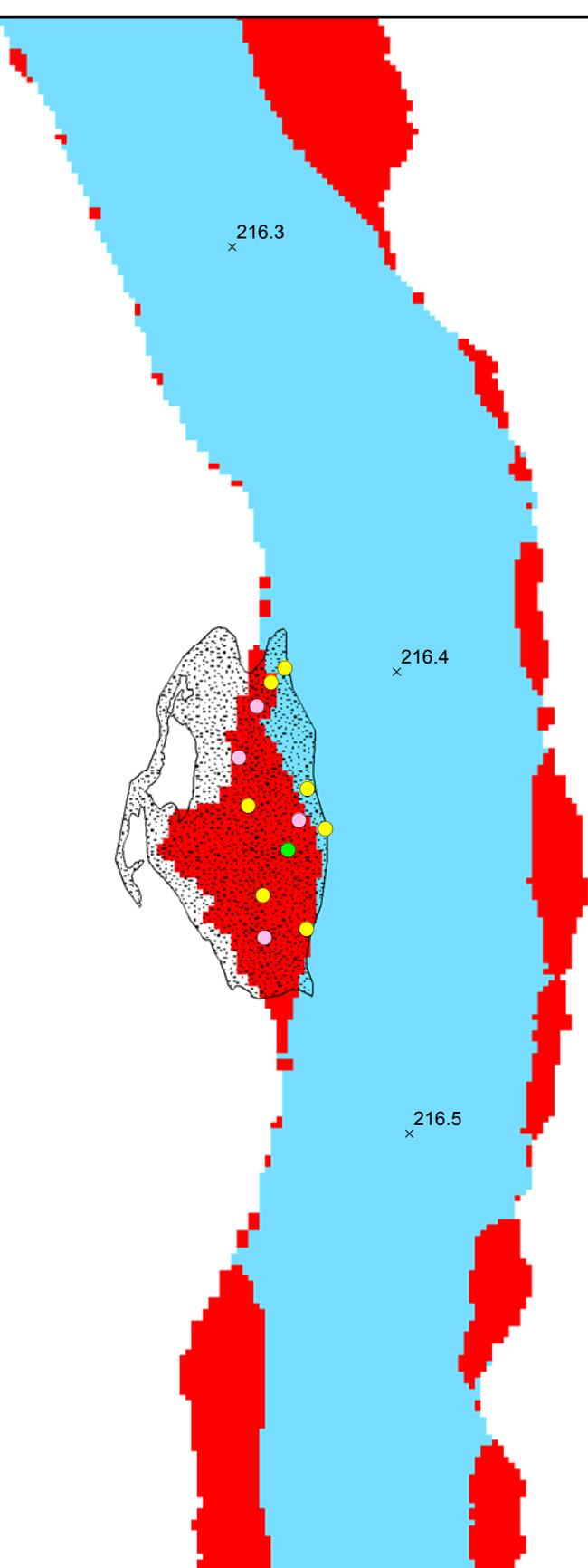
Response to AIR SI, Figure E-16

Fish Trap Bar Field Sampling Map - 20000 cfs



01/10/05





Features Legend

- | | | | |
|----------------------|---------------|-----------------------------|------------------------------|
| | Sand Polygon | | River Mile |
| Model Results | | Field Sample Results | |
| | 1.0 mm Mobile | | No Sand Movement Indicated |
| | 1.0 mm Stable | | Sand Movement Indicated |
| | | | 1.0 mm Sand Sample Collected |



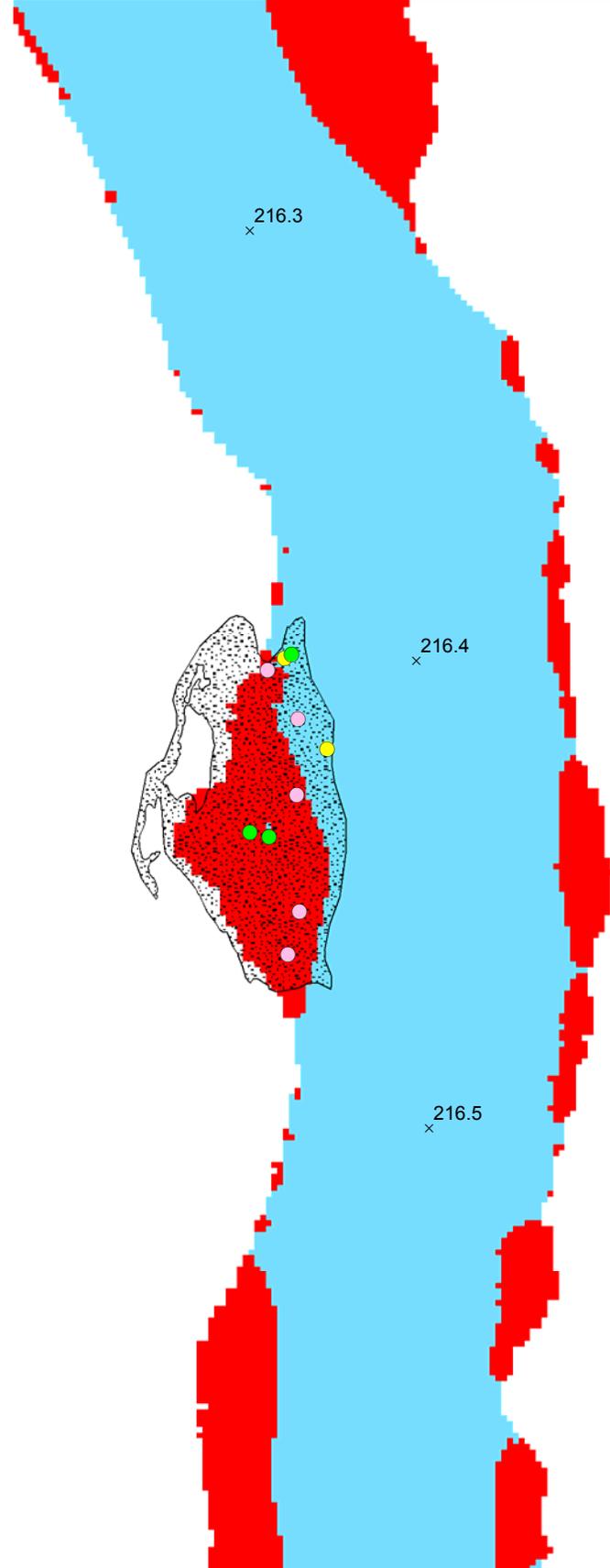
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-17

Fish Trap Bar Field Sampling Map - 25000 cfs



01/10/05



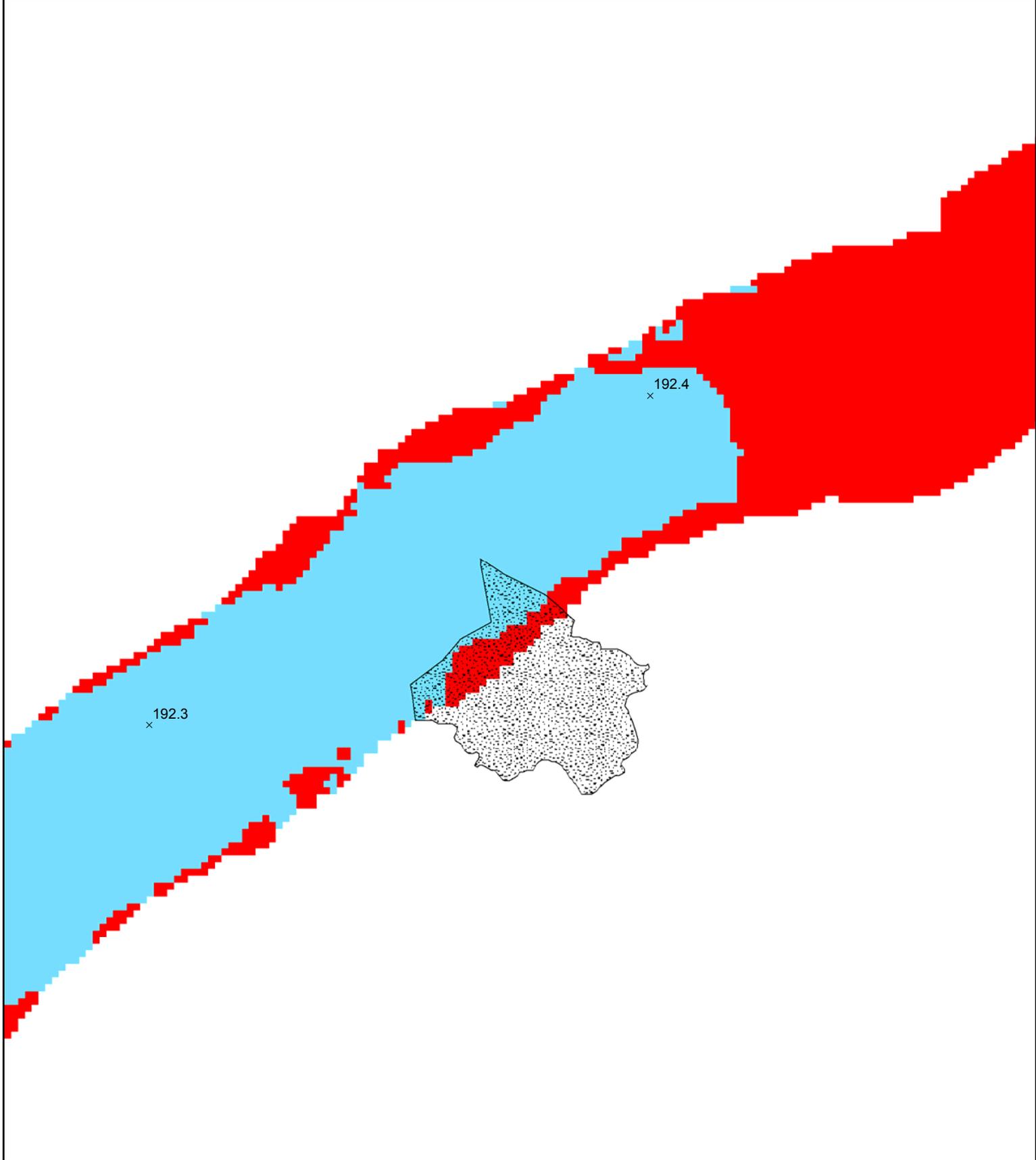
Features Legend

	Sand Polygon		River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR S1, Figure E-18
Fish Trap Bar Field Sampling Map - 30000 cfs



01/10/05



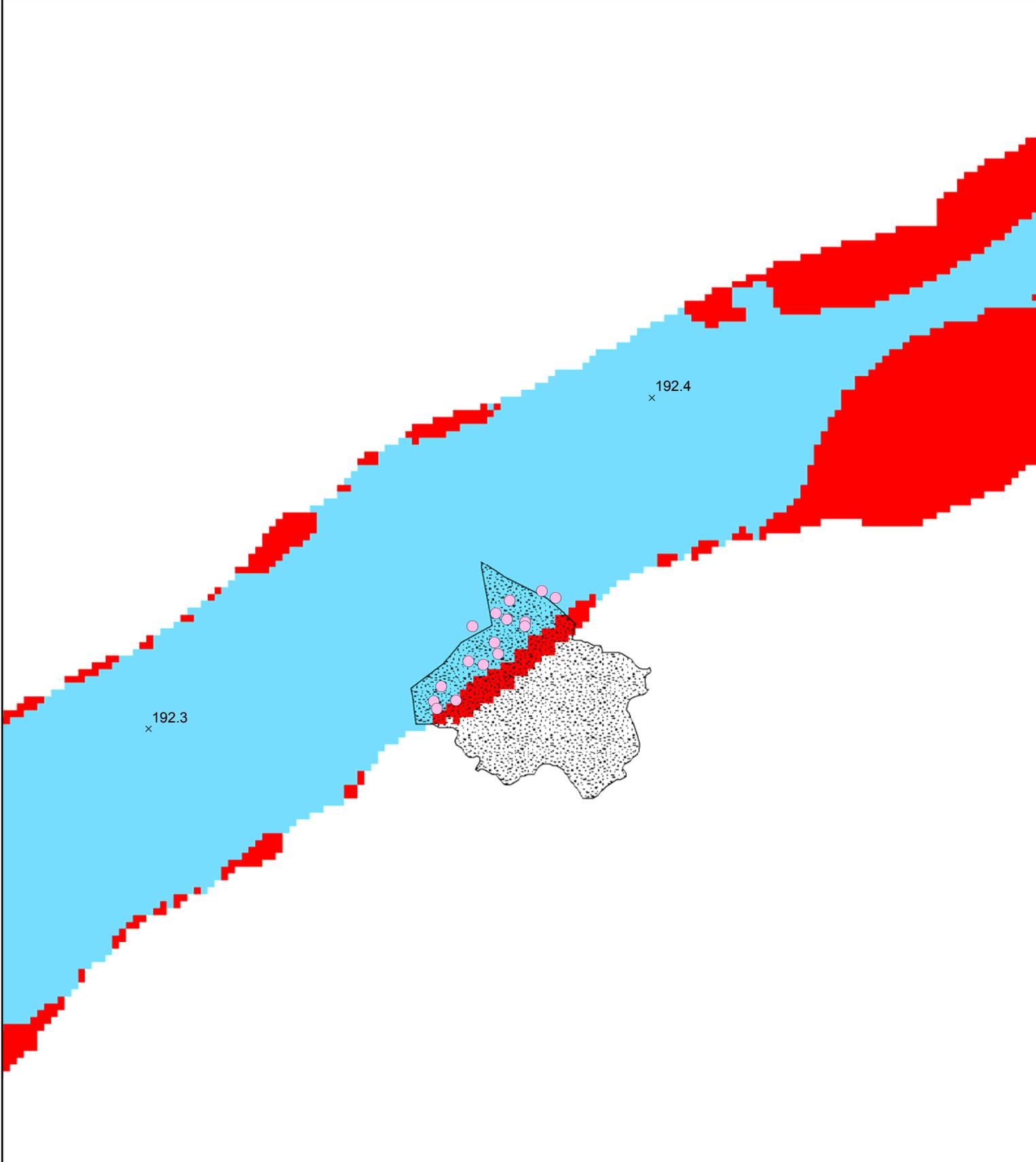
Features Legend

 Sand Polygon	 River Mile
Model Results	
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR S1, Figure E-19
China Bar Field Sampling Map - 5000 cfs

0 12.5 25 50 75 Meters

01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected



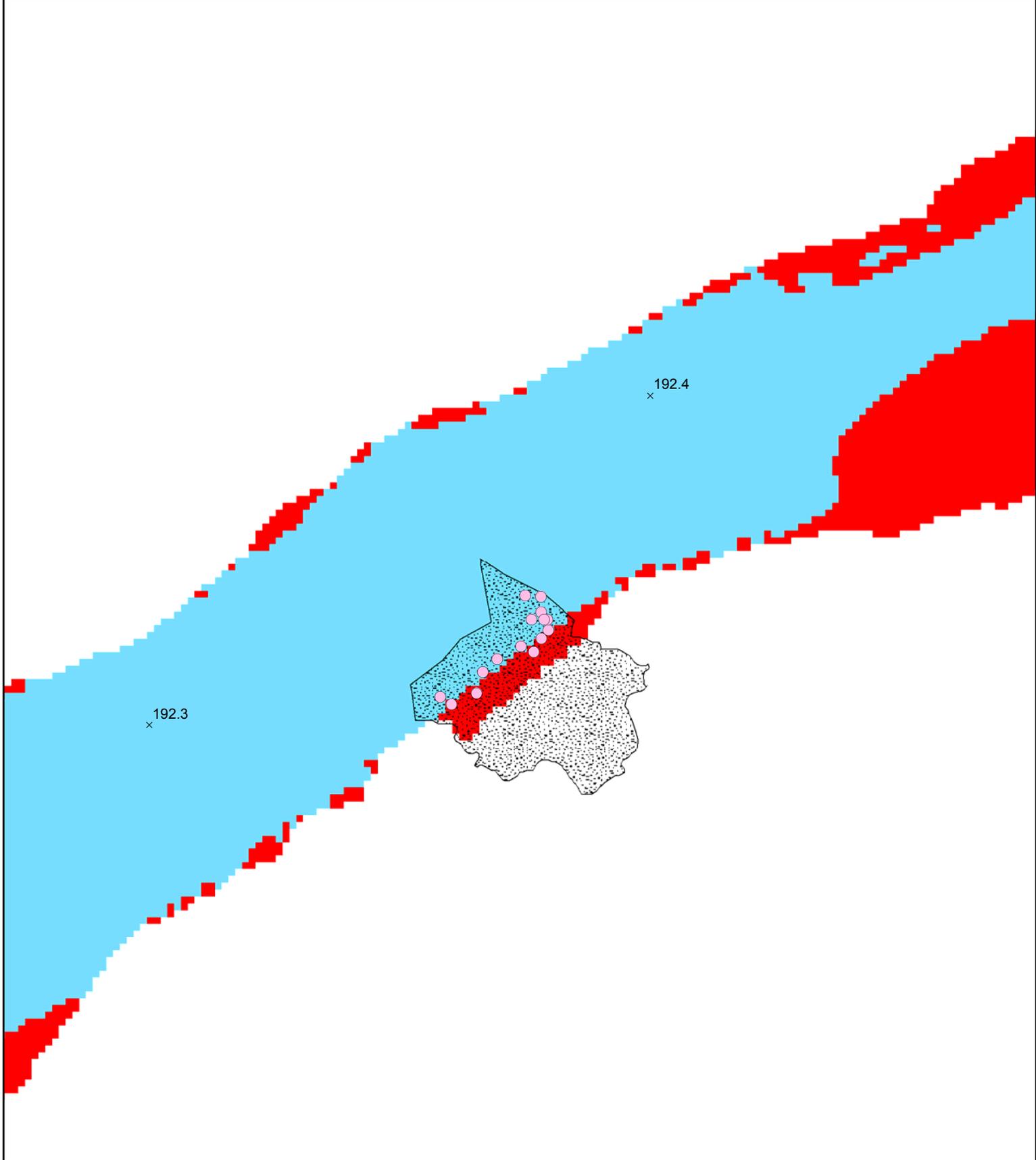
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-20

China Bar Field Sampling Map - 10000 cfs



01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected



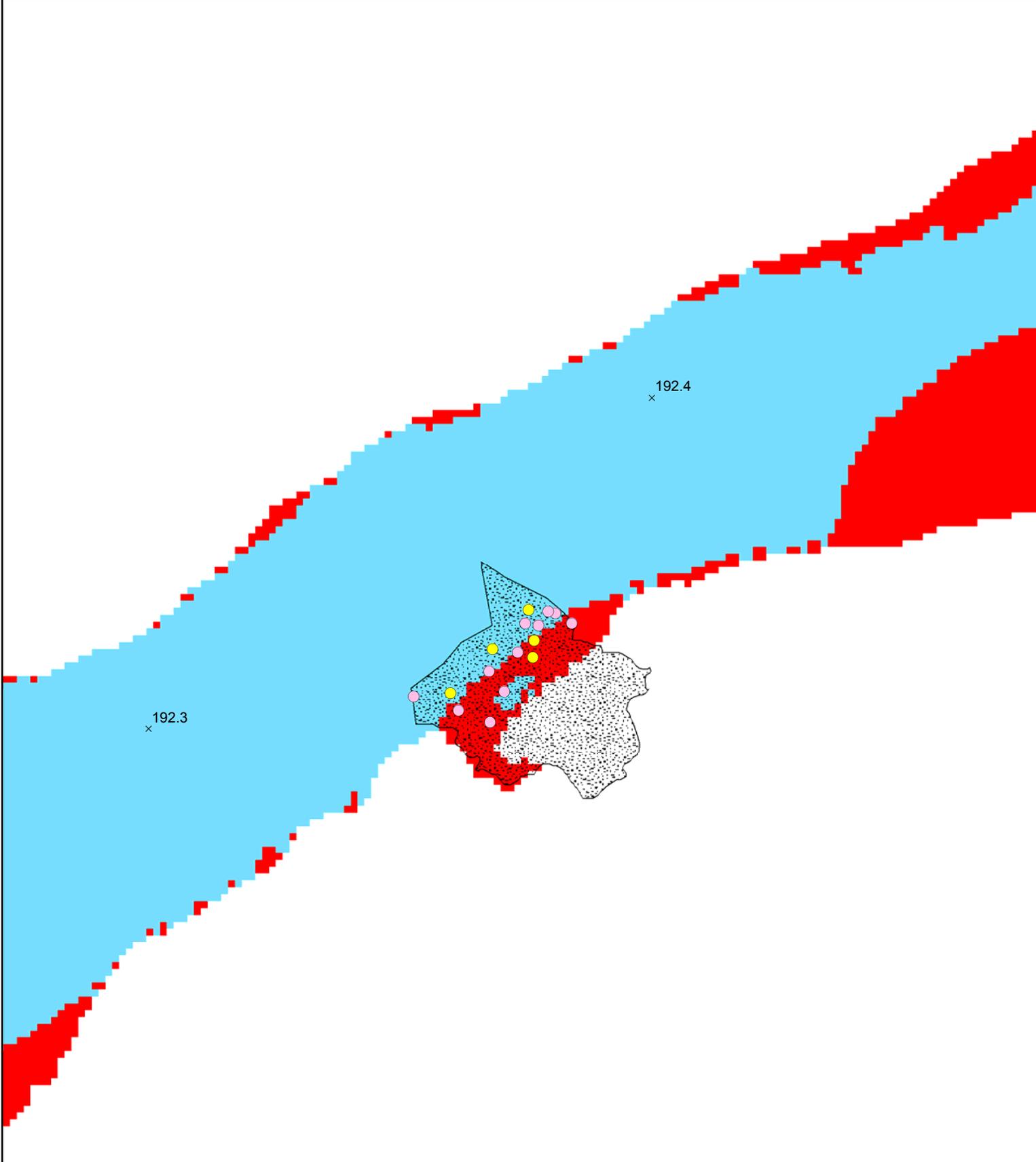
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-21

China Bar Field Sampling Map - 15000 cfs



01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected



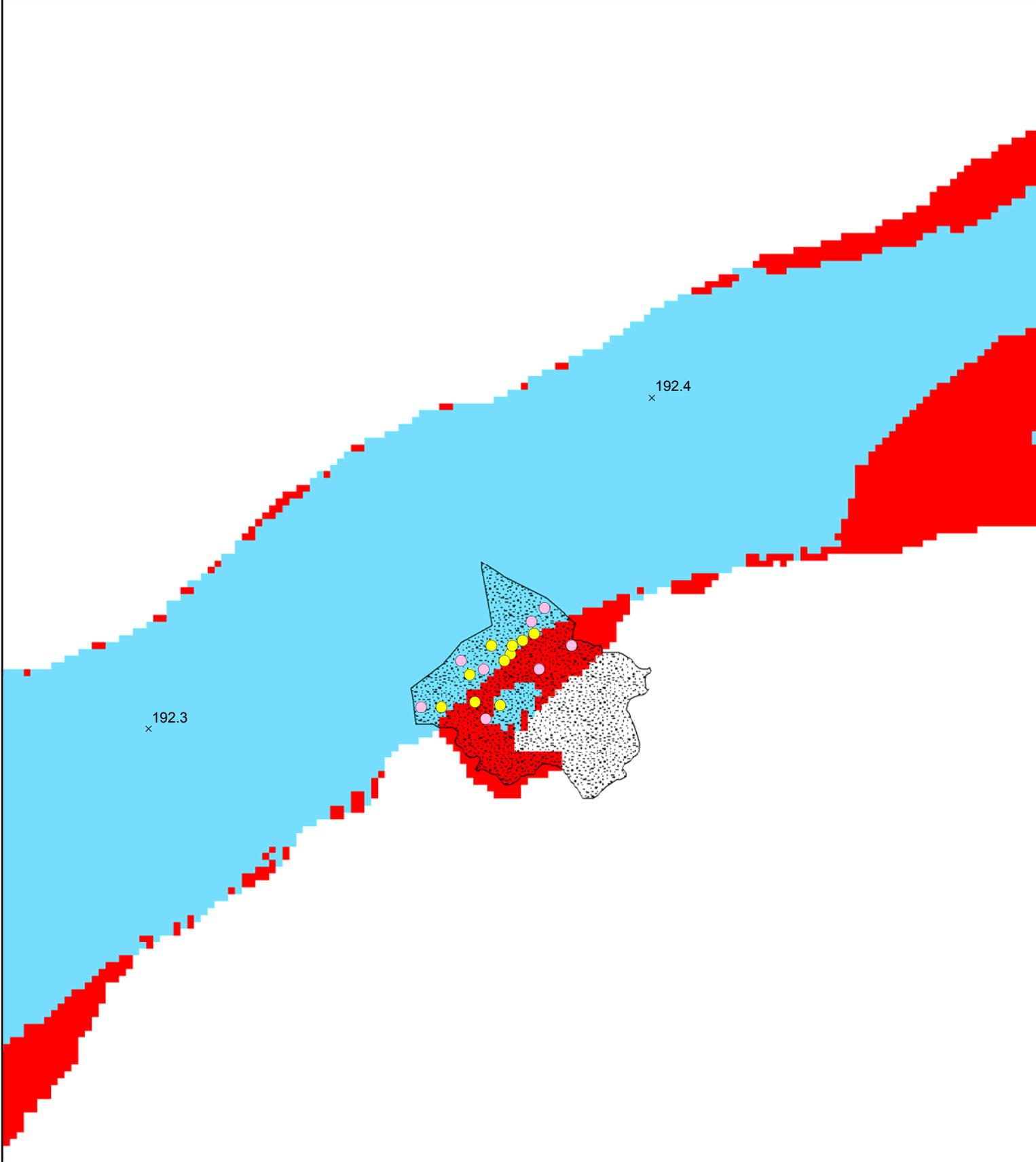
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-22

China Bar Field Sampling Map - 20000 cfs



01/10/05



Features Legend

 Sand Polygon	 River Mile
Model Results	Field Sample Results
 1.0 mm Mobile	 No Sand Movement Indicated
 1.0 mm Stable	 Sand Movement Indicated
	 1.0 mm Sand Sample Collected



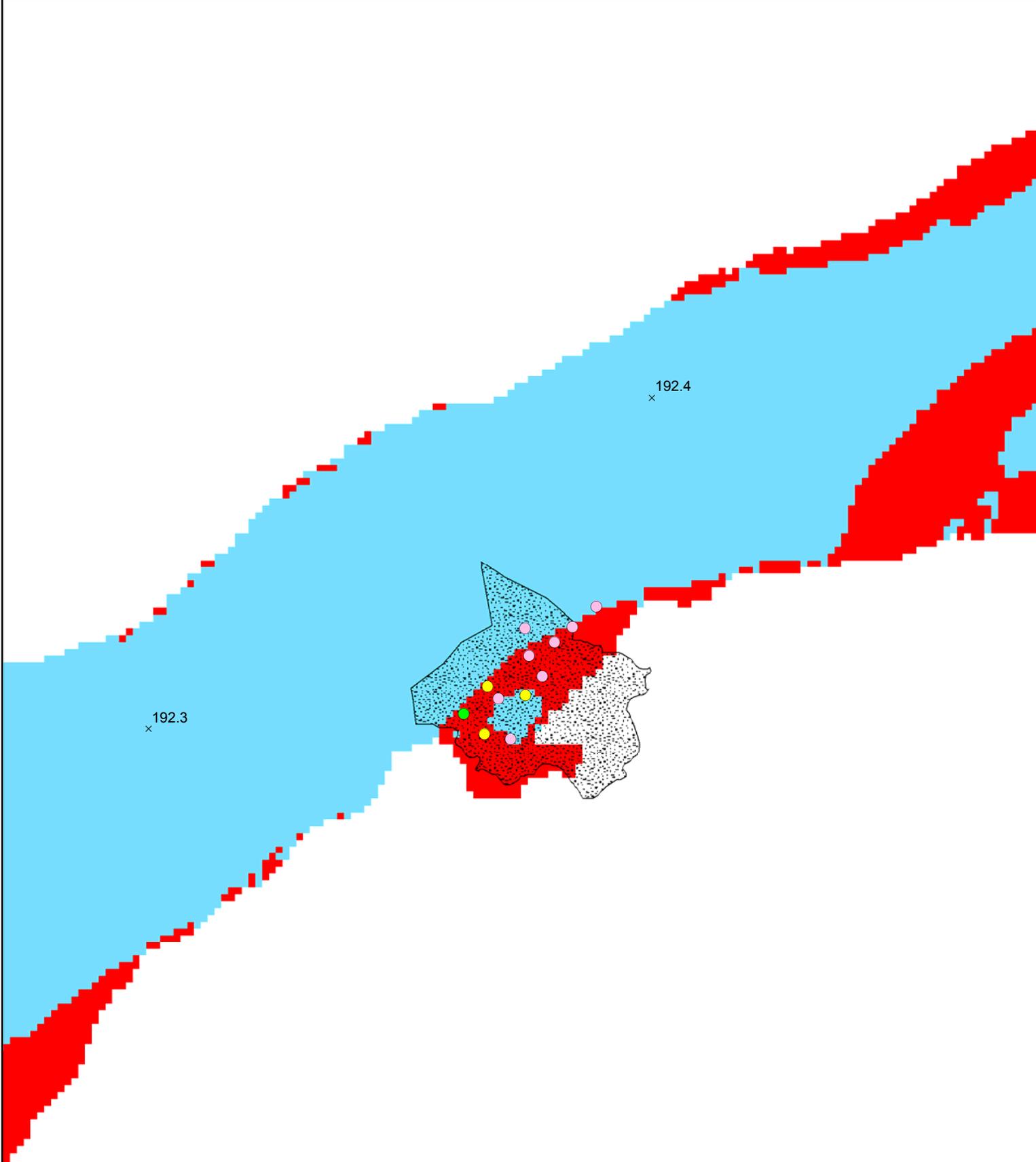
HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR S1, Figure E-23

China Bar Field Sampling Map - 25000 cfs



01/10/05



Features Legend

	Sand Polygon	×	River Mile
Model Results		Field Sample Results	
	1.0 mm Mobile		No Sand Movement Indicated
	1.0 mm Stable		Sand Movement Indicated
			1.0 mm Sand Sample Collected

HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
 IDAHO POWER COMPANY, BOISE, ID 2005

Response to AIR SI, Figure E-24

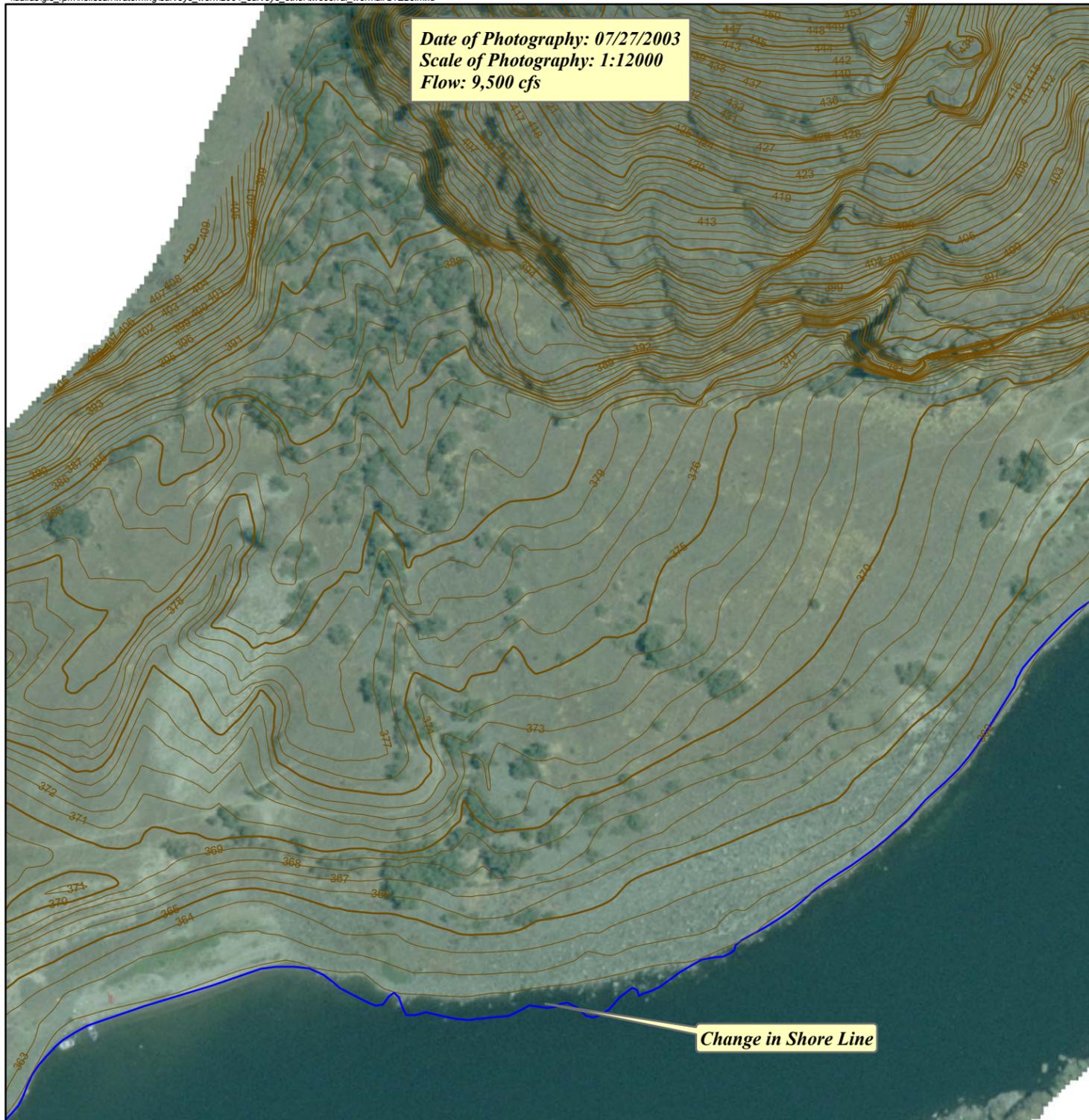
China Bar Field Sampling Map - 30000 cfs



01/10/05

Date of Photography: 07/27/2003
Scale of Photography: 1:12000
Flow: 9,500 cfs

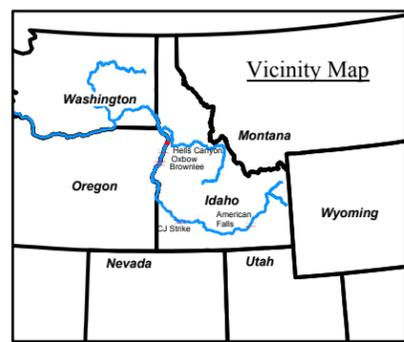
Date of Photography: 09/17/2004
Scale of Photography: 1:6000
Flow: 10,300 cfs



Change in Shore Line

Features Legend

- 2004 Post Event Edge of Water
- Index Contour
- Intermediate Contour



HELLS CANYON HYDROELECTRIC PROJECT - FERC NO. 1971
IDAHO POWER COMPANY, BOISE, ID 2005
Response to AIR S1, Figure E-25

Aerial Photography Comparison of
Two Corral Creek, 2003 and 2004



01/20/05



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