

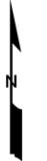
Figures

NOTE: Assessment will include area West of the ARRC property up to 1/2 mile.



LEGEND

-  PROPOSED SHIP CREEK ECOLOGICAL HABITAT ASSESSMENT AREA
-  UPLAND ECOLOGICAL HABITAT ASSESSMENT AREA



- NOTES:**
1. AERIAL PHOTO BASE TAKEN MAY 22, 2003, PROVIDED BY ARRC.
 2. PROPERTY BOUNDARY DIGITIZED FROM ARRC CAD BASEMAP AUGUST 12, 2004.

SHIP CREEK HABITAT ASSESSMENT WORK PLAN
ARRC, ANCHORAGE TERMINAL RESERVE

SHIP CREEK PRELIMINARY HABITAT
ASSESSMENT EVALUATION AREA

DATE: 11/30/04

DWN. BY: KBL/ftc

FIGURE: 1





LEGEND	
	1920 STREAM CHANNEL
	1950 DRY OR DIVERSION CHANNEL DURING CONSTRUCTION
	1950 STREAM CHANNEL
	1961 STREAM CHANNEL
	1989 STREAM CHANNEL
	2003 STREAM CHANNEL
	ARRC PROPERTY BOUNDARY
	RIPIARIAN AREAS (TAKEN FROM AUGUST 2003 PHOTO)
	VEGETATED AREAS
	MUDFLATS/TIDAL ZONE
	UNVEGETATED BANKS OR SAND/GRAVEL BAR

- NOTES:
1. Basemap provided by Municipality of Anchorage, August, 2004.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.
 3. Channel morphology alignment was derived from georeferenced aerial photos of varying quality, not from ortho-rectified aerial photography. Alignments are approximate.

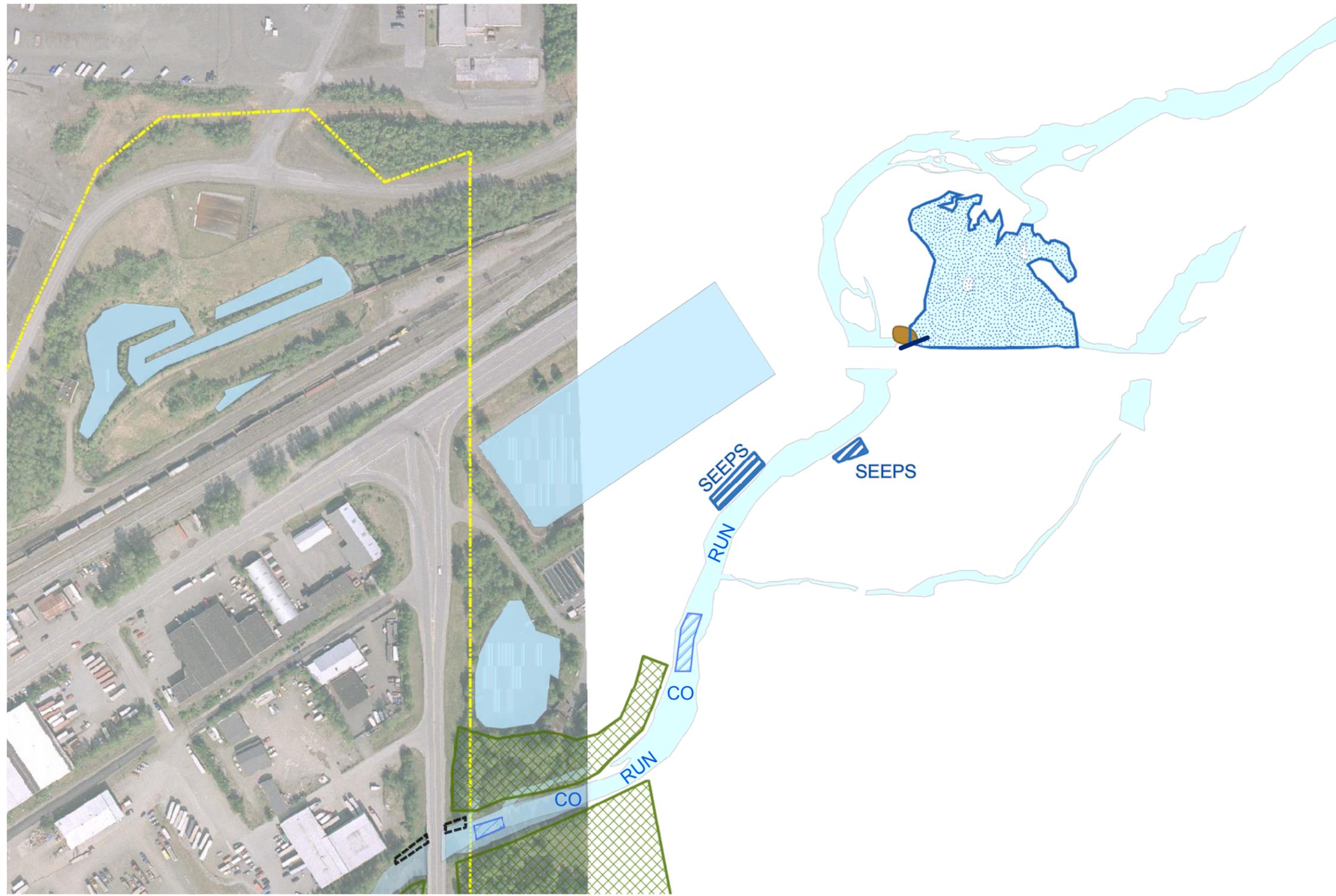


SHIP CREEK PRELIMINARY HABITAT SURVEY
ARRC TERMINAL RESERVE

Date: 11/19/04 | Dwn By: WGP | File Name:

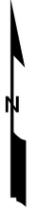
SHIP CREEK HABITAT ASSESSMENT
HISTORICAL CHANNEL MORPHOLOGY

FIGURE 2



Legend		
THALWEG	DECIDUOUS AND CONIFERS	BEAVER LODGE
RELICT CHANNEL	MARSH VEGETATION	BACKWATERS (BW)
ARRC PROPERTY BOUNDARY	SCRUB/SHRUB VEGETATION	RIFFLE AREA (RF)
GR GRAVEL	DECIDUOUS WOODS	POND WITH MACROPHYTE VEGETATION
MU MUD	GRASS/MEADOW VEGETATION	UNDERCUT BANK
CO COBBLE	DISTURBANCE	
RF RIFFLE		

NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.



SHIP CREEK HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302
 DATE: 11/30/04 | DWN. BY: WGP | FILE:

SHIP CREEK HABITAT
 AND HYDROLOGICAL FEATURES
FIGURE 3A

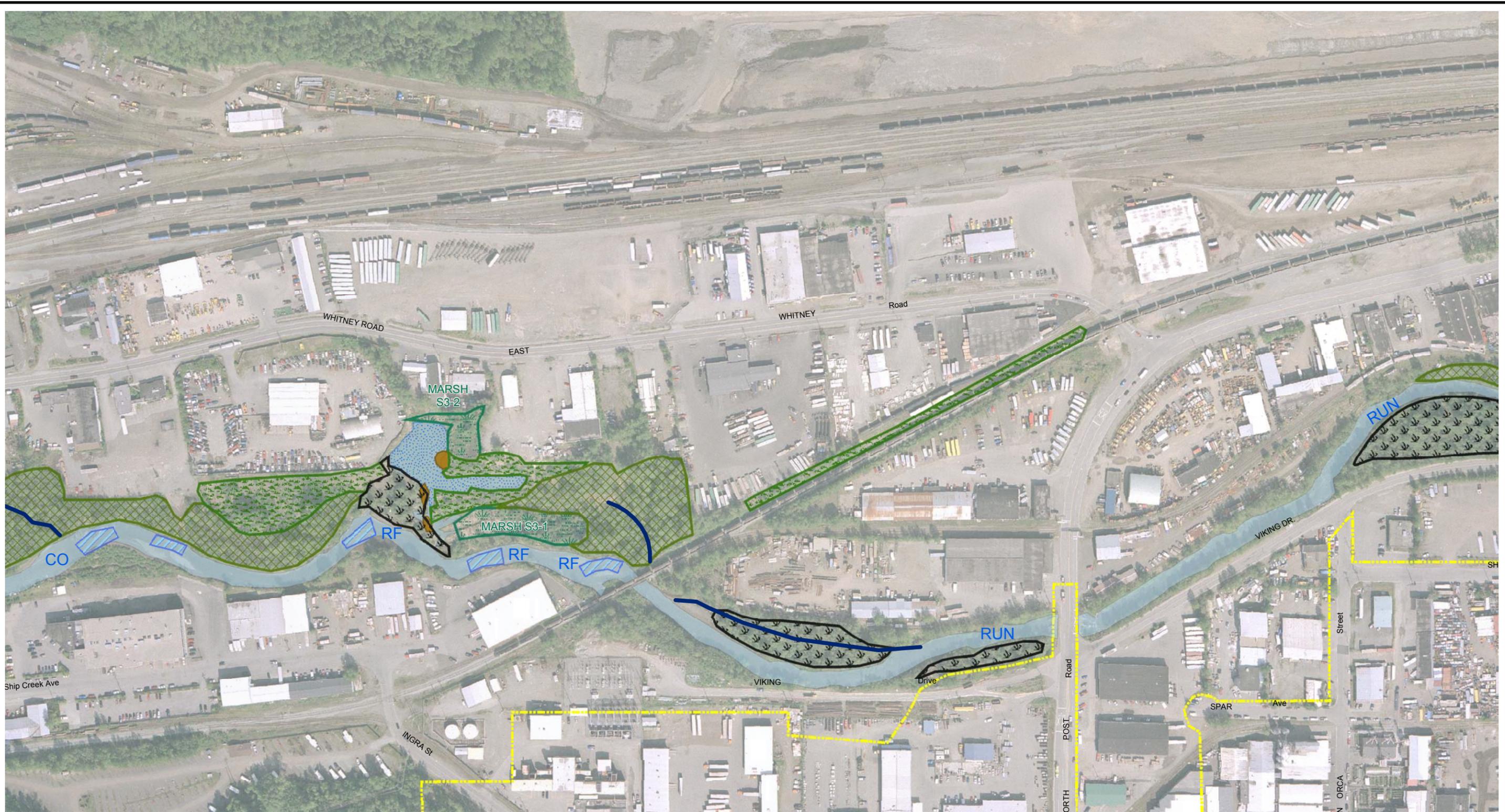


Legend		
THALWEG	DECIDUOUS AND CONIFERS	BEAVER LODGE
RELICT CHANNEL	MARSH VEGETATION	BACKWATERS (BW)
ARRC PROPERTY BOUNDARY	SCRUB/SHRUB VEGETATION	RIFFLE AREA (RF)
GRAVEL	DECIDUOUS WOODS	POND WITH MACROPHYTE VEGETATION
MUD	GRASS/MEADOW VEGETATION	UNDERCUT BANK
COBBLE	DISTURBANCE	
RIFFLE		



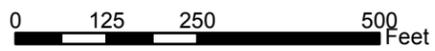
NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

SHIP CREEK HABITAT ASSESSMENT ARRC TERMINAL RESERVE ARC-18277-302		SHIP CREEK HABITAT AND HYDROLOGICAL FEATURES	
DATE: 11/30/04	DWN. BY: WGP	FILE:	FIGURE 3B



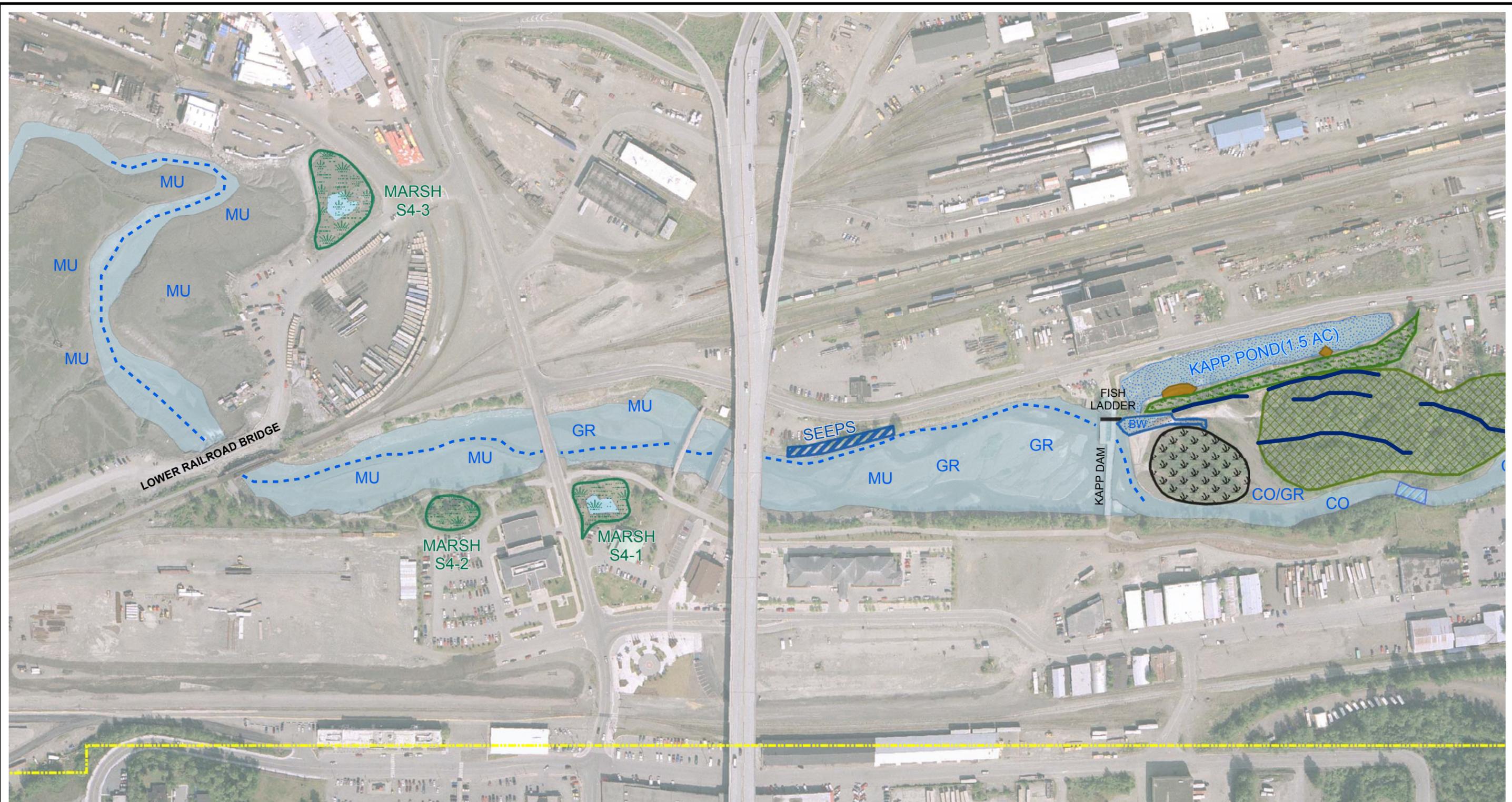
Legend

- | | | |
|------------------------------|-------------------------|---------------------------------|
| --- THALWEG | DECIDUOUS AND CONIFERS | BEAVER LODGE |
| — RELICT CHANNEL | MARSH VEGETATION | BACKWATERS (BW) |
| - - - ARRC PROPERTY BOUNDARY | SCRUB/SHRUB VEGETATION | RIFFLE AREA (RF) |
| GR GRAVEL | DECIDUOUS WOODS | POND WITH MACROPHYTE VEGETATION |
| MU MUD | GRASS/MEADOW VEGETATION | UNDERCUT BANK |
| CO COBBLE | DISTURBANCE | |
| RF RIFFLE | | |

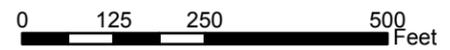


NOTES:
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 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.





Legend					
	THALWEG		DECIDUOUS AND CONIFERS		BEAVER LODGE
	RELICT CHANNEL		MARSH VEGETATION		BACKWATERS (BW)
	ARRC PROPERTY BOUNDARY		SCRUB/SHRUB VEGETATION		RIFFLE AREA (RF)
	GRAVEL		GRASS/MEADOW VEGETATION		POND WITH MACROPHYTE VEGETATION
	MUD		DISTURBANCE		UNDERCUT BANK
	COBBLE				
	RIFFLE				



NOTES:
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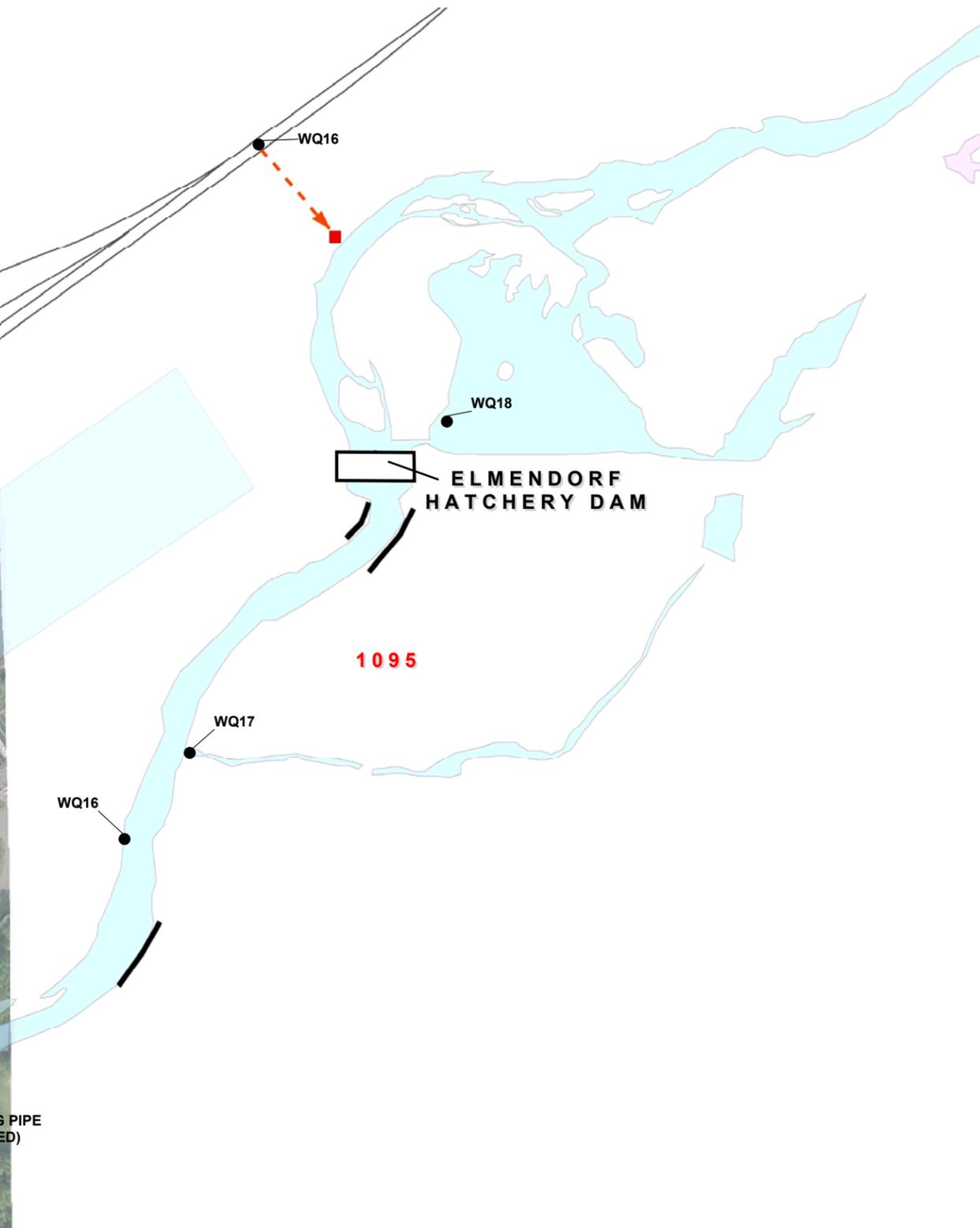
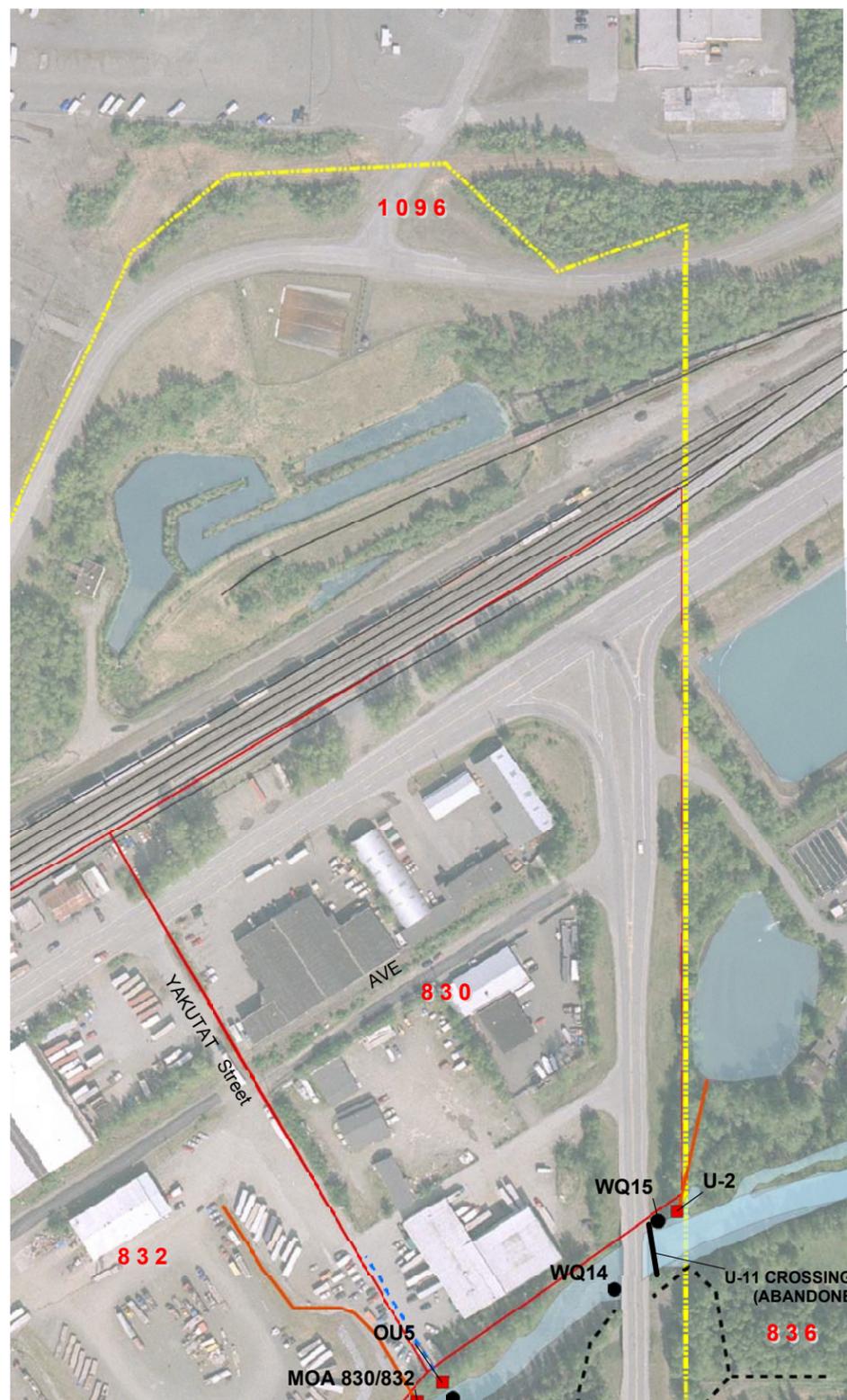


SHIP CREEK HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302

SHIP CREEK HABITAT
 AND HYDROLOGICAL FEATURES

DATE: 11/30/04 | DWN. BY: WGP | FILE:

FIGURE 3D



Legend			
	DITCHES		WATER QUALITY SAMPLING LOCATION
	SURFACE DRAINAGE		EVIDENCE OF CONTAMINATION
	STORM DRAIN		FEATURE OR OBJECT OF INTEREST
	OUTFALL		LARGE CONCRETE DEBRIS
	SUBDRAINAGE		REINFORCED BANKS
	ARRC PROPERTY BOUNDARY		TRAIL (APPROXIMATE)

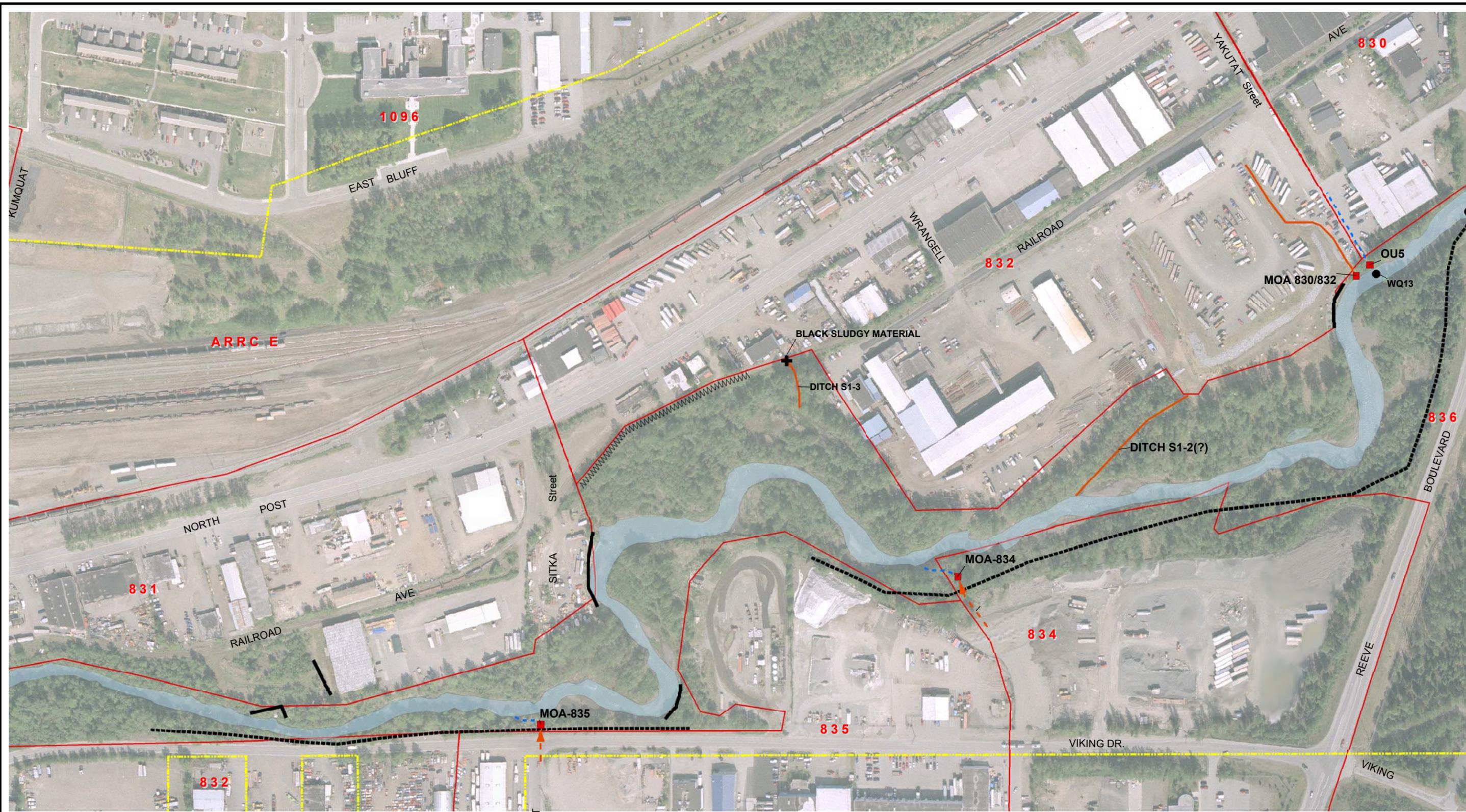
NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

SHIP CREEK PRELIMINARY HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302

SHIP CREEK DISCHARGES
 AND ENVIRONMENTAL OBSERVATIONS

DATE: 11/30/04 | DWN. BY: WGP | FILE: | FIGURE 4A





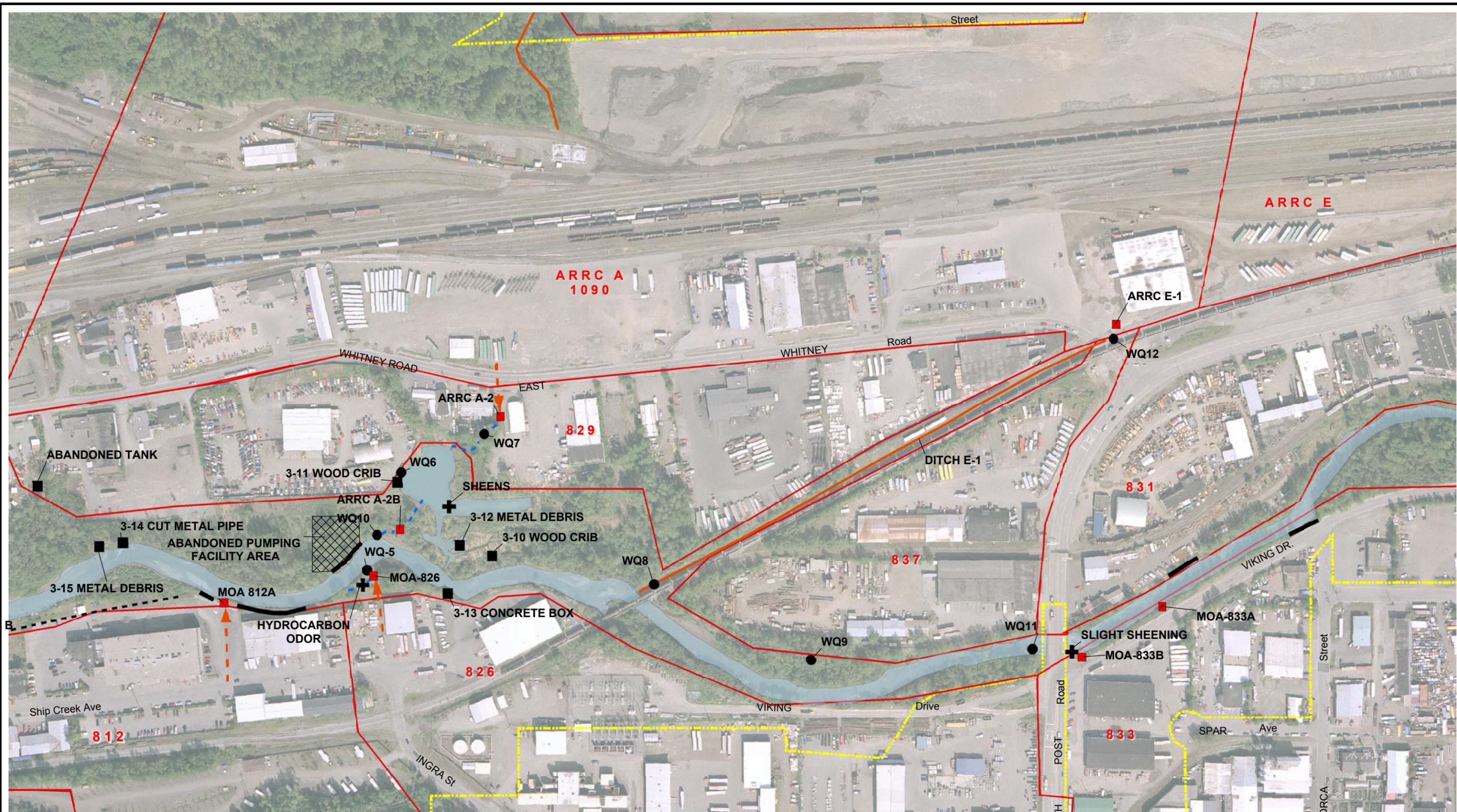
Legend

	DITCHES		WATER QUALITY SAMPLING LOCATION
	SURFACE DRAINAGE		EVIDENCE OF CONTAMINATION
	STORM DRAIN		FEATURE OR OBJECT OF INTEREST
	OUTFALL		LARGE CONCRETE DEBRIS
	SUBDRAINAGE		REINFORCED BANKS
	ARRC PROPERTY BOUNDARY		TRAIL (APPROXIMATE)

NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

SHIP CREEK PRELIMINARY HABITAT ASSESSMENT ARRC TERMINAL RESERVE ARC-18277-302		SHIP CREEK DISCHARGES AND ENVIRONMENTAL OBSERVATIONS	
DATE: 11/30/04	DWN. BY: WGP	FILE:	FIGURE 4B





Legend

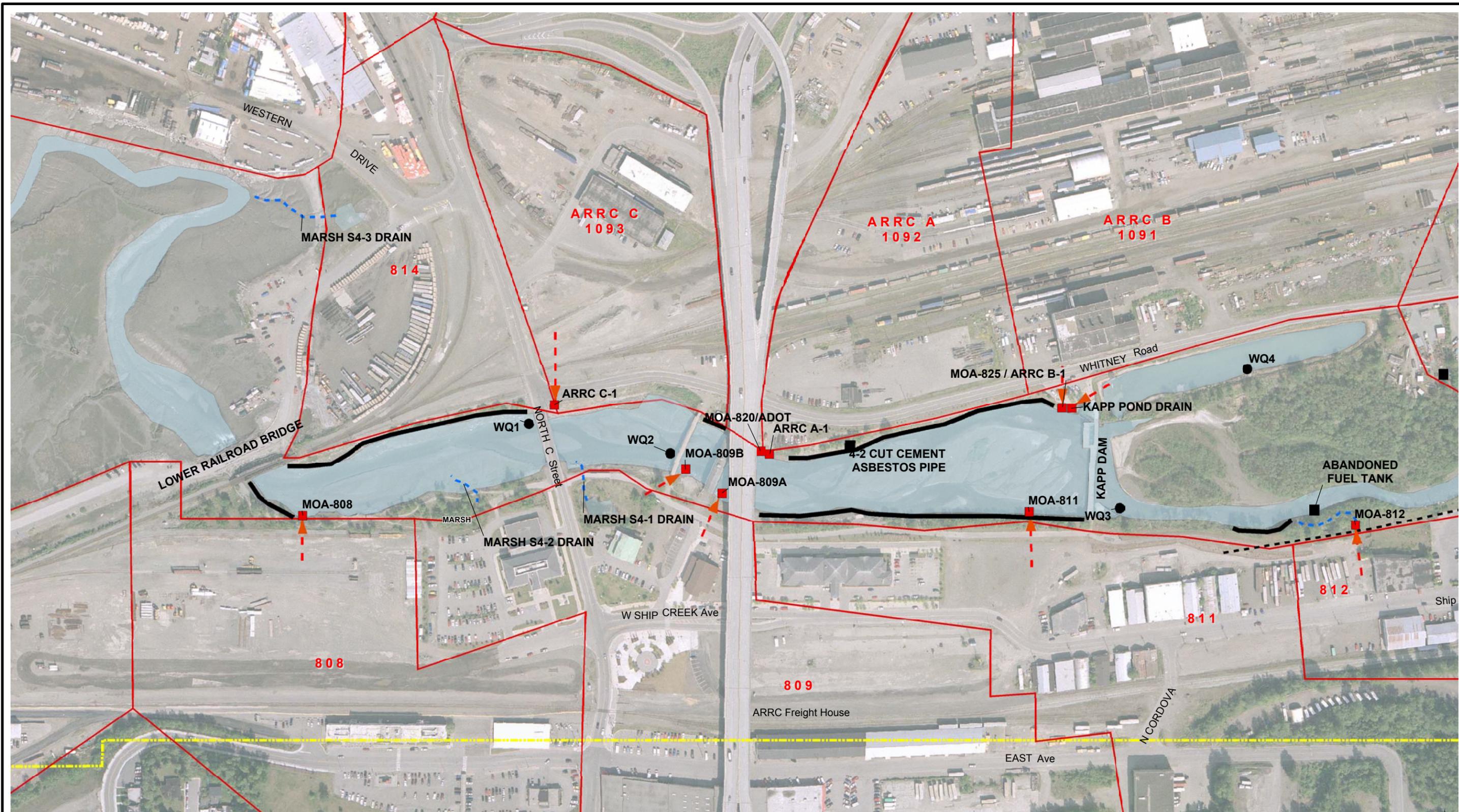
DITCHES	WATER QUALITY SAMPLING LOCATION
SURFACE DRAINAGE	EVIDENCE OF CONTAMINATION
STORM DRAIN	FEATURE OR OBJECT OF INTEREST
OUTFALL	LARGE CONCRETE DEBRIS
SUBDRAINAGE	REINFORCED BANKS
ARRC PROPERTY BOUNDARY	TRAIL (APPROXIMATE)

NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

SHIP CREEK PRELIMINARY HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302
 DATE: 11/30/04 | DWN. BY: WGP | FILE:

**SHIP CREEK DISCHARGES
 AND ENVIRONMENTAL OBSERVATIONS**
FIGURE 4C





Legend			
	DITCHES		WATER QUALITY SAMPLING LOCATION
	SURFACE DRAINAGE		EVIDENCE OF CONTAMINATION
	STORM DRAIN		FEATURE OR OBJECT OF INTEREST
	OUTFALL		LARGE CONCRETE DEBRIS
	SUBDRAINAGE		REINFORCED BANKS
	ARRC PROPERTY BOUNDARY		TRAIL (APPROXIMATE)

NOTES:
 1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

SHIP CREEK PRELIMINARY HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302
 DATE: 11/30/04 | DWN. BY: WGP | FILE:

**SHIP CREEK DISCHARGES
 AND ENVIRONMENTAL OBSERVATIONS**
FIGURE 4D

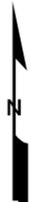




Legend

- | | |
|--|--|
|  FUEL LOADING RACK |  SPARSE WOODS/SHRUBS |
|  ROADSIDE DRAINAGE |  GRASSY-OPEN |
|  DRAINAGE DITCH |  SEEP AREAS |
|  ARRC PROPERTY BOUNDARY |  MARSH |
|  OTHER FEATURES OF INTEREST |  MATURE DECIDUOUS WOODS |
| |  SCRUB/SHRUB |

0 175 350 Feet



NOTES:

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SHIP CREEK HABITAT ASSESSMENT
ARRC TERMINAL RESERVE
ARC-18277-302

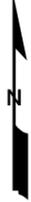
NORTH BLUFF HABITAT MAP

DATE: 11/30/04 | DWN. BY: WGP | FILE:

FIGURE 5A



Legend			
	FUEL LOADING RACK		SPARSE WOODS/SHRUBS
	ROADSIDE DRAINAGE		GRASSY-OPEN
	DRAINAGE DITCH		SEEP AREAS
	ARRC PROPERTY BOUNDARY		MARSH
	OTHER FEATURES OF INTEREST		MATURE DECIDUOUS WOODS
			SCRUB/SHRUB



NOTES:
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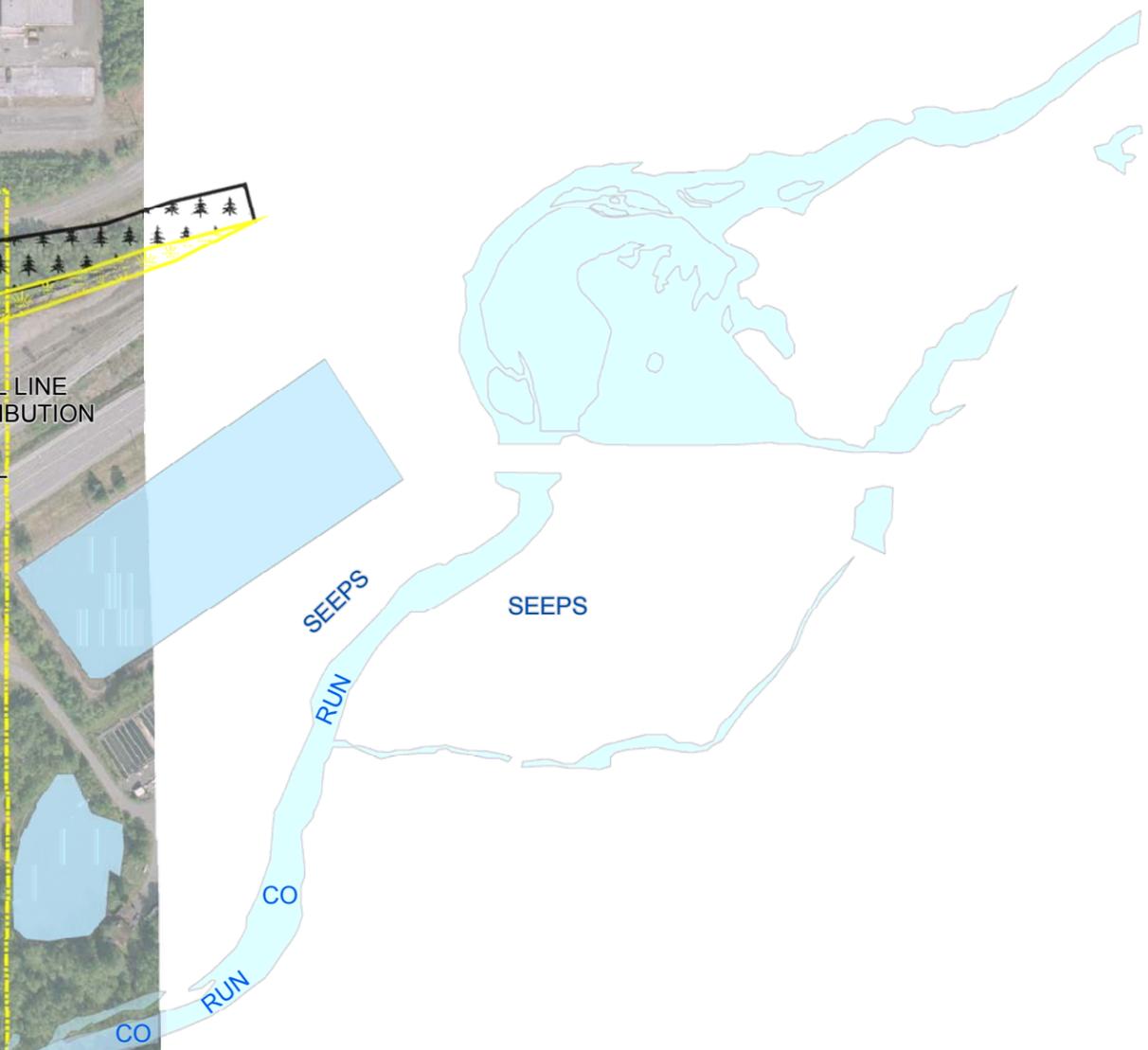
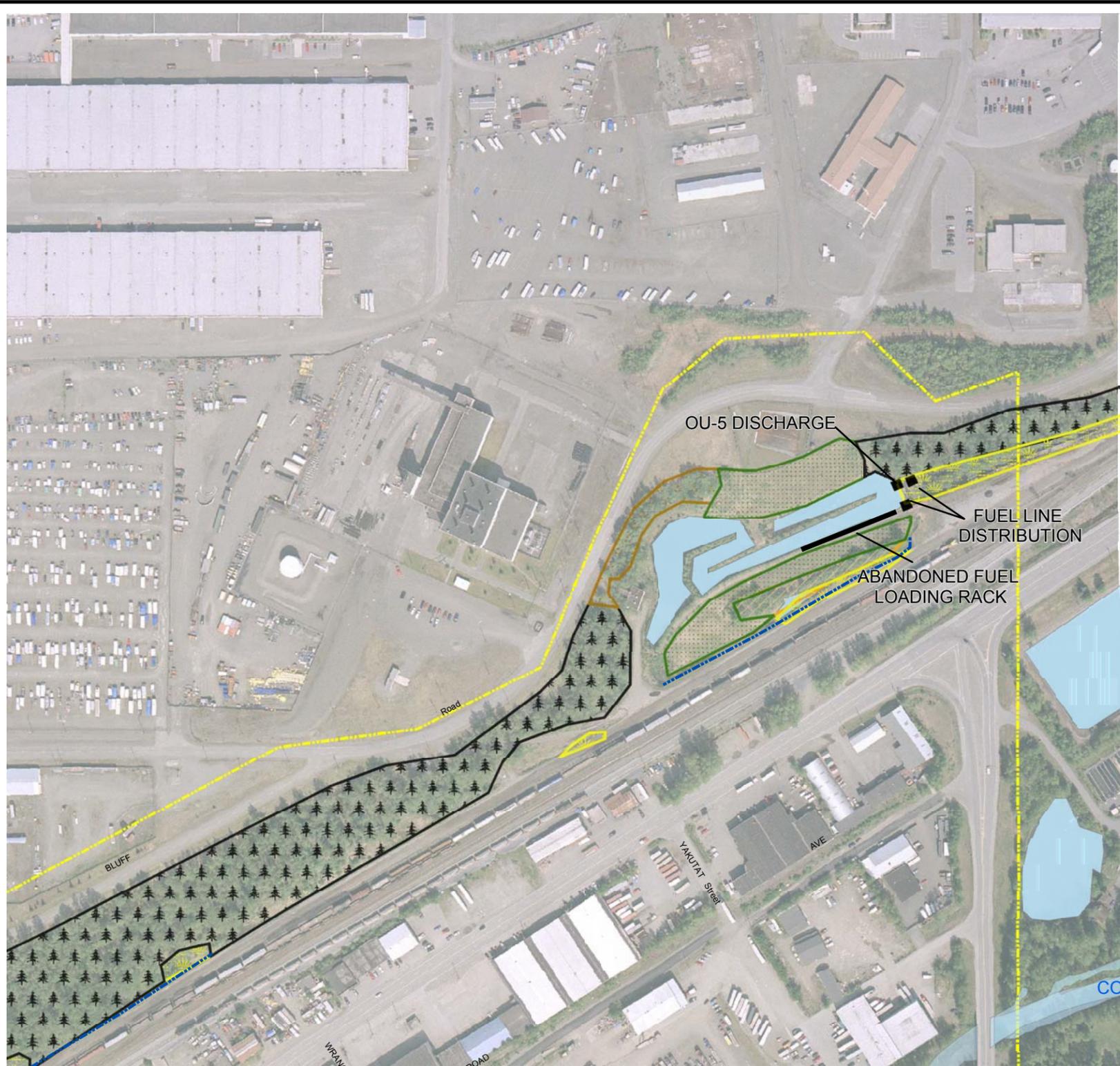


SHIP CREEK HABITAT ASSESSMENT
 ARRC TERMINAL RESERVE
 ARC-18277-302

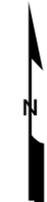
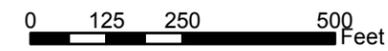
NORTH BLUFF HABITAT MAP

DATE: 11/30/04 | DWN. BY: WGP | FILE:

FIGURE 5B



Legend			
	FUEL LOADING RACK		SPARCE WOODS/SHRUBS
	ROADSIDE DRAINAGE		GRASSY-OPEN
	DRAINAGE DITCH		SEEP AREAS
	ARRC PROPERTY BOUNDARY		MARSH
	OTHER FEATURES OF INTEREST		DEVELOPED WOODS
			SCRUB/SHRUB



- NOTES:
1. Aerial photo base taken May 22, 2003, provided by ARRC.
 2. Property boundary digitized from ARRC CADD basemap August 12, 2004.

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SHIP CREEK HABITAT ASSESSMENT ARRC TERMINAL RESERVE ARC-18277-302		NORTH BLUFF HABITAT MAP	
DATE: 11/24/04	DWN. BY: WGP	FILE:	FIGURE 5C