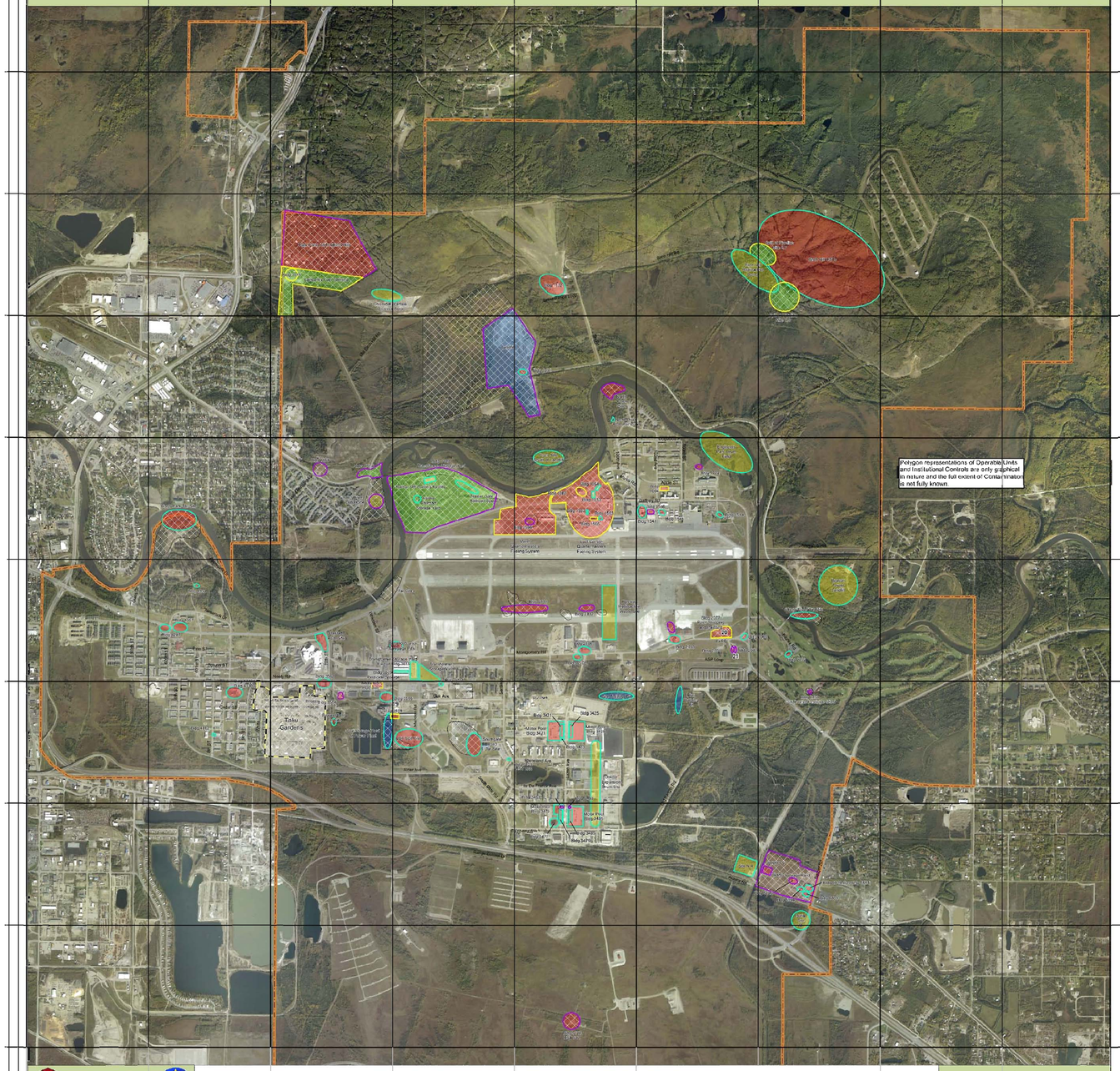
Restoration Sites On Fort Wainwright, AK



USAG-AK GIS
724 Quartermaster Road
Fort Richardson, AK
907-384-0538

Date: September 6, 2006
Checked by: TM
File:GIS_Projects\Fort_Wainwright\restoration\fwb_ou_ic_map_correct.mxd
Image:GIS_Projects\Fort_Wainwright\restoration\maps\fwb_ou_ic_map_v2e8_E205.pdf

For more information about these restoration sites please go to the USAG-AK GIS page at: http://rpu-edims/cmd/usag-ak_gis.php (Note: You must have access to the USAG-AK Intranet to view this site)

Operable Units
- OU1
- OU2
- OU3
- OU4
- OU5

Legend
- Installation Boundary
- Institutional Controls

Operable Unit Status
- All remedial actions in place
- Contamination still being defined
- No further action

N

0 500 1,000 Meters
0 0.25 0.5 Miles

ARMY ENVIRONMENTAL CENTER

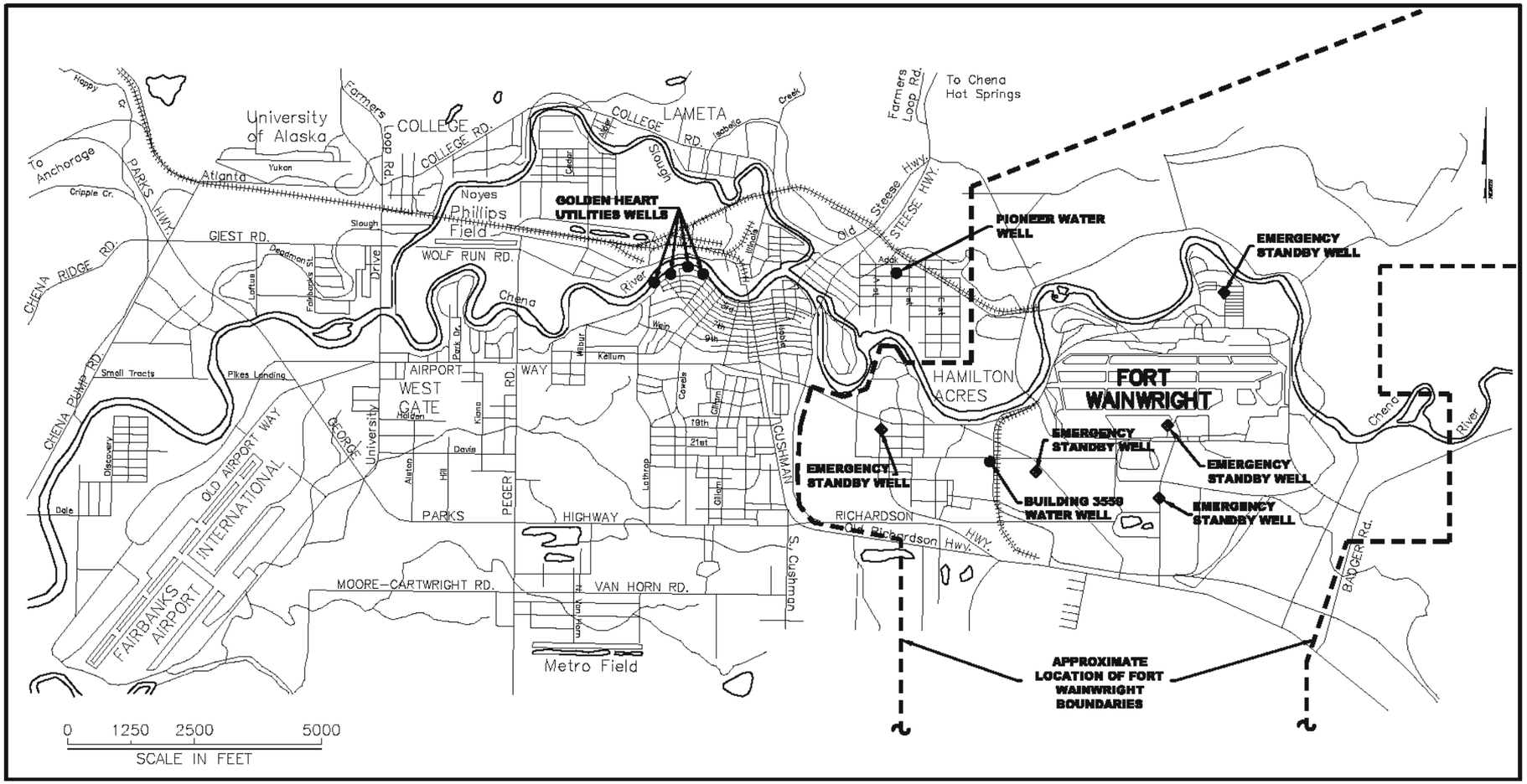
CORPS OF ENGINEERS
ALASKA DISTRICT

Institutional Controls
Restricted Use Boundary

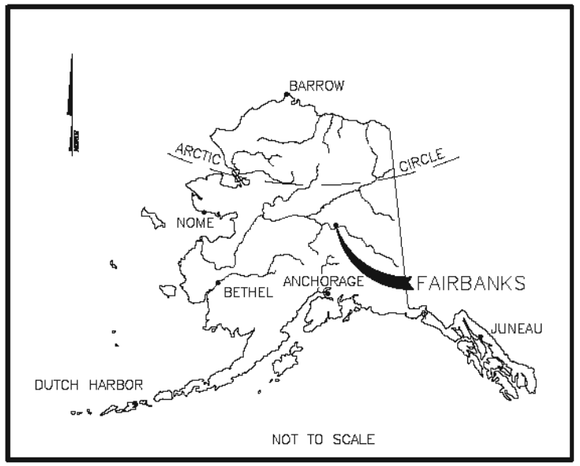
Five Year Review
Fort Wainwright, Alaska

SOURCE:	PLATE:	DATE:
DPW, 2006	1-I	9/06

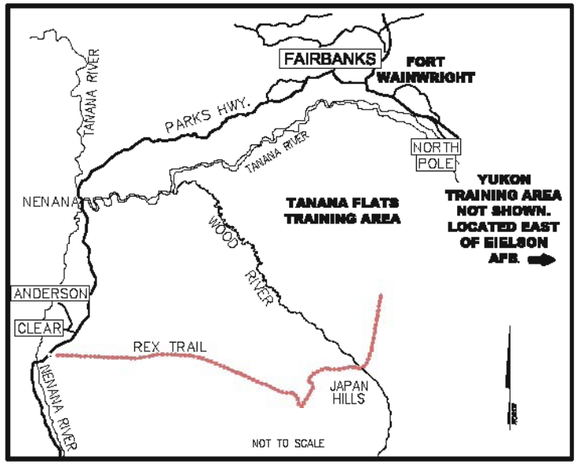
760AF



Fairbanks and Fort Wainwright Site Map



Location Map



Vicinity Map

LEGEND

- ● DRINKING WATER WELL LOCATION
- ◆ EMERGENCY STANDY WELL LOCATION. USED PRIMARILY FOR FIRE SUPPRESSION

ARMY ENVIRONMENTAL CENTER

CORPS OF ENGINEERS ALASKA DISTRICT

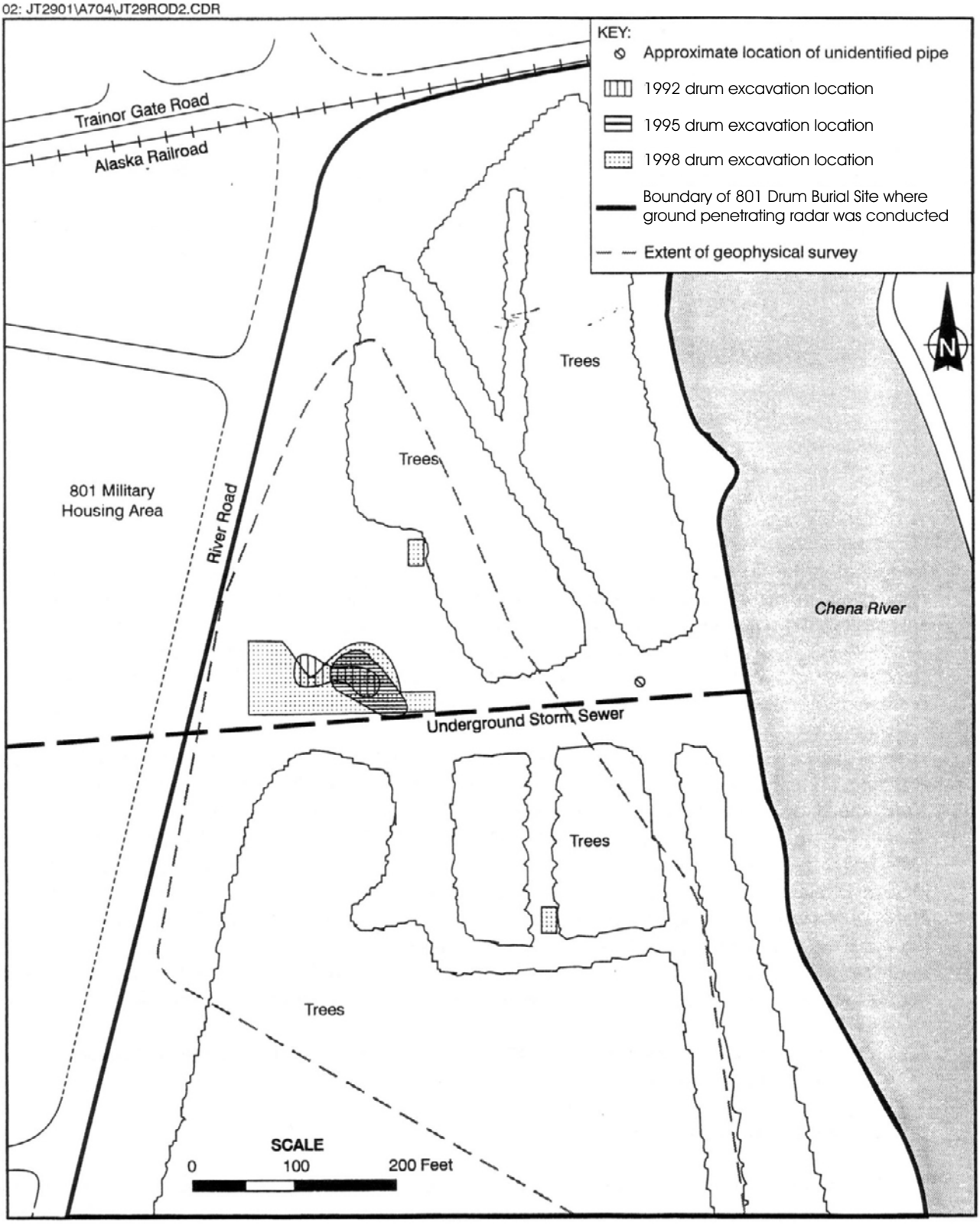
Fort Wainwright and Surrounding Areas

Five Year Review
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, Second 5 Year Review	3-1	9/06

789AF

02: JT2901\A704\JT29ROD2.CDR



ARMY ENVIRONMENTAL CENTER

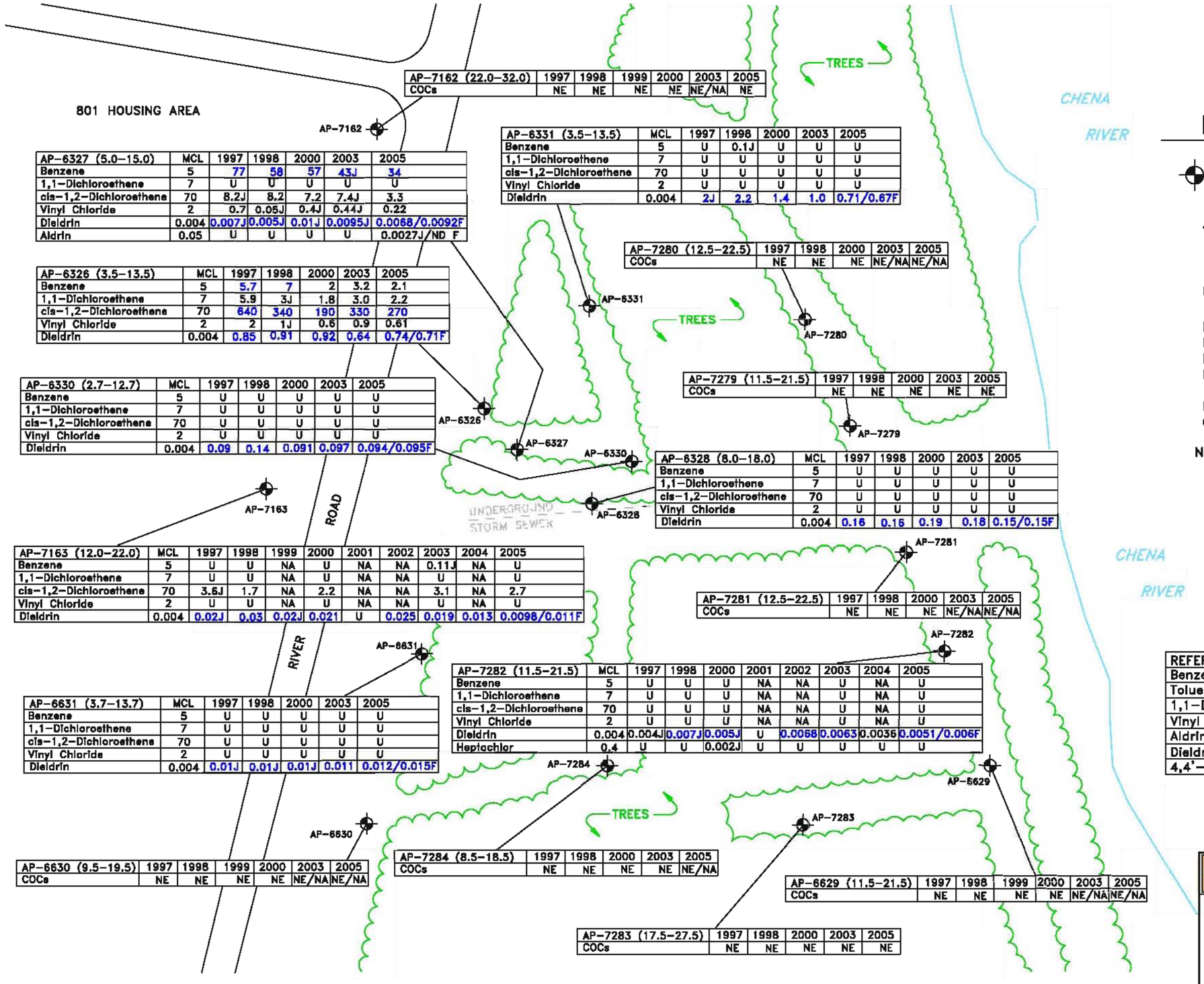
CORPS OF ENGINEERS
ALASKA DISTRICT

801 Drum Burial Site

Five Year Review
Operable Unit 1
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
First 5-Year Review 9/2001	4-1	9/06

200C



AP-7162 (22.0–32.0)	1997	1998	1999	2000	2003	2005
COCs	NE	NE	NE	NE	NE/NA	NE

AP-6327 (5.0–15.0)	MCL	1997	1998	2000	2003	2005
Benzene	5	77	58	57	43J	34
1,1–Dichloroethene	7	U	U	U	U	U
cis–1,2–Dichloroethene	70	8.2J	8.2	7.2	7.4J	3.3
Vinyl Chloride	2	0.7	0.05J	0.4J	0.44J	0.22
Dieldrin	0.004	0.007J	0.005J	0.01J	0.0095J	0.0068/0.0092F
Aldrin	0.05	U	U	U	U	0.0027J/ND F

AP-6331 (3.5–13.5)	MCL	1997	1998	2000	2003	2005
Benzene	5	U	0.1J	U	U	U
1,1–Dichloroethene	7	U	U	U	U	U
cis–1,2–Dichloroethene	70	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U
Dieldrin	0.004	2J	2.2	1.4	1.0	0.71/0.67F

AP-7280 (12.5–22.5)	1997	1998	2000	2003	2005
COCs	NE	NE	NE	NE/NA	NE/NA

AP-6326 (3.5–13.5)	MCL	1997	1998	2000	2003	2005
Benzene	5	5.7	7	2	3.2	2.1
1,1–Dichloroethene	7	5.9	3J	1.8	3.0	2.2
cis–1,2–Dichloroethene	70	640	340	190	330	270
Vinyl Chloride	2	2	1J	0.5	0.9	0.61
Dieldrin	0.004	0.85	0.91	0.92	0.64	0.74/0.71F

AP-7279 (11.5–21.5)	1997	1998	2000	2003	2005
COCs	NE	NE	NE	NE	NE

AP-6330 (2.7–12.7)	MCL	1997	1998	2000	2003	2005
Benzene	5	U	U	U	U	U
1,1–Dichloroethene	7	U	U	U	U	U
cis–1,2–Dichloroethene	70	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U
Dieldrin	0.004	0.09	0.14	0.091	0.097	0.094/0.095F

AP-6328 (8.0–18.0)	MCL	1997	1998	2000	2003	2005
Benzene	5	U	U	U	U	U
1,1–Dichloroethene	7	U	U	U	U	U
cis–1,2–Dichloroethene	70	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U
Dieldrin	0.004	0.16	0.15	0.19	0.18	0.15/0.15F

AP-7163 (12.0–22.0)	MCL	1997	1998	1999	2000	2001	2002	2003	2004	2005
Benzene	5	U	U	NA	U	NA	NA	0.11J	NA	U
1,1–Dichloroethene	7	U	U	NA	U	NA	NA	U	NA	U
cis–1,2–Dichloroethene	70	3.6J	1.7	NA	2.2	NA	NA	3.1	NA	2.7
Vinyl Chloride	2	U	U	NA	U	NA	NA	U	NA	U
Dieldrin	0.004	0.02J	0.03	0.02J	0.021	U	0.025	0.019	0.013	0.0098/0.011F

AP-7281 (12.5–22.5)	1997	1998	2000	2003	2005
COCs	NE	NE	NE	NE/NA	NE/NA

AP-7282 (11.5–21.5)	MCL	1997	1998	2000	2001	2002	2003	2004	2005
Benzene	5	U	U	U	NA	NA	U	NA	U
1,1–Dichloroethene	7	U	U	U	NA	NA	U	NA	U
cis–1,2–Dichloroethene	70	U	U	U	NA	NA	U	NA	U
Vinyl Chloride	2	U	U	U	NA	NA	U	NA	U
Dieldrin	0.004	0.004J	0.007J	0.005J	U	0.0068	0.0063	0.0036	0.0051/0.006F
Heptachlor	0.4	U	U	0.002J	U	U	U	U	U

AP-6631 (3.7–13.7)	MCL	1997	1998	2000	2003	2005
Benzene	5	U	U	U	U	U
1,1–Dichloroethene	7	U	U	U	U	U
cis–1,2–Dichloroethene	70	U	U	U	U	U
Vinyl Chloride	2	U	U	U	U	U
Dieldrin	0.004	0.01J	0.01J	0.01J	0.011	0.012/0.015F

AP-7284 (8.5–18.5)	1997	1998	2000	2003	2005
COCs	NE	NE	NE	NE	NE/NA

AP-6630 (9.5–19.5)	1997	1998	1999	2000	2003	2005
COCs	NE	NE	NE	NE	NE/NA	NE/NA

AP-6629 (11.5–21.5)	1997	1998	1999	2000	2003	2005
COCs	NE	NE	NE	NE	NE/NA	NE/NA

AP-7283 (17.5–27.5)	1997	1998	2000	2003	2005
COCs	NE	NE	NE	NE	NE

LEGEND

MONITORING WELL

J = COMPOUND DETECTED BETWEEN THE METHOD DETECTION LIMIT AND METHOD REPORTING LIMIT, AND IS CONSIDERED AN ESTIMATE VALUE.

U = COMPOUND NOT DETECTED ABOVE THE METHOD REPORTING LIMIT

F = FILTERED SAMPLE RESULT

NE = NO EXCEEDANCES

NA = NOT ANALYZED

NE/NA = NO EXCEEDANCES IN COCs ANALYZED, NOT ALL COCs ANALYZED

MCL = MAXIMUM CONTAMINANT LEVEL

COCs = CHEMICAL(S) OF CONCERN

NOTES: MCL EXCEEDANCES ARE SHOWN IN BLUE

ANALYTICAL RESULTS REPORTED AS $\mu g/L$.

AT LOCATIONS WHERE DUPLICATE SAMPLES WERE TAKEN, THE HIGHEST RESULT IS SHOWN.

ONLY CONCENTRATIONS FOR REMEDIAL ACTION OBJECTIVE COCs ARE SHOWN. ALDRIN HAS NOT BEEN DETECTED DURING GROUNDWATER MONITORING.

SCREENED INTERVAL OF WELL IS SHOWN NEXT TO WELL NUMBER IN DATA BOX IN FEET BELOW GROUND SURFACE.

REFERENCE SAMPLE	CERTIFIED VALUE	DETECTED RESULT
Benzene	13.4	14
Toluene	NA	0.22
1,1–Dichloroethene	19.5	18
Vinyl Chloride	5.20	5.4
Aldrin	0.123	0.12/0.086 F
Dieldrin	0.133	0.13/0.11 F
4,4'–DDT	NA	U/0.0032J F

0 40 80 160
SCALE IN FEET

ARMY ENVIRONMENTAL CENTER

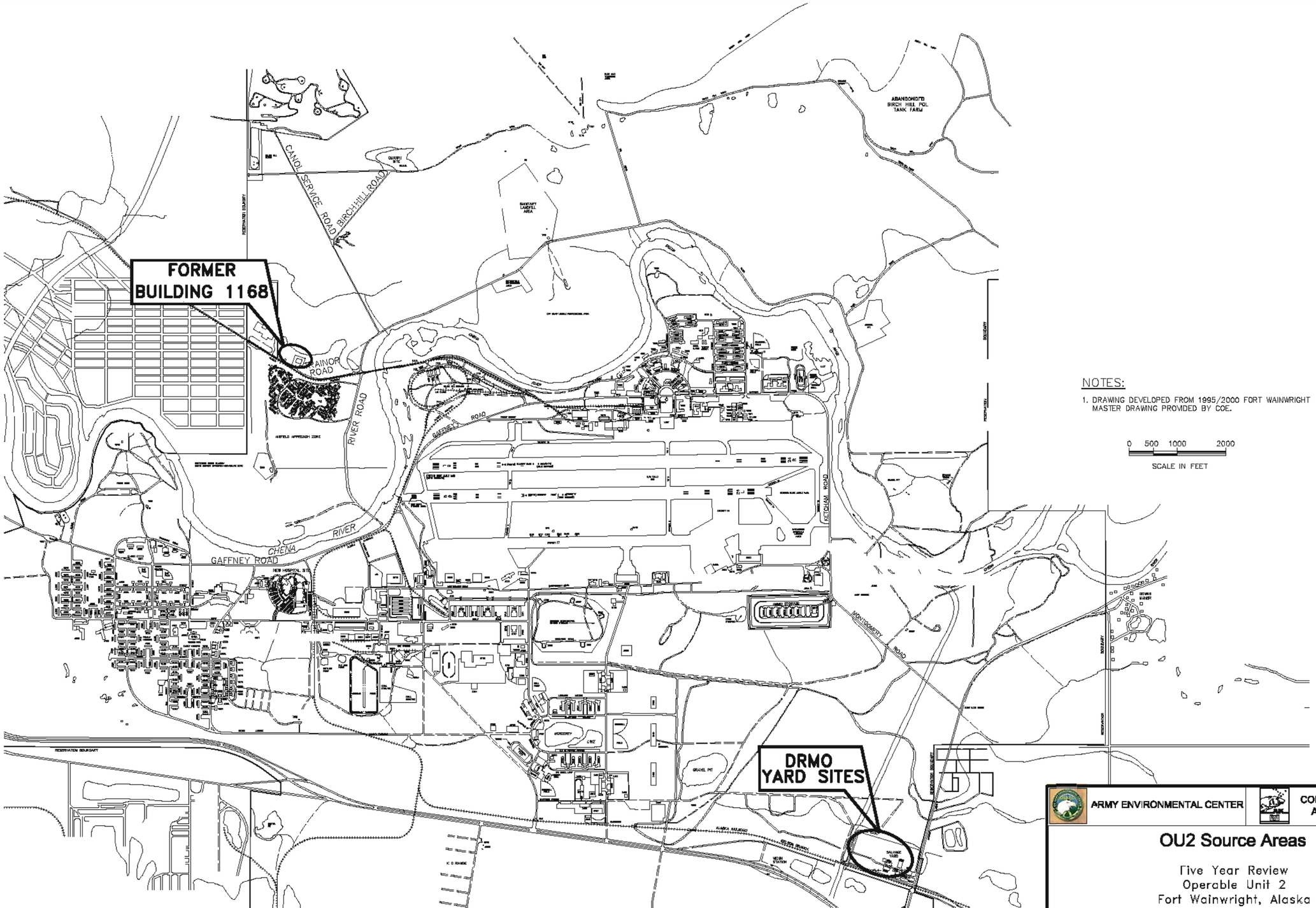
CORPS OF ENGINEERS
ALASKA DISTRICT

801 Drum Burial Site Groundwater Contamination Map

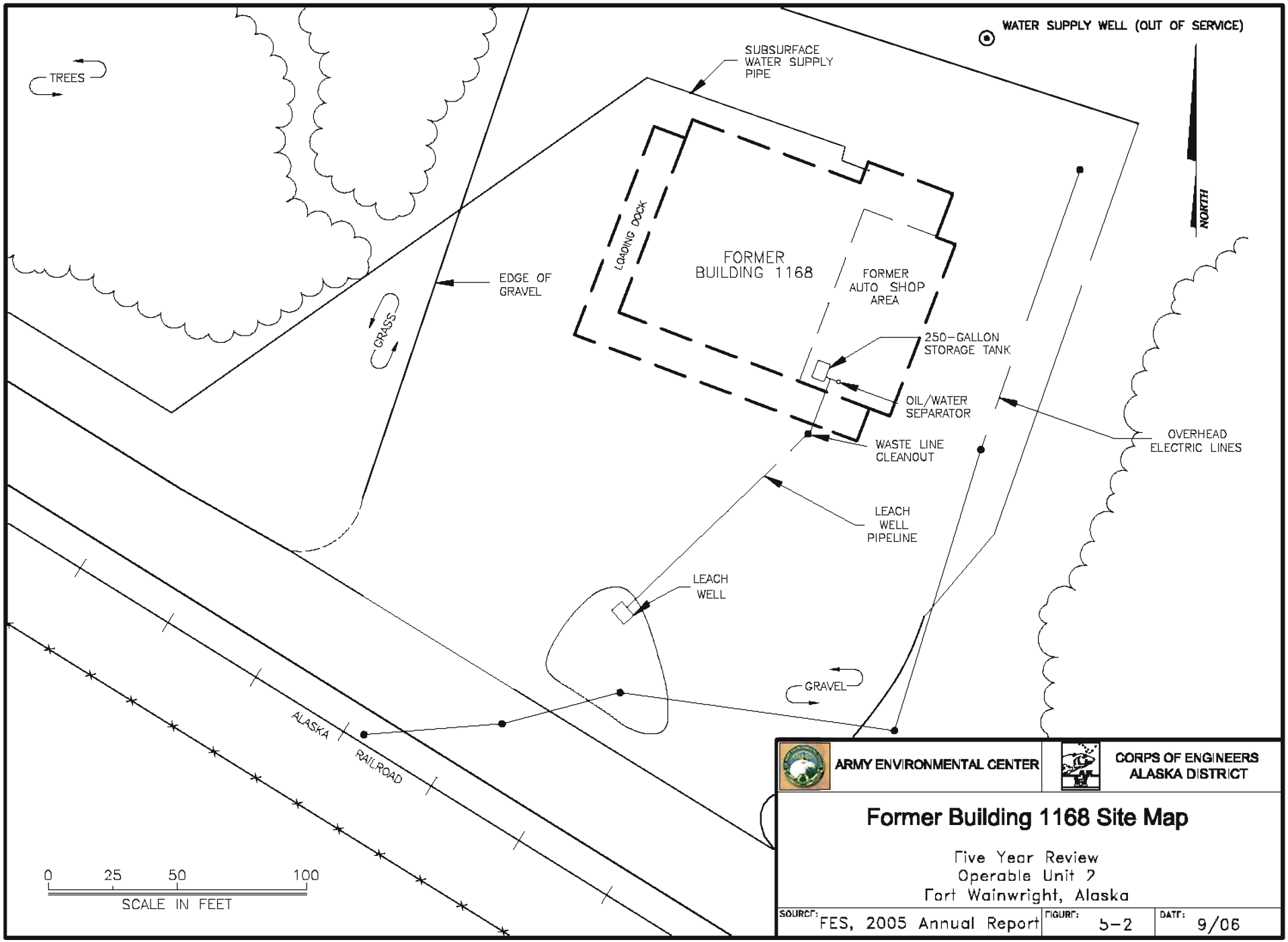
Five Year Review
Operable Unit 1
Fort Wainwright, Alaska

SOURCE: ENSR, 2005 Annual Report | PLATE: 4–1 | DATE: 9/06

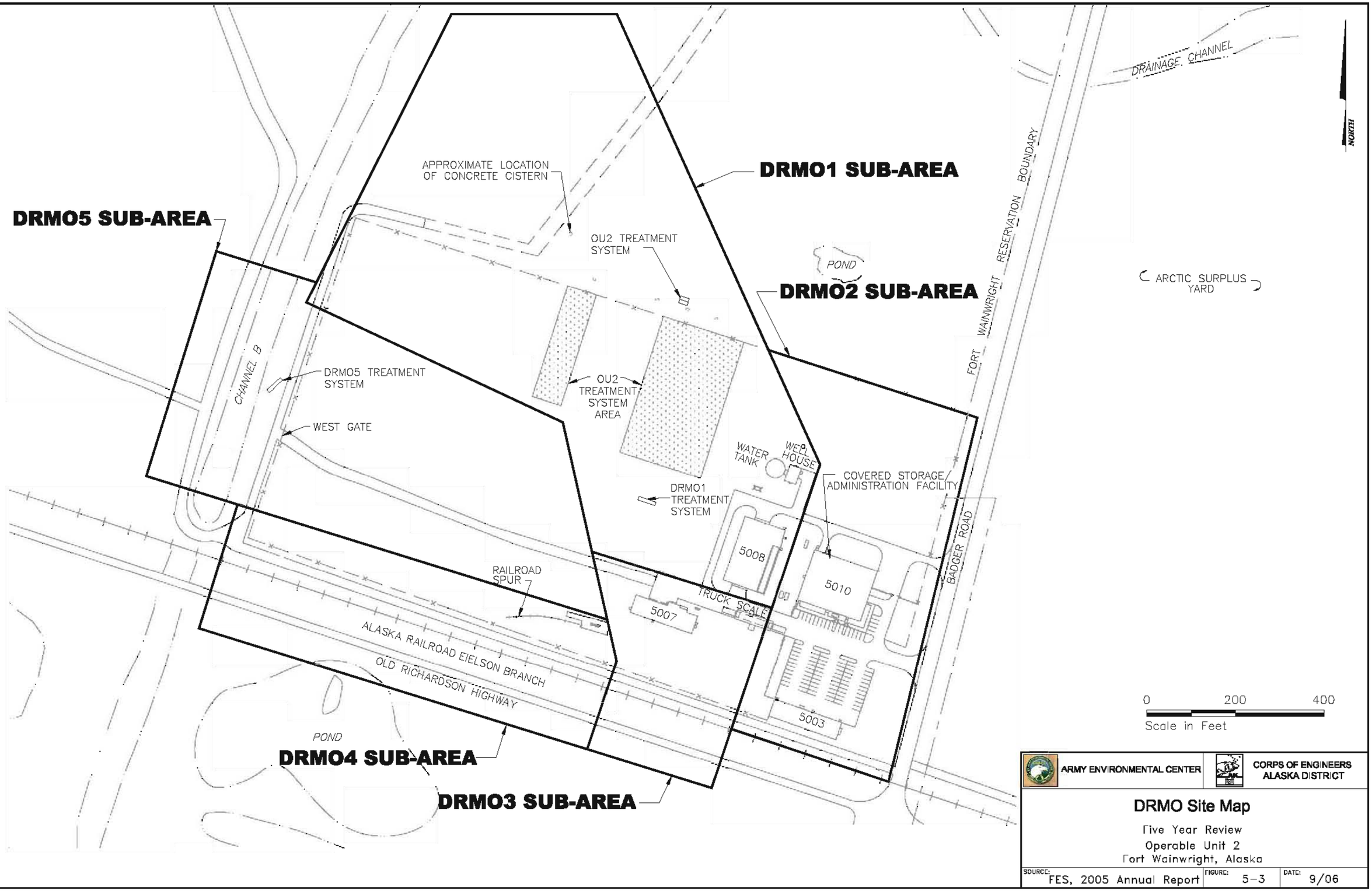
748AF


FORMER
BUILDING 1168
DRMO
YARD SITES
CANOL SERVICE ROAD
BIRCH HILL ROAD
ABANDONED
BIRCH HILL POL
TANK FARM
SANITARY
LANDFILL
AREA
QUARRY
WAINOR
ROAD
RIVER ROAD
BARNES
ROAD
HEYDAN ROAD
CHENA
RIVER
GAFFNEY ROAD
NEW HOSPITAL SITE
MONTGOMERY ROAD
GRAVEL PIT
RESERVATION BOUNDARY
ALASKA RAILROAD
GOLDEN BRANCH
NEWS
STATION
K O RANGE
NOTES:
1. DRAWING DEVELOPED FROM 1995/2000 FORT WAINWRIGHT
MASTER DRAWING PROVIDED BY COE.
0 500 1000 2000
SCALE IN FEET
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS
ALASKA DISTRICT
OU2 Source Areas
Five Year Review
Operable Unit 2
Fort Wainwright, Alaska
SOURCE: FES, 2005 Annual Report
FIGURE: 5-1
DATE: 9/06

741AF


WATER SUPPLY WELL (OUT OF SERVICE)
SUBSURFACE WATER SUPPLY PIPE
TREES
NORTH
LOADING DOCK
FORMER BUILDING 1168
FORMER AUTO SHOP AREA
EDGE OF GRAVEL
GRASS
250-GALLON STORAGE TANK
OIL/WATER SEPARATOR
WASTE LINE CLEANOUT
OVERHEAD ELECTRIC LINES
LEACH WELL PIPELINE
LEACH WELL
GRAVEL
ALASKA RAILROAD
0 25 50 100
SCALE IN FEET
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT
Former Building 1168 Site Map
Five Year Review
Operable Unit 2
Fort Wainwright, Alaska
SOURCE: FES, 2005 Annual Report
FIGURE: 5-2
DATE: 9/06

729AF



ARMY ENVIRONMENTAL CENTER

CORPS OF ENGINEERS ALASKA DISTRICT

DRMO Site Map

Five Year Review
Operable Unit 2
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2005 Annual Report	5-3	9/06

730AF

DRMO1 SUB-AREA

DRMO5 SUB-AREA

DRMO2 SUB-AREA

DRMO3 SUB-AREA

DRMO4 SUB-AREA

AP-7327
AP-7326
AP-7328

AP-6807

AP-6804

APPROXIMATE LOCATION OF CONCRETE CISTERN

AP-7329

OU2 TREATMENT SYSTEM

POND

CHANNEL B

AP-7560

AP-7559

OU2 TREATMENT SYSTEM AREA

AP-6806

PI3

DRMO5 TREATMENT SYSTEM

WEST GATE

AP-8914

WATER TANK

WATER SUPPLY WELL

AP-7346

MP4

AP-5826

PROBE D

DRMO1 TREATMENT SYSTEM

5008

AP-7348

COVERED STORAGE/ ADMINISTRATION FACILITY 5010

FORT WAINWRIGHT RESERVATION BOUNDARY

BADGER ROAD

NORTH

RAILROAD SPUR

AP-8915

PO5

AP-8916

ALASKA RAILROAD EIELSON BRANCH

OLD RICHARDSON HIGHWAY

RAMP

5007

TRUCK SCALE

0 150 300

Scale in Feet

LEGEND

AP-5825	EXISTING MONITORING WELL LOCATION AND NUMBER
PI3	PASSIVE AIR INJECTION WELL LOCATION AND NUMBER
MP4	MONITORING PROBE LOCATION AND NUMBER
PO5	GROUNDWATER PROBE LOCATION AND NUMBER

ARMY ENVIRONMENTAL CENTER

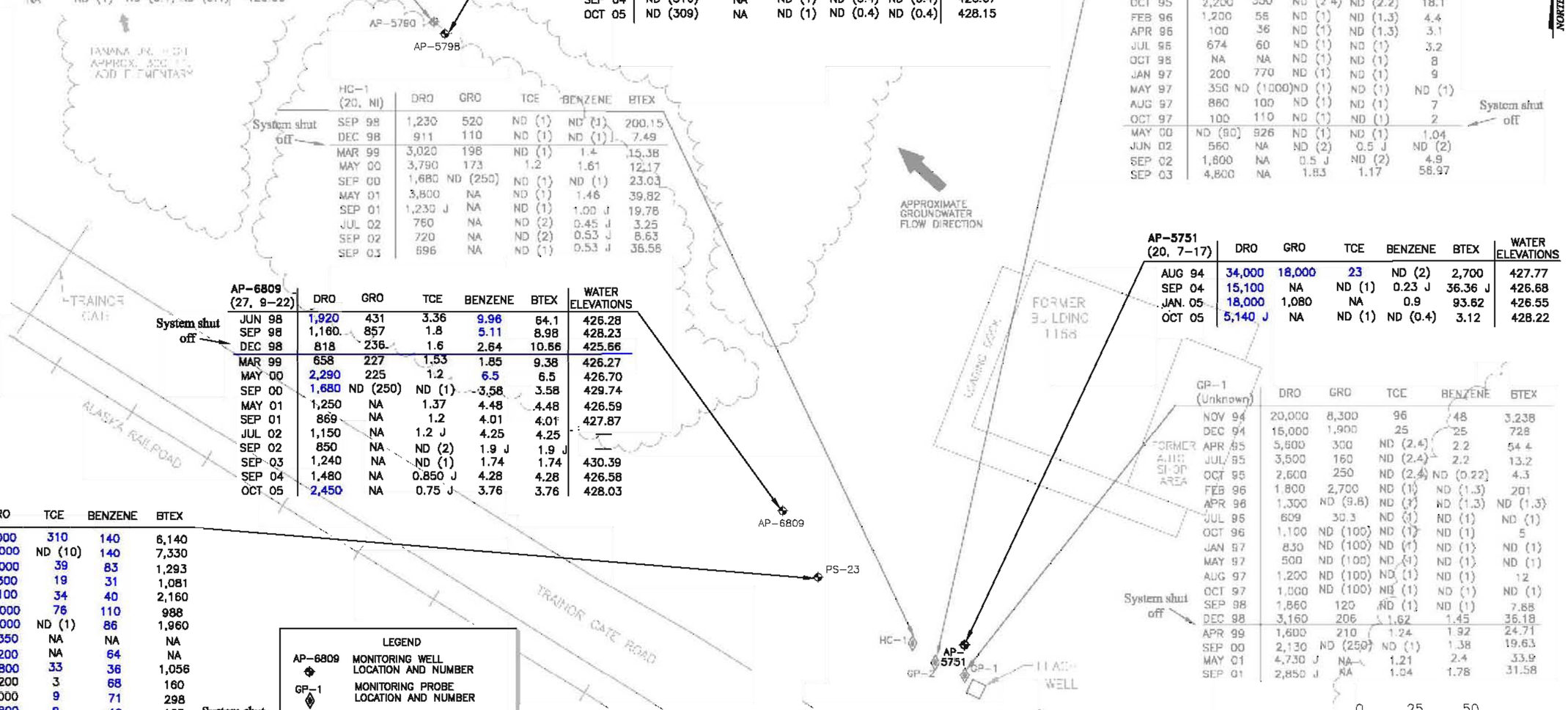
CORPS OF ENGINEERS ALASKA DISTRICT

DRMO IC Boundaries

Five Year Review
Operable Unit 2
Fort Wainwright, Alaska

SOURCE: FFS, 2005 Annual Report | FIGURE: 5-4 | DATE: 9/06

742AF



AP-5790 (20, 10-20)	DRO	GRO	TCE	BENZENE	BTEX	WATER ELEVATIONS
AUG 94	ND (78)	ND (6)	ND (2.4)	ND (2.2)	ND (2.2)	427.74
OCT 96	ND (240)	ND (100)	ND (1)	ND (1)	ND (1)	—
JUN 97	ND (100)	ND (50)	ND (1)	ND (1)	ND (1)	—
SEP 98	148	ND (40)	ND (1)	ND (1)	ND (1)	428.24
MAY 00	ND (349)	ND (90)	ND (1)	ND (1)	ND (1)	428.61
MAY 01	ND (575)	NA	ND (1)	ND (1)	ND (1)	426.32
JUL 02	ND (170)	NA	ND (2)	ND (2)	ND (2)	—
SEP 02	ND (170)	NA	ND (2)	ND (2)	ND (2)	—
SEP 03	225 J	NA	ND (1)	ND (0.4)	ND (0.4)	430.49
SEP 04	65.1 J	NA	ND (1)	ND (0.4)	ND (0.4)	426.68

AP-5789 (62, 48-58)	DRO	GRO	TCE	BENZENE	BTEX	WATER ELEVATIONS
AUG 94	ND (77)	ND (6)	ND (2.4)	ND (2.2)	ND (2.2)	427.73
OCT 96	ND (240)	ND (100)	ND (1)	ND (1)	ND (1)	—
JUN 97	ND (100)	ND (50)	ND (1)	ND (1)	ND (1)	—
SEP 98	ND (100)	ND (40)	ND (1)	ND (1)	ND (1)	428.21
MAY 00	ND (316)	ND (90)	ND (1)	ND (1)	ND (1)	428.63
MAY 01	ND (575)	NA	ND (1)	ND (1)	ND (1)	426.67
JUL 02	2,100	NA	ND (2)	ND (2)	ND (2)	—
SEP 02	96 J	NA	ND (2)	ND (2)	ND (2)	—
SEP 03	106 J	NA	ND (1)	ND (0.4)	ND (0.4)	430.44
SEP 04	ND (316)	NA	ND (1)	ND (0.4)	ND (0.4)	426.67
OCT 05	ND (309)	NA	ND (1)	ND (0.4)	ND (0.4)	428.15

HC-1 (20, NI)	DRO	GRO	TCE	BENZENE	BTEX
SEP 98	1,230	520	ND (1)	ND (1)	200.15
DEC 98	911	110	ND (1)	ND (1)	7.49
MAR 99	3,020	198	ND (1)	1.4	15.38
MAY 00	3,790	173	1.2	1.61	12.17
SEP 00	1,680	ND (250)	ND (1)	ND (1)	23.03
MAY 01	3,800	NA	ND (1)	1.46	39.82
SEP 01	1,230 J	NA	ND (1)	1.00 J	19.78
JUL 02	760	NA	ND (2)	0.45 J	3.25
SEP 02	720	NA	ND (2)	0.53 J	8.63
SEP 03	696	NA	ND (1)	0.53 J	36.58

GP-2 (24, unknown)	DRO	GRO	TCE	BENZENE	BTEX
NOV 94	15,000	8,400	120	57	5,317
DEC 94	14,000	3,900	18	12	1,132
APR 95	3,800	660	ND (2.4)	ND (2.2)	63.1
JUL 95	2,700	560	ND (2.4)	ND (2.2)	23.3
OCT 95	2,200	350	ND (2.4)	ND (2.2)	18.1
FEB 96	1,200	55	ND (1)	ND (1.3)	4.4
APR 96	100	36	ND (1)	ND (1.3)	3.1
JUL 96	674	60	ND (1)	ND (1)	3.2
OCT 96	NA	NA	ND (1)	ND (1)	8
JAN 97	200	770	ND (1)	ND (1)	9
MAY 97	350	ND (1000)	ND (1)	ND (1)	ND (1)
AUG 97	880	100	ND (1)	ND (1)	7
OCT 97	100	110	ND (1)	ND (1)	2
MAY 00	ND (90)	926	ND (1)	ND (1)	1.04
JUN 02	560	NA	ND (2)	0.5 J	ND (2)
SEP 02	1,600	NA	0.5 J	ND (2)	4.9
SEP 03	4,800	NA	1.83	1.17	58.97

AP-6809 (27, 9-22)	DRO	GRO	TCE	BENZENE	BTEX	WATER ELEVATIONS
JUN 98	1,920	431	3.36	9.96	64.1	426.28
SEP 98	1,160	857	1.8	5.11	8.98	428.23
DEC 98	818	236	1.6	2.64	10.66	425.66
MAR 99	658	227	1.53	1.85	9.38	426.27
MAY 00	2,290	225	1.2	6.5	6.5	426.70
SEP 00	1,680	ND (250)	ND (1)	3.58	3.58	429.74
MAY 01	1,250	NA	1.37	4.48	4.48	426.59
SEP 01	869	NA	1.2	4.01	4.01	427.87
JUL 02	1,150	NA	1.2 J	4.25	4.25	—
SEP 02	850	NA	ND (2)	1.9 J	1.9 J	—
SEP 03	1,240	NA	ND (1)	1.74	1.74	430.39
SEP 04	1,480	NA	0.850 J	4.28	4.28	426.58
OCT 05	2,450	NA	0.75 J	3.76	3.76	428.03

AP-5751 (20, 7-17)	DRO	GRO	TCE	BENZENE	BTEX	WATER ELEVATIONS
AUG 94	34,000	18,000	23	ND (2)	2,700	427.77
SEP 04	15,100	NA	ND (1)	0.23 J	36.36 J	426.68
JAN. 05	18,000	1,080	NA	0.9	93.62	426.55
OCT 05	5,140 J	NA	ND (1)	ND (0.4)	3.12	428.22

GP-1 (Unknown)	DRO	GRO	TCE	BENZENE	BTEX
NOV 94	20,000	8,300	96	48	3,238
DEC 94	16,000	1,900	25	25	728
APR 95	5,600	300	ND (2.4)	2.2	54.4
JUL 95	3,500	160	ND (2.4)	2.2	13.2
OCT 95	2,600	250	ND (2.4)	ND (0.22)	4.3
FEB 96	1,800	2,700	ND (1)	ND (1.3)	201
APR 96	1,300	ND (9.8)	ND (1)	ND (1.3)	ND (1.3)
JUL 96	609	30.3	ND (1)	ND (1)	ND (1)
OCT 96	1,100	ND (100)	ND (1)	ND (1)	5
JAN 97	830	ND (100)	ND (1)	ND (1)	ND (1)
MAY 97	500	ND (100)	ND (1)	ND (1)	ND (1)
AUG 97	1,200	ND (100)	ND (1)	ND (1)	12
OCT 97	1,000	ND (100)	ND (1)	ND (1)	ND (1)
SEP 98	1,860	120	ND (1)	ND (1)	7.88
DEC 98	3,160	206	1.62	1.45	36.18
APR 99	1,600	210	1.24	1.92	24.71
SEP 00	2,130	ND (250)	ND (1)	1.38	19.63
MAY 01	4,730 J	NA	1.21	2.4	33.9
SEP 01	2,850 J	NA	1.04	1.78	31.58

System shut off

PS-23 (25, unknown)	DRO	GRO	TCE	BENZENE	BTEX
NOV 94	11,000	7,000	310	140	6,140
DEC 94	15,000	12,000	ND (10)	140	7,330
APR 95	18,000	16,000	39	83	1,293
JUL 95	4,400	7,300	19	31	1,081
OCT 95	4,300	7,100	34	40	2,160
FEB 96	8,100	15,000	76	110	988
APR 96	15,000	13,000	ND (1)	86	1,960
JUL 96	5,660	9,350	NA	NA	NA
OCT 96	3,600	3,200	NA	64	NA
JAN 97	4,500	4,800	33	36	1,056
MAY 97	2,200	1,200	3	68	160
AUG 97	3,200	1,000	9	71	298
OCT 97	2,000	1,800	8	46	195
SEP 98	317	ND (40)	ND (1)	ND (1)	ND (1)
DEC 98	335	ND (40)	ND (1)	ND (1)	ND (1)
MAR 99	409	ND (90)	ND (1)	ND (1)	5.02
MAY 00	882	ND (90)	ND (1)	1.31	1.31
SEP 00	476	ND (250)	ND (1)	1.88	1.88
MAY 01	670	NA	ND (1)	4.44	4.44
SEP 01	1,020	NA	ND (1)	8.53	8.53
JUN 02	460	NA	ND (1)	6.8	6.8
SEP 02	480	NA	ND (1)	4.0	4.0
SEP 03	919	NA	ND (1)	1.08	1.08
SEP 04	1,590	NA	0.81 J	23.7	25.03
JAN 05	2,390	184	NA	13.8	13.8
OCT 05	2,340	NA	ND (1)	7.67	8.54

System shut off

LEGEND

AP-6809	MONITORING WELL LOCATION AND NUMBER
GP-1	MONITORING PROBE LOCATION AND NUMBER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES
DRO	DIESEL RANGE ORGANICS
GRO	GASOLINE RANGE ORGANICS
TCE	TRICHLOROETHENE
bgs	BELOW GROUND SURFACE
J	ESTIMATED VALUE
NA	ANALYSIS NOT PERFORMED
ND	NOT DETECTED (PRACTICAL QUANTITATION LEVEL)
—	DATA NOT FOUND

KEY:

SAMPLING POINT → AP-5751

TOTAL DEPTH, SCREENED INTERVAL (bgs) → (20, 7-17)

ANALYTES OF CONCERN

SAMPLE MONTH	DRO	GRO	TCE	BENZENE	BTEX	WATER ELEVATIONS
AUG 94	34,000	18,000	23	ND (2)	2,700	427.77
SEP 04	15,100	NA	ND (1)	0.23 J	36.36 J	426.68
JAN 05	19,300	1,080	NA	0.9	93.62	426.55
OCT 05	5,140	NA	ND (1)	ND (0.4)	3.12 J	428.22

CONCENTRATIONS EXCEEDING REMEDIAL ACTION GOALS SHOWN IN BOLD

CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)

ELEVATIONS IN FEET MEAN SEA LEVEL

SEE LEGEND FOR ABBREVIATIONS.

CLEANUP LEVELS	
5.0	BENZENE
1,500	DRO
1,300	GRO
5.0	TCE
11,750	BTEX

ARMY ENVIRONMENTAL CENTER

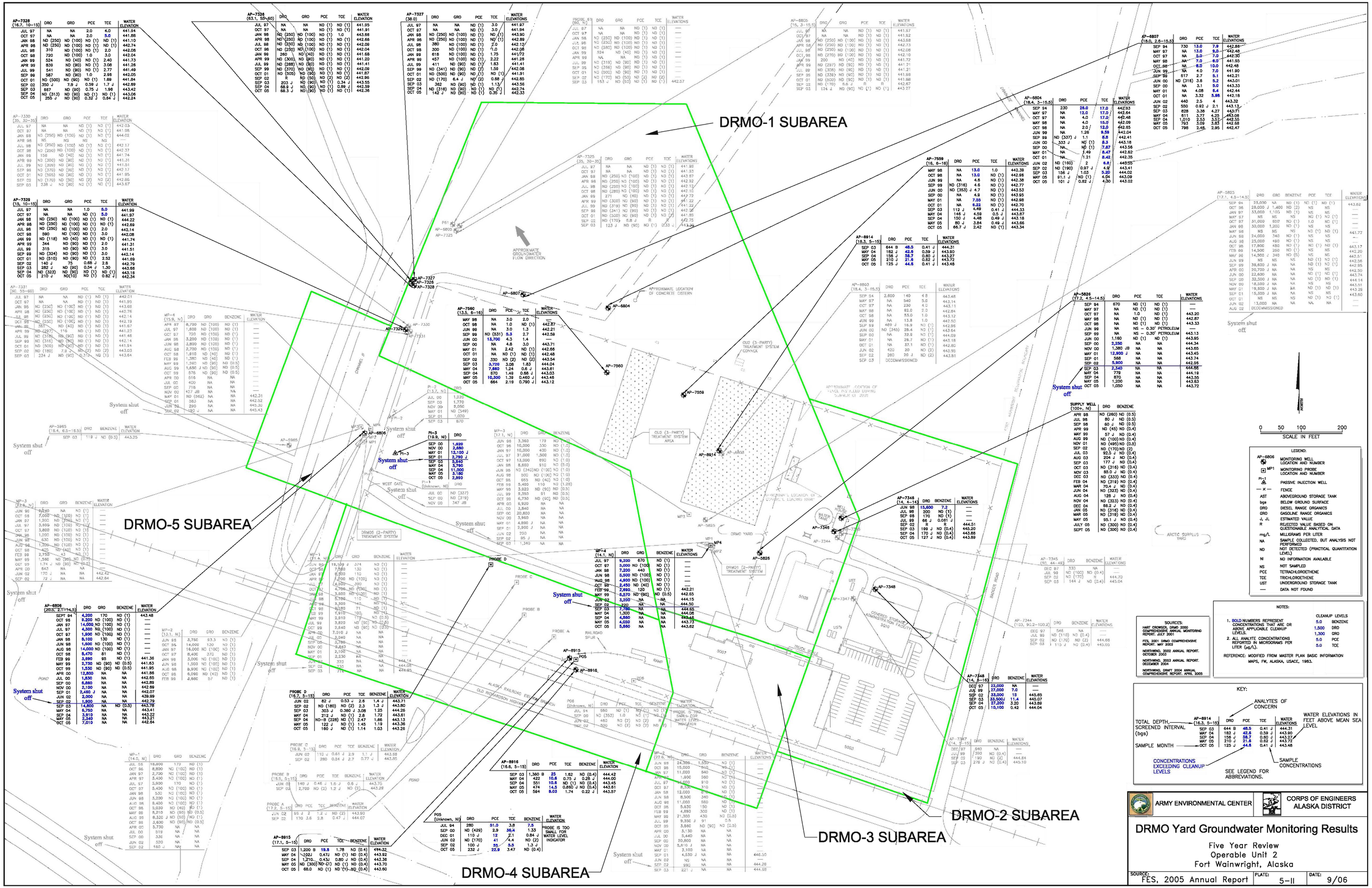
CORPS OF ENGINEERS ALASKA DISTRICT

Former Building 1168 Groundwater Monitoring Results

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE: FES, 2005 Annual Report | PLATE: 5-1 | DATE: 9/06

748AF



AP-7328 (16.7, 10-15)	DRO	GRO	PCE	TCE	WATER ELEVATION
JUL 97	NA	NA	2.0	4.0	441.84
OCT 97	NA	NA	2.0	5.0	441.88
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	441.10
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.74
JUL 98	310	ND (100)	ND (1)	2.0	442.06
OCT 98	720	ND (100)	1.0	3.0	442.04
JAN 99	524	ND (40)	ND (1)	2.40	441.73
APR 99	839	ND (90)	ND (1)	3.06	441.26
JUL 99	541	ND (90)	ND (1)	2.77	441.49
SEP 99	587	ND (90)	1.0	2.98	442.05
OCT 01	ND (500)	ND (90)	ND (1)	1.89	441.84
SEP 02	350 J	7.9 J	0.59 J	1.7 J	442.69
SEP 03	867	ND (90)	0.75 J	1.98	443.42
SEP 04	ND (313)	ND (90)	ND (1)	ND (1)	443.06
OCT 05	255 J	ND (90)	0.32 J	0.84 J	442.24

AP-7326 (63.1, 55-60)	DRO	GRO	PCE	TCE	WATER ELEVATION
JUL 97	NA	NA	ND (1)	ND (1)	441.95
OCT 97	NA	NA	ND (1)	3.0	441.94
JAN 98	ND (250)	ND (100)	ND (1)	1.0	443.66
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.66
JUL 98	ND (250)	ND (100)	ND (1)	2.0	442.09
OCT 98	ND (250)	ND (100)	ND (1)	1.0	442.04
JAN 99	260	ND (40)	ND (1)	ND (1)	441.68
APR 99	ND (300)	ND (90)	ND (1)	1.0	441.20
JUL 99	ND (288)	ND (90)	ND (1)	ND (1)	441.41
SEP 99	ND (370)	ND (90)	ND (1)	ND (1)	442.09
OCT 01	ND (505)	ND (90)	ND (1)	ND (1)	441.87
SEP 02	R	ND (50)	ND (2)	ND (2)	442.96
SEP 03	203 J	ND (90)	ND (1)	0.34 J	443.55
SEP 04	68.9 J	ND (90)	ND (1)	0.89 J	442.59
OCT 05	68.3 J	ND (90)	ND (1)	0.36 J	442.36

AP-7327 (38.0)	DRO	GRO	PCE	TCE	WATER ELEVATIONS
JUL 97	NA	NA	ND (1)	3.0	441.97
OCT 97	NA	NA	ND (1)	3.0	441.94
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	443.90
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.89
JUL 98	380	ND (100)	ND (1)	2.0	442.12
OCT 98	300	ND (100)	ND (1)	1.0	442.06
JAN 99	618	ND (100)	ND (1)	1.75	441.72
APR 99	457	ND (100)	ND (1)	2.22	441.26
JUL 99	411	ND (90)	ND (1)	1.83	441.41
SEP 99	ND (341)	ND (90)	ND (2)	1.59	442.08
OCT 01	ND (500)	ND (90)	ND (1)	ND (1)	441.91
SEP 02	ND (170)	6.4 J	ND (2)	0.58 J	442.85
SEP 03	362	ND (90)	ND (1)	1.11 J	443.56
SEP 04	ND (316)	ND (90)	ND (1)	ND (1)	442.74
OCT 05	142 J	ND (90)	ND (1)	0.36 J	442.33

PROBE 6? (60, 5-)	DRO	GRO	PCE	TCE	WATER ELEVATIONS
JUL 97	NA	NA	ND (1)	ND (1)	—
OCT 97	NA	NA	ND (1)	ND (1)	—
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	—
JUL 98	ND (250)	ND (100)	ND (1)	ND (1)	—
OCT 98	ND (280)	ND (100)	ND (1)	ND (1)	—
JAN 99	524	ND (40)	ND (1)	ND (1)	—
APR 99	NA	NA	ND (1)	ND (1)	—
JUL 99	ND (319)	ND (90)	ND (1)	ND (1)	—
SEP 99	ND (356)	ND (90)	ND (1)	ND (1)	—
OCT 01	ND (500)	ND (90)	ND (1)	ND (1)	—
SEP 02	ND (170)	ND (50)	ND (2)	ND (2)	—
SEP 03	153 J	ND (50)	ND (1)	ND (1)	442.57

AP-6805 (15, 3-15.5)	DRO	GRO	PCE	TCE	WATER ELEVATIONS
JUL 97	NA	NA	ND (1)	3.0	441.97
OCT 97	NA	NA	ND (1)	3.0	441.94
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	443.68
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.73
JUL 98	ND (250)	ND (100)	ND (1)	ND (1)	442.08
OCT 98	ND (270)	ND (100)	ND (1)	ND (1)	442.10
JAN 99	200	ND (40)	ND (1)	ND (1)	441.72
APR 99	ND (297)	ND (90)	ND (1)	ND (1)	441.21
JUL 99	ND (338)	ND (90)	ND (1)	ND (1)	441.21
SEP 99	ND (338)	ND (90)	ND (1)	ND (1)	441.98
OCT 01	ND (500)	ND (90)	ND (1)	ND (1)	441.88
SEP 02	ND (170)	5.6 J	R	R	442.91
SEP 03	174 J	ND (90)	ND (1)	ND (1)	443.27

AP-6807 (18.0, 2.5-15.5)	DRO	PCE	TCE	WATER ELEVATIONS
SEP 94	730	13.0	7.9	442.86
MAY 97	NA	13.0	9.0	442.48
OCT 97	NA	9.0	7.0	442.30
MAY 98	NA	7.0	8.0	441.95
OCT 98	NA	8.0	10.0	442.48
JUN 99	NA	4.0	7.0	441.90
SEP 99	617	2.7	5.1	442.21
JUN 00	ND (316)	3.6	5.2	443.01
SEP 00	NA	3.1	5.0	443.33
MAY 01	NA	4.08	6.4	442.44
OCT 01	NA	3.32	5.98	442.18
JUN 02	440	2.5	4	443.32
SEP 02	550	0.92 J	2.1	443.13
SEP 03	828	3.38	4.27	443.71
MAY 04	611	3.77	4.25	443.08
MAY 04	1,010	3.53	3.57	442.55
MAY 05	793	3.09	3.83	442.68
OCT 05	798	2.48	2.95	442.47

AP-6804 (18.4, 3-15.5)	DRO	PCE	TCE	WATER ELEVATIONS
SEP 94	230	26.0	17.0	442.53
MAY 97	NA	12.0	17.0	442.64
OCT 97	NA	4.0	17.0	442.46
MAY 98	NA	4.0	15.0	442.09
OCT 98	NA	2.0	12.0	442.65
JUN 99	NA	1.26	9.59	442.04
SEP 99	ND (337) J	1.1	8.8	442.41
JUN 00	333 J	ND (1)	8.3	443.18
SEP 00	NA	ND (1)	7.67	443.56
MAY 01	NA	1.49	8.47	442.62
OCT 01	NA	1.21	8.42	442.35
JUN 02	ND (160)	2	6.8	443.55
SEP 02	ND (190)	0.97 J	4.9	443.41
SEP 03	156 J	1.03	5.20	444.02
MAY 05	91.1 J	ND (1)	4.04	443.09
OCT 05	101 J	0.82 J	4.30	443.02

AP-7330 (35, 30-35)	DRO	GRO	PCE	TCE	WATER ELEVATION
JUL 97	NA	NA	ND (1)	ND (1)	442.03
OCT 97	NA	NA	ND (1)	ND (1)	441.98
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	444.02
APR 98	NS	NS	NS	NS	—
JUL 98	ND (250)	ND (100)	ND (1)	ND (1)	442.17
OCT 98	ND (250)	ND (100)	ND (1)	ND (1)	442.37
JAN 99	158	ND (40)	ND (1)	ND (1)	441.74
APR 99	ND (300)	ND (90)	ND (1)	ND (1)	441.31
JUL 99	ND (309)	ND (90)	ND (1)	ND (1)	441.51
SEP 99	ND (370)	ND (90)	ND (1)	ND (1)	442.17
OCT 01	ND (505)	ND (90)	ND (1)	ND (1)	441.95
SEP 02	ND (170)	ND (50)	ND (2)	ND (2)	442.86
SEP 03	238 J	ND (90)	ND (1)	ND (1)	443.67

AP-7329 (15, 10-15)	DRO	GRO	PCE	TCE	WATER ELEVATION
JUL 97	NA	NA	1.0	5.0	441.99
OCT 97	NA	NA	ND (1)	5.0	441.97
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	444.22
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.69
JUL 98	ND (250)	ND (100)	ND (1)	2.0	442.14
OCT 98	590	ND (100)	ND (1)	3.0	442.08
JAN 99	ND (118)	ND (40)	ND (1)	ND (1)	441.74
APR 99	344	ND (90)	ND (1)	2.0	441.31
JUL 99	315	ND (90)	ND (1)	3.0	441.51
SEP 99	ND (324)	ND (90)	ND (1)	3.0	442.14
OCT 01	ND (510)	ND (90)	ND (1)	2.52	441.69
SEP 02	140 J	75	0.68 J	2.8	442.79
SEP 03	282 J	ND (90)	0.54 J	1.30	443.66
SEP 04	ND (323)	ND (90)	ND (1)	ND (1)	443.18
OCT 05	210 J	ND(10)	ND (1)	0.82 J	442.34

AP-7325 (35, 30-35)	DRO	GRO	PCE	TCE	WATER ELEVATIONS
JUL 97	NA	NA	ND (1)	ND (1)	441.98
OCT 97	NA	NA	ND (1)	ND (1)	441.93
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	443.87
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.92
JUL 98	ND (250)	ND (100)	ND (1)	ND (1)	442.12
OCT 98	ND (280)	ND (100)	ND (1)	ND (1)	442.10
JAN 99	271	ND (40)	ND (1)	ND (1)	442.72
APR 99	ND (300)	ND (90)	ND (1)	ND (1)	441.22
JUL 99	ND (319)	ND (90)	ND (1)	ND (1)	441.22
SEP 99	ND (341)	ND (90)	ND (1)	ND (1)	442.08
OCT 01	ND (500)	ND (90)	ND (1)	ND (1)	441.86
SEP 02	ND (170)	5.8 J	R	R	442.75
SEP 03	123 J	ND (90)	ND (1)	0.33 J	443.39

AP-7559 (16, 6-16)	DRO	PCE	TCE	WATER ELEVATIONS
MAY 98	NA	13.0	1.0	442.39
OCT 98	NA	13.0	ND (1)	442.98
JUN 99	NA	4.6	ND (1)	442.38
SEP 99	ND (316)	4.6	ND (1)	442.77
JUN 00	ND (353) J	4.7	ND (1)	443.53
SEP 00	NA	4.9	ND (1)	443.95
MAY 01	NA	7.05	ND (1)	442.98
OCT 01	NA	6.22	ND (1)	442.70
SEP 03	112 J	4.49	0.41 J	444.33
MAY 04	146 J	4.59	0.5 J	443.87
SEP 04	150 J	4.48	0.49 J	443.18
MAY 05	80 J	3.84	0.49 J	443.66
OCT 05	66.7 J	2.42	ND (1)	443.34

AP-8914 (16.3, 5-15)	DRO	PCE	TCE	WATER ELEVATIONS
SEP 03	644 B	48.5	0.41 J	444.31
MAY 04	182 J	42.6	0.59 J	443.90
SEP 04	156 J	58.7	0.80 J	443.27
MAY 05	210 J	21.6	0.62 J	443.72
OCT 05	125 J	44.8	0.41 J	443.48

AP-5825 (17.1, 4.5-14.5)	DRO	GRO	BENZENE	PCE	TCE	WATER ELEVATIONS
SEP 94	35,000	NA	ND (1)	ND (1)	ND (1)	443.62
OCT 96	28,000 J	1,400	ND (2)	NS	NS	—
JAN 97	33,000	1,100	ND (1)	NS	NS	—
MAY 97	NS	NS	NS	ND (1)	ND (1)	—
OCT 97	31,000	950	ND (1)	1.0	ND (1)	—
JAN 98	30,000	1,200	ND (1)	ND (1)	ND (1)	—
MAY 98	NS	NS	NS	ND (1)	ND (1)	441.77
JUN 98	24,000	340	ND (1)	NS	NS	—
AUG 98	23,000	490	ND (1)	NS	NS	—
OCT 98	17,600	480	ND (1)	ND (1)	ND (1)	443.17
FEB 99	14,500	260	ND (1)	NS	NS	442.20
MAY 99	14,500 J	340	ND (2)	NS	NS	442.51
JUN 99	NS	NS	NS	ND (1)	ND (1)	442.56
SEP 99	38,600 J	NA	NA	ND (1)	ND (1)	442.95
APR 00	20,700 J	NA	NA	NS	NS	442.30
JUN 00	22,600	NA	NA	ND (1)	ND (1)	443.74
SEP 00	32,500 J	NA	NA	ND (1)	ND (1)	444.14
NOV 00	18,550 J	NA	NA	NS	NS	443.51
MAY 01	19,500 J	NA	NA	ND (1)	ND (1)	443.29
SEP 01	15,500 J	NA	NA	NS	NS	443.60
OCT 01	NS	NS	NS	ND (1)	ND (1)	—
JUN 02	13,000	NA	NA	NA	NA	—
AUG 02	DECOMMISSIONED					—

System shut off

AP-8803 (18.4, 3-15.5)	DRO	PCE	TCE	WATER ELEVATIONS
SEP 94	2,600	140	4.8	443.48
MAY 97	NA	540	5.0	443.14
OCT 97	NA	230	4.0	443.11
MAY 98	NA	82.0	2.0	442.84
OCT 98	NA	55.0	1.0	443.12
JUN 99	NA	13.8	1.0	442.50
SEP 99	489 J	16.9	ND (1)	442.96
JUN 00	ND (346)	28.4	ND (1)	443.64
SEP 00	NA	32.8	ND (1)	444.09
MAY 01	NA	26.7	ND (1)	443.18
OCT 01	NA	37.1	ND (1)	442.82
JUN 02	420	20	ND (2)	442.95
SEP 02	260	20 J	ND (2)	443.81
SEP 03	DECOMMISSIONED			

AP-5826 (17.2, 4.5-14.5)	DRO	PCE	TCE	WATER ELEVATIONS
SEP 94	670	ND (1)	ND (1)	—
MAY 97	NA	ND (1)	ND (1)	—
OCT 97	NA	1.0	ND (1)	443.20
MAY 98	NA	ND (1)	ND (1)	442.87
OCT 98	NA	ND (1)	ND (1)	443.33
JUN 99	NA	NS — 0.30" PETROLEUM		—
SEP 99	NA	NS — 0.30" PETROLEUM		443.13
JUN 00	1,160	ND (1)	ND (1)	443.95
SEP 00	3,250	NA	NA	444.34
NOV 00	1,380 JB	NA	NA	443.65
MAY 01	12,900 J	NA	NA	443.45
SEP 01	569	NA	NA	443.74
SEP 02	5,800	NA	NA	442.95
SEP 03	2,340	NA	NA	444.88
MAY 04	778	NA	NA	444.18
SEP 04	870	NA	NA	443.55
MAY 05	1,200	NA	NA	443.83
OCT 05	1,050	NA	NA	443.72

System shut off

SUPPLY WELL (100+, N)	DRO	BENZENE
APR 98	ND (260)	ND (0.5)
JUL 98	80 J	ND (0.5)
SEP 98	60 J	ND (0.5)
APR 99	ND (40)	ND (0.4)
MAY 99	57 J	ND (0.4)
AUG 99	ND (100)	ND (0.4)
NOV 01	ND (495)	ND (0.5)
SEP 02	ND (170)	ND (2)
JUL 03	92.5 J	ND (0.4)
AUG 03	204 J	ND (0.4)
SEP 03	177 J	ND (0.4)
OCT 03	ND (316)	ND (0.4)
NOV 03	85.0 J	ND (0.4)
DEC 03	ND (333)	ND (0.4)
FEB 04	ND (319)	ND (0.4)
MAR 04	70.4 J	ND (0.4)
JUN 04	ND (323)	ND (0.4)
AUG 04	128 J	ND (0.4)
NOV 04	ND (323)	ND (0.4)
DEC 04	68.2 J	ND (0.4)
JAN 05	ND (316)	ND (0.4)
MAR 05	ND (319)	ND (0.4)
MAY 05	95.1 J	ND (0.4)
JULY 05	ND (300)	ND (0.4)
SEPT 05	ND (300)	ND (0.4)

AP-7346 (14, 4-14)	DRO	BENZENE	WATER ELEVATIONS
JUN 98	15,600	7.2	—
JUL 98	200	ND (1)	—
SEP 99	170	ND (1)	—
JUL 99	66 J	0.081 J	—
SEP 02	R	R	444.51
SEP 03	199 J	ND (0.4)	445.20
MAY 04	170 J	ND (0.4)	443.88
OCT 05	127 J	ND (0.4)	443.89

AP-7345 (50, 44-49)	DRO	BENZENE	WATER ELEVATIONS
DEC 97	330	NA	—
JUL 99	ND (100)	ND (0.4)	—
SEP 02	ND (170)	R	444.72
SEP 03	144 J	ND (0.4)	445.04

AP-7344 (103, 90.2-100.2)	DRO	BENZENE	WATER ELEVATIONS
DEC 97	546	NA	—
JUL 99	ND (110)	ND (0.4)	—
SEP 02	ND (170)	ND (2)	444.68
SEP 03	119 J	ND (0.4)	445.00

AP-7348 (14, 5-16)	DRO	BENZENE	WATER ELEVATIONS
DEC 97	22,000	NA	—
JUL 99	27,000	7.0	—
SEP 02	33,000	15	443.65
SEP 03	33,500J	11.4	445.07
SEP 04	27,200	3.20	443.89
OCT 05	10,100	0.42	444.04

AP-7347 (14, 7-15)	DRO	BENZENE	WATER ELEVATIONS
DEC 97	540	NA	—
JUL 99	390	ND (0.4)	—
SEP 02	190	ND (2)	444.84
SEP 03	278 J	ND (0.4)	445.10

AP-7331 (90, 55-60)	DRO	GRO	PCE	TCE	WATER ELEVATION
JUL 97	NA	NA	ND (1)	ND (1)	442.01
OCT 97	NA	NA	ND (1)	ND (1)	441.99
JAN 98	ND (250)	ND (100)	ND (1)	ND (1)	443.68
APR 98	ND (250)	ND (100)	ND (1)	ND (1)	442.76
JUL 98	ND (250)	ND (100)	ND (1)	ND (1)	442.14
OCT 98	ND (250)	ND (100)	ND (1)	ND (1)	442.19
JAN 99	161	ND (40)	ND (1)	ND (1)	441.67
APR 99	ND (297)	116	ND (1)	ND (1)	441.23
JUL 99	ND (318)	ND (90)	ND (1)	ND (1)	441.48
SEP 99	ND (316)	ND (90)	ND (1)	ND (1)	442.14
OCT 01	ND (500)	ND (90)	ND (1)	ND (1)	441.94
SEP 02	ND (180)	7.9 J	ND (2)	ND (2)	443.03
SEP 03	234 J	ND (90)	0.33 J	ND (1)	443.64

MP-4 (15.9, N)	DRO	GRO	BENZENE	WATER ELEVATION
APR 97	8,730	ND (100)	ND (1)	—
JUL 97	1,600	ND (100)	ND (1)	—
OCT 97	720	ND (100)	ND (1)	—
JAN 98	3,200	ND (100)	ND (1)	—
JUN 98	3,800	ND (100)	ND (1)	—
AUG 98	2,700	ND (100)	ND (1)	—
OCT 98	1,810	ND (40)	ND (1)	—
FEB 99	1,380	ND (40)	ND (1)	—
MAY 99	1,260	ND (90)	ND (0.5)	—
AUG 99	1,650 J	ND (90)	ND (0.5)	—
OCT 99	576	ND (90)	ND (0.5)	—
APR 00	516	NA	NA	—
JUL 00	400	NA	NA	—
SEP 00	718	NA	NA	—
NOV 00	427 JB	NA	NA	—
MAY 01	ND (982)	NA	NA	442.31
SEP 01	383	NA	NA	442.52
JUN 02	290	NA	NA	443.30
SEP 02	480 J	NA	NA	445.43

System shut off

AP-3965 (18.4, 6.5-16.5)	DRO	BENZENE	WATER ELEVATION
SEP 03	119 J	ND (0.5)	443.25

System shut off

PI-2 (13.7, N)	DRO
JUL 00	1,220
SEP 00	1,770
NOV 00	2,050
MAY 01	9,050
SEP 01	ND (349)
SEP 03	870

PI-3 (18.9, N)	DRO
SEP 00	1,920
NOV 00	2,650
MAY 01	12,100 J
SEP 01	2,790 J
SEP 03	3,540
MAY 04	3,780
SEP 04	11,000
MAY 05	3,190
OCT 05	2,990

System shut off

PI-1 (Unknown, N)	DRO
JUL 00	ND (337)
SEP 00	ND (319)
NOV 00	347 JB

System shut off

MP-1 (17.1, N)	DRO	GRO	BENZENE
JUN 96	3,360	179	ND (1.0)
OCT 96	10,000	330	ND (1.0)
JAN 97	10,000	400	ND (1.0)
JUL 97	31,000	1,500	ND (1.0)
OCT 97	13,000	690	ND (1.0)
JAN 98	8,603	910	ND (5.0)
JUN 98	ND (340)	ND (100)	ND (1.0)
AUG 98	500	ND (100)	ND (1.0)
OCT 98	665	ND (40)	ND (1.0)
FEB 99	5,402	110	ND (1.25)
MAY 99	3,923	ND (90)	ND (0.5)
JUL 99	9,355	91	ND (0.5)
OCT 99	6,750	ND (90)	ND (0.5)
APR 00	6,920	NA	NA
JUL 00	3,840	NA	NA
SEP 00	20,800	NA	NA
NOV 00	3,960	NA	NA
MAY 01	4,890 J	NA	NA
SEP 01	2,900 J	NA	NA
JUN 02	220	NA	NA
SEP 02	95 J	NA	NA
SEP 03	1,340	NA	NA

System shut off

MP-3 (17.6, N)	DRO	GRO	BENZENE	WATER ELEVATION
JUN 96	9,240	NA	ND (1)	—
OCT 96	7,000	ND (100)	ND (1)	—
JAN 97	1,200	ND (100)	ND (1)	—
JUL 97	3,800	ND (100)	ND (1)	—
OCT 97	3,800	ND (100)	ND (1)	—
JAN 98	1,200	ND (100)	ND (1)	—
JUN 98	630	ND (100)	ND (1)	—
AUG 98	1,200	ND (100)	ND (1)	—
OCT 98	425	ND (40)	ND (1)	—
FEB 99	2,750	43	ND (1)	—
MAY 99	1,590	ND (90)	ND (0.5)	—
OCT 99	1,74 J	ND (90)	ND (0.5)	—
APR 00	643	NA	NA	—
JUN 02	170 J	NA	NA	442.42
SEP 02	72 J	NA	NA	442.84

System shut off

AP-6806 (20.5, 21-1-4.5)	DRO	GRO	BENZENE	WATER ELEVATION
SEPT 94	4,200	170	ND (1)	443.48
OCT 96	9,200	ND (100)	ND (1)	—
JAN 97	14,000	ND (100)	ND (1)	—
JUL 97	4,300	ND (100)	ND (1)	—
OCT 97	1,900	ND (100)	ND (1)	—
JAN 98	5,100	130	ND (1)	—
JUN 98	1,500	ND (100)	ND (1)	—
AUG 98	14,000	ND (100)	ND (1)	—
OCT 98	8,470	81	ND (1)	—
FEB 99	3,690	95	ND (1)	441.36
MAY 99	2,750	ND (90)	ND (0.5)	441.53
OCT 99	1,530	ND (90)	ND (0.5)	441.95
APR 00	12,800	NA	NA	441.86
JUL 00	1,830	NA	NA	442.55
SEP 00	6,880	NA	NA	442.89
NOV 00	2,100	NA	NA	442.99
SEP 01	2,460 J	NA	NA	442.07
JUN 02	2,000	NA	NA	439.99
SEP 02	1,800	NA	NA	442.79
SEP 03	14,800	NA	ND (0.5)	443.78
MAY 04	8,750	NA	NA	443.41
SEP 04	3,910	NA	NA	443.22
MAY 05	2,340	NA	NA	443.21
OCT 05	7,010	NA	NA	442.84

System shut off

MP-2 (13.1, N)	DRO	GRO	BENZENE
JUN 96	3,760	93.3	ND (1)
OCT 96	14,000	120	ND (1)
JAN 97	16,000	ND (100)	ND (1)
OCT 97	8,400	370	ND (1)
JAN 98	3,000	ND (100)	ND (1)
JUN 98	1,500	ND (100)	ND (1)
AUG 98	3,900	ND (100)	ND (1)
OCT 98	6,090	ND (42)	ND (1)
FEB 99	2,660	57	ND (1)

MP-1 (14.0, N)	DRO	GRO	BENZENE
JUL 96	18,800	172	ND (1)
OCT 96	8,800	ND (100)	ND (1)
JAN 97	2,700	ND (100)	ND (1)
APR 97	3,400	ND (100)	ND (1)
JUL 97	3,900	170	ND (1)
OCT 97	3,400	ND (100)	ND (1)
JAN 98	530	ND (100)	ND (1)
JUN 98	3,200	ND (100)	ND (1)
AUG 98	8,400	ND (100)	ND (1)
OCT 98	5,030	ND (40)	ND (1)
JAN 99	8,210	ND (90)	ND (0.5)
AUG 99	8,320 J	ND (90)	ND (1)
OCT 99	3,600	ND (90)	ND (0.5)
APR 00	5,730	NA	NA
JUL 00	519	NA	NA
SEP 00	336	NA	NA
JUN 02	320	NA	NA
SEP 02	160 J	NA	NA

PROBE D (16.7, 5-15)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
JUN 02	82 J	0.53 J	2.6	1.4 J	443.71
SEP 02	ND (180)	ND (2)	2.3	1.3 J	443.80
SEP 03	303 J	0.360 J	3.08	1.25	444.26
MAY 04	212 J	ND (1)	2.8	1.22	443.61
SEP 04	ND-B (228)	ND (1)	2.47	1.66	443.13
MAY 05	122 J	ND (1)	1.45	1.19	443.36
OCT 05	160 J	ND (1)	1.14	1.03	443.26

PROBE C (16.8, 5-15)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
JUN 02	110 J	0.61 J	2.9	1.1 J	443.88
SEP 02	280	0.54 J	2.7	0.77 J	443.85

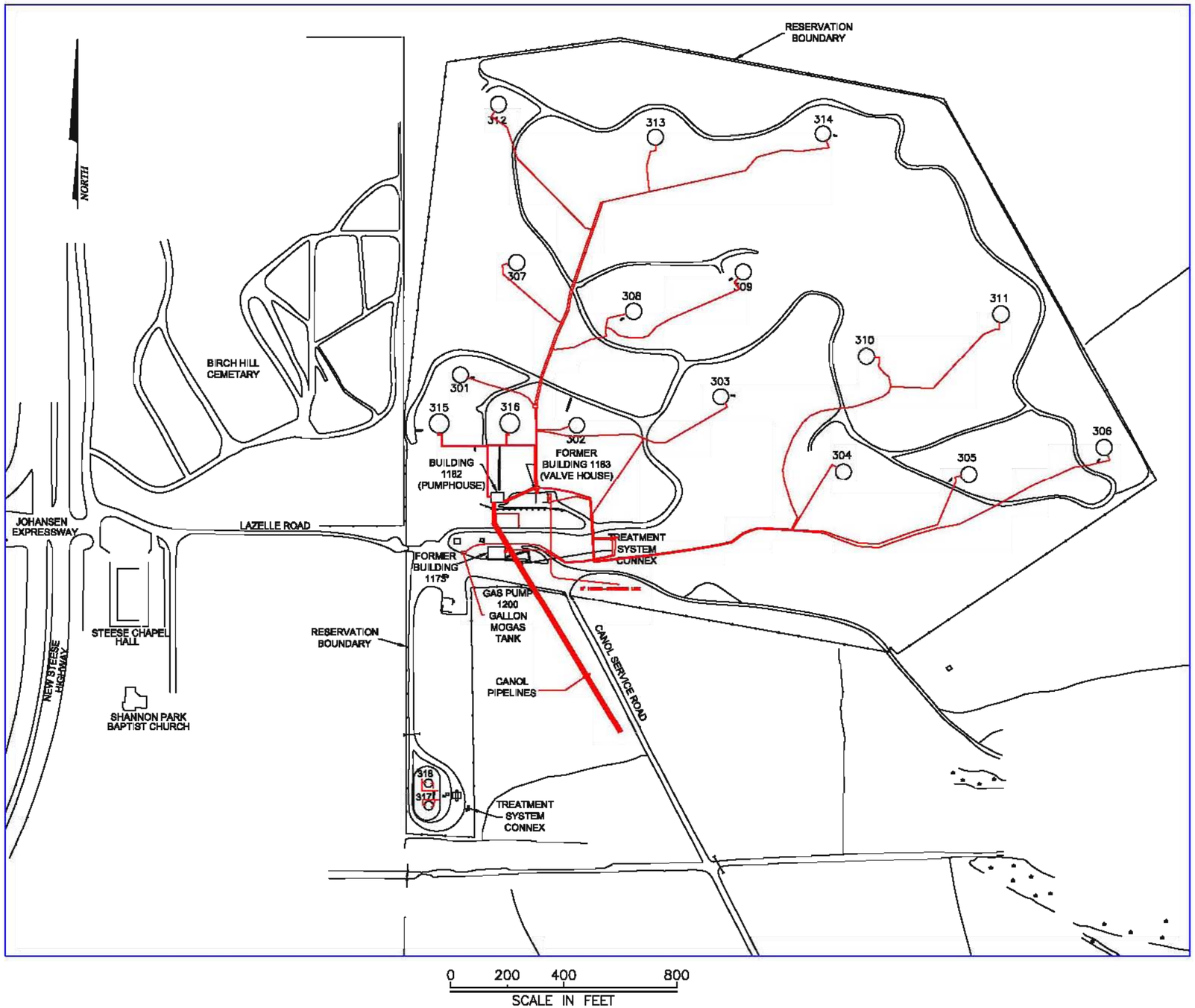
PROBE B (16.5, 5-15)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
JUN 02	140 J	0.46 J	1.6 J	0.6 J	443.75
SEP 02	2,700	ND (2)	1.2 J	ND (2)	443.29

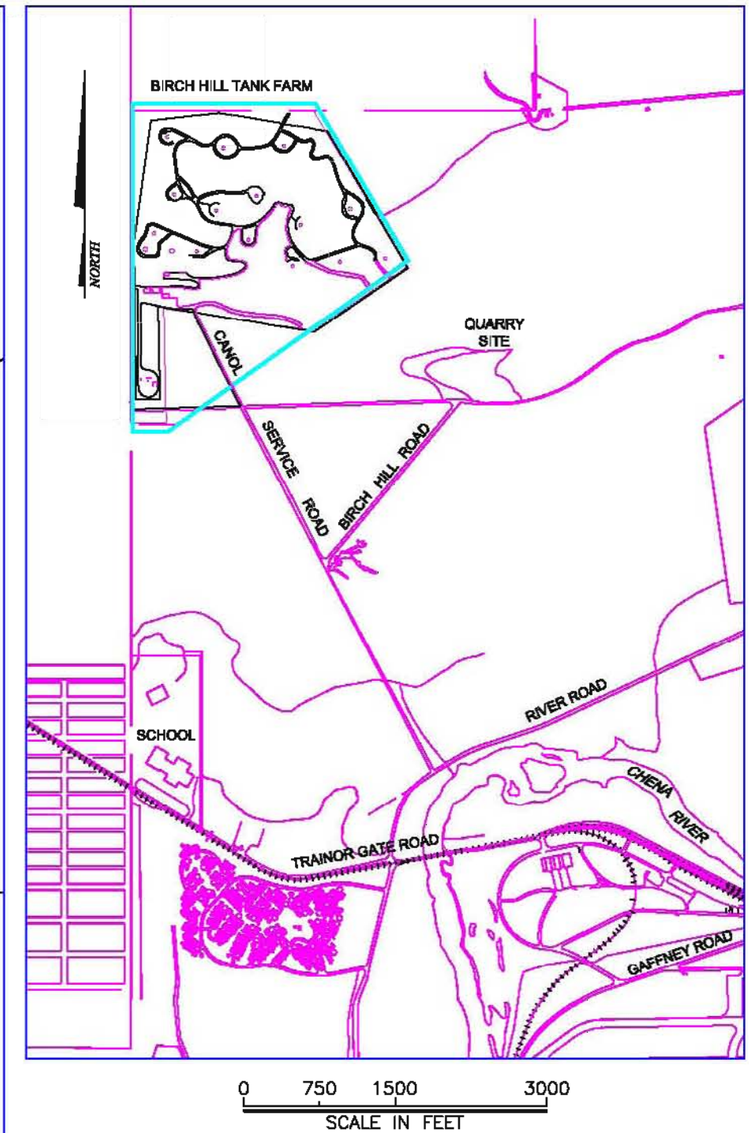
PROBE A (17.2, 5-15)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
JUN 02	95 J	2	1.2 J	ND (2)	443.50
SEP 02	170	3.6	2.8	0.47 J	444.07

AP-7560 (13.5, 6-16)	DRO	PCE	TCE	WATER ELEVATIONS
JUL 98	NA	3.0	2.0	—
OCT 98	NA	1.0	ND (1)	442.87
JUN 99	NA	3.0	1.3	442.21
SEP 99	ND (531)	5.3	2.7	442.59
JUN 00	13,700	4.3	1.4	—
SEP 00	NA	4.8	3.0	443.71
MAY 01	NA	2.42	ND (1)	442.66
OCT 01	NA	ND (1)	ND (1)	442.48
SEP 02	330	ND (2)	ND (2)	443.54
SEP 03	3,720	3.08	1.83	444.04
MAY 04	7,660	1.24	0.6 J	443.61
SEP 04	870	1.49	0.68 J	443.03
MAY 05	10,300	1.39	0.460 J	443.46
OCT 05	664	2.19	0.790 J	443.12

AP-8916 (16.6, 5-15)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
SEP 03	1,360 B	25	1.62	ND (0.4)	444.42
MAY 04	422	10.6	0.73 J	0.28 J	444.00
SEP 04	551	10.6	ND (1)	ND (0.4)	443.45
MAY 05	474	14.5	0.880 J	ND (0.4)	443.61
OCT 05	594	8.03	1.74	0.22 J	443.57

P05 (Unknown, N)	DRO	PCE	TCE	BENZENE	WATER ELEVATION
JUL 94	280	51.0	3.8	7.5	PROBE IS TOO SMALL FOR WATER LEVEL INDICATOR
SEP 00





ARMY ENVIRONMENTAL CENTER

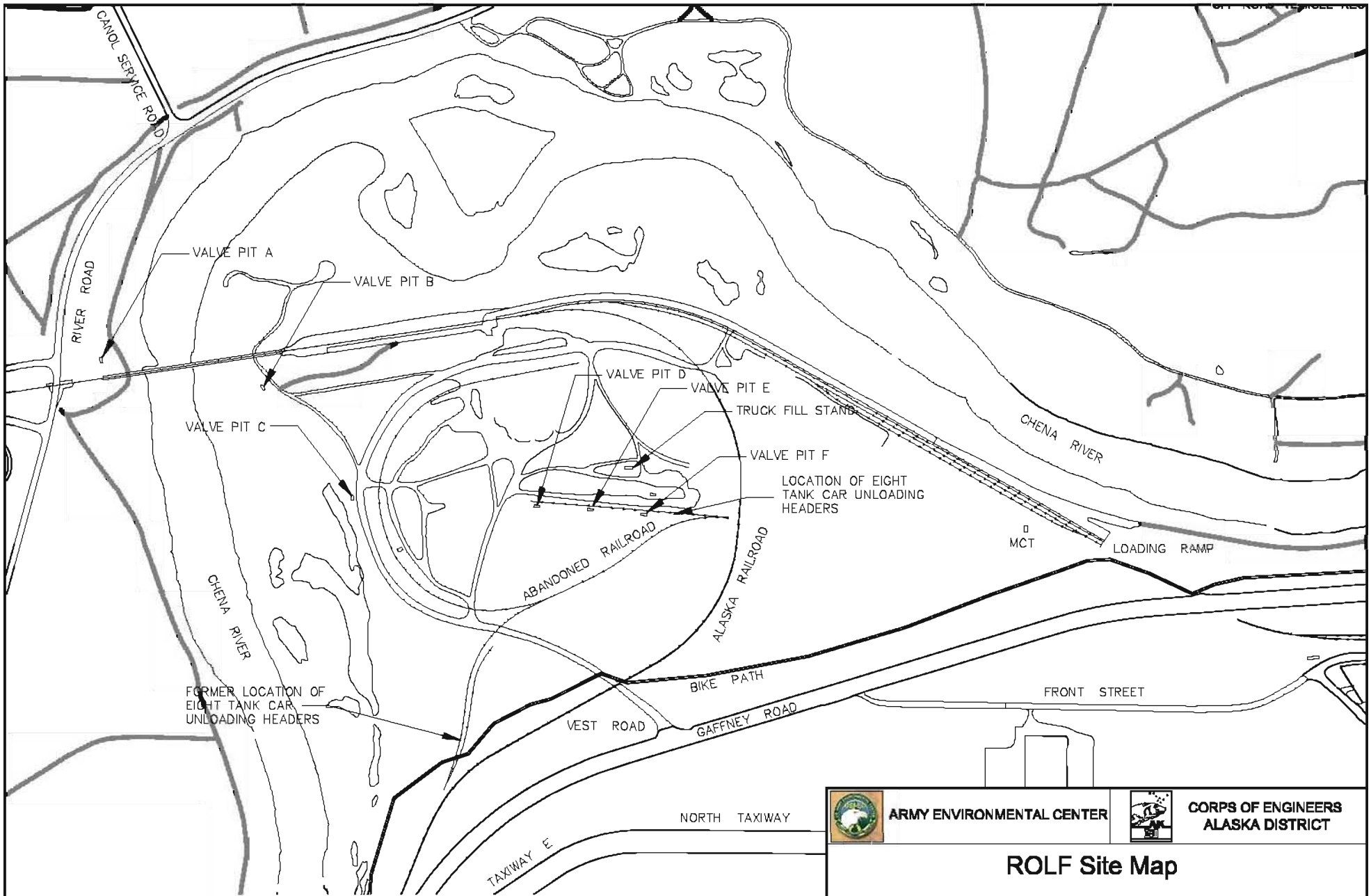
CORPS OF ENGINEERS
ALASKA DISTRICT

Birch Hill Tank Farm Site Map

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2006 5 Year	6-1	9/06

781AF



0 250 500 1000
SCALE IN FEET

Horizontal datum is Alaska State Plane, Zone 3, NAD83 in meters.
Vertical datum is NAVD88 in meters.
This map conforms to National Map Accuracy Standards as related to the project photo control for scales of 1:1000 or smaller.
Contours in vegetated areas may be less accurate.
Photography Date: 5-16-1997

ARMY ENVIRONMENTAL CENTER

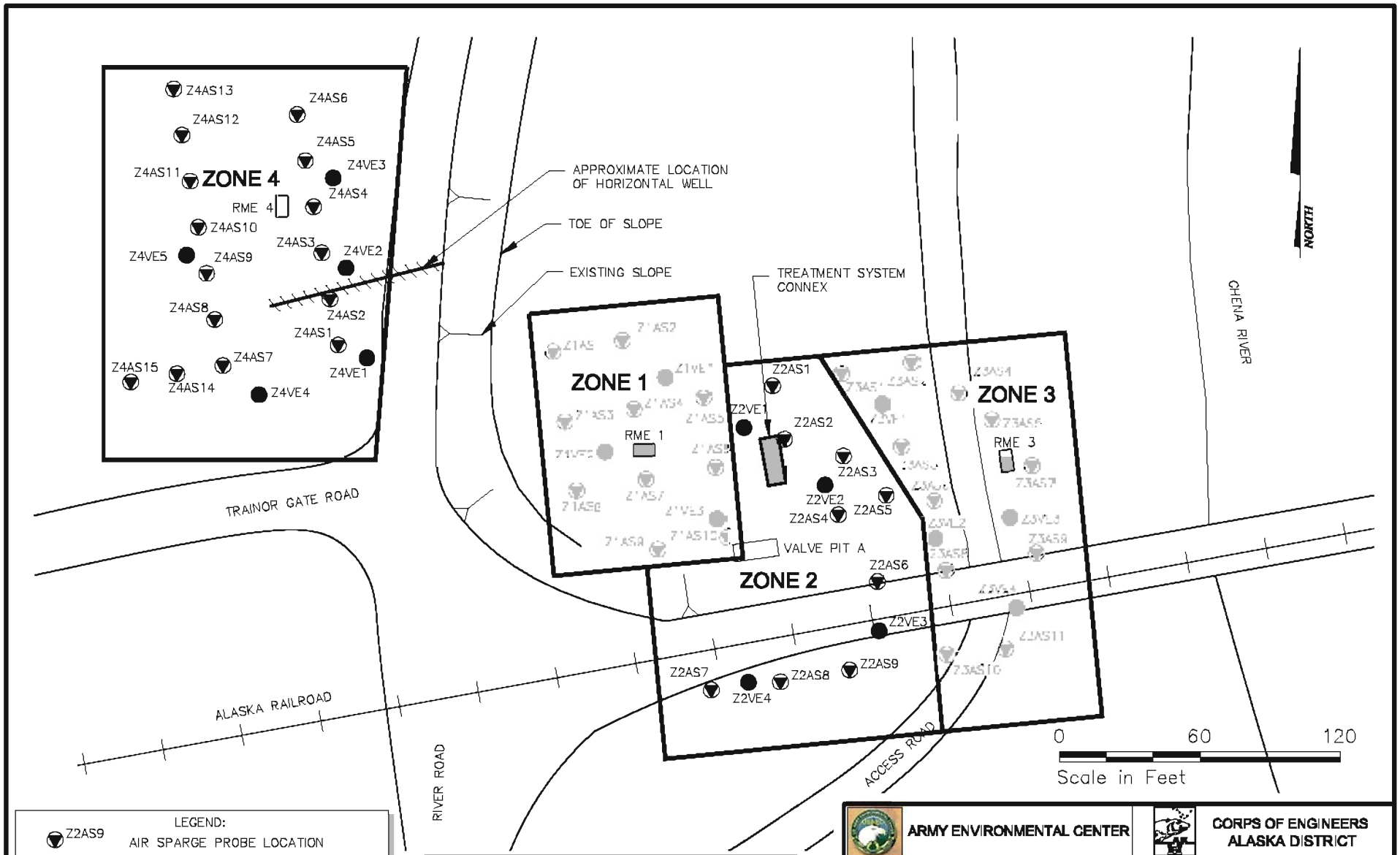
CORPS OF ENGINEERS
ALASKA DISTRICT

ROLF Site Map

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
DPW, 2004 Base Map	6-2	9/06

731AF



LEGEND:

Z2AS9	AIR SPARGE PROBE LOCATION
Z2VE1	VAPOR EXTRACTION PROBE LOCATION
Z1AS5	AIR SPARGE PROBE LOCATION NOT IN OPERATION
Z1VE1	VAPOR EXTRACTION PROBE LOCATION NOT IN OPERATION
RME 1	REMOTE MONITORING ENCLOSURE

NOTES:

1. ZONES 1 AND 2 WERE SHUTDOWN IN 2/04 TO CONDUCT A REBOUND STUDY
2. VAPOR EXTRACTION SYSTEM OPERATED FROM 4/05 TO 10/05
3. ZONE 4 WAS SHUTDOWN IN 11/05 TO CONDUCT A REBOUND STUDY

ARMY ENVIRONMENTAL CENTER

CORPS OF ENGINEERS
ALASKA DISTRICT

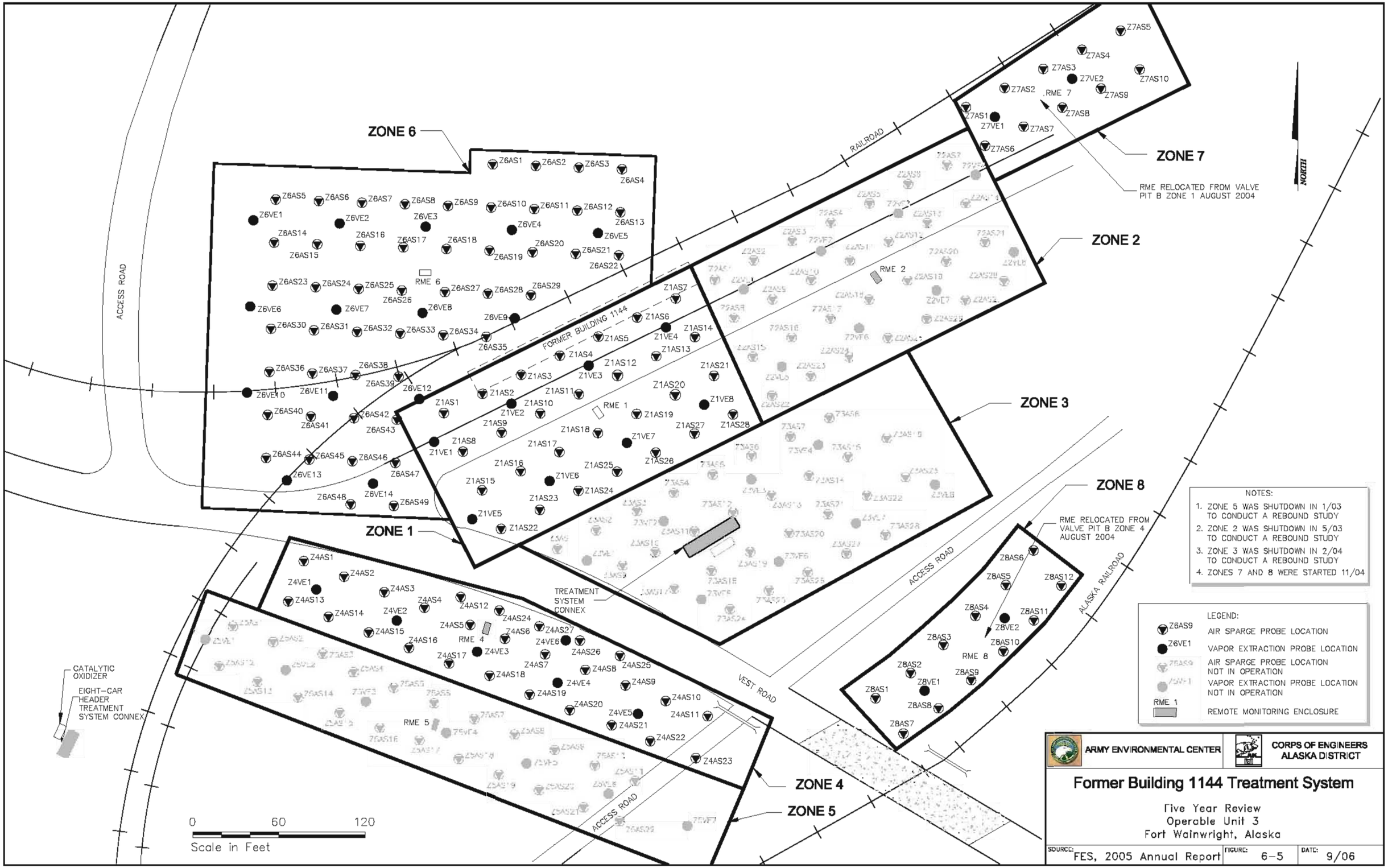
Valve Pit A Treatment System

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2005 Annual Report	6-3	9/06

732AF

ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5
ZONE 6
ZONE 7
ZONE 8
ACCESS ROAD
ACCESS ROAD
ALASKA RAILROAD
NORTH
RME 1
RME 2
RME 3
RME 4
RME 5
RME 6
RME 7
RME 8
VALVE PIT D
VALVE PIT E
VALVE PIT F
TRUCK FILL STAND
TREATMENT SYSTEM CONNEX
RME 4 RELOCATED TO UPGRADIENT AREA AUGMENTATION AUGUST 2004
LEGEND:
Z7AS9 AIR SPARGE PROBE LOCATION
Z7VE1 VAPOR EXTRACTION PROBE LOCATION
AIR SPARGE PROBE LOCATION NOT IN OPERATION
VAPOR EXTRACTION PROBE LOCATION NOT IN OPERATION
RME 1 REMOTE MONITORING ENCLOSURE
NOTES:
1. ZONES 2 AND 4 WERE TAKEN OFFLINE IN 6/02 TO CONDUCT A REBOUND STUDY
2. ZONES 3 AND 8 SVE WERE TAKEN OFFLINE IN 2/04 TO CONDUCT A REBOUND STUDY
3. ZONE 1 SVE, ZONE 5, AND SELECT AS PROBES IN ZONES 1, 3, AND 8 WERE TAKEN OFFLINE IN 1/05 TO CONDUCT A REBOUND STUDY
0 60 120
Scale in Feet
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT
Central Header Treatment System
Five Year Review
Operable Unit 3
Fort Wainwright, Alaska
SOURCE: FES, 2005 Annual Report
FIGURE: 6-4
DATE: 9/06
734AF


ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5
ZONE 6
ZONE 7
ZONE 8
RAILROAD
ACCESS ROAD
ALASKA RAILROAD
VEST ROAD
FORMER BUILDING 1144
RME 1
RME 2
RME 4
RME 5
RME 6
RME 7
RME 8
RME RELOCATED FROM VALVE PIT B ZONE 1 AUGUST 2004
RME RELOCATED FROM VALVE PIT B ZONE 4 AUGUST 2004
TREATMENT SYSTEM CONNEX
CATALYTIC OXIDIZER
EIGHT-CAR HEADER TREATMENT SYSTEM CONNEX
NORTH
0 60 120
Scale in Feet
NOTES:
1. ZONE 5 WAS SHUTDOWN IN 1/03 TO CONDUCT A REBOUND STUDY
2. ZONE 2 WAS SHUTDOWN IN 5/03 TO CONDUCT A REBOUND STUDY
3. ZONE 3 WAS SHUTDOWN IN 2/04 TO CONDUCT A REBOUND STUDY
4. ZONES 7 AND 8 WERE STARTED 11/04
LEGEND:
Z6AS9 AIR SPARGE PROBE LOCATION
Z6VE1 VAPOR EXTRACTION PROBE LOCATION
AIR SPARGE PROBE LOCATION NOT IN OPERATION
VAPOR EXTRACTION PROBE LOCATION NOT IN OPERATION
RME 1 REMOTE MONITORING ENCLOSURE
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT
Former Building 1144 Treatment System
Five Year Review
Operable Unit 3
Fort Wainwright, Alaska
SOURCE: FES, 2005 Annual Report
FIGURE: 6-5
DATE: 9/06

735AF

ZONE 4

ZONE 3

ZONE 2

ZONE 1

ZONE 5

RAILROAD

RAILROAD

FORMER BUILDING 1144

FORMER BUILDING 1144 TREATMENT SYSTEM CONNEX

ACCESS ROAD

ACCESS ROAD

VEST ROAD

GAFFNEY ROAD

ALASKA RAILROAD

NORTH

RME 1

RME 2

RME 3

RME 4

RME 5

ELECTRIC/CATALYTIC OXIDIZER

TREATMENT SYSTEM CONNEX

TREATMENT SYSTEM CONNEX

UPGRADIENT AREA ZONE 2

UPGRADIENT AREA ZONE 1

Z2AS1 Z2AS2 Z2AS3 Z2AS4 Z2AS5 Z2AS6 Z2AS7 Z2AS8 Z2AS9 Z2AS10 Z2AS11 Z2AS12 Z2VE1 Z2VE2 Z2VE3

Z1AS1 Z1AS2 Z1AS3 Z1AS4 Z1AS5 Z1AS6 Z1AS7 Z1AS8 Z1AS9 Z1AS10 Z1AS11 Z1AS12 Z1AS13 Z1AS14 Z1AS15 Z1AS16 Z1AS17 Z1AS18 Z1AS19 Z1AS20 Z1VE1 Z1VE2 Z1VE3

RME

0 80 160

Scale in Feet

NOTES:

1. THE TREATMENT SYSTEM WAS SHUTDOWN IN 10/02 TO CONDUCT A REBOUND STUDY
2. PORTIONS OF ZONES 1, 2 AND 3 WERE RESTARTED 4/04
3. UPGRADIENT AREA WAS STARTED 11/04
4. ZONES 1, 2, AND 3 WERE SHUTDOWN IN 1/05 TO CONDUCT A REBOUND STUDY

LEGEND

Z2AS12	AIR SPARGE PROBE LOCATION
Z1VE2	VAPOR EXTRACTION PROBE LOCATION
74AS3	AIR SPARGE PROBE LOCATION NOT IN OPERATION
74VE1	VAPOR EXTRACTION PROBE LOCATION NOT IN OPERATION
RME 1	REMOTE MONITORING ENCLOSURE

ARMY ENVIRONMENTAL CENTER

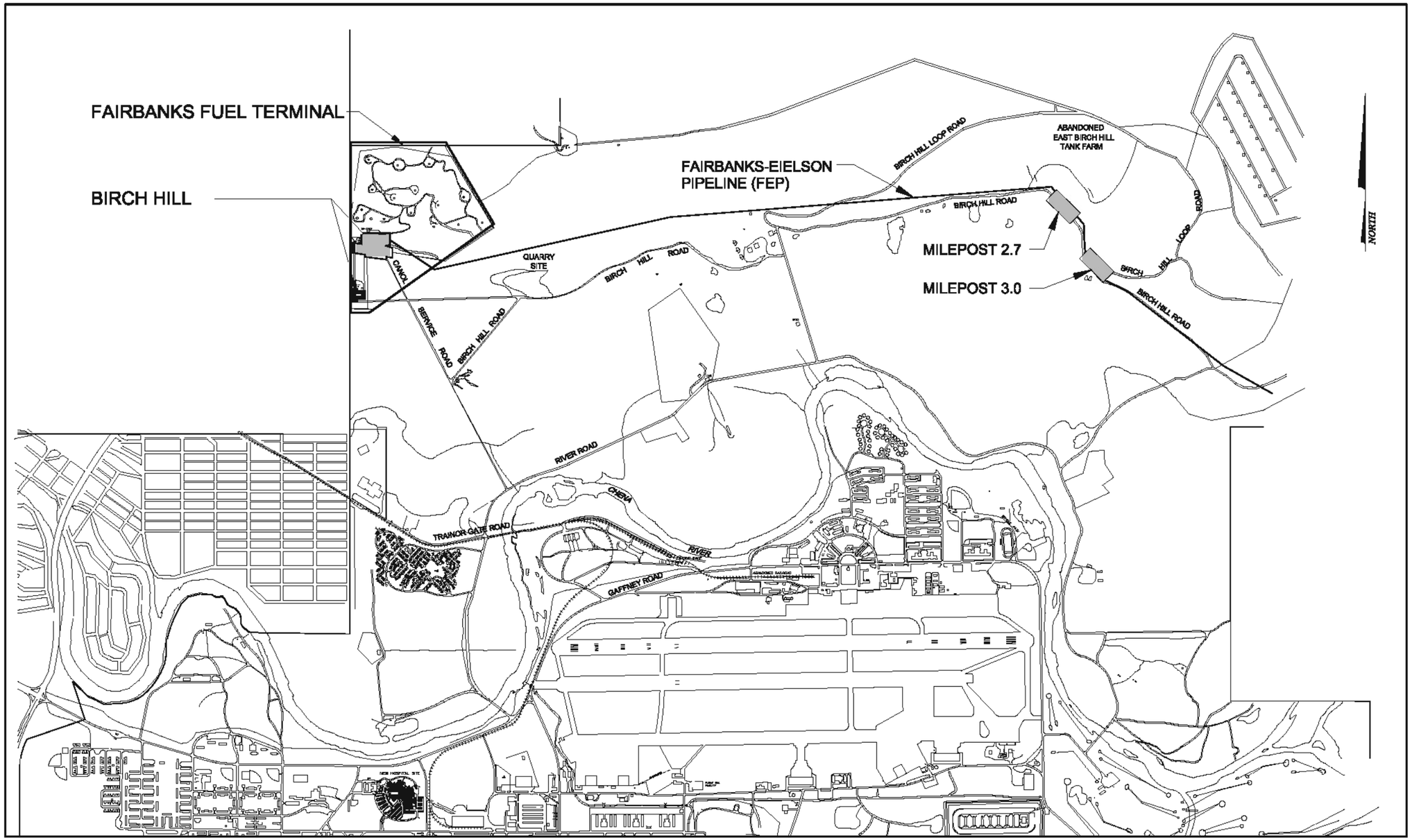
CORPS OF ENGINEERS ALASKA DISTRICT

Eight Car Header Treatment System

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2005 Annual Report	6-6	9/06

736AF



0 1000 2000 4000
SCALE IN FEET

ARMY ENVIRONMENTAL CENTER

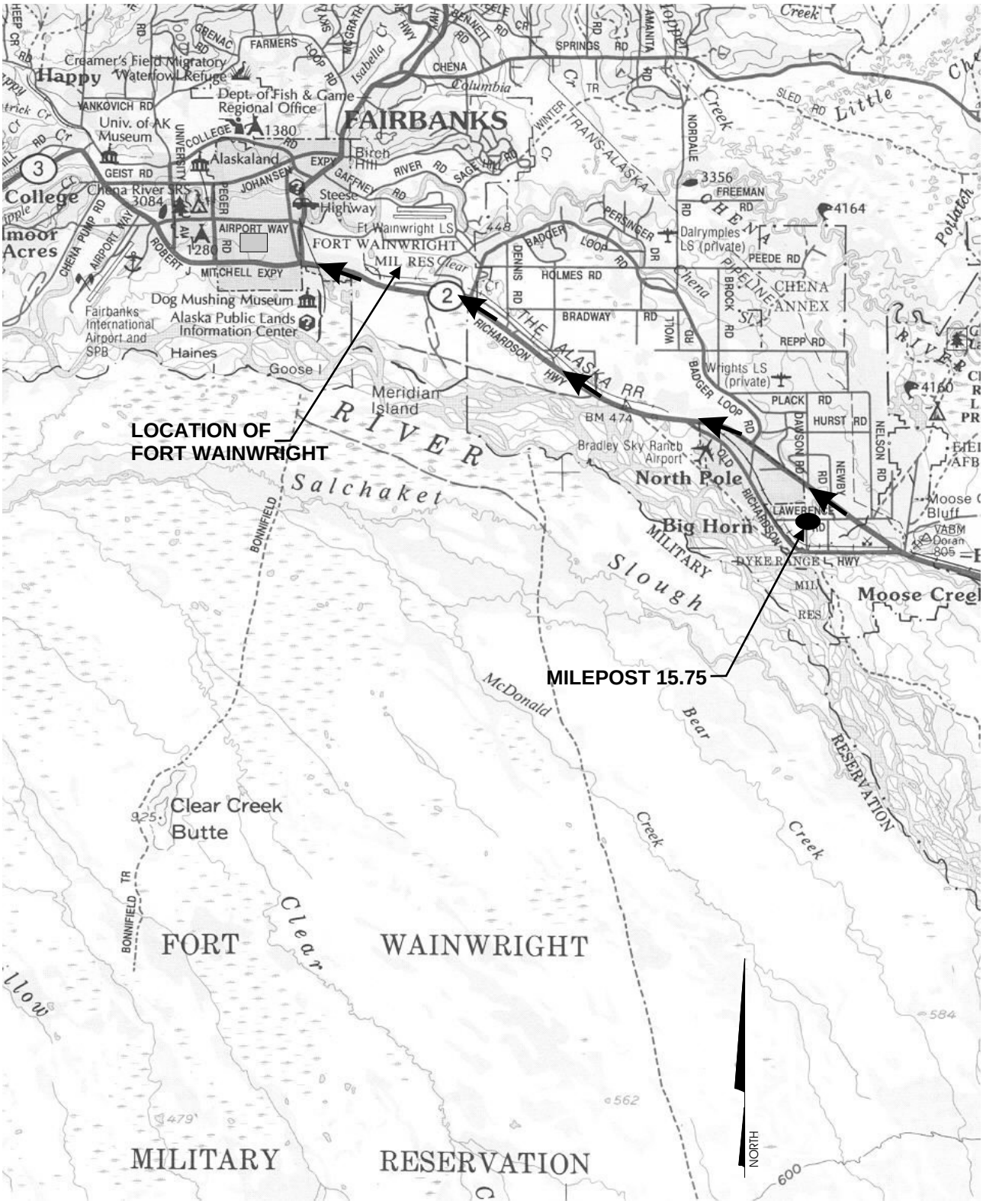
CORPS OF ENGINEERS
ALASKA DISTRICT

Milepost 2.7 and 3.0 Site Map

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2002 MP Assessement	6-7	9/06

737AF



0 4000 8000

APPROXIMATE SCALE IN FEET

SOURCE: ALASKA ATLAS AND GAZETTER, 1992

ARMY ENVIRONMENTAL CENTER

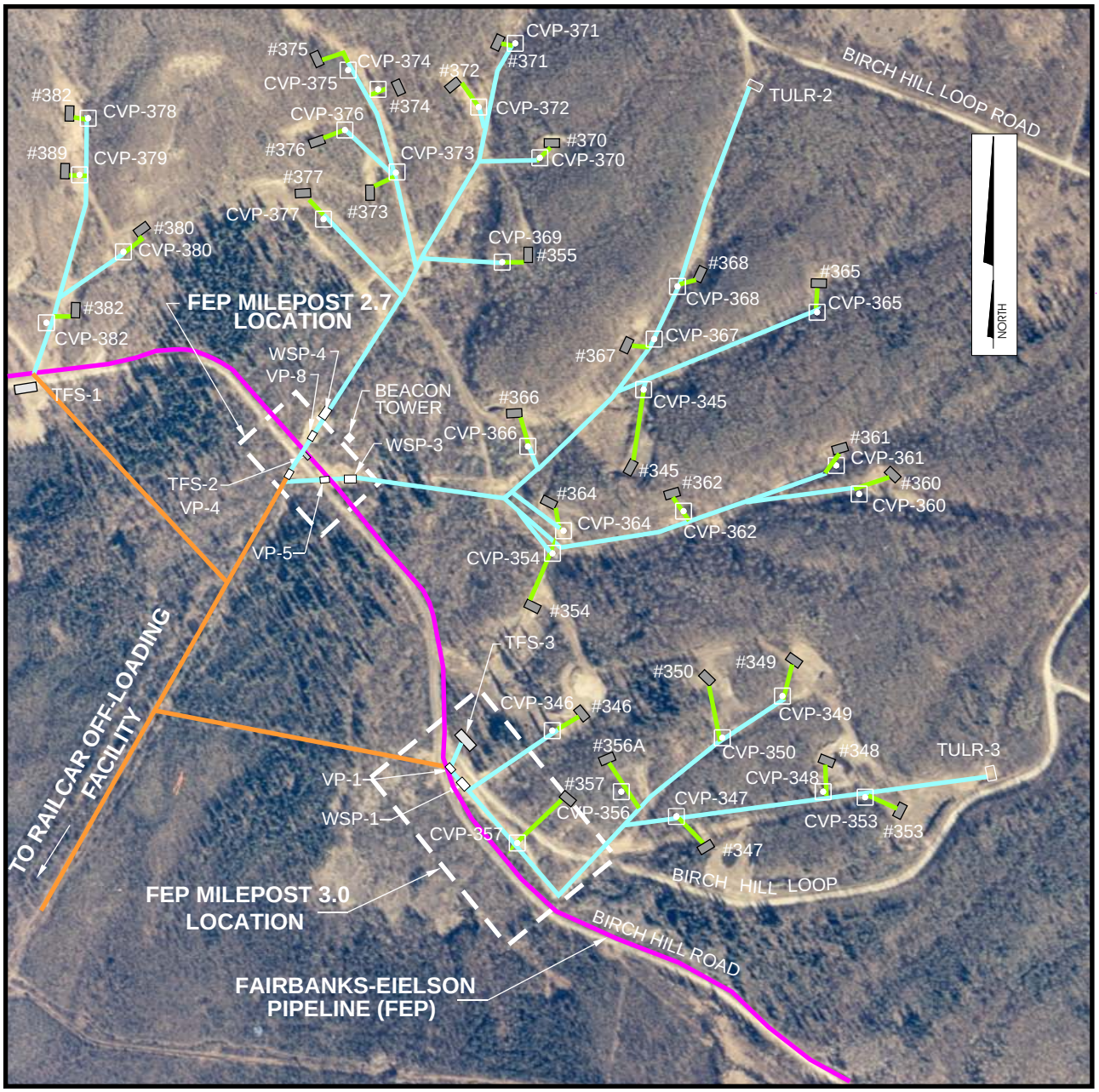
CORPS OF ENGINEERS
ALASKA DISTRICT

Milepost 15.75 Location Map

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2005 Work Plan	6–8	9/06

202C



0 500 1000

APPROXIMATE SCALE IN FEET

SOURCES: 1. ECOLOGY AND ENVIRONMENT, 1996
2. R&M CONSULTANTS, 1993 SURVVEY

LEGEND

CVP-350	CONTROL VALVE PIT
#350	UNDERGROUND STORAGE TANK
TFS-2	TRUCK FILL STAND
TULR-3	TRUCK UNLOADING RACKS
VP	VALVE PIT
WSP	WATER SEPARATOR PIT
	8-INCH FUEL LINE
	6-INCH FUEL LINE
	4-INCH FUEL LINE

ARMY ENVIRONMENTAL CENTER

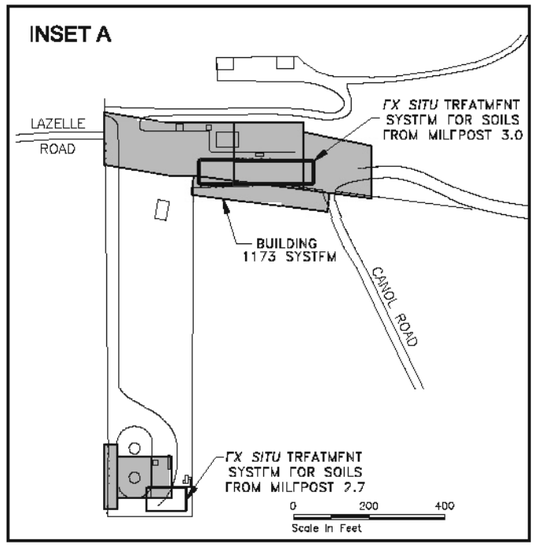
CORPS OF ENGINEERS
ALASKA DISTRICT

East Birch Hill Tank Farm and Associated Piping

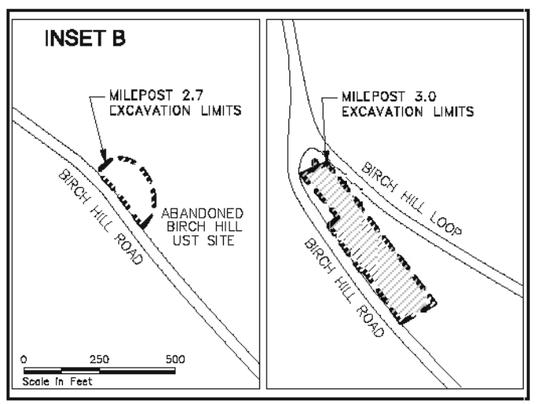
Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FES, 2002 MP Assessment	6-9	9/06

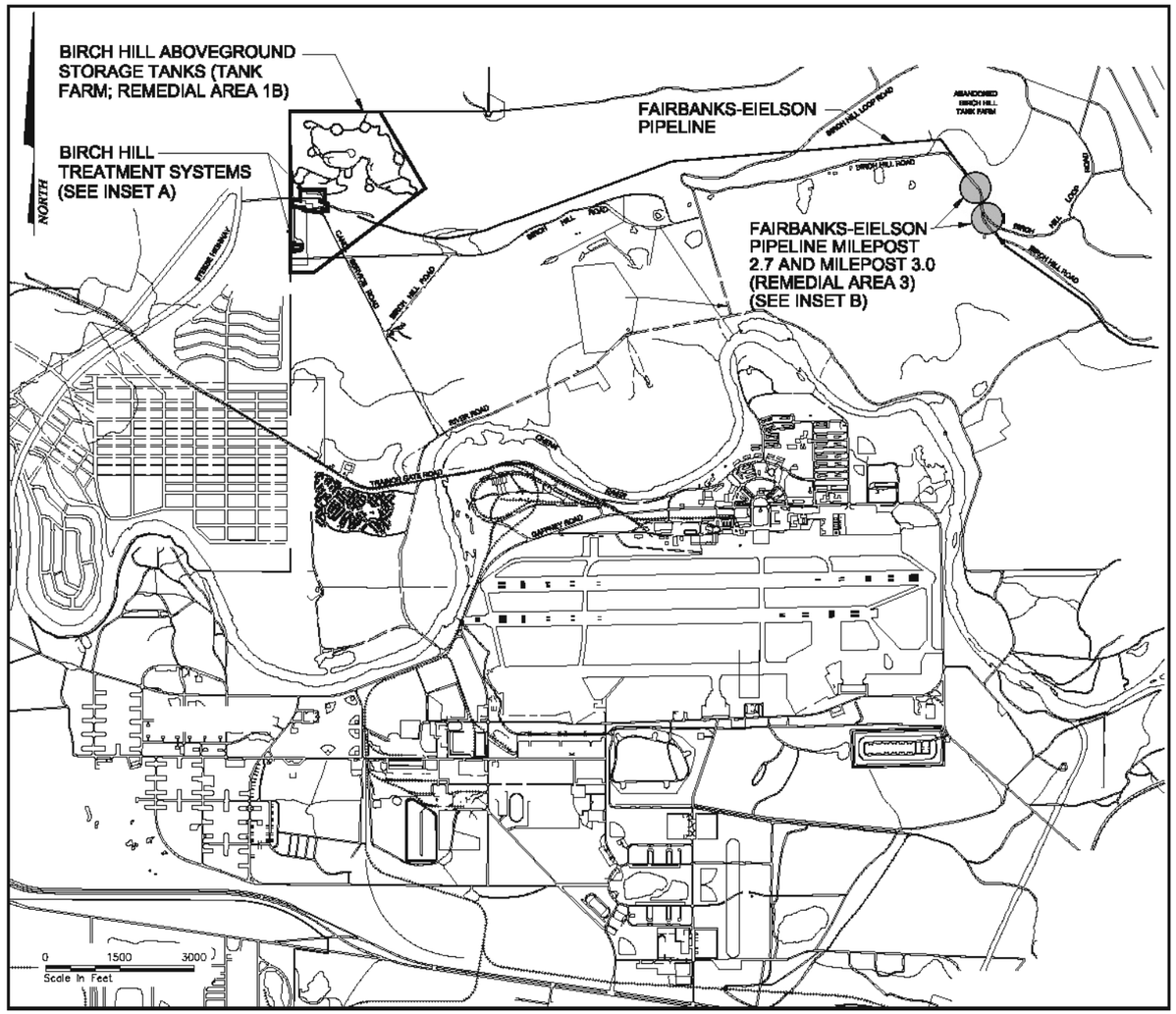
201C



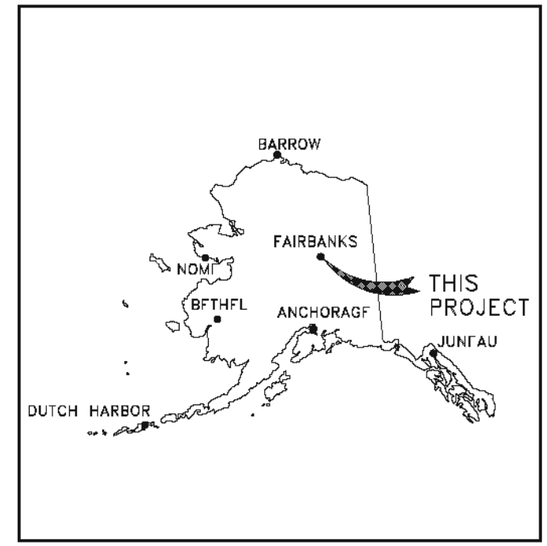
REMEDIAL AREA 1B BIRCH HILL TANK FARM TREATMENT SYSTEMS



REMEDIAL AREA 3 FAIRBANKS-EIELSON PIPELINE MILEPOST 2.7 AND 3.0



SITE VICINITY MAP



PROJECT LOCATION MAP

ARMY ENVIRONMENTAL CENTER

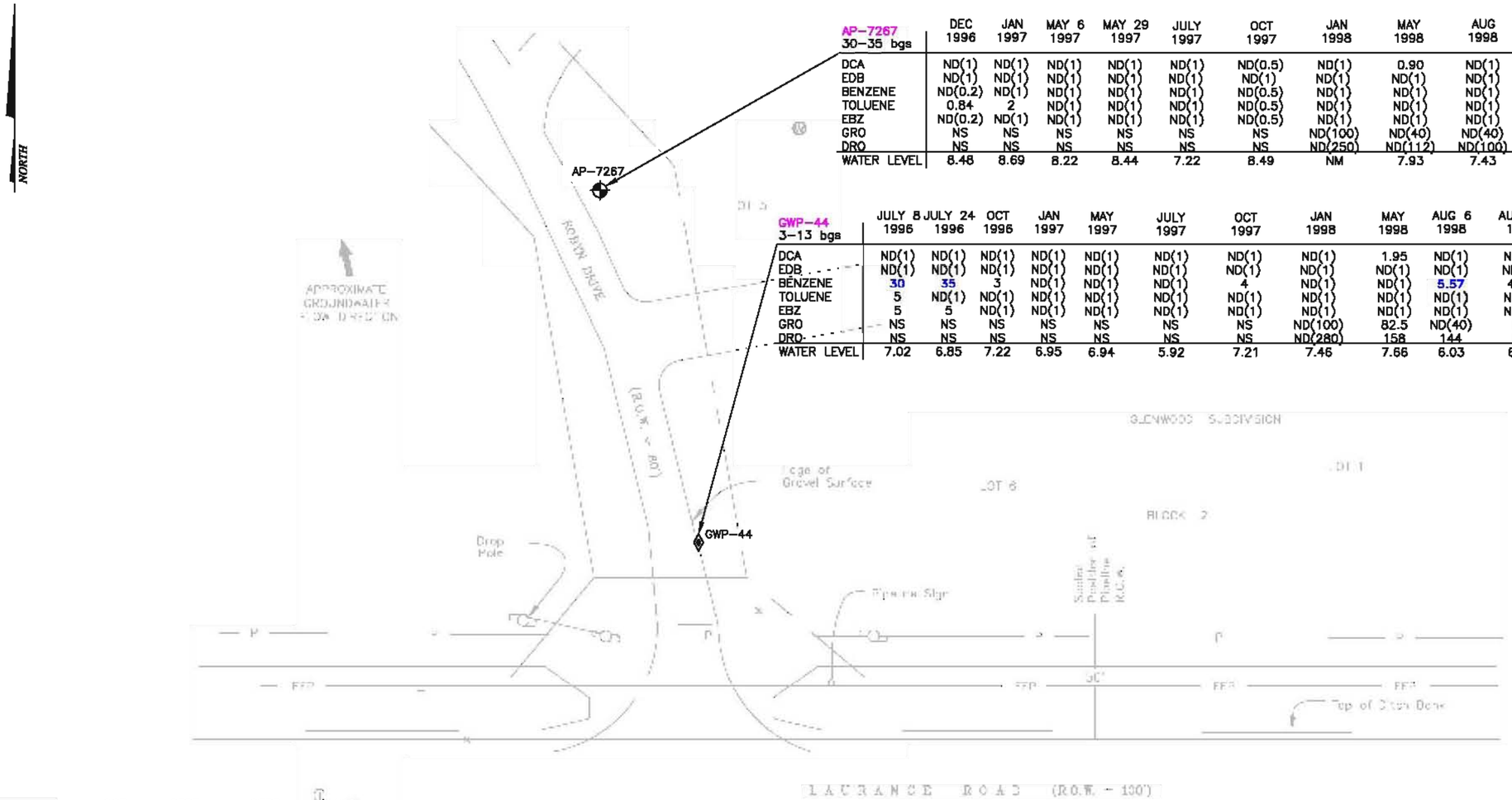
CORPS OF ENGINEERS ALASKA DISTRICT

Milepost 2.7 and 3.0 Excavation Area and Treatment Cell Locations

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
FFS, 2005 Decommissioning	6-10	9/06

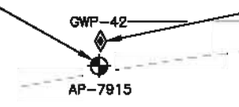
738AF



AP-7267 30-35 bgs	DEC 1996	JAN 1997	MAY 6 1997	MAY 29 1997	JULY 1997	OCT 1997	JAN 1998	MAY 1998	AUG 1998	AUG 1999	OCT 2000	SEPT 2001	SEPT 2002	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)	0.90	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.0002)	ND(1)	ND(0.0310)	ND(1)	ND(1)
BENZENE	ND(0.2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.4)
TOLUENE	0.84	2	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(0.2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
GRO	NS	NS	NS	NS	NS	NS	ND(100)	ND(40)	ND(40)	ND (90)	ND(90)	ND(90)	132	ND(90)
DRO	NS	NS	NS	NS	NS	NS	ND(250)	ND(112)	ND(100)	ND(313)	ND(313)	ND(505)	ND(495)	68.6
WATER LEVEL	8.48	8.69	8.22	8.44	7.22	8.49	NM	7.93	7.43	7.45	7.68	7.31	7.61	8.03

GWP-44 3-13 bgs	JULY 8 1996	JULY 24 1996	OCT 1996	JAN 1997	MAY 1997	JULY 1997	OCT 1997	JAN 1998	MAY 1998	AUG 6 1998	AUG 25 1998	AUG 1999	OCT 2000	SEPT 2001	SEPT 2002	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.95	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.002)	ND(1)	ND(0.0314)	ND(1)	ND(1)
BENZENE	30	35	3	ND(1)	ND(1)	ND(1)	4	ND(1)	ND(1)	5.57	4.43	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.4)
TOLUENE	5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	5	5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
GRO	NS	NS	NS	NS	NS	NS	NS	ND(100)	82.5	ND(40)	NA	ND (90)	ND(90)	ND(90)	ND(90)	ND(90)
DRO	NS	NS	NS	NS	NS	NS	NS	ND(280)	158	144	NA	ND(313)	ND(309)	ND(505)	ND(500)	109
WATER LEVEL	7.02	6.85	7.22	6.95	6.94	5.92	7.21	7.46	7.66	6.03	6.09	5.86	6.08	6.51	5.60	5.72

AP-7915 3-13	OCT 2000	SEPT 2001	SEPT 2002	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(0.5)
EDB	ND(1)	ND(0.0310)	ND(1)	ND(1)
BENZENE	37.5	6.26	ND(0.5)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	7.55	ND(1)	ND(1)	ND(1)
GRO	134	ND(90)	ND(90)	ND(90)
DRO	ND(316)	ND(500)	ND(500)	69.2
WATER LEVEL	3.44	4.00	3.20	3.47



GWP-42 3-13 bgs	JULY 8 1996	JULY 24 1996	OCT 1996	MAY 1997	JULY 1997	AUG 1997	OCT 1997	JAN 1998	MAY 1998	AUG 6 1998	AUG 25 1998	AUG 1999
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.49	ND(1)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.002)
BENZENE	300	150	59	ND(1)	6	23	9	4	ND(1)	10.1	11.8	2.5
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	4	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
GRO	NS	NS	NS	NS	NS	NS	NS	ND(0.100)	ND(40)	ND(40)	NA	ND (90)
DRO	NS	NS	NS	NS	NS	NS	NS	ND(290)	ND(108)	106	NA	ND(300)
WATER LEVEL	3.87	3.71	4.75	4.41	3.52	3.04	4.73	4.7	7.05	3.63	3.73	NM

LEGEND:

	DRINKING WATER WELL
AP-7915	MONITORING WELL
GWP-44	GROUNDWATER MONITORING PROBE
FEP	FAIRBANKS-EIELSON PIPELINE
P	POWER LINE
	PROPERTY LINE
bgs	BELOW GROUND SURFACE
DCA	1,2-DICHLOROETHANE
EDB	1,2-DIBROMOETHANE
EBZ	ETHYLBENZENE
GRO	GASOLINE RANGE ORGANICS
DRO	DIESEL RANGE ORGANICS
NA	ANALYSIS NOT PERFORMED
ND	NOT DETECTED (DETECTION LIMIT)
NM	NOT MEASURED
NS	NOT SAMPLED

MONITORING WELL KEY:

MONITORING WELL — AP-7915

SCREENED INTERVAL DEPTH IN FEET bgs — 3-13

SEE LEGEND FOR ABBREVIATIONS.

AP-7915 3-13	OCT 2000	SEPT 2001
DCA	ND(1)	ND(1)
EDB	ND(1)	ND(0.0310)
BENZENE	37.5	6.26
TOLUENE	ND(1)	ND(1)
EBZ	7.55	ND(1)
GRO	134	ND(0.0900)
DRO	ND(0.316)	ND(0.500)
WATER LEVEL	3.44	4.00

CONCENTRATIONS EXCEEDING REMEDIAL ACTION GOALS ARE SHOWN IN BOLD

WATER LEVEL MEASURED FROM TOP OF CASING

CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)

REMEDIAL ACTION GOALS IN µg/L

5	DCA
0.05	EDB
5	BENZENE
1,000	TOLUENE
700	EBZ

ADEC STANDARDS IN µg/L

1,300	GRO
1,500	DRO

ARMY ENVIRONMENTAL CENTER

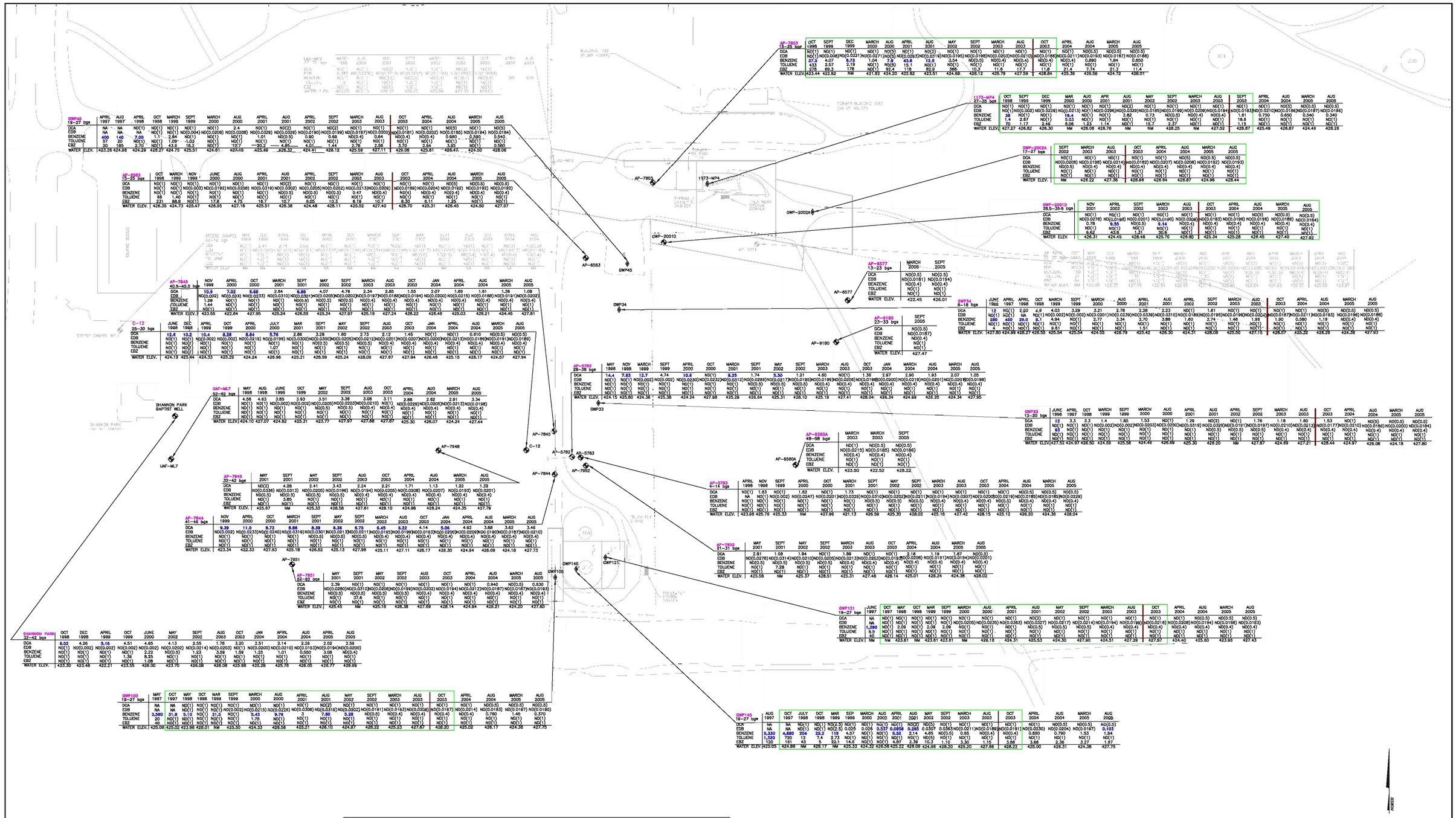
CORPS OF ENGINEERS ALASKA DISTRICT

Current Groundwater Results at Milepost 15.75

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE: FES, 2005 Annual Report | FIGURE: 6-11 | DATE: 9/06

738AF



AP-7803 15-25 bgs	OCT 1998	SEPT 1999	DEC 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(0.006)	ND(0.0221)	ND(0.0271)	ND(5)	ND(0.0263)	ND(0.0319)	ND(0.1195)	ND(0.0198)	ND(0.0203)	ND(0.0210)	ND(0.0186)	ND(0.0211)	ND(0.0193)	ND(0.0187)	ND(0.0188)
BENZENE	37.3	4.07	8.73	1.04	7.9	43.8	12.5	3.54	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	0.890	1.84	0.850
TOLUENE	433	2.57	2.19	ND(1)	ND(5)	15.1	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	278	89.3	178	ND(1)	92.4	118	82.0	36.6	10.3	11.8	17.7	11.8	21.4	7.74	21.3	11.4
WATER ELEV.	423.44	422.82	NM	421.92	424.20	422.82	423.51	424.69	428.12	425.79	427.59	428.84	425.39	426.56	424.72	428.01

1173-MP4 27-39 bgs	OCT 1998	SEPT 1999	DEC 1999	MAR 2000	AUG 2000	APR 2001	AUG 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	SEPT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(0.0229)	ND(0.0229)	ND(0.0213)	ND(1)	ND(0.0206)	ND(0.0329)	ND(0.0185)	ND(0.0198)	ND(0.0209)	ND(0.0194)	ND(0.0183)	ND(0.0210)	ND(0.0198)	ND(0.0187)	ND(0.0166)
BENZENE	39	ND(1)	ND(1)	19.4	ND(1)	ND(1)	2.82	0.73	ND(0.5)	ND(0.4)	ND(0.4)	1.81	0.750	0.650	0.340	0.340
TOLUENE	1.4	2.57	ND(1)	5.03	ND(1)	ND(1)	1.26	ND(1)	ND(1)	ND(1)	ND(1)	16.6	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	70	1.17	2.46	8.06	1.23	1.14	ND(1)	15.7	2.37	ND(1)	ND(1)	1.15	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.27	426.82	426.30	NM	428.08	426.76	NM	NM	428.25	NM	427.52	428.87	425.49	426.87	424.49	428.28

GWP-2002A 17-27 bgs	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	ND(0.0208)	ND(0.0198)	ND(0.0214)	ND(0.0182)	ND(0.0207)	ND(0.0208)	ND(0.0192)	ND(0.0153)
BENZENE	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	NM	428.22	427.38	428.89	428.64	428.87	424.96	428.44

GWP-2001D 26.5-35.6 bgs	NOV 2001	APRIL 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	ND(0.0278)	ND(0.0195)	ND(0.0201)	ND(0.0190)	ND(0.0208)	ND(0.0183)	ND(0.0196)	ND(0.0195)	ND(0.0189)	ND(0.0164)
BENZENE	0.78	9.55	ND(0.5)	9.14	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	6.62	43.8	1.31	39.6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	426.31	424.45	428.46	425.70	428.60	425.34	425.28	426.45	427.40	427.92

AP-6577 13-23 bgs	MARCH 2005	SEPT 2005
DCA	ND(0.5)	ND(0.5)
EDB	ND(0.0181)	ND(0.0154)
BENZENE	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)
EBZ	ND(1)	ND(1)
WATER ELEV.	422.45	426.01

AP-9180 23-33 bgs	SEPT 2005
DCA	ND(0.5)
EDB	ND(0.0187)
BENZENE	ND(0.4)
TOLUENE	ND(1)
EBZ	ND(1)
WATER ELEV.	427.47

GWP34 8-18 bgs	JUNE 1998	APRIL 1997	APRIL 1998	OCT 1998	MARCH 1999	SEPT 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	APRIL 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	12	NQ(1)	2.90	4.9	4.03	3.29	3.21	2.78	2.28	2.23	ND(1)	1.61	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	NA	ND(1)	ND(0.002)	ND(0.002)	ND(0.0201)	ND(0.0239)	ND(0.0330)	ND(0.0310)	ND(0.0189)	ND(0.0195)	ND(0.0198)	ND(0.0202)	ND(0.0187)	ND(0.0211)	ND(0.0193)	ND(0.0196)	ND(0.0188)
BENZENE	890	450	29.0	8.1	4.94	ND(1)	2.77	3.34	2.70	3.86	1.60	2.74	1.46	1.98	1.60	1.60	1.19	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	4	ND(1)	ND(1)	ND(1)	2.61	ND(1)	ND(1)	ND(1)	1.51	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.80	424.99	428.27	426.55	425.54	426.54	424.55	426.79	425.42	426.30	424.31	428.05	425.50	427.15	428.57	425.32	426.29	424.39	427.93

AP-7845 40.5-45.5 bgs	NOV 1999	APRIL 2000	OCT 2000	MARCH 2001	SEPT 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	JAN 2004	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	10.8	7.02	8.68	2.64	6.86	4.07	4.76	2.34	2.85	1.55	2.07	1.69	1.61	1.36	1.08
EDB	ND(0.002)	ND(0.0233)	ND(0.0233)	ND(0.0310)	ND(0.0301)	ND(0.0205)	ND(0.0202)	ND(0.0187)	ND(0.0188)	ND(0.0194)	ND(0.0200)	ND(0.0215)	ND(0.0215)	ND(0.0191)	ND(0.0202)
BENZENE	1.28	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	1.44	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	423.55	422.64	427.95	425.24	426.59	425.24	427.97	425.19	427.24	428.22	426.49	428.03	426.21	424.45	427.81

C-12 25-30 bgs	JUNE 1998	DEC 1998	APRIL 1999	OCT 1999	APRIL 2000	JULY 2000	MAR 2001	SEPT 2001	MAY 2002	SEPT 2002	AUG 2003	OCT 2003	JAN 2004	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	12.6	10.2	10.4	8.28	8.84	5.76	2.86	3.28	1.80	2.73	2.12	1.45	ND(1)	0.610	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(0.002)	ND(0.002)	ND(0.0219)	ND(0.0199)	ND(0.0300)	ND(0.0300)	ND(0.0205)	ND(0.0212)	ND(0.0201)	ND(0.0207)	ND(0.0209)	ND(0.0213)	ND(0.0195)	ND(0.0198)	ND(0.0188)
BENZENE	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	424.19	425.44	424.33	425.29	424.24	426.96	425.21	426.59	425.24	428.09	427.67	427.94	426.46	425.15	428.17	424.57	427.94

UAF-ML7 52-62 bgs	MAY 1998	UNE 1998	JUNE 1999	OCT 1999	MAY 2002	SEPT 2002	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	4.56	4.43	3.85	3.93	3.51	3.38	3.08	3.11	2.85	2.82	2.91	3.34
EDB	ND(1)	ND(1)	ND(0.002)	ND(0.002)	ND(0.0205)	ND(0.0203)	ND(0.0210)	ND(1)	ND(0.0229)	ND(0.0205)	ND(0.0213)	ND(0.0198)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV	424.10	427.07	424.82	423.31	423.77	427.97	427.96	427.87	425.30	426.07	424.24	427.44

AP-7948 32-42 bgs	MAY 2001	SEPT 2001	MAY 2002	SEPT 2002	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(2)	4.28	2.41	3.43	2.24	2.21	1.71	1.13	1.22	1.32
EDB	ND(0.0336)	ND(0.0311)	ND(0.0205)	ND(0.0196)	ND(0.0194)	ND(0.0205)	ND(0.0208)	ND(0.0207)	ND(0.0193)	ND(0.0201)
BENZENE	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	3.85	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.87	NM	425.33	428.58	427.81	428.10	424.98	428.24	424.35	427.79

AP-7844 41-46 bgs	NOV 1999	APRIL 2000	OCT 2000	MARCH 2001	SEPT 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	JAN 2004	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	9.39	11.0	8.72	8.86	8.39	6.36	5.75	6.45	5.32	4.14	5.06	4.92	3.68	3.62	3.48
EDB	ND(0.002)	ND(0.0233)	ND(0.0240)	ND(0.0319)	ND(0.0301)	ND(0.0213)	ND(0.0211)	ND(0.0183)	ND(0.0199)	ND(0.0193)	ND(0.0200)	ND(0.0209)	ND(0.0190)	ND(0.0187)	ND(0.0210)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	423.34	422.33	427.93	425.18	426.52	425.13	427.98	425.11	427.11	426.17	426.30	424.84	426.09	424.18	427.73

AP-7951 52-62 bgs	MAY 2001	SEPT 2001	MAY 2002	SEPT 2002	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	2.39	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.940	ND(0.5)	0.830
EDB	ND(0.0280)	ND(0.0310)	ND(0.0208)	ND(0.0199)	ND(0.0202)	ND(0.0194)	ND(0.0212)	ND(0.0187)	ND(0.0187)	ND(0.0193)
BENZENE	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	37.6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.45	NM	425.16	428.38	427.69	428.14	424.94	428.21	424.20	427.60

AP-5782 28-38 bgs	MAY 1998	NOV 1998	MARCH 1999	SEPT 1999	APRIL 2000	OCT 2000	MARCH 2001	SEPT 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	JAN 2004	MARCH 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	14.4	7.65	12.7	4.74	10.6	ND(1)	6.25	1.74	5.30	1.21	4.60	ND(1)	1.38	2.97	2.90	1.93	2.07	1.05
EDB	ND(1)	ND(1)	ND(0.002)	ND(0.002)	ND(0.0230)	ND(0.0232)	ND(0.0312)	ND(0.0286)	ND(0.0217)	ND(0.0185)	ND(0.0198)	ND(0.0206)	ND(0.0230)	ND(0.0312)	ND(0.0219)	ND(0.0201)	ND(0.0220)	ND(0.0198)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.80	424.35	425.86	424.36	425.38	424.24	427.98	426.29	428.64	425.31	428.10	425.19	427.41	428.04	426.34	424.99	428.20	424.34	427.95

AP-6560A 46-56 bgs	MARCH 2003	MARCH 2003	SEPT 2005
DCA	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(0.0215)	ND(0.0185)	ND(0.0186)
BENZENE	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)
WATER ELEV.	423.50	422.52	426.22

GWP33 12-20 bgs	JUNE 1998	APRIL 1997	APRIL 1998	OCT 1998	MARCH 1999	SEPT 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	APRIL 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	12	3.3	3.3	1.4	1.85	1.53	ND(1)	1.29	ND(2)	ND(1)	1.18	1.18	1.60	1.53	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(0.002)	ND(0.002)	ND(0.0203)	ND(0.0200)	ND(0.0319)	ND(0.0329)	ND(0.0191)	ND(0.0197)	ND(0.0210)	ND(0.0213)	ND(0.0177)	ND(0.0210)	ND(0.0186)	ND(0.0200)	ND(0.0184)
BENZENE	63	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.52	424.97	426.50	424.59	425.56	424.46	426.69	425.30	426.20	NM	427.87	424.69	427.21	428.44	424.97	426.08	424.18	427.80	

AP-5783 4-14 bgs	APRIL 1998	NOV 1998	SEPT 1999	APRIL 2000	OCT 2000	MARCH 2001	SEPT 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	ND(1)	1.83	ND(1)	1.82	ND(1)	1.73	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(0.5)	ND(0.5)
EDB	NA	ND(1)	ND(0.002)	ND(0.0247)	ND(0.0201)	ND(0.0329)	ND(0.0310)	ND(0.0202)	ND(0.0211)	ND(0.0194)	ND(0.0207)	ND(0.0208)	ND(0.0219)	ND(0.0185)	ND(0.0185)	ND(0.0229)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	423.89	425.78	425.33	NM	427.96	421.13	426.59	425.30	428.02	425.18	427.42	428.15	425.12	426.20	424.36	428.04

AP-7952 21-31 bgs	MAY 2001	SEPT 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	2.81	1.08	1.94	ND(1)	1.89	ND(1)	ND(1)	2.18	1.19	1.87	ND(0.5)
EDB	ND(0.0278)	ND(0.0314)	ND(0.0210)	ND(0.0205)	ND(0.0213)	ND(0.0203)	ND(0.0195)	ND(0.0208)	ND(0.0181)	ND(0.0194)	ND(0.0201)
BENZENE	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	7.28	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.98	NM	425.37	428.51	425.31	427.48	428.14	425.01	428.24	424.38	428.02

GWP121 19-27 bgs	JUNE 1997	OCT 1997	MAY 1998	OCT 1998	MAR 1999	SEPT 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EDB	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.0205)	ND(0.0235)	ND(0.0363)	ND(0.0327)	ND(0.0217)	ND(0.0214)	ND(0.0194)	ND(0.0198)	ND(0.0216)	ND(0.0208)	ND(0.0194)	ND(0.0198)	ND(0.0163)
BENZENE	1.280	ND(1)	2.09	ND(1)	2.09	2.06	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	5.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	40	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	NM	NM	423.61	NM	423.61	423.61	NM	426.18	424.31	425.53	424.30	427.90	424.51	427.29	427.87	424.40	425.90	423.88	427.43

SHANNON PARK 32-42 bgs	OCT 1998	DEC 1998	APRIL 1999	OCT 1999	JUNE 2000	MAY 2002	SEPT 2002	AUG 2003	OCT 2003	JAN 2004	APRIL 2004	AUG 2004	APRIL 2005	AUG 2005
DCA	8.02	4.26	5.16	4.51	4.65	4.13	2.55	1.78	3.20	2.51	2.14	2.26	2.02	2.59
EDB	ND(1)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.0202)	ND(0.0214)	ND(0.0203)	ND(1)	ND(0.0200)	ND(0.0210)	ND(0.0193)	ND(0.0194)	ND(0.0200)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	2.22	ND(0.5)	1.23	3.58	1.58	1.25	1.01	0.550	3.08	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	1.39	8.25	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	1.08	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	423.30	423.48	422.21	423.55	426.00	423.70	428.08	426.08	425.98	425.28	425.78	426.05	428.77	429.99

GWP100 19-27 bgs	MAY 1997	OCT 1997	MAY 1998	OCT 1998	MAR 1999	SEPT 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	ND(1)	ND(1)	ND(1)	ND(0.002)	ND(0.0215)	ND(0.0228)	ND(0.0306)	ND(0.0318)	ND(0.0202)	ND(0.0191)	ND(0.0183)	ND(0.0208)	ND(0.1917)	ND(0.0214)	ND(0.0193)	ND(0.0197)	ND(0.0180)
BENZENE	3.980	31.9	5.10	ND(1)	21.5	ND(1)	5.43	9.79	3	7.80	5.38	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	0.780	1.45	0.370
TOLUENE	20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.75	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	40	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.09	425.02	423.96	428.01	NM	425.30	424.33	426.56	425.21	426.10	424.87	428.22	425.23	427.87	428.20	425.02	426.17	424.35	427.75

GWP145 19-27 bgs	AUG 1997	OCT 1997	JULY 1998	OCT 1998	MAR 1999	SEP 1999	MARCH 2000	AUG 2000	APRIL 2001	AUG 2001	MAY 2002	SEPT 2002	MARCH 2003	AUG 2003	OCT 2003	APRIL 2004	AUG 2004	MARCH 2005	AUG 2005
DCA	NA	NA	ND(1)	ND(1)	ND(2.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	ND(1)	ND(1)	ND(2.5)	0.025	0.026	0.537	0.0858	0.265	0.0307	0.0365	ND(0.0211)	ND(0.0189)	ND(0.0191)	ND(0.0230)	ND(0.0204)	ND(0.0187)	0.103
BENZENE	5,530	4,680	204	23.2	119	4.57	ND(1)	5.32	2.14	4.65	ND(0.5)	0.65	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	0.890	0.790	1.94
TOLUENE	1,330	720	12	7.4	2.73	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.53	ND(1)
EBZ	120	161	43	5	22.1	14.6	ND(1)	ND(1)	4.87	2.39	10.3	1.10	3.30	1.15	3.88

ARMY ENVIRONMENTAL CENTER

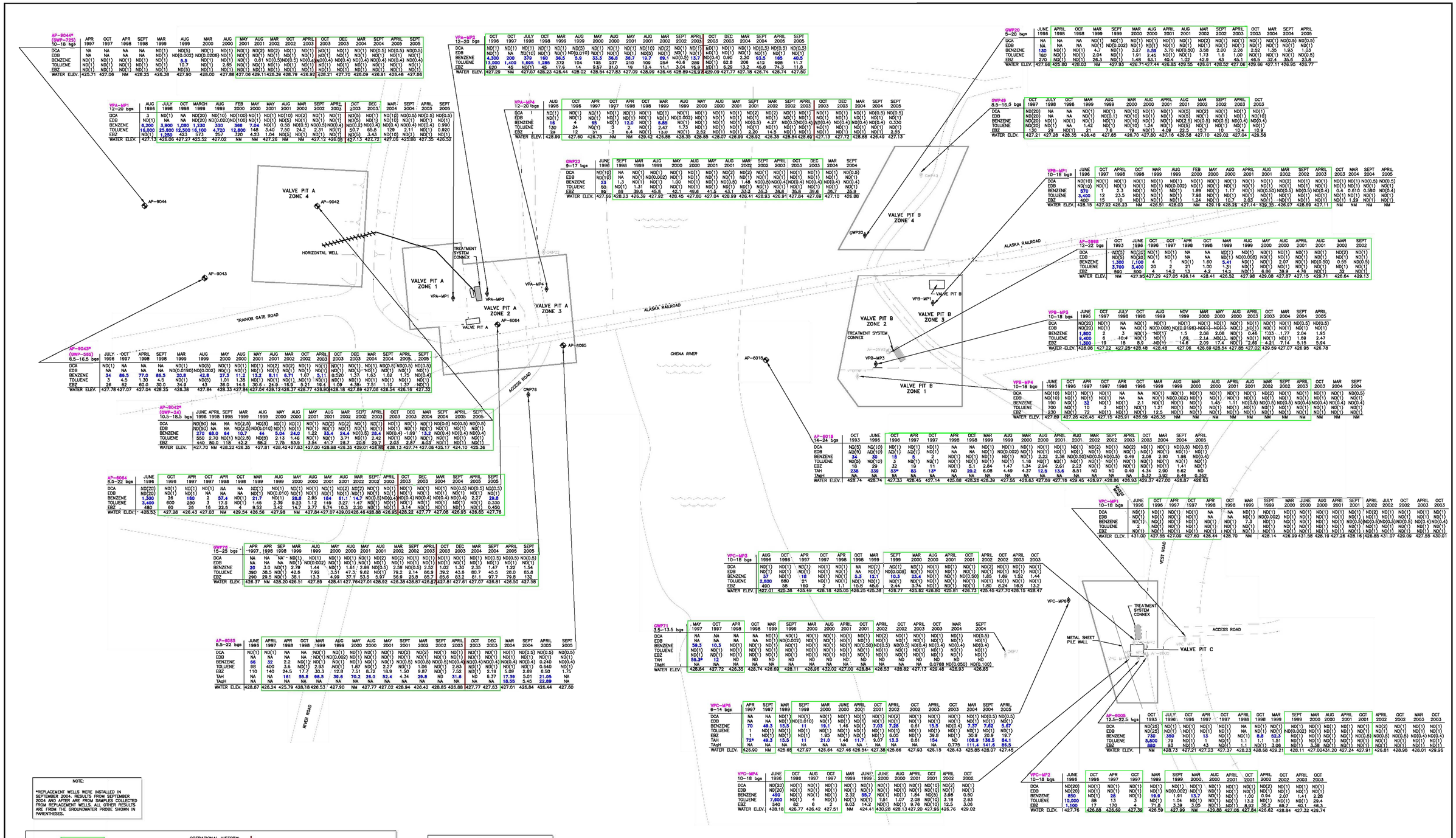
CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of ROD COC's in the Bedrock Aquifer near the Birch Hill Tank Farm

Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE: FES, 2005 Annual Report | PLATE: 6-II | DATE: 9/06

749AF



AP-9044* (GWP-725) 10–18 bgs	APR 1997	OCT 1997	APR 1998	SEPT 1998	MAR 1999	AUG 1999	MAR 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	OCT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	NA	NA	NA	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	NA	ND(1)	ND(0.002)	ND(0.0208)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	5.5	ND(1)	ND(1)	0.81	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	10.7	ND(1)	2.65	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	425.71	427.06	NM	426.25	426.38	427.90	428.00	427.88	427.06	429.11	428.39	428.79	426.92	428.21	427.70	426.09	426.91	426.48	427.56

VPA-MP1 12–20 bgs	AUG 1996	JULY 1998	OCT 1998	MARCH 1999	AUG 1999	FEB 2000	MAY 2000	MAY 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	3	ND(1)	NA	ND(20)	ND(10)	ND(100)	ND(1)	ND(1)	ND(10)	ND(2)	ND(1)	ND(1)	ND(5)	ND(1)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	NA	NA	ND(20)	ND(0.020)	ND(0.020)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)
BENZENE	6,200	3,900	1,080	1,230	330	366	7.04	ND(1)	0.58	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.2)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	0.990
TOLUENE	16,000	25,800	12,500	16,100	4,720	12,800	148	3.40	7.50	24.2	2.31	ND(1)	50.7	65.8	129	2.11	ND(1)	0.920
EBZ	ND(1)	1,250	423	573	257	320	4.23	1.04	ND(5)	ND(1)	ND(1)	ND(1)	ND(5)	3.43	ND(10)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.13	426.06	427.27	425.52	427.02	NM	NM	427.26	NM	NM	427.12	426.05	427.13	427.72	427.06	425.68	427.35	426.52

VPA-MP2 12–20 bgs	OCT 1996	OCT 1997	JULY 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	NA	ND(10)	ND(1)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	4,300	200	379	180	36.3	5.9	33.3	34.8	38.7	19.7	69.1	ND(0.5)	13.7	ND(0.4)	0.90	2.20	93.5	165	40.3
TOLUENE	13,000	1,400	1,695	1,285	372	104	135	237	210	109	254	40.6	289	ND(1)	82.8	206	412	668	11.7
EBZ	520	45	ND(1)	45	17.6	1.4	9.57	31.0	19	13.4	11.1	3.04	15.8	ND(1)	6.29	13.2	45.8	74.3	11.8
WATER ELEV.	427.29	NM	427.07	426.23	426.44	428.02	428.54	427.83	427.09	428.99	426.46	428.89	428.97	429.09	427.77	427.18	426.74	428.74	427.50

GWP20 5–20 bgs	JUNE 1996	APRIL 1998	OCT 1998	MAR 1999	SEPT 1999	MAR 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005
DCA	NA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	ND(1)	ND(0.0022)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	130	ND(1)	ND(1)	4.7	ND(1)	3.27	5.38	3.70	ND(0.90)	3.58	2.00	2.26	2.52	1.35	1.83	1.03
TOLUENE	160	ND(1)	ND(1)	2.04	ND(1)	1.91	2.45	ND(1)	ND(1)	1.73	1.6	1.00	ND(1)	ND(1)	ND(1)	ND(0.5)
EBZ	270	ND(1)	ND(1)	26.3	ND(1)	1.48	63.1	40.4	1.02	42.9	43	45.1	46.5	32.4	35.6	23.8
WATER ELEV.	427.56	425.80	428.03	NM	427.93	426.71	427.44	426.85	429.55	428.61	428.52	427.06	429.66	427.11	426.95	426.77

VPA-MP4 12–20 bgs	AUG 1995	OCT 1995	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	MAY 2001	SEPT 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	18	4	85	ND(1)	3	2	ND(1)	2.47	1.73	ND(1)	ND(1)	ND(0.5)	4.27	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	0.330	
TOLUENE	130	24	ND(1)	3	2	ND(1)	2.47	1.73	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
EBZ	39	12	31	3	6.4	ND(1)	13.9	ND(1)	2.52	ND(1)	ND(1)	ND(1)	2.20	14.5	ND(1)	ND(1)	ND(1)	2.55	
WATER ELEV.	428.99	427.80	426.75	NM	NM	429.42	426.98	428.35	428.88	428.07	426.99	428.92	426.35	428.54	428.66	427.13	427.72	428.88	426.49

GWP49 8.5–16.5 bgs	OCT 1997	JULY 1998	OCT 1998	MAR 1999	AUG 1999	MAR 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003
DCA	ND(20)	NA	NA	ND(1)	ND(1)	ND(10)	ND(10)	ND(1)	ND(5)	ND(2)	ND(1)	ND(1)	ND(1)
EDB	ND(20)	NA	NA	ND(1)	ND(0.1)	ND(10)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(10)
BENZENE	ND(20)	ND(1)	ND(1)	ND(1)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(2.5)	ND(0.5)	ND(0.5)	ND(0.4)
TOLUENE	ND(20)	ND(1)	NA	ND(1)	1.42	ND(1)	1.24	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	130	50	ND(1)	21	7.9	18	ND(1)	4.09	22.5	15	10	10.4	10.8
WATER ELEV.	427.21	427.28	426.35	428.48	427.85	426.70	427.80	427.16	429.58	427.10	428.02	427.04	429.58

GWP22 9–17 bgs	JUNE 1996	SEPT 1998	MAR 1999	AUG 1999	AUG 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004
DCA	ND(10)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	
EDB	ND(10)	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
BENZENE	23	1.3	ND(1)	ND(1)	1.00	ND(1)	ND(1)	ND(0.5)	1.48	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	
TOLUENE	50	ND(1)	1.31	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
EBZ	80	80	39.5	45.8	42.1	49.6	41.5	43.1	33.3	35.3	38.8	35.8	39.6	36.7	35.9
WATER ELEV.	427.66	426.23	426.39	427.92	428.45	427.80	427.04	428.99	428.41	428.93	426.91	427.84	427.59	427.10	426.88

VPB-MP1 10–18 bgs	JUNE 1996	OCT 1997	APRIL 1998	OCT 1998	MAR 1999	AUG 1999	FEB 2000	MAY 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005
DCA	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	570	1	2.3	ND(1)	1.17	ND(1)	1.89	ND(1)	1.17	ND(1)	ND(0.50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	0.4	0.610	0.590	ND(0.4)
TOLUENE	3,400	12	23.5	ND(1)	ND(1)	ND(1)	7.96	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	400	15	10	ND(1)	ND(1)	ND(1)	1.24	ND(1)	10.7	2.03	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.29	ND(1)	ND(1)
WATER ELEV.	428.15	427.92	428.23	NM	426.51	428.03	NM	429.19	428.28	427.14	429.35	426.97	428.69	427.11	NM	NM	NM	NM	

AP-9045* (GWP-595) 8.5–16.5 bgs	JULY 1996	OCT 1997	APRIL 1998	SEPT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	OCT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	NA	NA	NA	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	NA	ND(0.0190)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	34	88.5	77.0	86.5	20.8	42.8	27.3	11.2	13.2	8.11	6.71	1.67	5.11	0.520	1.37	1.63	1.82	1.75	ND(0.4)
TOLUENE	3	4.5	1.30	4.5	ND(1)	1.01	1.38	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	26	52	60.0	30.0	34.9	43	36.0	14.5	30.6	24.9	15.9	5.21	19.4	1.08	7.51	1.10	1.37	ND(1)	ND(1)
WATER ELEV.	427.78	427.07	427.04	428.25	426.38	427.84	428.33	427.84	427.04	429.12	428.37	428.77	428.90	428.18	427.89	427.08	428.54	426.16	427.32

VPB-MP3 10–18 bgs	JUNE 1996	OCT 1997	JULY 1998	APRIL 1998	AUG 1999	NOV 1999	MAR 2000	MAY 2000	AUG 2000	APRIL 2001	AUG 2001	OCT 2001	MAR 2002	SEPT 2002	APRIL 2003
DCA	ND(20)	ND(1)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(20)	ND(1)	NA	ND(1)	ND(0.0088)	ND(0.0198)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	1,800	2	3	ND(1)	ND(1)	1.5	2.08	2.08	ND(1)	0.48	1.03	1.77	2.04	1.95	
TOLUENE	9,400	6	10.4	ND(1)	ND(1)	1.69	2.14	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.88	2.47	
EBZ	3,300	19	18	8.3	ND(1)	14.6	2.09	17.4	ND(1)	2.89	4.23	7.1	5.15	5.84	
WATER ELEV.	428.08	427.22	427.25	428.48	428.46	427.06	426.69	428.54	427.85	427.02	429.59	427.07	426.95	426.78	

VPB-MP4 10–18 bgs	JUNE 1996	OCT 1996	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004
DCA	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EDB	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	190	ND(1)	32	ND(1)	2.1	ND(1)	ND(1)	ND(1)	ND(1)	1.45	1.11	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	700	ND(1)	10	3	ND(1)	1.21	ND(1)	ND(1)	ND(1)	ND(1)	1.18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	230	ND(1)	72	ND(1)	ND(1)	12.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.89	427.25	426.45	427.15	425.91	426.59	426.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

AP-9042* (GWP-24) 10.5–18.5 bgs	JUNE 1996	APRIL 1998	SEPT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(50)	NA	NA	ND(2.5)	ND(5)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(50)	NA	NA	ND(2.5)	ND(0.010)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	370	68.0	84	10.7	44	5.04	24.0	1.22	33.4	24.4	ND(0.5)	26.4	ND(0.4)	-1.95	13.2	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	550	2.70	ND(1)	ND(2.5)	ND(5)	2.13	1.46	ND(1)	ND(1)	3.71	ND(1)	2.42	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	440	80.0	118	42.2	68.2	7.75	53.9	3.54	41.7	28.7	20.6	29.7	2.03	2.87	5.03	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.70	NM	428.22	426.35	427.81	428.42	427.83	427.00	428.98	428.35	429.01	428.88	428.13	427.74	427.06	425.17	424.10	425.36

AP-6018 14–24 bgs	OCT 1993	JUNE 1996	OCT 1996	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005
DCA	ND(5)	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(5)	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	34	30	18	3	2	ND(1)	ND(1)	ND(1)	ND(1)	2.22	2.38	ND(0.500)	ND(0.5)	ND(0.5)	0.49	2.08	2.90	1.98	ND(0.4)	
TOLUENE	ND(5)	ND(10)	13	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.18	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
EBZ	18	18	29	32	11	ND(1)	5.1	2.84	1.47	1.34	2.94	2.61	2.23	ND(1)	ND(1)	ND(1)	1.41	ND(1)		
TAH	238	339	53*	83	13*	ND	20.2	6.08	4.49	4.37	12.5	13.6	8.51	ND	ND	0.49	4.34	2.90	8.62	ND
TAqH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.32	3.92	8.49	0.392
WATER ELEV.	428.74	428.74	427.33	426.45	427.14	425.88	428.26	428.39	427.55	428.63	427.89	427.18	429.45	428.97	428.86	426.93	429.37	427.00	428.87	426.63

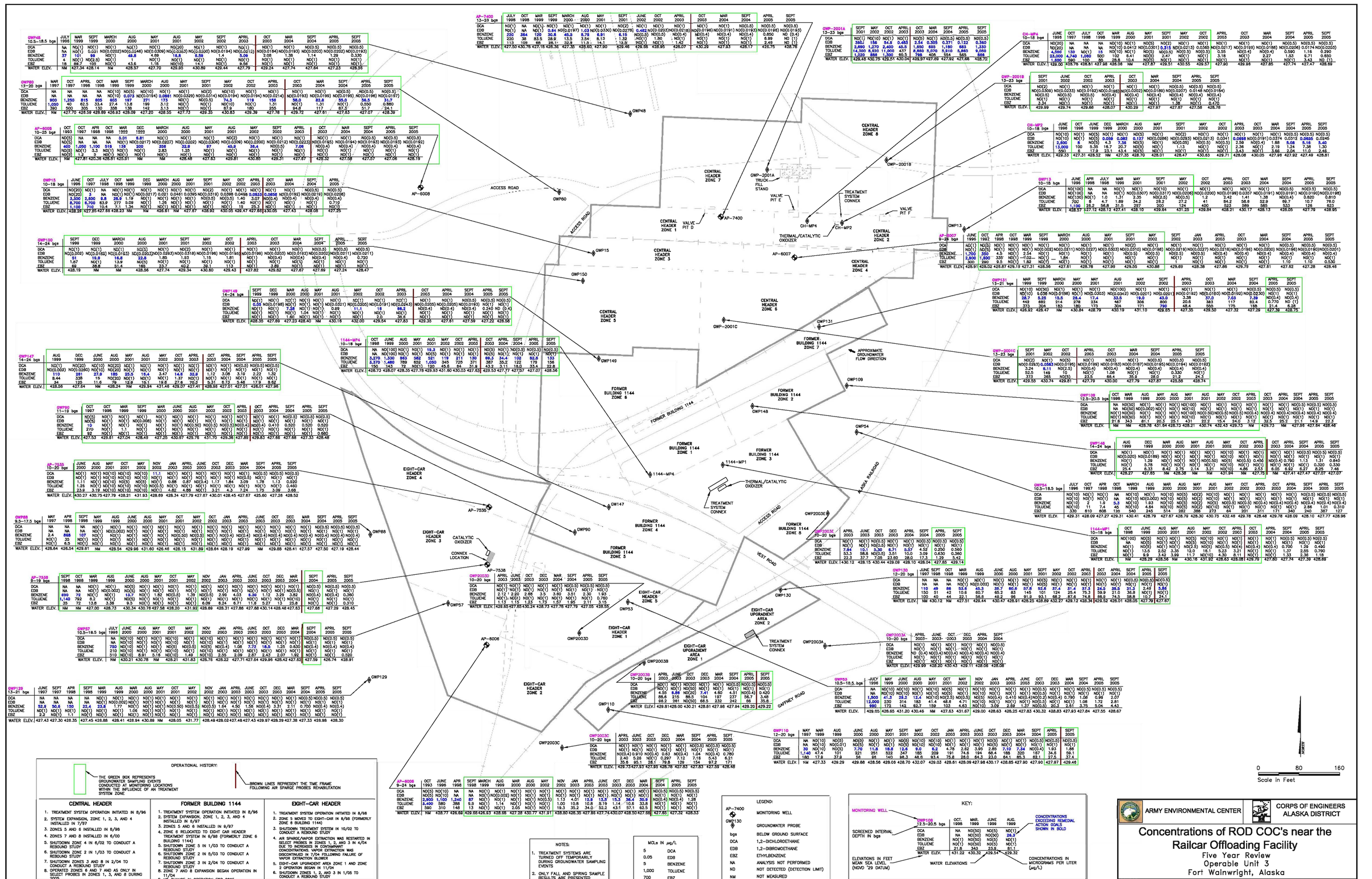
AP-6064 6.5–22 bgs	JUNE 1996	OCT 1995	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	MAY 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(20)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(20)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(0.010)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	1,500	26	180	2	57.4	ND(1)	21.7	ND(1)	28.6	2.95	184	61.1	14.7	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	2.27	29.8	
TOLUENE	3,400	600	280	3	17.5	ND(1)	1.49	2.39	9.23	1.12	149	3.27	1.47	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.330		
EBZ	480	60	26	16	22.5	4	9.52	3.42	14.7	2.77	9.74	10.3	2.20	ND(1)	ND(1)	3.14	ND(1)	ND(1)	ND(1)	0.450	
WATER ELEV.	428.53	427.28	426.43	427.03	NM	429.54	426.56	427.98	NM	427.84	427.07	429.02	428.46	428.88	426.95	428.22	427.77	427.06	426.95	428.85	427.78

AP-6015 14–24 bgs	JUNE 1996	OCT 1996	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	AUG 1999	MAY 2000	AUG 2000	APRIL 2001	AUG 2001	MAR 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005
DCA	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(10)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	1,800	2	3	ND(1)	0.48	1.03	1.77	2.04	1.95										
TOLUENE	9,400	6	10.4	ND(1)	ND(1)	1.69	2.14	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	3,300	19	18	8.3	ND(1)	14.6	2.09	17.4	ND(1)	2.89	4.23	7.1	5.15	5.84					
WATER ELEV.	428.08	427.22	427.25	428.48	428.46	427.06	426.69	428.54	427.85	427.02	429.59	427.07	426.95	426.78					

VPC-MP1 10–18 bgs	JUNE 1996	OCT 1995	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	SEPT 1999	MAR 2000	JUNE 2000	AUG 2000	APRIL 2001	SEPT 2001	APRIL 2002	JULY 2002	OCT 2002	APRIL 2003	OCT 2003
DCA	ND(1)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	7.3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	2	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	431.00	427.55	427.09	427.80	426.44	428.70	NM	428.14	426.99	431.58	428.19	427.26	428.16	426.85	431.07	429.09	427.55	430.01

VPC-MP3 10–18 bgs	AUG 1996	OCT 1996	APR 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	SEPT 1999	MAR 2000	AUG 2000	APRIL 2001	OCT 2001	APRIL 2002	OCT 2002	APRIL 2003	OCT 2003
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	NA	ND(1)	ND(0.0088)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	57	ND(1)	18	ND(1)	5.3	12.1	10.3	23.4	ND(1)	ND(1)	ND(1)	ND(0.50)	1.85	1.69	1.52	1.44
TOLUENE	2,600	880	21	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	490	58	180	2	1.1	10.8	46.6	2.44	3.74	ND(1)	ND(1)	ND(1)	1.80	8.24	16.8	13.2
WATER ELEV.	427.01	425.38	425.49	426.18	425.05	426.25	425.38	426.77	425.82	426.80	425.81	426.73	425.45	427.70	426.15	428.47

GWP71 3.5–13.5 bgs	MAY 1997	OCT 1997	APR 1998	OCT 1998	MAR 1999	SEPT 1999	MAR 2000	AUG 2000	APRIL 2001	OCT 2001	APRIL 2002	OCT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004
DCA	NA	NA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)
EDB	NA	NA	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	59.3	10.3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND



GWP48 10.5–18.5 bgs	JULY 1998	MAR 1999	SEPT 1999	MARCH 2000	AUG 2000	MAY 2001	AUG 2001	MAY 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	ND(1)	0.031	ND(0.0202)	ND(0.0246)	ND(0.0309)	ND(0.0363)	ND(0.0200)	ND(0.0194)	ND(0.0212)	ND(0.0184)	ND(0.0193)	ND(0.0203)	ND(0.0202)	ND(0.0193)
BENZENE	37	101	99	ND(1)	48.8	4.69	16.8	6.59	1.4	5.09	2.08	1.36	1.14	1.29	0.330
TOLUENE	4	ND(1)	ND(2.5)	ND(1)	1	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	18	89.7	120	ND(1)	43.6	1.18	ND(10)	14.1	ND(1)	9.06	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	NM	427.34	428.14	NM	428.57	427.70	429.85	430.89	429.44	427.79	429.24	427.74	427.64	427.23	428.55

GWP80 12–20 bgs	MAR 1997	OCT 1997	APRIL 1998	OCT 1998	MAR 1999	SEPT 1999	MARCH 2000	AUG 2000	MAY 2001	AUG 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	NA	NA	NA	NA	NA	ND(10)	ND(5)	ND(10)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	NA	NA	ND(10)	0.073	ND(0.0194)	0.0861	ND(0.0329)	ND(0.0214)	ND(0.0194)	ND(0.0214)	ND(0.0193)	ND(0.0195)	ND(0.0196)	ND(0.0197)	
BENZENE	900	1,250	815	805	603	197	271	173	ND(1)	ND(1)	ND(0.5)	74.3	119	156	58.6	82.8	55.0	56.3	31.7
TOLUENE	1,050	40	62.5	33.4	27.4	13.8	199	3.12	ND(1)	ND(1)	ND(1)	ND(1)	1.21	ND(1)	1.31	ND(1)	0.530	0.550	0.860
EBZ	390	500	305	130	358	138	142	3.13	ND(1)	ND(1)	ND(1)	87.9	180	255	84.8	117	87.3	51.7	24.1
WATER ELEV.	NM	427.70	428.59	428.89	428.93	428.09	427.20	428.55	427.73	429.35	430.83	429.39	427.78	429.72	427.61	427.83	427.07	428.39	

AP-6008 10–25 bgs	OCT 1993	OCT 1997	APR 1998	OCT 1998	MAR 1999	DEC 1999	MARCH 2000	AUG 2000	MAY 2001	AUG 2001	MAY 2002	AUG 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(5)	NA	NA	NA	8.01	8.81	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(5)	NA	NA	NA	ND(1)	ND(0.0217)	ND(0.0202)	ND(0.0206)	ND(0.0309)	ND(0.0363)	ND(0.0200)	ND(0.0194)	ND(0.0212)	ND(0.0223)	ND(0.0185)	ND(0.0194)	ND(0.0193)	ND(0.0193)	ND(0.0192)
BENZENE	400	1,050	1,100	918	136	200	358	32.9	97	45.9	36.4	ND(0.5)	7.06	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	
TOLUENE	ND(5)	ND(1)	1.3	3.3	ND(1)	ND(1)	2.83	1.25	ND(1)	ND(1)	ND(1)	ND(1)	2.41	ND(1)	ND(1)	ND(1)	34.3	ND(1)	ND(1)
EBZ	ND(5)	1.2	5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
WATER ELEV.	NM	427.81	430.35	428.51	423.51	NM	NM	428.48	427.83	429.81	430.85	429.31	427.87	429.32	427.59	427.57	427.06	428.19	

GWP15 10–18 bgs	JUNE 1999	OCT 1999	JULY 1998	OCT 1998	MAR 1999	DEC 1999	MARCH 2000	AUG 2000	MAY 2001	SEPT 2001	AUG 2002	OCT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT. 2004	APRIL 2005
DCA	ND(20)	ND(1)	NA	NA	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	
EDB	ND(20)	3	NA	NA	ND(1)	ND(1)	ND(0.0217)	0.021	0.0461	0.0365	ND(0.0319)	0.0396	0.0498	0.0833	0.0858	ND(0.0192)	ND(0.0219)	ND(0.0208)
BENZENE	3,500	2,800	9.8	26.9	1.19	ND(1)	2.83	1.25	ND(1)	ND(1)	ND(0.5)	ND(0.5)	1.40	3.07	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	
TOLUENE	8,700	6,700	63.9	277	5.09	ND(1)	1.26	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.40	ND(1)	ND(1)	ND(1)	ND(1)	0.710	
EBZ	1,100	710	10.4	7.6	7.1	1.34	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	19	25.3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
WATER ELEV.	428.29	427.95	427.68	428.23	NM	NM	426.61	NM	427.87	428.92	430.05	428.47	427.68	430.05	427.45	428.08	427.25		

GWP150 14–24 bgs	SEPT 1999	DEC 1999	MARCH 2000	AUG 2000	MAY 2001	SEPT 2001	MAY 2002	SEPT 2002	APRIL 2003	OCT 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(0.0202)	ND(0.0195)	ND(0.0192)	ND(0.0223)	ND(0.0203)	ND(0.0183)	ND(0.0318)	ND(0.0196)	ND(0.0195)	ND(0.0203)	ND(0.0192)	ND(0.0202)	ND(0.0211)	ND(0.0211)
BENZENE	51	19.9	16.8	22.8	1.85	1.03	1.15	1.81	ND(1)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	0.720
TOLUENE	1.87	ND(1)	13.9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	69	38.8	51.4	185	23.7	40.2	38	113	ND(1)	3.88	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	428.19	NM	NM	428.56	427.74	429.34	430.80	428.43	427.82	429.82	427.67	427.69	427.24	428.47

GWP149 14–24 bgs	SEPT 1999	DEC 1999	MAR 2000	AUG 2000	MAY 2001	AUG 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	APRIL 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	0.86	ND(0.0196)	ND(1)	ND(1)	ND(1)	ND(0.0321)	ND(0.0200)	ND(0.0197)	ND(0.0243)	ND(0.0205)	ND(0.0194)	ND(0.0203)	ND(0.0193)	ND(0.0193)
BENZENE	ND(1)	ND(1)	7.28	ND(1)	ND(1)	0.99	11.1	19	66.2	ND(0.4)	ND(0.4)	ND(0.4)	0.240	ND (0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	1.04	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	1.65	ND(1)	ND(1)	ND(1)	ND(1)	2.9	36.8	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	428.35	427.69	427.23	428.40	NM	430.16	432.00	429.54	427.83	429.35	427.81	427.59	427.22	428.58

GWP147 14–24 bgs	AUG 1999	DEC 1999	JUNE 2000	AUG 2000	MAY 2001	AUG 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	APRIL 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(20)	ND(10)	ND(20)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(0.0202)	ND(0.0260)	ND(10)	ND(20)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	110	281	27.8	185	25.5	15.4	3.47	14.6	32.6	1.12	3.08	3.16	2.22	1.32
TOLUENE	8.44	338	18	ND(20)	ND(1)	ND(1)	ND(1)	1.37	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	34	198	11.6	79	12.8	19.1	19.6	27.6	20.2	5.31	5.73	5.46	17.8	8.82
WATER ELEV.	428.56	427.84	NM	428.24	NM	429.94	431.46	429.07	427.41	428.98	427.01	427.01	426.01	427.96

1144-MP4 10–18 bgs	OCT 1998	JUNE 1999	AUG 2000	MAY 2001	AUG 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	APRIL 2004	OCT 2004	APRIL 2005	SEPT 2005
DCA	NA	ND(100)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	ND(100)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
BENZENE	3,270	1,330	883	582	521	119	211	130	99.3	34.4	102	92.8	133
TOLUENE	3,370	1,480	789	652	1,090	345	725	371	387	35.2	122	179	156
EBZ	150	143	72	ND(1)	120	45.8	64	31.8	43.2	3.11	18.0	33.4	22.8
WATER ELEV.	428.73	428.07	428.35	427.78	429.93	431.60	430.03	427.63	429.53	427.77	427.57	427.07	428.56

GWP90 11–19 bgs	OCT 1997	OCT 1998	MAR 1999	SEPT 1999	MAR 2000	JUNE 2000	AUG 2000	MAY 2001	OCT 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	APRIL 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(5)	ND(1)	ND(0.008)	ND(1)	ND(0.008)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	10	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.50)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(0.4)	0.410	0.520	0.520	0.520
TOLUENE	270	ND(1)	ND(1)	1.1	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	92	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.980
WATER ELEV.	427.53	429.61	427.04	428.49	427.25	430.97	429.76	431.70	429.36	427.89	429.83	427.66	427.68	427.53	428.48		

AP-7535 19–20 bgs	JUNE 1998	AUG 1998	MAY 1999	OCT 1999	AUG 2000	JUNE 2000	AUG 2001	MAY 2001	OCT 2001	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(0.0202)	ND(0.0206)	ND(0.0194)	ND(0.0212)	ND(0.0200)	ND(0.0194)	ND(0.0214)	ND(0.0184)	ND(0.0193)	ND(0.0203)	ND(0.0202)	ND(0.0193)					
BENZENE	2.4	868	107	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	
TOLUENE	ND(1)	35	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
EBZ	ND(1)	6.5	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.980
WATER ELEV.	428.64	426.54	429.61	NM	428.54	429.96	431.60	426.46	428.15	431.89	428.64	428.19	427.89	NM	429.88	428.41	427.57	427.50	427.19	428.44

AP-7538 9–19 bgs	SEPT 1998	OCT 1998	MAR 1999	AUG 1999	JUNE 2000	AUG 2000	MAY 2001	OCT 2001	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	ND(1)	ND(0.0202)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	699	72	ND(1)	13.7	ND(1)	1.82	ND(0.5)	1.39	ND(0.5)	2.98	4.03	8.30	1.12	3.29	3.82	ND(0.4)	ND(0.4)	0.360	
TOLUENE	1,140	792	8.2	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	
EBZ	35	72	13.8	3.38	9.5	ND(1)	ND(1)	ND(1)	6.09	8.24	6.71	11.8	5.27	1.3	23.8	ND(1)	ND(1)	0.310	
WATER ELEV.	NM	NM	427.00	428.73	430.34	430.78	427.58	428.20	431.92	428.89	428.11	427.86	427.68	430.14	428.48	427.83	427.68	427.59	428.45

GWP57 10.5–18.5 bgs	JULY 1998	JUNE 2000	AUG 2000	MAY 2001	OCT 2001	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	ND(10)	ND(1)	ND(1)	ND(10)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	ND(10)	ND(1)	ND(1)	ND(10)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	750	ND(10)	ND(1)	ND(1)	ND(8)	ND(0.5)	ND(9)	ND(0.4)	1.08	7.72	18.5	1.25	0.830	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	210	ND(10)	ND(1)	ND(1)	ND(10)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	310	ND(10)	8.91	5.16	ND(10)	1.49	ND(10)	2.55	2.09	2.87	2.43	2.07	1.92	ND(1)	ND(1)	0.320
WATER ELEV.	NM	430.21	430.78	NM	428.21	431.83	428.76	428.22	427.71	427.54	429.98	428.42	427.82	427.59	426.74	428.91

GWP129 13–21 bgs	JUNE 1997	SEPT 1997	APR 1998	SEPT 1998	MAR 1999	AUG 1999	MAR 2000	AUG 2000	MAY 2001	OCT 2001	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	NA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	NA	ND(1)	ND(0.0202)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	52.6	50.6	150	23.4	23.8	1.77	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.64	4.50	1.56	ND(0.4)	3.31	2.1	0.700	ND(0.4)	ND(0.4)	
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	1.06	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	2.2	ND(1)	1.1	ND(1)	1.65	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	427.43	427.30	428.35	427.45	428.88	428.41	428.94	430.88	NM	428.05	431.77	428.49	428.02	427.48	427.43	429.97	428.29	427.38	427.33	428.98	428.30

AP-5006 9–24 bgs	OCT 1993	JUNE 1995	APR 1998	SEPT 1998	MARCH 1999	AUG 1999	MAR 2000	AUG 2000	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(5)	ND(10)	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(5)	ND(10)	NA	NA	ND(1)	ND(0.002)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	2,900	1,100	1,240	87	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	1.1	4.01	12.8	13.8	15.3	38.4	30.8	ND(0.5)	ND(0.5)	ND(0.5)
TOLUENE	2,400	580	388	9.9	ND(1)	1.14	ND(1)	ND(1)	ND(1)	1.00	10.8	10.8	8.19	1.14	10.8	33.8	ND(1)	ND(1)	ND(1)
EBZ	590	310	148	13	ND(1)	ND(1)	2.05	ND(1)	ND(1)	19.3	38.2	34.0	52.2	43.1	57.1	62.3	ND(1)	ND(1)	ND(1)
WATER ELEV.	NM	428.77	426.69	429.68	426.93	428.68	427.28	430.77	431.31	428.80	428.35	427.86	427.68	430.27	428.50	427.88	427.85	427.32	428.53

GWP2003D 10–20 bgs	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	2.12	2.20	2.88	3.5	3.80	3.51	2.30	1.93
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.760
EBZ	1.13	1.15	1.53	1.73	1.57	1.95	2.11	3.15
WATER ELEV.	429.85	427.85	430.24	428.73	427.78	427.79	427.05	428.55

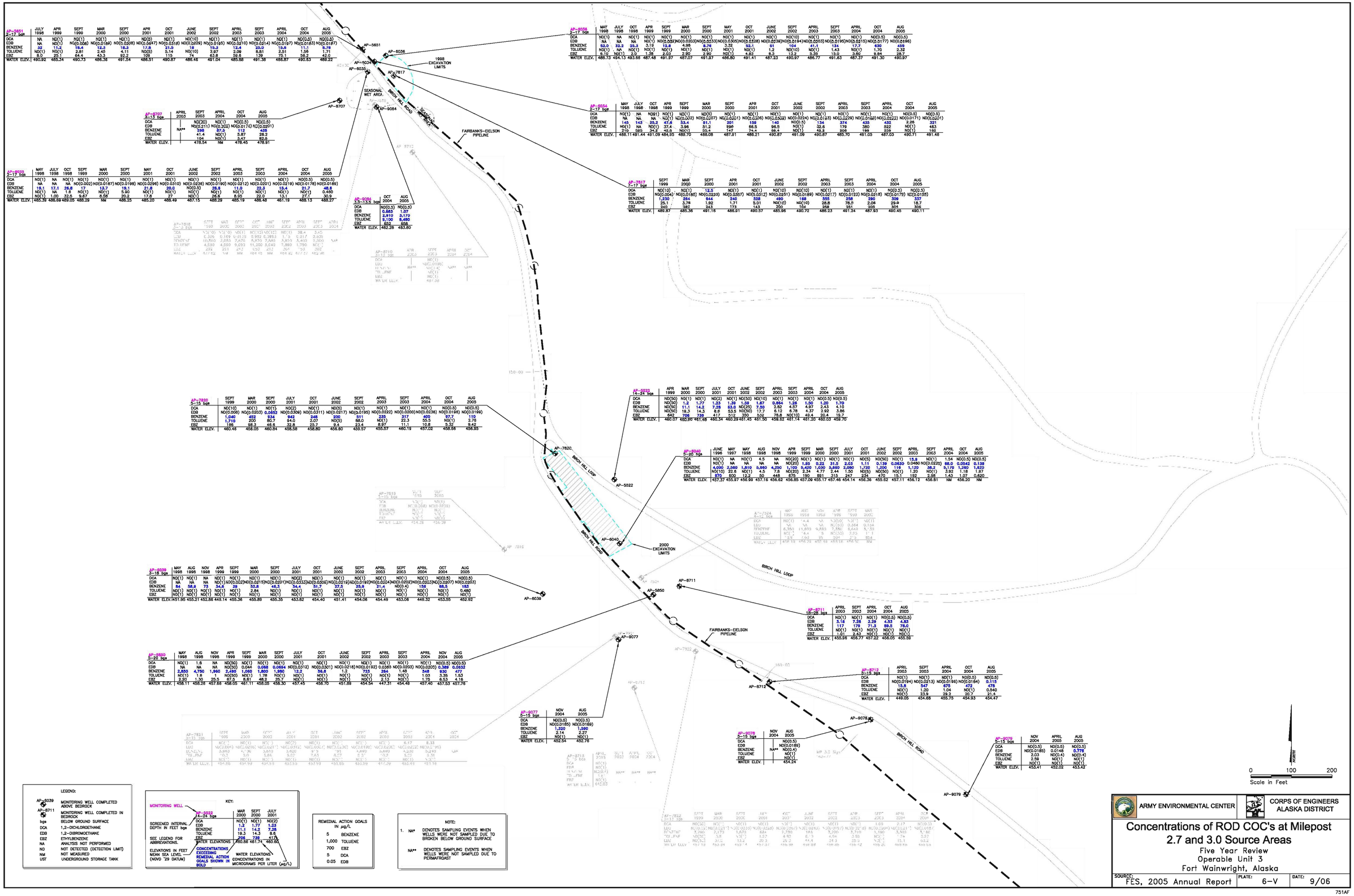
GWP130 12–20 bgs	JUNE 1997	SEPT 1998	OCT 1998	MAR 1999	AUG 1999	JUNE 2000	AUG 2000	MAY 2001	SEPT 2001	MAY 2002	OCT 2002	APRIL 2003	OCT 2003	APRIL 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	NA	NA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	NA	ND(1)	ND(0.0202)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	110	49	86	55.6	45.3	89.7	60.8	57.8	55.6	37.4	31.4	27.1	24.8	25.0	31.1	2.49	5.86
TOLUENE	150	51	42	53.6	60.7	65.2	83	145	101	124	25.4	75.3	59.9	21.0	36.8	ND(1)	ND(1)
EBZ	120	40	44	29	35.9	58.4	86	91.9	93	68.4	67.9	74.5	56.8	73.5	58.8	10.1	1.4
WATER ELEV.	NM	430.12	NM	427.31	428.44	430.41	428.81	428.25	428.89	432.27	428.12	428.34	429.52	428.01	428.05	427.79	427.97

GWP2003B 10–20 bgs	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(50)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(50)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	4.55	8.88	ND(20)	7.41	4.60	4.31	ND(0.4)	0.420
TOLUENE	86.4	215	88.5	104	187	237	56.2	3.48
EBZ	68.2	261	ND(50)	68.5	232	242	66	35.8
WATER ELEV.	429.51	428.00	430.21	428.81	427.98	427.84	428.20	429.22

GWP2003A 10–20 bgs	APRIL 2003	JUNE 2003	OCT. 2003	DEC 2003	APRIL 2004	SEPT 2004
DCA	NA	NA	NA	ND(1)	ND(1)	ND(0.5)
EDB	NA	NA	NA	ND(1)	ND(1)	ND(1)
BENZENE	ND (0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	429.99	428.20	430.43	428.11	428.06	428.08

GWP2003C 10–20 bgs	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	ND(0.4)	0.910	ND(0.4)	0.62	ND(0.4)	1.04	ND(0.4)	0.780
TOLUENE	2.40	5.26	ND(1)	0.297	7.12	7.18	5.43	6.21
EBZ	35.6	95.1	28.1	79.8	129	154	97.2	171
WATER ELEV.	429.73	427.93	427.95	428.76	427.83	427.83	427.59	428.48

GWP93 10.5–18.5 bgs	JULY 1998	MAY 1999	JUNE 2000	AUG 2000	MAY 2001	OCT 2001	MAY 2002	NOV 2002	JAN 2003	APRIL 2003	JUNE 2003	OCT 2003	DEC 2003	MAR 2004	SEPT 2004	APRIL 2005	SEPT 2005
DCA	NA	ND(10)	ND(10)	ND(1)	ND(10)	ND(5)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	ND(10)	ND(1)	ND(1)	ND(10)	ND(5)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BENZENE	1,500	41.3	33.2	12.4	ND(10)	ND(5)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.4)	0.790	1.08	0.99	2.07	
TOLUENE	13,000	330	314	183	41.4	48.8	4.71	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.08	1.72	2.81	
EBZ	990	172	142	62.7	159	103	5.62	ND(10)	3.09	2.89	1.37	ND(0.5)	20.2	2.81	3.75	5.04	4.43
WATER ELEV.	429.05



AP-5851 2-17 bgs	JULY 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	APR 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.2)	ND(0.5)
EDB	NA	ND(1)	ND(0.008)	ND(0.0189)	ND(0.0208)	ND(0.0647)	ND(0.0318)	ND(0.229)	ND(0.0193)	ND(0.0210)	ND(0.0214)	ND(0.0197)	ND(0.0183)	ND(0.0187)
BENZENE	32	11.2	19.4	12.2	16.2	17.8	21.2	18	19.3	12.4	25.2	13.8	11.1	5.78
TOLUENE	ND(1)	ND(1)	2.81	2.45	4.11	ND(3)	5.14	ND(10)	2.97	2.09	8.81	2.51	1.56	1.71
EBZ	8.0	20.1	64.4	43.3	92.2	109	119	74	63.8	59.6	139	75.1	58.2	42.0
WATER ELEV.	490.92	485.34	490.73	486.36	491.54	486.51	490.87	486.46	491.04	485.88	491.38	486.87	490.83	489.22

AP-8036 2-17 bgs	MAY 1998	JULY 1998	OCT 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	MAY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	ND(1)	ND(0.002)	ND(0.0203)	ND(0.0233)	ND(0.0305)	ND(0.0328)	ND(0.0238)	ND(0.0194)	ND(0.0203)	ND(0.0195)	ND(0.0215)	ND(0.0177)	ND(0.0196)
BENZENE	52.0	32.2	33.3	3.10	12.8	4.98	8.76	3.32	52.1	91	104	41.1	134	17.7	630	458
TOLUENE	ND(1)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.2	ND(10)	ND(1)	1.43	ND(1)	1.70	2.32
EBZ	5.10	ND(1)	2.0	1.38	2.02	2.90	2.90	ND(1)	4.83	5.3	13.2	3.35	13.0	3.90	8.84	28.7
WATER ELEV.	488.73	484.13	493.68	487.48	491.97	487.07	491.97	486.80	491.41	487.23	490.97	486.77	491.63	487.37	491.30	490.97

AP-8084 2-17 bgs	MAY 1998	JULY 1998	OCT 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	APR 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	NA	ND91)	ND(1)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	ND(1)	ND(0.002)	ND(0.0207)	ND(0.0201)	ND(0.0206)	ND(0.0206)	ND(0.0202)	ND(0.0224)	ND(0.0193)	ND(0.0229)	ND(0.0182)	ND(0.0222)	ND(0.0171)	ND(0.0201)
BENZENE	145	143	25.2	47.6	33.4	81.1	201	158	140	ND(0.5)	134	374	435	432	2.26	321
TOLUENE	ND(1)	NA	ND(1)	37.4	3.96	51.2	290	66.5	96.5	ND(1)	32.6	179	380	522	ND(1)	453
EBZ	210	285	34.2	42.5	ND(1)	53.4	147	74.4	88.4	ND(1)	48.2	208	199	259	ND(1)	193
WATER ELEV.	488.11	491.44	481.09	484.35	489.70	488.08	487.91	486.21	490.87	491.09	490.87	485.70	481.03	487.03	490.71	491.46

AP-7817 7-17 bgs	SEPT 1999	MAR 2000	SEPT 2000	APR 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(10)	ND(1)	12.5	ND(1)	ND(1)	ND(10)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(0.004)	ND(0.0185)	ND(0.0223)	ND(0.0357)	ND(0.0312)	ND(0.0251)	ND(0.0169)	ND(0.0217)	ND(0.0192)	ND(0.0218)	ND(0.0179)	ND(0.0125)
BENZENE	1,250	264	644	240	338	490	198	555	258	290	309	337
TOLUENE	25.1	3.76	1.92	1.71	5.01	ND(10)	ND(10)	28.8	78.5	2.06	29.9	18.7
EBZ	240	208	243	134	258	250	134	258	251	208	324	306
WATER ELEV.	489.87	485.36	491.16	486.91	490.57	485.98	490.72	486.23	491.24	487.93	490.45	490.11

AP-9084 3.5-13.5 bgs	OCT 2004	AUG 2005
DCA	ND(0.5)	ND(0.5)
EDB	0.883	1.07
BENZENE	2,910	3,170
TOLUENE	9,100	8,490
EBZ	602	508
WATER ELEV.	482.28	483.50

AP-7820 5-15 bgs	SEPT 1999	MAR 2000	SEPT 2000	JULY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(10)	ND(1)	ND(1)	ND(2)	ND(1)	ND(5)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(0.006)	ND(0.0203)	0.0850	ND(0.0309)	ND(0.0311)	ND(0.0217)	ND(0.0195)	ND(0.0222)	ND(0.0200)	ND(0.0236)	ND(0.0188)	ND(0.0196)
BENZENE	1,040	453	534	842	246	200	511	235	317	409	97.7	110
TOLUENE	1,710	200	80.7	94.6	2.07	ND(5)	86.0	ND(1)	22.3	55.5	ND(1)	2.76
EBZ	186	98.3	46.6	32.8	25.7	9.4	23.4	8.97	11.1	10.8	5.32	9.42
WATER ELEV.	460.46	458.05	460.84	458.58	458.80	456.80	459.57	455.57	460.19	457.02	458.56	456.93

AP-8262 14-24 bgs	APR 1999	MAR 2000	SEPT 2000	JULY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(50)	ND(1)	ND(1)	ND(2)	ND(1)	ND(50)	ND(10)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(50)	1.2	1.77	1.23	1.39	1.28	1.87	0.854	1.28	1.50	1.20	1.70
BENZENE	ND(50)	11.1	14.2	7.28	63.0	ND(25)	7.50	2.82	4.57	4.97	2.43	4.10
TOLUENE	ND(50)	19.3	14.3	8.6	53.5	ND(50)	17.7	6.12	6.78	4.37	2.92	3.86
EBZ	642	706	739	417	512	350	532	78.8	ND(10)	49.4	20.4	19.7
WATER ELEV.	460.07	460.60	461.46	460.34	460.29	461.45	461.50	456.82	461.14	461.20	460.03	459.70

AP-8040 5-20 bgs	JUNE 1996	MAY 1997	MAY 1998	AUG 1998	NOV 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	JULY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	NA	NA	NA	NA	ND(20)	ND(1)	ND(1)	ND(1)	ND(1)	ND(5)	ND(50)	ND(1)	15.8	ND(1)	1.54	ND(0.5)	ND(0.5)
EDB	ND(1)	NA	NA	NA	NA	ND(20)	1.85	0.22	31.5	2.03	1.11	0.139	0.0630	0.0460	ND(0.0220)	68.0	0.0542	0.139
BENZENE	4,000	2,580	1,810	5,860	4,250	1,100	5,420	1,030	5,660	2,080	1,720	1,200	116	1,120	36.2	5,170	1,260	1,820
TOLUENE	ND(10)	22.6	ND(1)	4.5	7.8	ND(20)	2.34	4.77	2.44	1.50	ND(5)	ND(50)	ND(1)	1.20	ND(1)	3.92	1.18	1.97
EBZ	870	500	12.2	50	448	575	190	881	315	247	234	470	15.1	182	2.98	1.42	1.07	0.620
WATER ELEV.	457.37	455.97	456.99	457.16	456.62	456.85	457.09	455.17	457.46	454.14	456.36	455.52	457.11	456.12	456.81	NM	456.20	NM

AP-6039 5-16 bgs	MAY 1998	AUG 1998	NOV 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	JULY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	ND(1)	NA	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	ND(1)	ND(0.002)	ND(0.0215)	ND(0.0201)	ND(0.0333)	ND(0.0306)	ND(0.0219)	ND(0.0192)	ND(0.0204)	ND(0.0202)	ND(0.0203)	ND(0.0207)	ND(0.0203)
BENZENE	84	58.8	73	34.6	29	32.8	48.3	34.4	31.7	27.5	25.8	21.4	ND(0.5)	158	88.5	183
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	2.84	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.480
EBZ	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
WATER ELEV.	451.95	455.21	482.88	449.14	455.36	455.89	455.35	453.82	454.40	451.41	454.06	454.49	453.08	449.32	453.55	452.92

AP-8711 18-28 bgs	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	3.16	7.28	2.39	4.53	4.83
BENZENE	117	179	71.3	89.5	78.0
TOLUENE	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
EBZ	1.91	2.43	ND(1)	ND(1)	ND(1)
WATER ELEV.	455.96	456.77	457.22	456.05	455.99

AP-8080 5-20 bgs	MAY 1998	AUG 1998	NOV 1998	APR 1999	SEPT 1999	MAR 2000	SEPT 2000	JULY 2001	OCT 2001	JUNE 2002	SEPT 2002	APRIL 2003	SEPT 2003	APRIL 2004	NOV 2004	AUG 2005
DCA	ND(1)	1.8	NA	ND(50)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	NA	NA	NA	ND(50)	ND(1)	0.088	0.0694	ND(0.0312)	ND(0.0301)	ND(0.0218)	ND(0.0192)	0.0365	ND(0.0203)	ND(0.0205)	0.369	0.0632
BENZENE	2,850	4,790	1,960	2,490	1,060	1,800	1,850	12.2	86.4	1.2	723	264	1.48	548	930	477
TOLUENE	ND(1)	1.8		ND(50)	ND(1)	1.78	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1.03	3.35	1.53
EBZ	2.20	1.30	25.5	67.3	8.81	48.2	20.7	ND(1)	ND(1)	ND(1)	ND(1)	2.13	ND(1)	1.79	8.53	4.16
WATER ELEV.	458.11	458.28	457.68	458.05	461.11	458.05	458.30	457.45	456.70	451.89	454.54	447.31	454.49	457.40	457.53	457.76

AP-8712 5-15 bgs	APRIL 2003	SEPT 2003	APRIL 2004	OCT 2004	AUG 2005
DCA	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)
EDB	ND(0.0194)	ND(0.0213)	ND(0.0198)	ND(0.0164)	ND(0.0125)
BENZENE	15.8	547	675	472	479
TOLUENE	ND(1)	1.20	1.04	ND(1)	0.540
EBZ	ND(1)	23.9	29.2	20.7	21.4
WATER ELEV.	449.05	454.68	455.75	454.93	454.47

AP-9077 5-15 bgs	NOV 2004	AUG 2005
DCA	ND(0.5)	ND(0.5)
EDB	ND(0.0185)	ND(0.0169)
BENZENE	1,320	1,390
TOLUENE	2.14	2.27
EBZ	ND(1)	ND(1)
WATER ELEV.	452.54	452.78

AP-9078 5-15 bgs	NOV 2004	AUG 2005
DCA	ND(0.5)	
EDB	ND(0.0189)	
BENZENE	NA** ND(0.4)	
TOLUENE	ND(1)	
EBZ	ND(1)	
WATER ELEV.	454.24	

AP-9079 5-15 bgs	NOV 2004	APRIL 2005	AUG 2005
DCA	ND(0.5)	ND(0.5)	ND(0.5)
EDB	ND(0.0185)	0.0146	0.775
BENZENE	2.03	ND(0.4)	ND(0.4)
TOLUENE	2.56	ND(1)	ND(1)
EBZ	ND(1)	ND(1)	ND(1)
WATER ELEV.	453.41	452.02	453.42

LEGEND:

AP-8039 — MONITORING WELL COMPLETED ABOVE BEDROCK

AP-8711 — MONITORING WELL COMPLETED IN BEDROCK

bgs — BELOW GROUND SURFACE

DCA — 1,2-DICHLOROETHANE

EDB — 1,2-DIBROMOETHANE

EBZ — ETHYLBENZENE

NA — ANALYSIS NOT PERFORMED

ND — NOT DETECTED (DETECTION LIMIT)

NM — NOT MEASURED

UST — UNDERGROUND STORAGE TANK

KEY:

MONITORING WELL — AP-8262 14-24 bgs

SCREENED INTERVAL, DEPTH IN FEET bgs

SEE LEGEND FOR ABBREVIATIONS.

ELEVATIONS IN FEET MEAN SEA LEVEL (NGVD '29 DATUM)

	MAR 2000	SEPT 2000	JULY 2001
DCA	ND(1)	ND(1)	ND(2)
EDB	1.3	1.77	1.23
BENZENE	11.1	14.2	7.28
TOLUENE	19.3	14.3	8.6
EBZ	706	739	417
WATER ELEVATIONS	460.60	461.74	460.60

CONCENTRATIONS EXCEEDING REMEDIAL ACTION GOALS SHOWN IN BOLD

WATER ELEVATIONS

CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)

REMEDIAL ACTION GOALS IN µg/L

5	BENZENE
1,000	TOLUENE
700	EBZ
5	DCA
0.05	EDB

NOTE:

1. NA* DENOTES SAMPLING EVENTS WHEN WELLS WERE NOT SAMPLED DUE TO BROKEN BELOW GROUND SURFACE

NA** DENOTES SAMPLING EVENTS WHEN WELLS WERE NOT SAMPLED DUE TO PERMAFROST

ARMY ENVIRONMENTAL CENTER

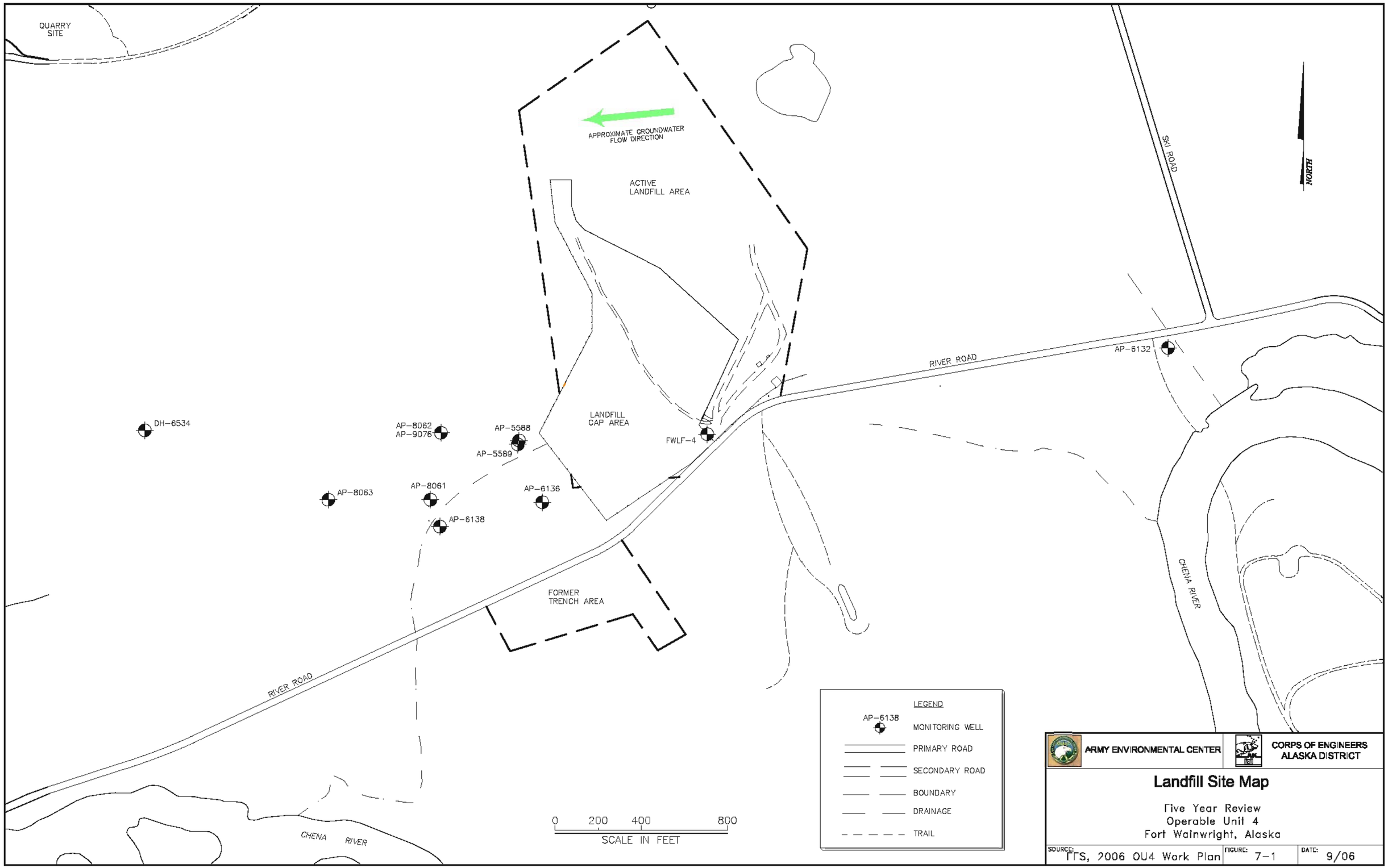
CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of ROD COC's at Milepost 2.7 and 3.0 Source Areas

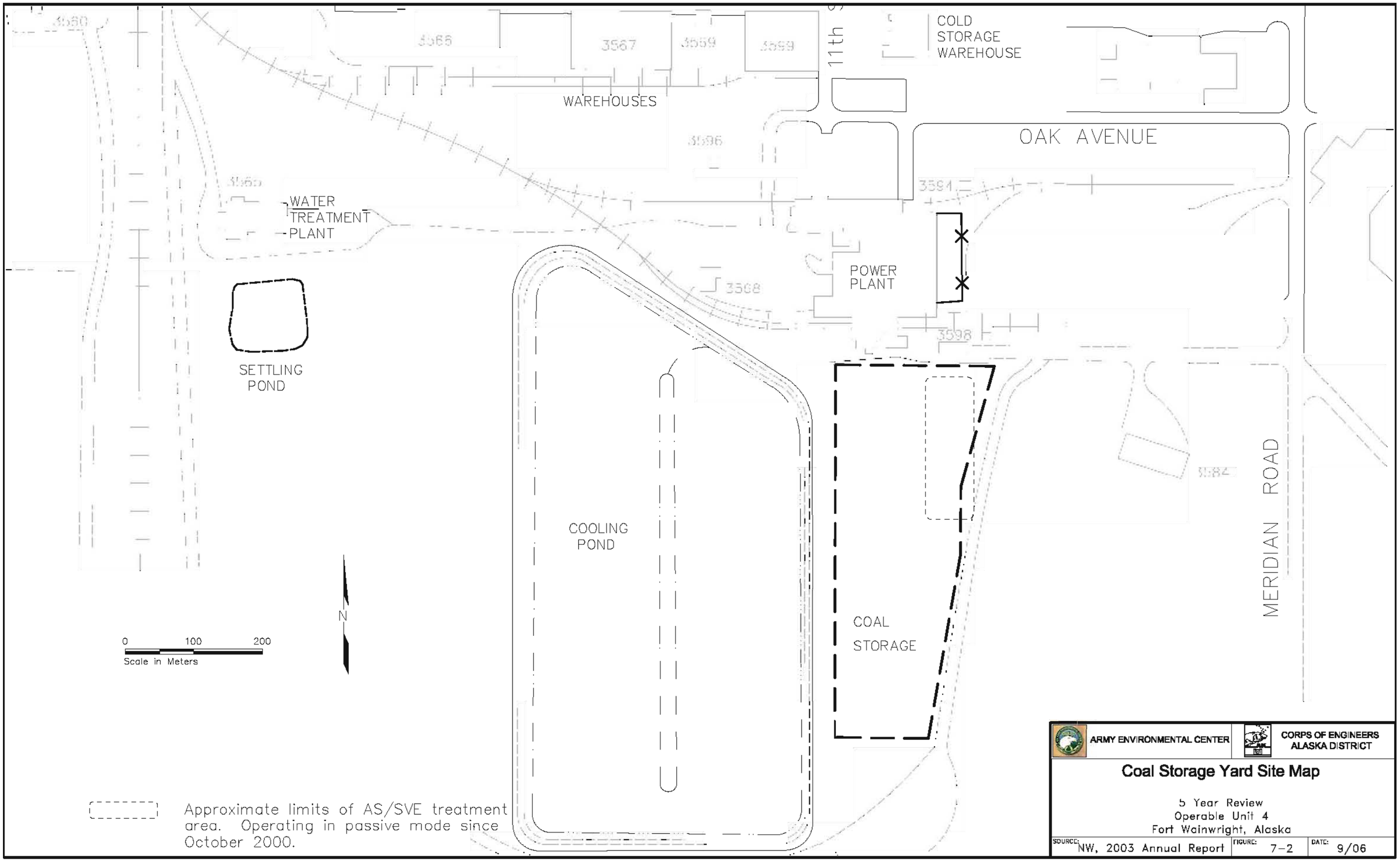
Five Year Review
Operable Unit 3
Fort Wainwright, Alaska

SOURCE: FES, 2005 Annual Report | PLATE: 6-V | DATE: 9/06

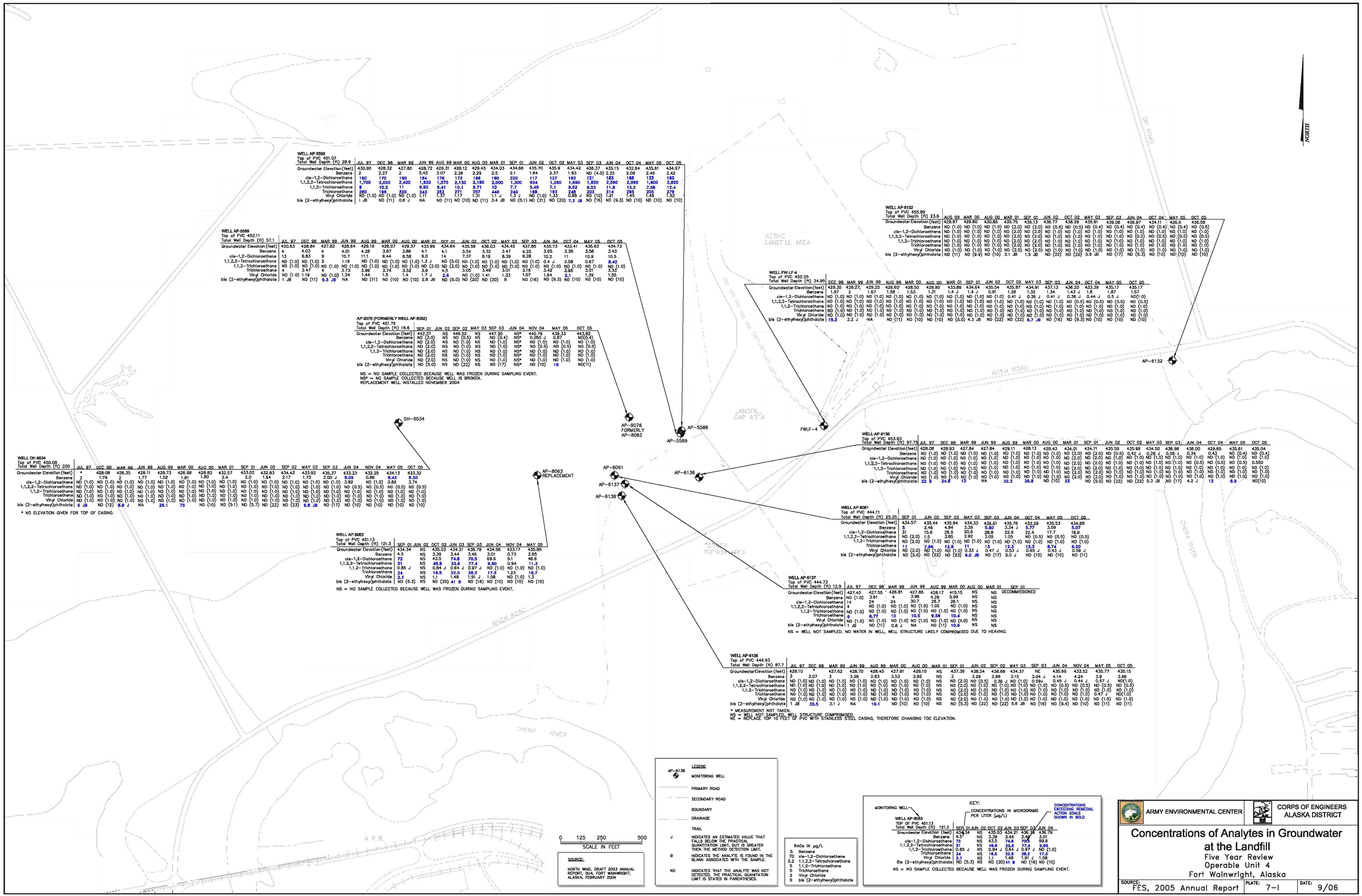
751AF


QUARRY SITE
APPROXIMATE GROUNDWATER FLOW DIRECTION
ACTIVE LANDFILL AREA
SKI ROAD
NORTH
RIVER ROAD
AP-6132
LANDFILL CAP AREA
FWLF-4
DH-6534
AP-8062
AP-9076
AP-5588
AP-5589
AP-8063
AP-8061
AP-6136
AP-6138
FORMER TRENCH AREA
CHENA RIVER
RIVER ROAD
CHENA RIVER
0 200 400 800
SCALE IN FEET
LEGEND
AP-6138
MONITORING WELL
PRIMARY ROAD
SECONDARY ROAD
BOUNDARY
DRAINAGE
TRAIL
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS
ALASKA DISTRICT
Landfill Site Map
Five Year Review
Operable Unit 4
Fort Wainwright, Alaska
SOURCE: FFS, 2006 OU4 Work Plan
FIGURE: 7-1
DATE: 9/06

740AF


3566
3567
3569
3599
11th
COLD
STORAGE
WAREHOUSE
WAREHOUSES
3596
OAK AVENUE
3594
WATER
TREATMENT
PLANT
POWER
PLANT
3568
3598
SETTLING
POND
COOLING
POND
COAL
STORAGE
MERIDIAN ROAD
N
0
100
200
Scale in Meters
Approximate limits of AS/SVE treatment area. Operating in passive mode since October 2000.
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS
ALASKA DISTRICT
Coal Storage Yard Site Map
5 Year Review
Operable Unit 4
Fort Wainwright, Alaska
SOURCE: NW, 2003 Annual Report
FIGURE: 7-2
DATE: 9/06

743AF



WELL AP-5588
Top of PVC 451.07
Total Well Depth (ft) 28.9

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	OCT 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	430.90	428.32	427.80	428.72	429.31	428.12	429.45	434.03	434.66	435.70	435.9	434.42	438.37	435.15	432.64	435.61	434.97
Benzene	2	2.27	2	2.42	3.07	2.28	2.29	2.5	2.1	1.64	2.37	1.93	ND (4.0)	2.25	2.09	2.46	2.42
cis-1,2-Dichloroethene	**160**	**170**	**190**	**184**	**176**	**173**	**168**	**180**	**220**	**117**	**127**	**162**	**121**	**183**	**168**	**133**	**160**
1,1,2,2-Tetrachloroethane	**1,700**	**2,020**	**2,400**	**1,920**	**1,570**	**2,130**	**2,180**	**2,000**	**1,300**	**934**	**1,280**	**1,890**	**1,820**	**2,590**	**2,990**	**1,600**	**2,820**
1,1,2-Trichloroethane	**8**	**10.2**	**11**	**9.92**	**9.41**	**10.1**	**9.71**	**10**	**7.7**	**5.46**	**7.1**	**9.52**	**9.53**	**11.8**	**13.2**	**7.58**	**12.4**
Trichloroethene	**280**	**195**	**320**	**243**	**252**	**271**	**257**	**440**	**240**	**168**	**193**	**248**	**203**	**314**	**295**	**205**	**278**
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	1.11	1.37	1.17	1.31	1.1 J	1.3 J	ND (1.0)	1.33	0.88 J	ND (10)	1.21	1.45	1.49	1.52
bis (2-ethylhexyl)phthalate	1 JB	ND (11)	0.6 J	NA	ND (11)	ND (10)	ND (11)	3.4 JB	ND (5.1)	ND (21)	ND (20)	**7.3 JB**	ND (16)	ND (9.3)	ND (10)	ND (10)	ND (10)

WELL AP-5589
Top of PVC 452.11
Total Well Depth (ft) 57.1

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	OCT 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	420.63	428.84	427.82	428.64	429.19	428.07	429.37	433.99	434.64	435.56	436.03	434.45	437.85	435.73	433.41	435.63	434.73
Benzene	4	4.03	4	4.01	4.28	3.87	3.86	4.1	4.1	3.54	3.32	3.47	4.25	3.95	3.38	3.56	3.43
cis-1,2-Dichloroethene	13	9.83	9	10.7	11.1	9.44	8.58	9.0	14	7.37	8.19	8.39	9.28	10.2	11	10.9	10.5
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	2	1.16	ND (1.0)	ND (1.0)	ND (1.0)	1.3 J	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.4 J	2.08	0.67	**8.42**
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	4	3.47	4	3.73	3.96	3.74	3.52	3.9	4.5	3.05	3.49	3.01	3.19	3.42	**3.95**	3.01	3.33
Vinyl Chloride	ND (1.0)	1.19	ND (1.0)	1.24	1.44	1.5	1.4	1.7 J	**2.5**	ND (1.0)	1.41	1.33	1.07	1.64	**2.1**	1.39	1.55
bis (2-ethylhexyl)phthalate	1 JB	ND (11)	**9.3 JB**	NA	ND (11)	ND (10)	ND (10)	2.8 JB	ND (6.0)	ND (20)	ND (20)	R	ND (16)	ND (9.3)	ND (10)	ND (10)	ND (10)

AP-9076 (FORMERLY WELL AP-8062)
Top of PVC 451.75
Total Well Depth (ft) 16.6

	SEP 01	JUN 02	SEP 02	MAY 03	SEP 03	JUN 04	NOV 04	MAY 05	OCT 05
Groundwater Elevation (feet)	447.37	NS	448.52	NS	447.30	NS*	440.79	439.33	443.82
Benzene	ND (2.0)	NS	ND (0.5)	NS	ND (0.4)	NS*	0.260 J	0.8	ND(0.4)
cis-1,2-Dichloroethene	ND (2.0)	NS	ND (1.0)	NS	ND (1.0)	NS*	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2,2-Tetrachloroethane	ND (2.0)	NS	ND (1.0)	NS	ND (1.0)	NS*	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (2.0)	NS	ND (1.0)	NS	ND (1.0)	NS*	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (2.0)	NS	ND (1.0)	NS	ND (1.0)	NS*	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	ND (2.0)	NS	ND (1.0)	NS	ND (1.0)	NS*	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	ND (5.0)	NS	ND (22)	NS	ND (17)	NS*	ND (10)	**16**	ND(11)

NS = NO SAMPLE COLLECTED BECAUSE WELL WAS FROZEN DURING SAMPLING EVENT.
NS* = NO SAMPLE COLLECTED BECAUSE WELL IS BROKEN.
REPLACEMENT WELL INSTALLED NOVEMBER 2004

WELL DH-6534
Top of PVC 450.08
Total Well Depth (ft) 200

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	SEP 02	MAY 03	SEP 03	JUN 04	NOV 04	MAY 05	OCT 05
Groundwater Elevation (feet)	*	428.08	426.35	428.11	428.73	426.98	428.63	432.57	433.02	432.83	434.43	433.92	436.37	433.23	432.25	434.13	433.32
Benzene	2	1.79	2	1.77	1.52	1.81	1.80	2.4	2.0	1.64	2.17	1.75	2.00 J	**8.09**	0.88	**8.43**	**8.30**
cis-1,2-Dichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	3.82	ND (1.0)	3.82	3.74
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	**6 JB**	ND (12)	**8.9 J**	NA	**29.1**	**75**	ND (10)	ND (3.1)	ND (5.7)	ND (22)	ND (23)	**6.8 JB**	ND (17)	ND (10)	ND (10)	ND (10)	ND (10)

* NO ELEVATION GIVEN FOR TOP OF CASING.

WELL AP-8063
Top of PVC 451.13
Total Well Depth (ft) 121.3

	SEP 01	JUN 02	OCT 02	JUN 03	SEP 03	JUN 04	NOV 04	MAY 05
Groundwater Elevation (feet)	434.34	NS	435.03	434.21	436.79	434.56	433.17	435.85
Benzene	4.5	NS	3.39	3.44	3.46	3.01	0.73	2.65
cis-1,2-Dichloroethene	**72**	NS	43.5	**74.8**	**70.5**	69.6	5.1	46.6
1,1,2,2-Tetrachloroethane	**51**	NS	**49.6**	**33.6**	**77.4**	**9.90**	0.94	11.3
1,1,2-Trichloroethane	0.85 J	NS	0.84 J	0.64 J	0.97 J	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	**24**	NS	**16.5**	**22.5**	**28.2**	**17.3**	1.23	**16.7**
Vinyl Chloride	**2.1**	NS	1.1	1.48	1.91 J	1.58	ND (1.0)	1.3
bis (2-ethylhexyl)phthalate	ND (5.3)	NS	ND (20)	**41 B**	ND (16)	ND (10)	ND (10)	ND (10)

NS = NO SAMPLE COLLECTED BECAUSE WELL WAS FROZEN DURING SAMPLING EVENT.

WELL AP-6132
Top of PVC 455.89
Total Well Depth (ft) 23.6

	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	OCT 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	429.97	429.80	430.85	435.75	436.13	436.77	438.29	435.91	439.08	436.97	434.11	436.6	436.58
Benzene	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (0.5)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.4)	ND (0.5)
cis-1,2-Dichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	ND (11)	ND (9.9)	ND (10)	2.1 JB	1.5 JB	ND (22)	ND (20)	5.9 JB	ND (17)	ND (9.3)	ND (10)	ND (10)	ND (10)

WELL FW-LF 4
Top of PVC 452.25
Total Well Depth (ft) 24.95

	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	OCT 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	429.35	428.27	429.25	428.60	428.50	428.95	433.89	434.64	435.54	435.87	434.91	437.13	436.20	433.39	435.17	435.17
Benzene	1.97	2	1.67	1.58	1.53	1.31	1.4 J	1.4 J	0.91	1.26	1.32	1.34	1.43 J	1.8	1.87	1.57
cis-1,2-Dichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.41 J	0.36 J	0.41 J	0.36 J	0.44 J	0.5 J	ND(1.0)
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	**15.3**	2.2 J	NA	ND (11)	ND (10)	ND (10)	ND (5.0)	4.3 JB	ND (22)	ND (22)	**6.7 JB**	ND (16)	ND (9.3)	ND (10)	ND (10)	ND (10)

WELL AP-6136
Top of PVC 453.93
Total Well Depth (ft) 97.75

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	OCT 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	428.08	428.93	427.84	427.84	429.11	428.13	429.43	434.01	434.71	435.59	435.99	434.50	436.98	436.00	429.65	435.61	435.04
Benzene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (0.5)	0.42 J	0.28 J	0.26 J	0.34	0.43	ND (0.4)	ND (0.4)
cis-1,2-Dichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.550
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	**22 B**	**24.8**	**13**	NA	**32.3**	**36.8**	ND (10)	**33**	ND (5.0)	ND (22)	ND (22)	5.3 JB	ND (17)	4.2 J	**13**	**8.9**	ND(10)

WELL AP-8061
Top of PVC 444.11
Total Well Depth (ft) 25.25

	SEP 01	JUN 02	SEP 02	MAY 03	SEP 03	JUN 04	OCT 04	MAY 05	OCT 05
Groundwater Elevation (feet)	434.57	435.44	435.84	434.33	436.61	435.76	433.29	435.53	434.89
Benzene	**5**	2.46	4.84	3.39	**5.80**	3.34 J	**5.77**	3.09	**5.07**
cis-1,2-Dichloroethene	31	15.6	26.5	20.8	**28.8**	22.9	22.4	17.7	18.9
1,1,2,2-Tetrachloroethane	ND (2.0)	1.5	3.85	2.92	3.05	1.05	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	**11**	**7.86**	**12.9**	**11**	1.3	**12.3**	**12.3**	**8.74**	**9.20**
Vinyl Chloride	ND (2.0)	ND (1.0)	ND (1.0)	0.33 J	0.47 J	0.53 J	0.85 J	0.43 J	0.59 J
bis (2-ethylhexyl)phthalate	ND (5.0)	ND (22)	ND (23)	**6.0 JB**	ND (17)	5.0 J	ND (10)	ND (10)	ND (11)

WELL AP-6137
Top of PVC 444.73
Total Well Depth (ft) 12.9

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01
Groundwater Elevation (feet)	427.43	427.55	426.81	427.85	428.17	415.15	NS	NS	DECOMMISSIONED
Benzene	ND (1.0)	3.61	4	3.95	4.29	5.99	NS	NS	
cis-1,2-Dichloroethene	14	24	24	30.7	26.7	26.1	NS	NS	
1,1,2,2-Tetrachloroethane	4	ND (1.0)	ND (1.0)	ND (1.0)	1.05	ND (1.0)	NS	NS	
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	NS	
Trichloroethene	**6**	**8.77**	**10**	**10.5**	**9.56**	**10.4**	NS	NS	
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	NS	
bis (2-ethylhexyl)phthalate	1 JB	ND (11)	0.8 J	NA	ND (11)	**10.9**	NS	NS	

NS = WELL NOT SAMPLED, NO WATER IN WELL, WELL STRUCTURE LIKELY COMPROMISED DUE TO HEAVING.

WELL AP-6138
Top of PVC 444.93
Total Well Depth (ft) 87.7

	JUL 97	DEC 98	MAR 99	JUN 99	AUG 99	MAR 00	AUG 00	MAR 01	SEP 01	JUN 02	SEP 02	MAY 03	SEP 03	JUN 04	NOV 04	MAY 05	OCT 05
GroundwaterElevation (feet)	428.10	*	427.62	428.70	428.45	427.91	429.10	NS	437.39	438.24	438.68	434.37	NE	435.95	433.52	435.77	435.15
Benzene	3	3.07	3	3.28	2.83	3.53	2.82	NS	2	3.29	2.86	3.15	3.04 J	4.14	4.24	3.9	3.66
cis-1,2-Dichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	ND (2.0)	ND (0.5)	0.36 J	ND (1.0)	0.59J	0.45 J	0.44 J	0.57 J	ND(1.0)
1,1,2,2-Tetrachloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
1,1,2-Trichloroethane	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	0.47 J	ND(1.0)
Vinyl Chloride	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	NS	ND (2.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
bis (2-ethylhexyl)phthalate	1 JB	**35.5**	3.1 J	NA	**19.1**	ND (10)	ND (10)	NS	ND (5.3)	ND (22)	ND (22)	5.6 JB	ND (16)	ND (9.4)	ND (10)	ND (11)	ND (11)

* MEASUREMENT NOT TAKEN.
NS = WELL NOT SAMPLED, WELL STRUCTURE COMPROMISED.
NE = REPLACE TOP TO FEET OF PVC WITH STAINLESS STEEL CASING, THEREFORE CHANGING TOC ELEVATION.

SOURCE:
NORTH WIND, DRAFT 2003 ANNUAL REPORT, OU4, FORT WAINWRIGHT, ALASKA, FEBRUARY 2004

LEGEND

AP-6138	MONITORING WELL
	PRIMARY ROAD
	SECONDARY ROAD
	BOUNDARY
	DRAINAGE
	TRAIL
J	INDICATES AN ESTIMATED VALUE THAT FALLS BELOW THE PRACTICAL QUANTITATION LIMIT, BUT IS GREATER THEN THE METHOD DETECTION LIMIT.
B	INDICATES THE ANALYTE IS FOUND IN THE BLANK ASSOCIATED WITH THE SAMPLE.
ND	INDICATES THAT THE ANALYTE WAS NOT DETECTED, THE PRACTICAL QUANTITATION LIMIT IS STATED IN PARENTHESES.

RAOs IN µg/L
5 Benzene
70 cis-1,2-Dichloroethene
5.2 1,1,2,2-Tetrachloroethane
5 1,1,2-Trichloroethane
5 Trichloroethene
2 Vinyl Chloride
6 bis (2-ethylhexyl)phthalate

KEY:
MONITORING WELL — WELL AP-8063 — TOP OF PVC 451.13 — Total Well Depth (ft) 121.3
CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
CONCENTRATIONS EXCEEDING REMEDIAL ACTION GOALS SHOWN IN BOLD

	SEP 01	JUN 02	OCT 02	JUN 03	SEP 03	JUN 04
Groundwater Elevation (feet)	434.34	NS	435.03	434.21	436.79	436.76
Benzene	4.5	NS	3.39	3.44	3.46	3.01
cis-1,2-Dichloroethene	**72**	NS	43.5	**74.8**	**70.5**	69.6
1,1,2,2-Tetrachloroethane	51	NS	**49.6**	**33.6**	**77.4**	**9.90**
1,1,2-Trichloroethane	0.85 J	NS	0.84 J	0.64 J	0.97 J	ND (1.0)
Vinyl Chloride	**2.1**	NS	1.1	1.48	1.91 J	1.58
Bis (2-ethylhexyl)phthalate	ND (5.3)	NS	ND (20)	**41 B**	ND (16)	ND (10)

NS = NO SAMPLE COLLECTED BECAUSE WELL WAS FROZEN DURING SAMPLING EVENT.

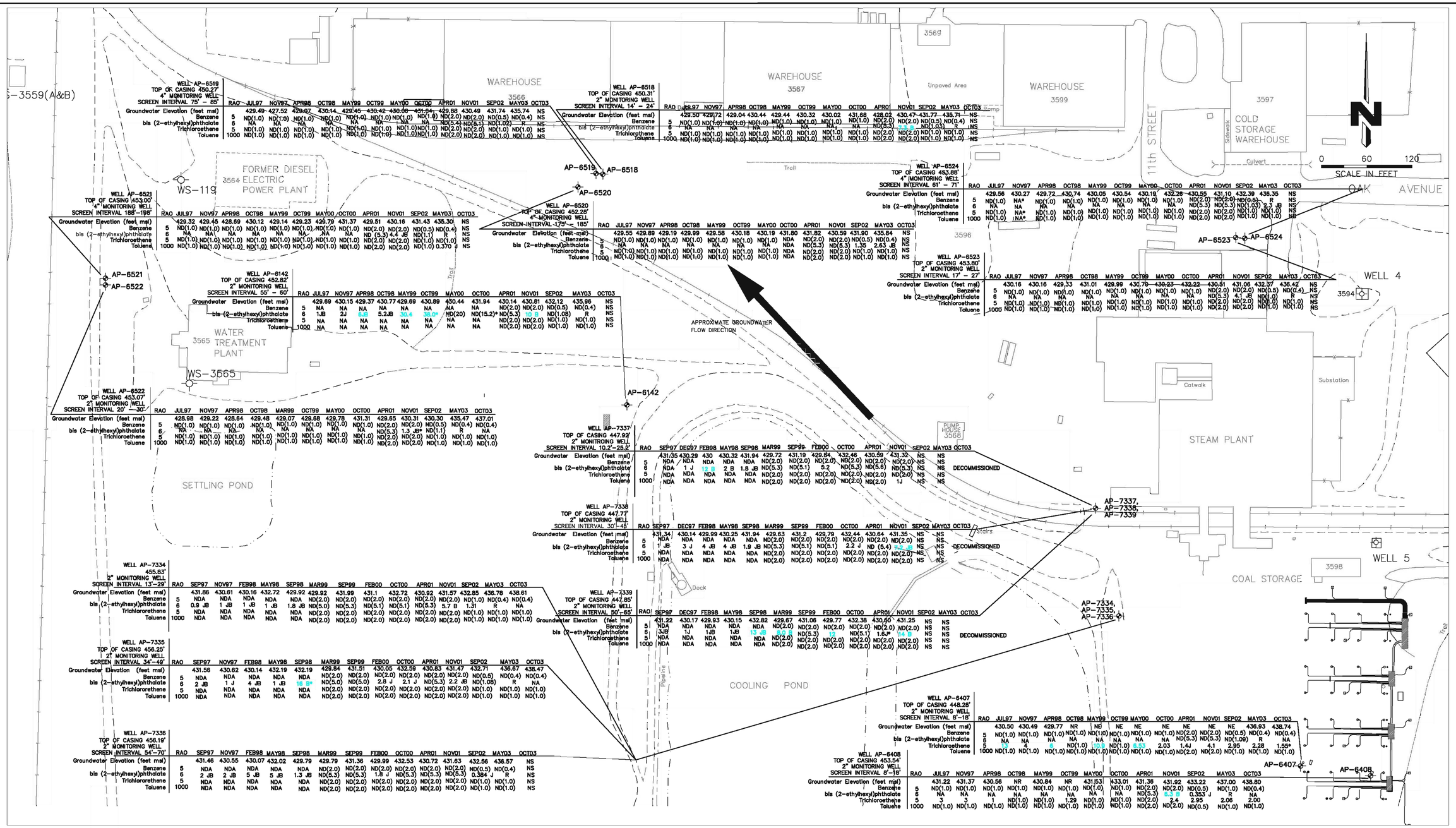
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of Analytes in Groundwater at the Landfill

Five Year Review
Operable Unit 4
Fort Wainwright, Alaska

SOURCE: FES, 2005 Annual Report | PLATE: 7-I | DATE: 9/06

754AF



WELL AP-6519
TOP OF CASING 450.27'
4" MONITORING WELL
SCREEN INTERVAL 75' – 85'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.49	427.52	429.07	430.14	429.45	430.42	430.00	431.04	429.88	430.49	431.74	435.74	NS
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	ND(5.3)	ND(1.02)	R	NS
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6518
TOP OF CASING 450.31'
2" MONITORING WELL
SCREEN INTERVAL 14' – 24'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.50	429.72	429.04	430.44	429.44	430.32	430.02	431.68	428.02	430.47	431.77	435.71	NS
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	12 B	ND(1.03)	R	NS
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6521
TOP OF CASING 453.00'
4" MONITORING WELL
SCREEN INTERVAL 185'–195'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.32	429.45	428.69	430.12	429.14	429.23	429.79	431.37	429.51	430.16	431.43	435.30	NS
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND (5.3)	4.4 JB	ND(1.1)	R	NS
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	0.370 J	NS

WELL AP-6520
TOP OF CASING 452.28'
4" MONITORING WELL
SCREEN INTERVAL 175'– 185'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.55	429.89	429.19	429.99	429.58	430.18	430.19	431.80	431.82	430.59	431.90	435.84	NS
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NDA	ND(5.3)	ND(5.3)	1.35	2.63 JB	NS
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	NDA	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	NDA	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6524
TOP OF CASING 453.88'
4" MONITORING WELL
SCREEN INTERVAL 61' – 71'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.56	430.27	429.72	430.74	430.05	430.54	430.19	432.26	430.55	431.10	432.39	436.35	NS
Benzene	5	ND(1.0)	NA*	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	R	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	ND(5.3)	ND(1.05)	2.3 JB	NS
Trichloroethene	5	ND(1.0)	NA*	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	NA*	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6523
TOP OF CASING 453.80'
2" MONITORING WELL
SCREEN INTERVAL 17' – 27'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		430.16	430.16	429.33	431.01	429.99	430.70	430.23	432.22	430.51	431.06	432.37	436.42	NS
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	4.1 JB	ND(1.0)	R	NS
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6142
TOP OF CASING 452.82'
2" MONITORING WELL
SCREEN INTERVAL 55' – 60'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		429.69	430.15	429.37	430.77	429.69	430.89	430.44	431.94	430.14	430.81	432.12	435.96	NS
Benzene	5	NA	NA	NA	NA	NA	NA	NA	NA	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	1JB	2J	6.8	5.2JB	30.4	38.0*	ND(20)	ND(15.2)*	ND(5.3)	10 B	ND(1.08)	R	NS
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	NA	NA	NA	NA	NA	NA	NA	NA	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6522
TOP OF CASING 453.07'
2" MONITORING WELL
SCREEN INTERVAL 20' – 30'

	RAO	JUL97	NOV97	APR98	OCT98	MAR99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		428.98	429.22	428.64	429.48	429.07	429.88	429.78	431.31	428.85	430.31	430.30	435.47	437.01
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	ND(0.4)
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	1.3 JB*	ND(1.1)	R	NA
Trichloroethene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)

WELL AP-7337
TOP OF CASING 447.92'
2" MONITORING WELL
SCREEN INTERVAL 10.2'–25.2'

	RAO	SEP97	DEC97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.35	430.29	430	430.32	431.94	429.72	431.19	429.84	432.46	430.59	431.32	NS	NS	
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
bis (2-ethylhexyl)phthalate	6	NDA	1 J	12 B	2 B	1.8 JB	ND(5.3)	ND(5.1)	5.2	ND(5.3)	ND(5.6)	ND(5.3)	NS	NS	DECOMMISSIONED
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	1J	NS	NS	

WELL AP-7338
TOP OF CASING 447.77'
2" MONITORING WELL
SCREEN INTERVAL 30'–45'

	RAO	SEP97	DEC97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.34	430.14	429.99	430.25	431.94	429.63	431.2	429.79	432.44	430.64	431.35	NS	NS	
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
bis (2-ethylhexyl)phthalate	6	1 JB	3 J	4 JB	4 JB	1.9 JB	ND(5.3)	ND(5.1)	ND(5.1)	2.2 J	ND (5.4)	5.2 B	NS	NS	DECOMMISSIONED
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	

WELL AP-7339
TOP OF CASING 447.85'
2" MONITORING WELL
SCREEN INTERVAL 50'–65'

	RAO	SEP97	DEC97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.22	430.17	429.93	430.15	432.82	429.67	431.06	429.77	432.38	430.60	431.25	NS	NS	
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
bis (2-ethylhexyl)phthalate	6	3JB	1J	1JB	1JB	13 JB	8.2 B	ND(5.3)	12	ND(5.3)	1.6J*	14 B	NS	NS	DECOMMISSIONED
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	NS	NS	

WELL AP-7334
455.83'
2" MONITORING WELL
SCREEN INTERVAL 13'–29'

	RAO	SEP97	NOV97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.86	430.61	430.16	432.72	429.92	429.92	431.99	431.1	432.72	430.92	431.57	432.85	436.78	438.61
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(0.4)	ND(0.4)
bis (2-ethylhexyl)phthalate	6	0.9 JB	1 JB	1 JB	1 JB	1.8 JB	ND(5.3)	ND(5.1)	ND(5.1)	ND(5.3)	5.7 B	1.31	R	NA	
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)

WELL AP-7335
TOP OF CASING 456.25'
2" MONITORING WELL
SCREEN INTERVAL 34'–49'

	RAO	SEP97	NOV97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.58	430.82	430.14	432.19	432.19	429.84	431.51	430.05	432.59	430.83	431.47	432.71	436.67	436.47
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	ND(0.4)
bis (2-ethylhexyl)phthalate	6	2 JB	1 J	4 JB	1 JB	16 B*	ND(5.0)	ND(5.0)	2.8 J	2.1 J	ND(5.3)	2.2 JB	ND(1.08)	R	NA
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)

WELL AP-7336
TOP OF CASING 456.19'
2" MONITORING WELL
SCREEN INTERVAL 54'–70'

	RAO	SEP97	NOV97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.46	430.55	430.07	432.02	429.79	429.79	431.36	429.99	432.53	430.72	431.63	432.56	436.57	NS
Benzene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	NS
bis (2-ethylhexyl)phthalate	6	2 JB	2 JB	5 JB	5 JB	1.3 JB	ND(5.3)	ND(5.3)	1.8 J	ND(5.3)	ND(5.3)	ND(5.3)	0.364 J	R	NS
Trichloroethene	5	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS
Toluene	1000	NDA	NDA	NDA	NDA	NDA	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	NS

WELL AP-6407
TOP OF CASING 448.28'
2" MONITORING WELL
SCREEN INTERVAL 8'–18'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		430.50	430.49	429.77	NR	NR	NE	NE	NE	NE	NE	NE	436.93	438.74
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(0.4)	ND(0.4)
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	ND(5.3)	ND(1.09)	R	NA
Trichloroethene	5	NA	4	6	ND(1.0)	10 B	ND(1.0)	5.53	2.03	1.4J	4.1	2.95	2.28	1.55*
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)

WELL AP-6408
TOP OF CASING 453.54'
2" MONITORING WELL
SCREEN INTERVAL 8'–18'

	RAO	JUL97	NOV97	APR98	OCT98	MAY99	OCT99	MAY00	OCT00	APR01	NOV01	SEP02	MAY03	OCT03
Groundwater Elevation (feet msl)		431.22	431.37	430.56	NR	430.84	NR	431.53	433.01	431.36	431.92	433.22	437.00	438.80
Benzene	5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(1.0)	ND(0.4)
bis (2-ethylhexyl)phthalate	6	NA	NA	NA	NA	NA	NA	NA	NA	ND(5.3)	5.2 B	0.353 J	R	NA
Trichloroethene	5	3	3	1	ND(1.0)	ND(1.0)	1.29	ND(1.0)	ND(1.0)	ND(2.0)	2.4	2.95	2.06	2.00
Toluene	1000	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(0.5)	ND(1.0)	ND(1.0)

LEGEND

- Monitoring Well Location
- Potable Water Source Location
- Metering Enclosure

NOTES

Well AP-6407 was cut down to flushmount between the April 1998 and May 1999 sampling episodes. No survey data was found for the elevation of the new top of casing.

Survey coordinates are in Alaska State Plane Coordinates (ASPC), Zone 3 (Z3). Datum is North American Vertical Datum (NAVD) '83.

Survey coordinates for May and October 2003 are expressed in NAVD '88.

TABLE LEGEND

Top of Casing (feet above msl)
Well Diameter (inches)
Screened Interval (feet bgs)
Groundwater Elevation (feet above msl)
Detected Analytes

	Well No	Maximum Contaminant Level	Sampling Data										
	WELL AP–												
Top of Casing (feet above msl)	451.25'												
Well Diameter (inches)	2"												
Screened Interval (feet bgs)	54'–70'	RAO	SEP97	NOV97	FEB98	MAY98	SEP98	MAR99	SEP99	FEB00	OCT00	APR01	NOV01
Groundwater Elevation (feet above msl)	GW Elev (msl)		431.46	430.55	430.07	430.35	432.02	429.79	431.36	429.99	432.53	430.72	431.57
Detected Analytes	Benzene	5	2JB	2JB	5JB	5JB	1.3JB	ND	ND	1.8J	ND(1.5)	ND(5.3)	1J9
	bis(2–Ethylhexyl)phthalate	6	NS	NS	NS	NS	ND(10)	0.85JB	2.6JB*	ND(5)	ND(0.80)	ND(5.3)	ND(5.3)
	Trichloroethene	5	NS	NS	NS	NS	NA	14	ND(2.0)	ND(2.0)	ND(0.13)	ND(2.0)	ND(2.0)
	Toluene	1000	NS	NS	NS	NS	ND(5.0)	3.1JB	0.45J*	0.42J	ND(1.2)	ND(5.0)	ND(5.0)

Sample data in BLUE indicates analyte concentration exceeds remedial action objective (RAO) taken from the Record of Decision for OU4 dated August 1996.

TABLE NOTES

B	Indicates that the compound was also detected in the method blank.
J	Indicates an estimated value below the PQL, but is greater than the Method Dectection Limit (MDL).
R	Indicates data rejected.
NS	Indicates that a groundwater sample was not collected because the well was either damaged. or removed from the monitoring program.
NA	Indicates that the compound was not analyzed.
NA*	Indicates that the compound was not analyzed because sample container broke.
ND	Indicates that the analyte was not detected, the PQL follows parenthetically.
NE	Not Established.
NR	Not Recorded.
*	Indicates that a primary and duplicate sample were taken, and that the reported number is the higher of the two results.

Units used in wells are measured in micrograms per liter (ug/L).

ARMY ENVIRONMENTAL CENTER

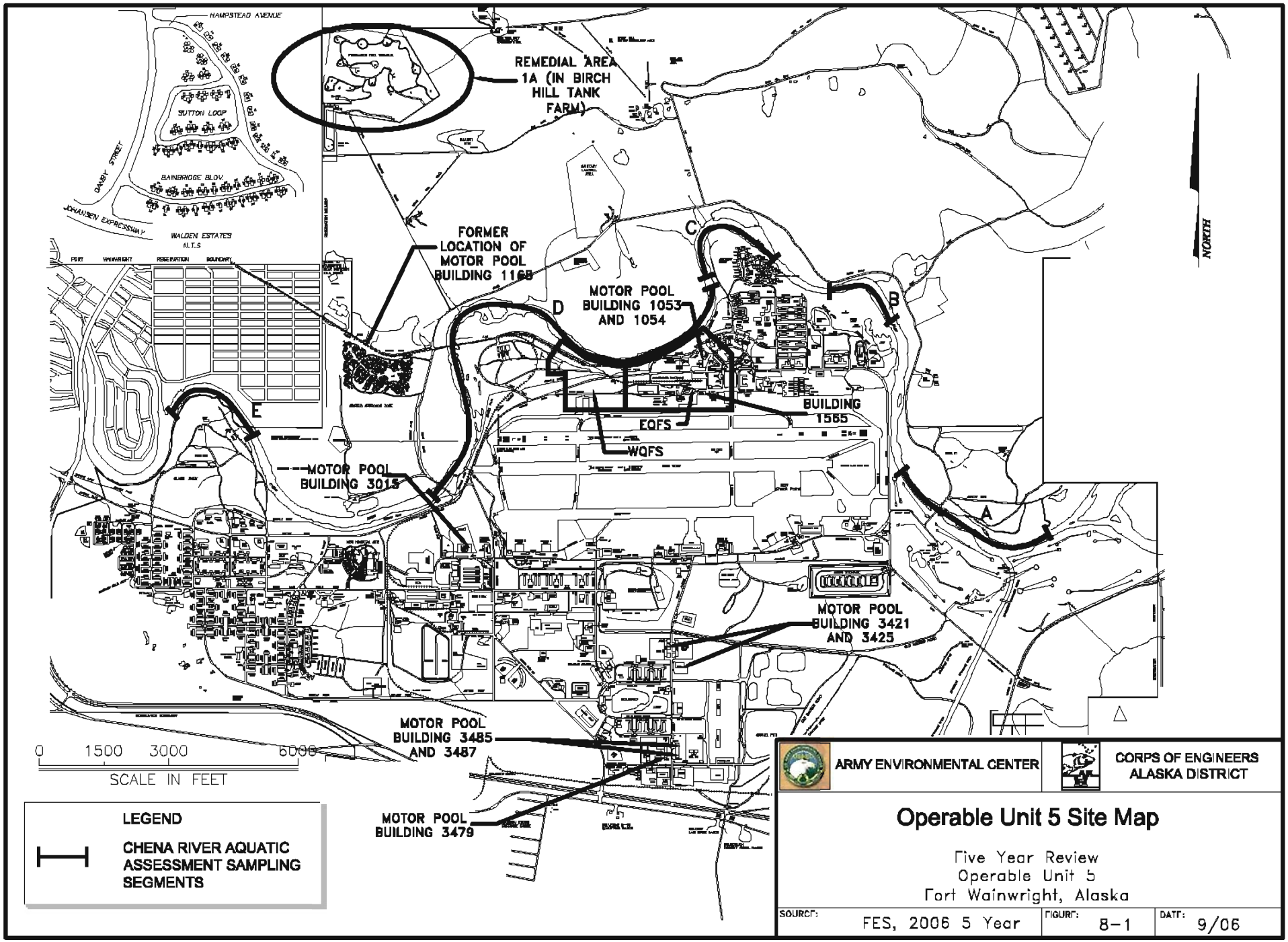
CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of Analytes in Groundwater at the Coal Storage Yard

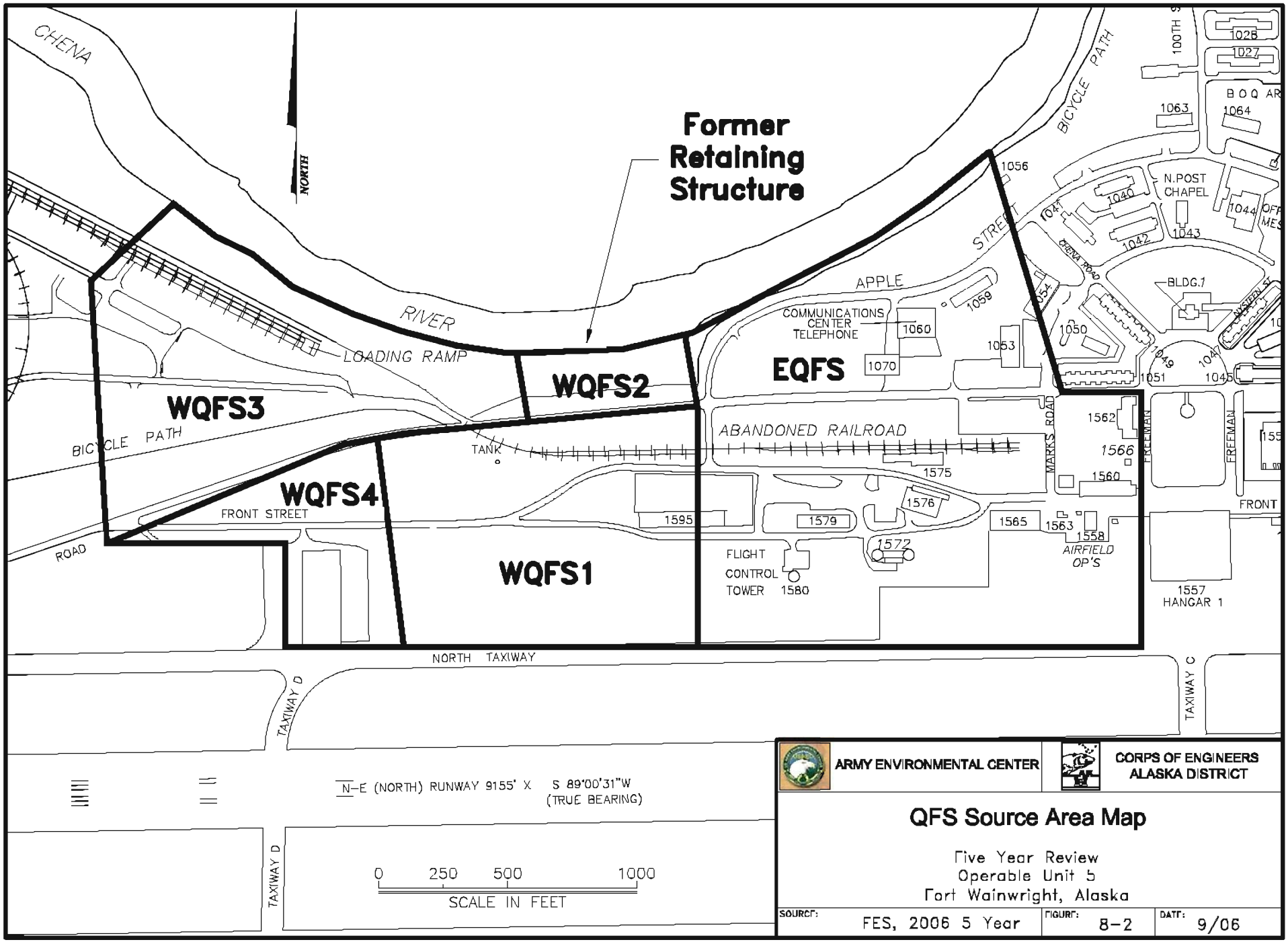
Five Year Review
Operable Unit 4
Fort Wainwright, Alaska

SOURCE: NW, 2003 Annual Report | PLATE: 7–11 | DATE: 9/06

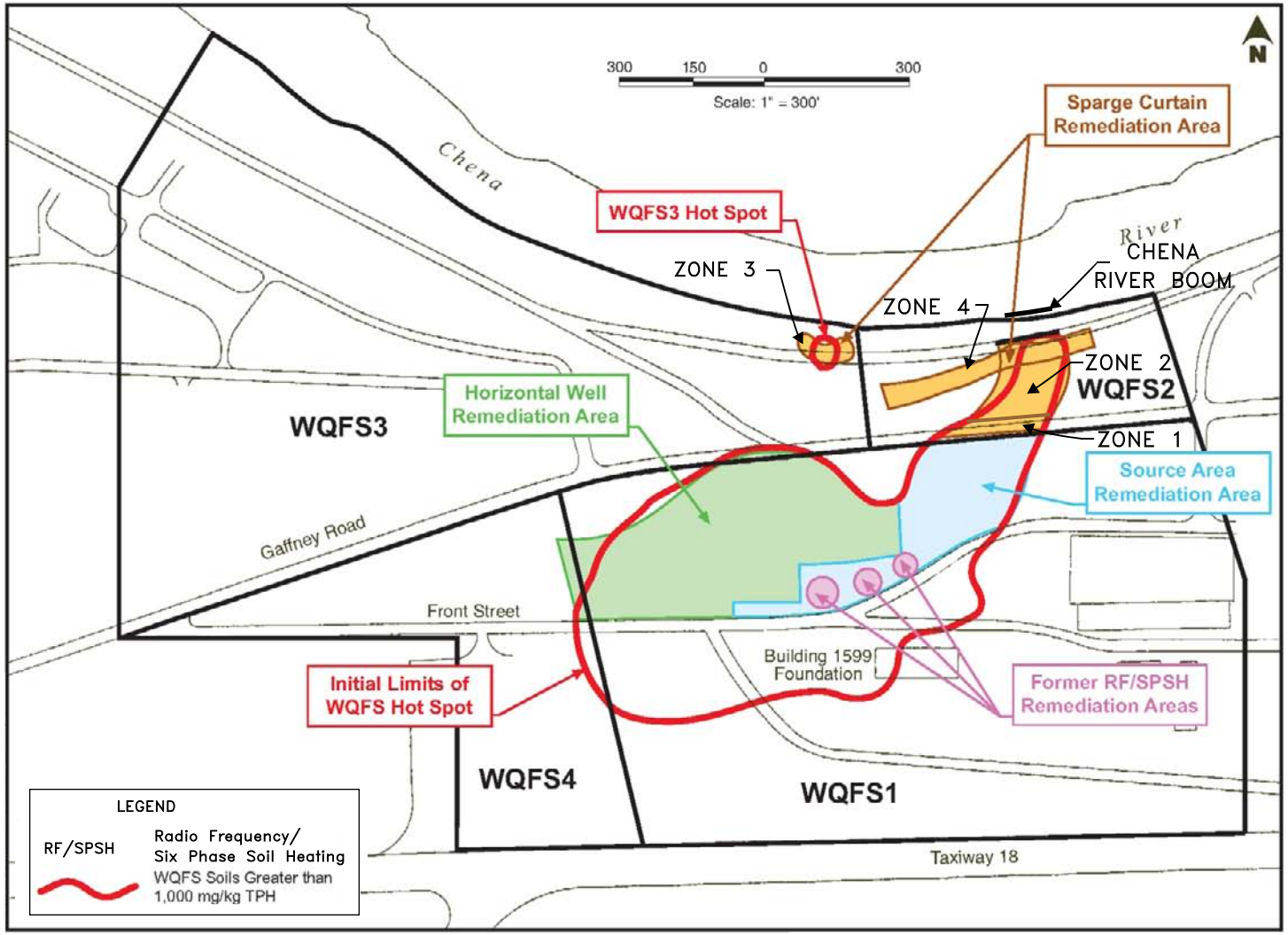
763AF


HAMPSTEAD AVENUE
SUTTON LOOP
BAINBRIDGE BLVD.
DAILEY STREET
JOHANSEN EXPRESSWAY
WALDEN ESTATES
N.T.S
FORT WAINWRIGHT RESERVATION BOUNDARY
REMEDIAL AREA 1A (IN BIRCH HILL TANK FARM)
FORMER LOCATION OF MOTOR POOL BUILDING 1168
MOTOR POOL BUILDING 1053 AND 1054
BUILDING 1565
EQFS
WQFS
MOTOR POOL BUILDING 3015
MOTOR POOL BUILDING 3421 AND 3425
MOTOR POOL BUILDING 3485 AND 3487
MOTOR POOL BUILDING 3479
A
B
C
D
E
NORTH
0 1500 3000 6000
SCALE IN FEET
LEGEND
CHENA RIVER AQUATIC ASSESSMENT SAMPLING SEGMENTS
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT
Operable Unit 5 Site Map
Five Year Review
Operable Unit 5
Fort Wainwright, Alaska
SOURCE: FES, 2006 5 Year
FIGURE: 8-1
DATE: 9/06

744AF


Former Retaining Structure
NORTH
CHENA
RIVER
LOADING RAMP
WQFS3
WQFS2
WQFS4
WQFS1
EQFS
BICYCLE PATH
TANK
FRONT STREET
ROAD
ABANDONED RAILROAD
APPLE
STREET
COMMUNICATIONS CENTER TELEPHONE
1060
1070
1059
1053
1056
1054
1050
1051
1049
1047
1045
1040
1041
1042
1043
1044
N.POST CHAPEL
BLDG.1
CHENA ROAD
1063
1064
BOQ
1028
1027
100TH
1562
1566
1560
MARKS ROAD
FREEMAN
FRONT
1575
1576
1579
1595
1572
1565
1563
1558
AIRFIELD OP'S
FLIGHT CONTROL TOWER 1580
1557 HANGAR 1
NORTH TAXIWAY
TAXIWAY D
TAXIWAY C
N-E (NORTH) RUNWAY 9155' X S 89°00'31"W (TRUE BEARING)
0 250 500 1000
SCALE IN FEET
ARMY ENVIRONMENTAL CENTER
CORPS OF ENGINEERS ALASKA DISTRICT
QFS Source Area Map
Five Year Review
Operable Unit 5
Fort Wainwright, Alaska
SOURCE: FES, 2006 5 Year
FIGURE: 8-2
DATE: 9/06

745AF



ARMY ENVIRONMENTAL CENTER

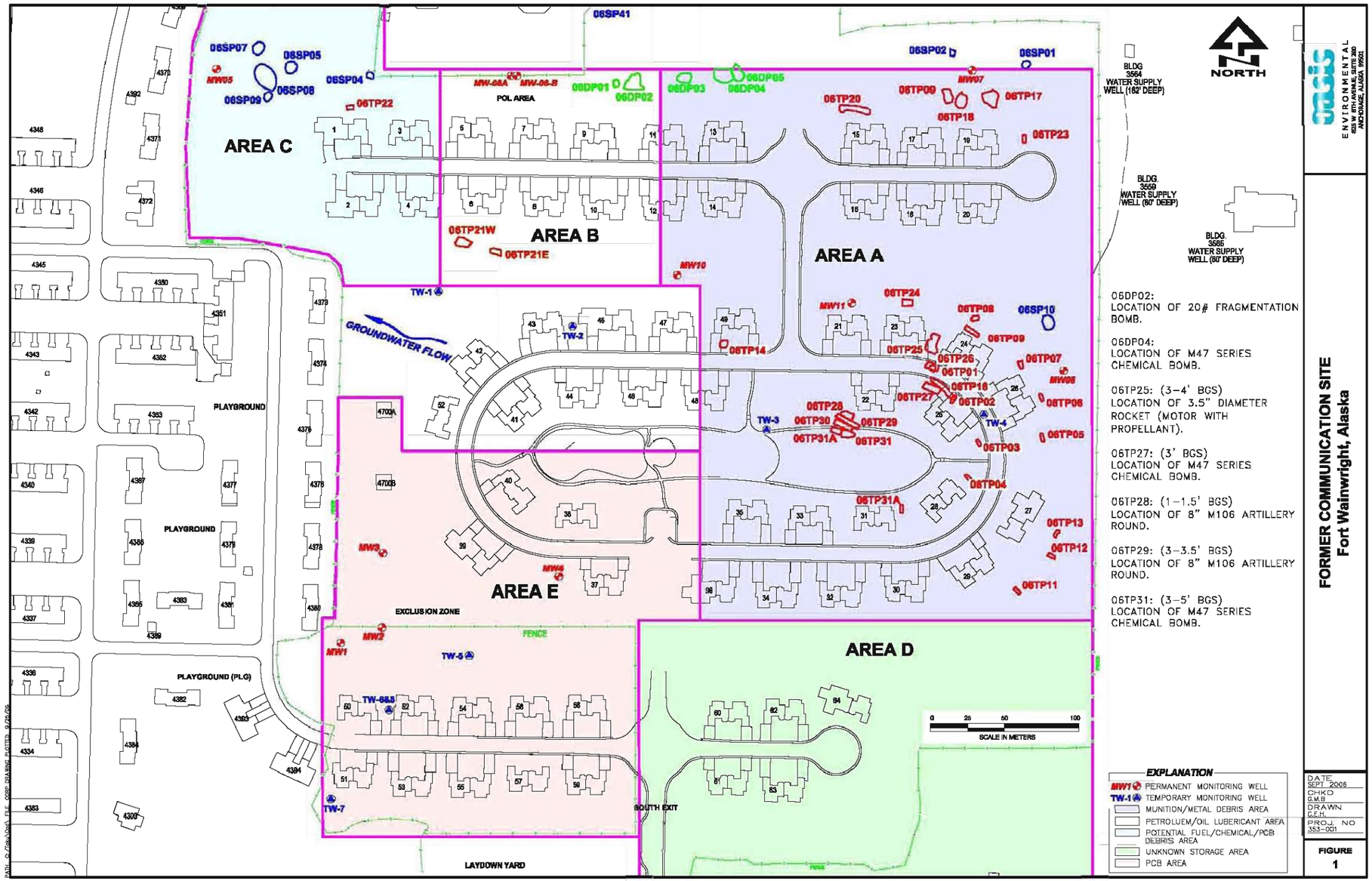
CORPS OF ENGINEERS
ALASKA DISTRICT

OU5 Remediation Systems

Five Year Review
Operable Unit 5
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
CH2MHILL, 2003 CLOSES	8–3	9/06

203C



06DP02:
LOCATION OF 20# FRAGMENTATION BOMB.

06DP04:
LOCATION OF M47 SERIES CHEMICAL BOMB.

06TP25: (3–4' BGS)
LOCATION OF 3.5" DIAMETER ROCKET (MOTOR WITH PROPELLANT).

06TP27: (3' BGS)
LOCATION OF M47 SERIES CHEMICAL BOMB.

06TP28: (1–1.5' BGS)
LOCATION OF 8" M106 ARTILLERY ROUND.

06TP29: (3–3.5' BGS)
LOCATION OF 8" M106 ARTILLERY ROUND.

06TP31: (3–5' BGS)
LOCATION OF M47 SERIES CHEMICAL BOMB.

oasis ENVIRONMENTAL
825 W 8TH AVENUE, SUITE 200
ANCHORAGE, ALASKA 99501

FORMER COMMUNICATION SITE
Fort Wainwright, Alaska

DATE	SEPT. 2006
CHKD	G.M.B.
DRAWN	S.E.H.
PROJ. NO	353-001

FIGURE 1

ARMY ENVIRONMENTAL CENTER | CORPS OF ENGINEERS ALASKA DISTRICT

Areas of Concern at the Former Communicaitons Site (Taku Gardens)

Five Year Review
New Source Area
Fort Wainwright, Alaska

SOURCE:	FIGURE:	DATE:
Oasis, September 2006	8-4	9/06

790AF

Well number

Sampling Date

AP-7455D 28 - 33	Apr-99	Dec-99	Aug-00
GW EL.	433.22	433.62	433.67
PRODUCT	ND	ND	ND
DRO	3,600	7,710	110,000
GRO	5,400	9,810	11,000
BENZENE	730	29.6	7.7
TOLUENE	140	91.5	22
TCE	1	9	6.2
1,2-DCA	33	ND(1)	ND(10)
EDB	ND(1)	0.93	0.28

Screened interval (feet bgs)

Groundwater elevation in feet (ft) above sea level NAVD-88

Product thickness in feet (ft)

Concentration in in µg/L

Concentrations exceeding RAOs shown in blue.

LEGEND:

AP-7455D	Monitoring Well
FB-4	Monitoring Probe
DRO	Diesel Range Organics
GRO	Gasoline Range Organics
TCE	Trichloroethylene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Dibromoethane
NS	Not sampled, well damaged
ND	Product not detected
ND(4)	Not detected (detection limit)
(*)	Detection limit not reported
NA	Not tested
NM	Not measured
NR	Not reported
RAO	Remedial Action Objective
*	Reported result was 960 mg/l
R	Data rejected

Contaminant of Concern	RAO (µg/L)
DRO	1,500
GRO	1,300
BENZENE	5
TOLUENE	1,000
TCE	5
1,2-DCA	5
EDB	0.05

ARMY ENVIRONMENTAL CENTER

CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of Analytes in Groundwater Source Area, Horizontal Well, & Sparge Curtain

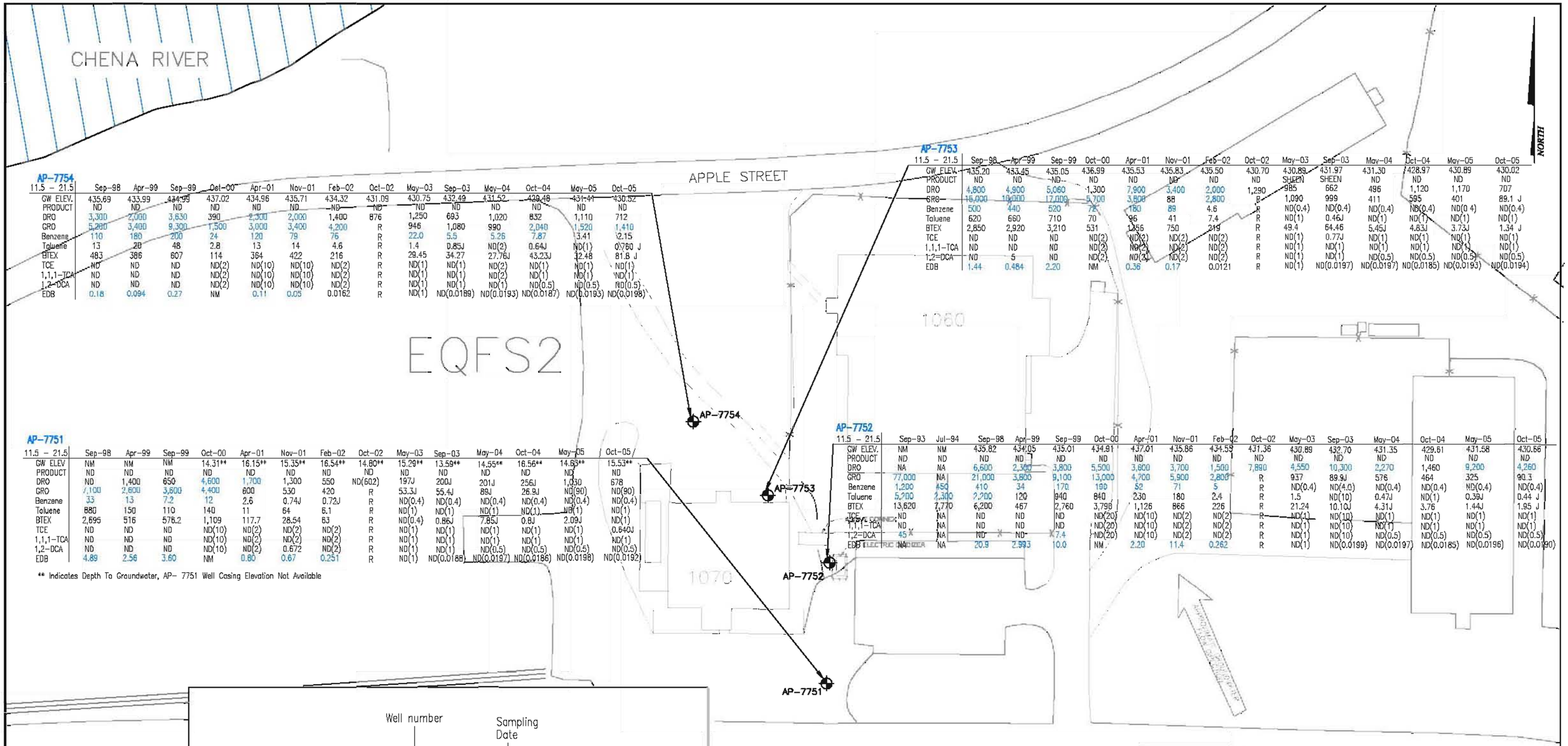
Five Year Review
Operable Unit 5
Fort Wainwright, Alaska

SOURCE: FES, November FFA

PLATE: 8-1

DATE: 9/06

755AF



AP-7754

11.5 – 21.5	Sep-98	Apr-99	Sep-99	Oct-00	Apr-01	Nov-01	Feb-02	Oct-02	May-03	Sep-03	May-04	Oct-04	May-05	Oct-05
GW ELEV.	435.69	433.99	434.99	437.02	434.96	435.71	434.32	431.09	430.75	432.49	431.52	429.48	431.41	430.52
PRODUCT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DRO	3,300	2,000	3,630	390	2,300	2,000	1,400	876	1,250	693	1,020	832	1,110	712
GRO	5,200	3,400	9,300	1,500	3,000	3,400	4,200	R	946	1,080	990	2,040	1,520	1,410
Benzene	110	180	200	24	120	79	76	R	22.0	5.5	5.26	7.87	3.41	2.15
Toluene	13	20	48	2.8	13	14	4.6	R	1.4	0.85J	ND(2)	0.64J	ND(1)	0.760 J
BTEX	483	386	607	114	364	422	216	R	29.45	34.27	27.76J	43.23J	32.48	81.8 J
TCE	ND	ND	ND	ND(2)	ND(10)	ND(10)	ND(2)	R	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)
1,1,1-TCA	ND	ND	ND	ND(2)	ND(10)	ND(10)	ND(2)	R	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)
1,2-DCA	ND	ND	ND	ND(2)	ND(10)	ND(10)	ND(2)	R	ND(1)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	0.18	0.094	0.27	NM	0.11	0.05	0.0162	R	ND(1)	ND(0.0189)	ND(0.0193)	ND(0.0187)	ND(0.0193)	ND(0.0198)

AP-7753

11.5 – 21.5	Sep-98	Apr-99	Sep-99	Oct-00	Apr-01	Nov-01	Feb-02	Oct-02	May-03	Sep-03	May-04	Oct-04	May-05	Oct-05
GW ELEV.	435.20	433.45	435.05	436.99	435.53	435.83	435.50	430.70	430.89	431.97	431.30	428.97	430.89	430.02
PRODUCT	ND	ND	ND	ND	ND	ND	ND	ND	SHEEN	SHEEN	ND	ND	ND	ND
DRO	4,800	4,900	5,060	1,300	7,900	3,400	2,000	1,290	985	662	496	1,120	1,170	707
GRO	15,000	10,000	17,000	5,700	3,800	88	2,800	R	1,090	999	411	595	401	89.1 J
Benzene	500	440	520	72	150	89	4.6	R	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
Toluene	620	660	710	70	96	41	7.4	R	ND(1)	0.46J	ND(1)	ND(1)	ND(1)	ND(1)
BTEX	2,850	2,920	3,210	531	1,355	750	219	R	49.4	64.46	5.45J	4.83J	3.73J	1.34 J
TCE	ND	ND	ND	ND(2)	ND(2)	ND(2)	ND(2)	R	ND(1)	0.77J	ND(1)	ND(1)	ND(1)	ND(1)
1,1,1-TCA	ND	ND	ND	ND(2)	ND(2)	ND(2)	ND(2)	R	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DCA	ND	5	ND	ND(2)	ND(2)	ND(2)	ND(2)	R	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	1.44	0.484	2.20	NM	0.36	0.17	0.0121	R	ND(1)	ND(0.0197)	ND(0.0197)	ND(0.0185)	ND(0.0193)	ND(0.0194)

AP-7751

11.5 – 21.5	Sep-98	Apr-99	Sep-99	Oct-00	Apr-01	Nov-01	Feb-02	Oct-02	May-03	Sep-03	May-04	Oct-04	May-05	Oct-05
GW ELEV	NM	NM	NM	14.31**	16.15**	15.35**	16.54**	14.80**	15.29**	13.59**	14.55**	16.56**	14.63**	15.53**
PRODUCT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DRO	ND	1,400	650	4,600	1,700	1,300	550	ND(602)	197J	200J	201J	256J	1,030	678
GRO	7,100	2,600	3,600	4,400	600	530	420	R	53.3J	55.4J	89J	26.9J	ND(90)	ND(90)
Benzene	33	13	7.2	12	2.6	0.74J	0.72J	R	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
Toluene	880	150	110	140	11	64	6.1	R	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
BTEX	2,695	516	576.2	1,109	117.7	28.54	63	R	ND(0.4)	0.86J	7.85J	0.8J	2.09J	ND(1)
TCE	ND	ND	ND	ND(10)	ND(2)	ND(2)	ND(2)	R	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.640J
1,1,1-TCA	ND	ND	ND	ND(10)	ND(2)	ND(2)	ND(2)	R	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DCA	ND	ND	ND	ND(10)	ND(2)	0.672	ND(2)	R	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	4.89	2.56	3.60	NM	0.80	0.67	0.251	R	ND(1)	ND(0.0188)	ND(0.0197)	ND(0.0186)	ND(0.0198)	ND(0.0192)

** Indicates Depth To Groundwater, AP- 7751 Well Casing Elevation Not Available

AP-7752

11.5 – 21.5	Sep-93	Jul-94	Sep-98	Apr-99	Sep-99	Oct-00	Apr-01	Nov-01	Feb-02	Oct-02	May-03	Sep-03	May-04	Oct-04	May-05	Oct-05
GW ELEV.	NM	NM	435.82	434.05	435.01	434.91	437.01	435.86	434.55	431.36	430.89	432.70	431.35	429.61	431.58	430.66
PRODUCT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DRO	NA	NA	6,600	2,300	3,800	5,500	3,600	3,700	1,500	7,890	4,550	10,300	2,270	1,460	9,200	4,260
GRO	77,000	NA	21,000	3,800	9,100	13,000	4,700	5,900	2,800	R	937	89.9J	576	464	325	90.3
Benzene	1,200	450	410	34	170	190	52	71	5	R	ND(0.4)	ND(4.0)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
Toluene	5,200	2,300	2,200	120	940	840	230	180	2.4	R	1.5	ND(10)	0.47J	ND(1)	0.39J	0.44 J
BTEX	13,620	7,770	6,200	467	2,760	3,798	1,126	866	226	R	21.24	10.10J	4.31J	3.76	1.44J	1.95 J
TCE	ND	NA	ND	ND	ND	ND(20)	ND(10)	ND(2)	ND(2)	R	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,1-TCA	ND	NA	ND	ND	ND	ND(20)	ND(10)	ND(2)	ND(2)	R	ND(1)	ND(10)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DCA	45	NA	ND	ND	7.4	ND(20)	ND(10)	ND(2)	ND(2)	R	ND(1)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
EDB	NA	NA	20.9	2.993	10.0	NM	2.20	11.4	0.262	R	ND(1)	ND(0.0199)	ND(0.0197)	ND(0.0185)	ND(0.0196)	ND(0.0190)

Well number

Sampling Date

Screened interval (feet bgs)

Groundwater elevation in feet (ft) above sea level NAVD-88

Product thickness in feet (ft)

AP-7751

11.5 – 21.5	Sep-98	Apr-99	Sep-99
GW ELEV.	NM	NM	NM
PRODUCT	ND	ND	ND
DRO	ND	1,400	650
GRO	7,100	2,600	3,600
Benzene	33	13	7.2
Toluene	880	150	110
BTEX	2,695	516	576.2
TCE	ND	ND	ND
1,1,1-TCA	ND	ND	ND
1,2-DCA	ND	ND	ND
EDB	4.89	2.56	3.60

Concentration in in µg/L

Concentrations exceeding RAOs shown in blue.

LEGEND:

AP-7751	Monitoring Well
DRO	Diesel Range Organics
GRO	Gasoline Range Organics
TCE	Trichloroethylene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Dibromoethane
ND(4)	Not detected (detection limit)
RAO	Remedial Action Objective
R	Data rejected
J	Estimated Value
(ug/L)	Micrograms per Liter

Contaminant of Concern	RAO (µg/L)
DRO	1,500
GRO	1,300
BENZENE	5
TOLUENE	1,000
TCE	5
1,2-DCA	5

ARMY ENVIRONMENTAL CENTER

CORPS OF ENGINEERS ALASKA DISTRICT

Concentrations of Analytes in Groundwater
Building 1060
Five Year Review
Operable Unit 5
Fort Wainwright, Alaska

SOURCE: FES, 2005 FFA MEETING | PLATE: 8-II | DATE: 9/06

757AF