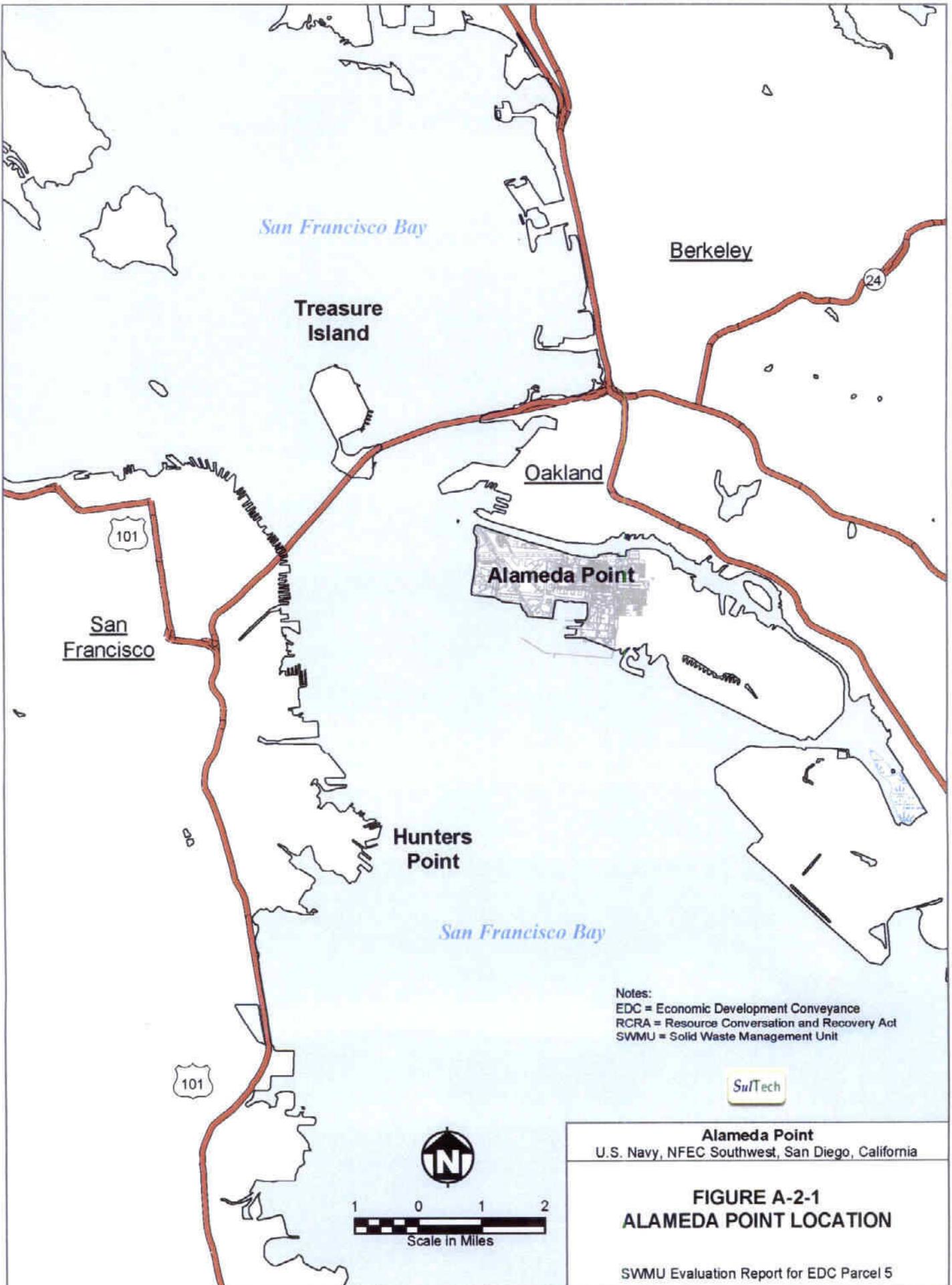
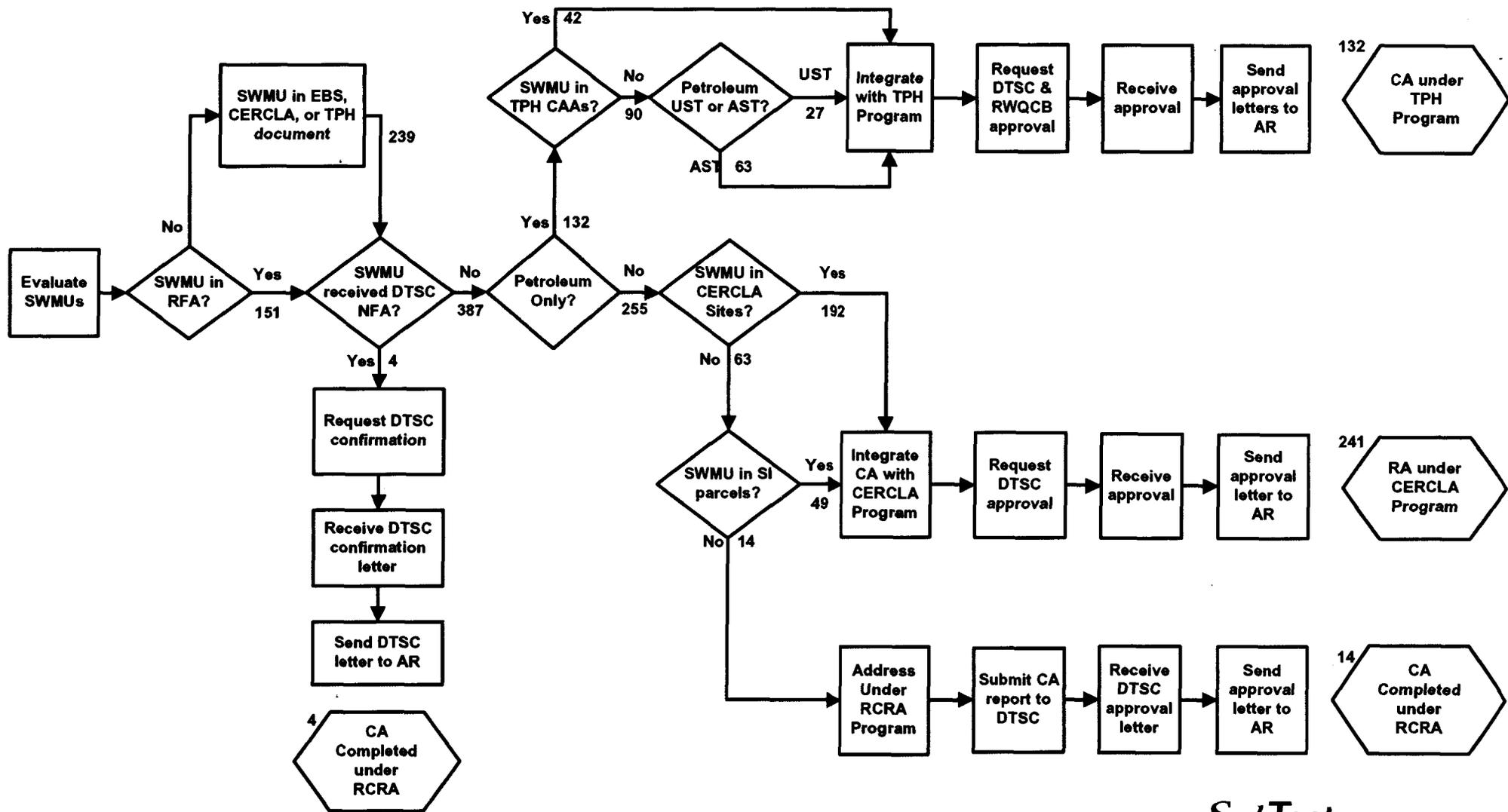


FIGURES





NOTES

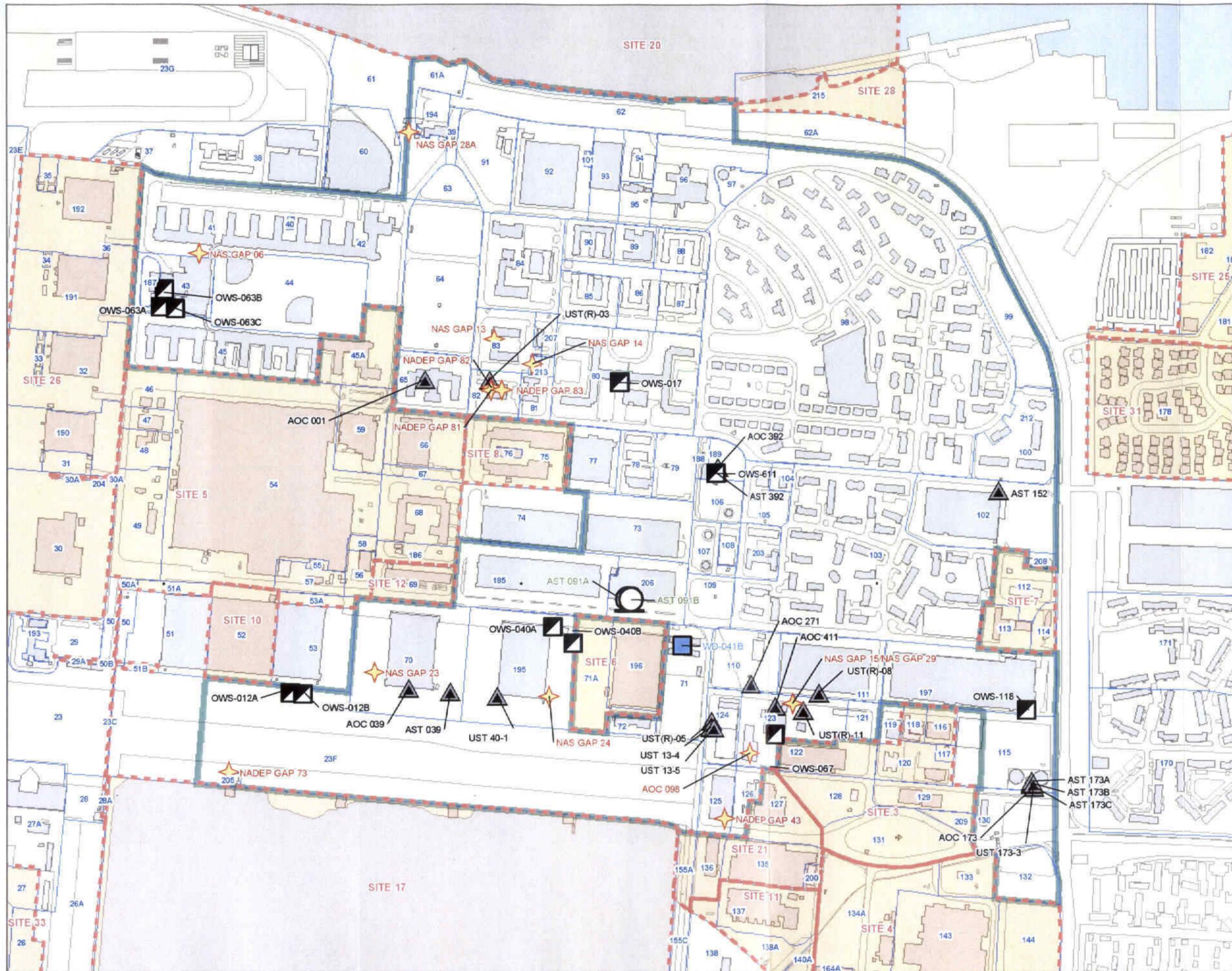
1. SWMUs include CERCLA sites, USTs, ASTs, oil-water separators, washdown areas and underground fuel pipelines but exclude RCRA regulated units
2. Numbers indicate number of SWMUs

ACRONYMS

AR	Administrative Record	RA	Response Action
AST	Aboveground Storage Tank	RCRA	Resource Conservation and Recovery Act
CA	Corrective Action	RFA	RCRA Facility Assessment
CAA	Corrective Action Area	RWQCB	Regional Water Quality Control Board
CERCLA	Comp. Env. Resp., Compensation, and Liability Act	SI	Site Investigation
DTSC	CA EPA Department of Toxic Substances Control	SWMU	Solid Waste Management Unit
EBS	Environmental Baseline Survey	TPH	Total Petroleum Hydrocarbon
NFA	No Further Action	UST	Underground Storage Tank

SulTech.

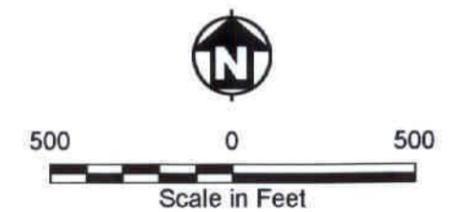
<p>Alameda Point U.S. Navy NFECS Southwest, San Diego, CA</p>
<p>Figure A-2-2 SOLID WASTE MANAGEMENT UNIT INTEGRATION APPROACH RCRA Hazardous Waste Facility Permit EPA ID CA 2170023236 NAS Alameda, Alameda, CA</p>
<p>SWMU Evaluation Report for Economic Development Conveyance Parcel 5</p>



- DISPOSAL PARCEL EDC-05
- CERCLA SITE
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
- GENERATION ACCUMULATION POINT (GAP)
- OIL-WATER SEPARATOR (OWS)
- WASHDOWN (WD) AREA
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- SWMUs INTEGRATED WITH THE TPH PROGRAM
- LAND COVER
- BUILDING
- Present
- Removed

Notes:

- AOC = Area of concern
- CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- EDC = Economic development conveyance
- NAS = Naval Air Station
- NADEP = Naval Aviation Depot
- TPH = Total petroleum hydrocarbons
- SWMU = Solid Waste Management Unit



Alameda Point
U.S. Navy, NFEC Southwest, San Diego, California

FIGURE A-3-1
SWMUs LOCATED WITHIN
EDC PARCEL 5

SWMU Evaluation Report for EDC Parcel 5



- SAMPLING LOCATIONS**
- ⊗ Direct-Push
 - Soil Boring
 - ⊗ Excavation
 - Surface Location
- OIL-WATER SEPARATOR (OWS)**
- ▣ Catch Basin
 - Manhole
 - Storm Sewer Line
- CERCLA SITE**
- ▭ Environmental Baseline Survey (EBS) Parcel
 - ▭ Land Cover
- BUILDING**
- ▭ Present
 - ▭ Removed

Notes:

B (inorganic) = Compound detected in an associated blank as well as the sample.

BLDG = Building

EDC = Economic development conveyance

J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

M = Mobile laboratory

mg/kg = Milligrams per kilogram

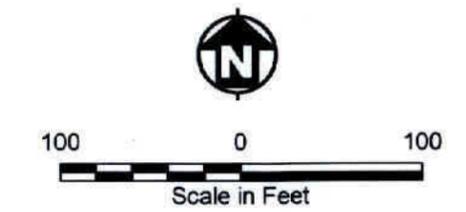
N (inorganic) = Value was estimated due to matrix spike recoveries being out of QC limits.

NA = Not analyzed

SWMU = Solid Waste Management Unit

TPH = Total petroleum hydrocarbons

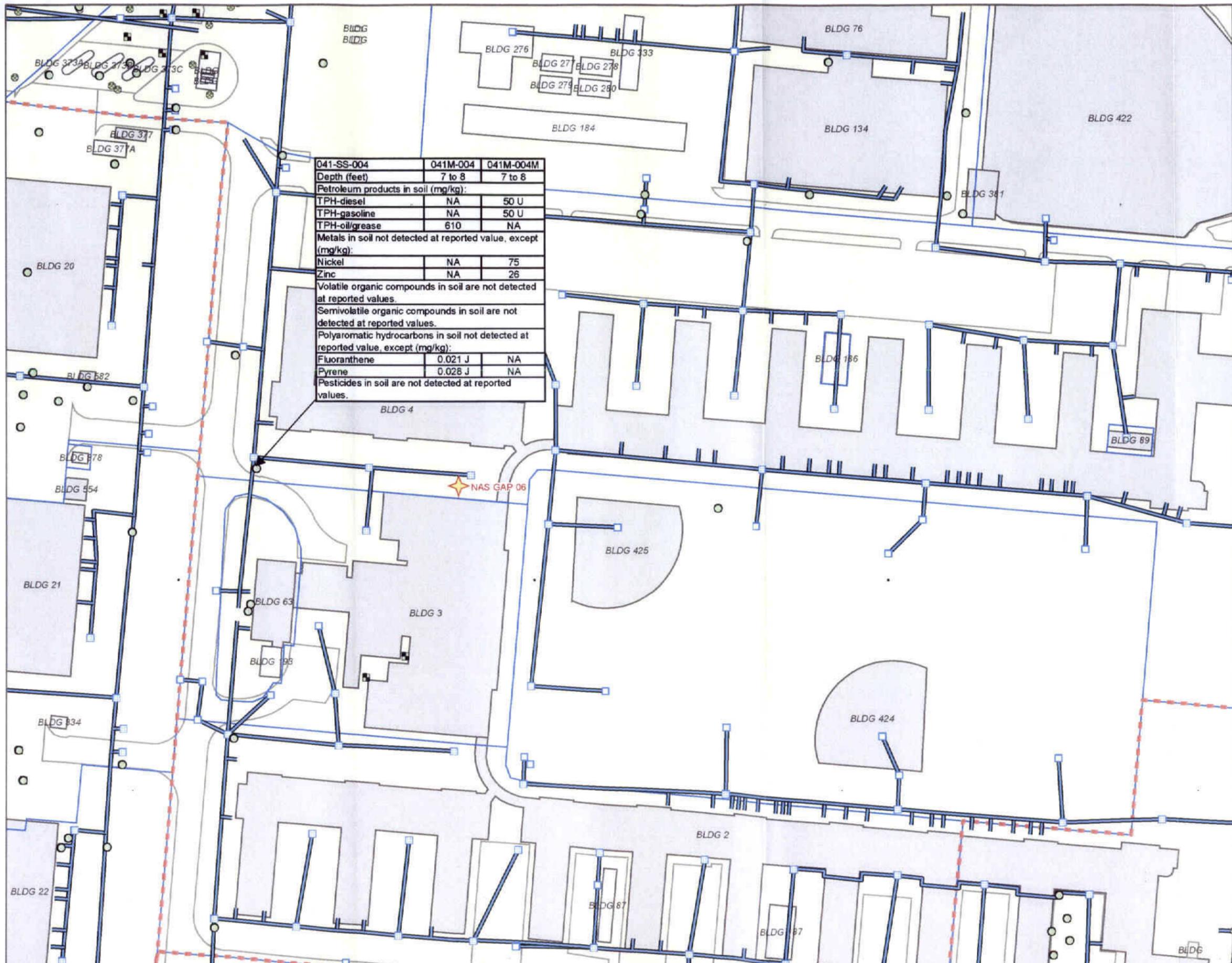
U = Analyzed for, but not detected (at reported value).



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U.S. Navy, NFEC Southwest, San Diego, California

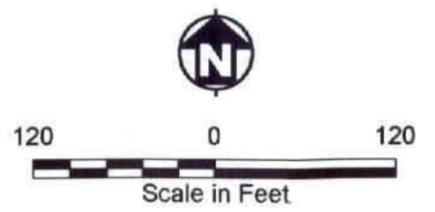
FIGURE A-3-2
EBS PARCEL 23F
OWS-012A & OWS-012B SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



- SAMPLING LOCATIONS**
- ⊗ Excavation
 - Soil Boring
 - Surface Location
 - ★ GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - ⋯ CERCLA SITE
 - ▭ ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - ▭ LAND COVER
- BUILDING**
- ▭ Present
 - ▭ Removed

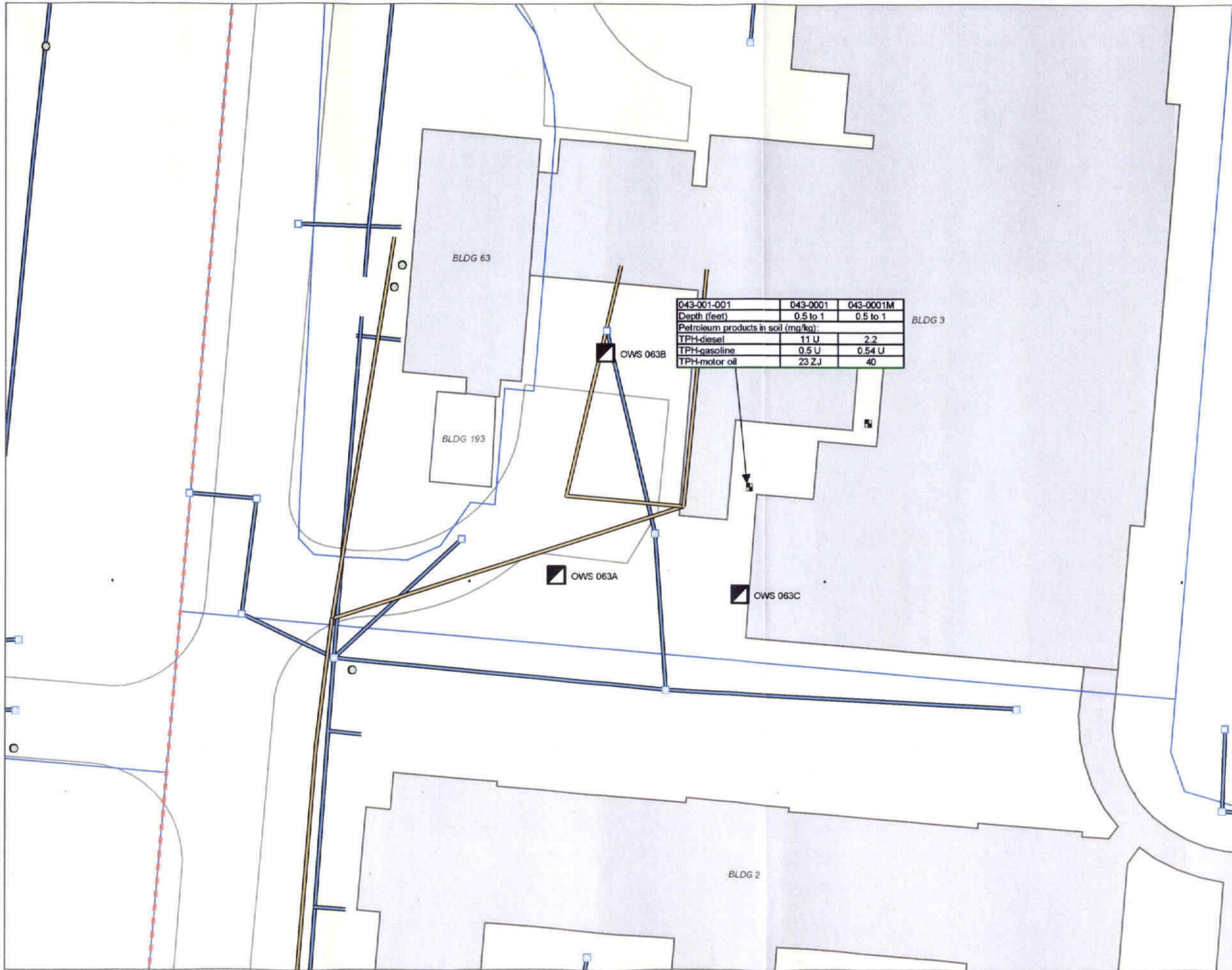
- Notes:**
- BLDG = Building
 - EDC = Economic development conveyance
 - J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - M = Mobile laboratory
 - mg/kg = Milligrams per kilogram
 - NA = Not analyzed
 - NAS = Naval Air Station
 - SWMU = Solid Waste Management Unit
 - TPH = Total petroleum hydrocarbons
 - U = Analyzed for, but not detected (at reported value).



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U.S. Navy, NFECSW, San Diego, California

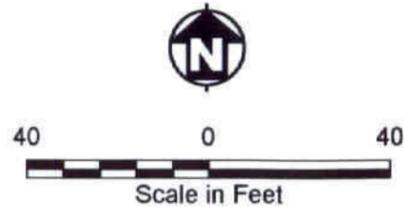
FIGURE A-3-3
EBS PARCEL 41
NAS GAP 06 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



- SAMPLING LOCATIONS**
- Soil Boring
 - Surface Location
 - ▣ OIL-WATER SEPARATOR (OWS)
 - CATCH BASIN
 - MANHOLE
 - SANITARY SEWER LINE
 - STORM SEWER LINE
 - ⋯ CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed

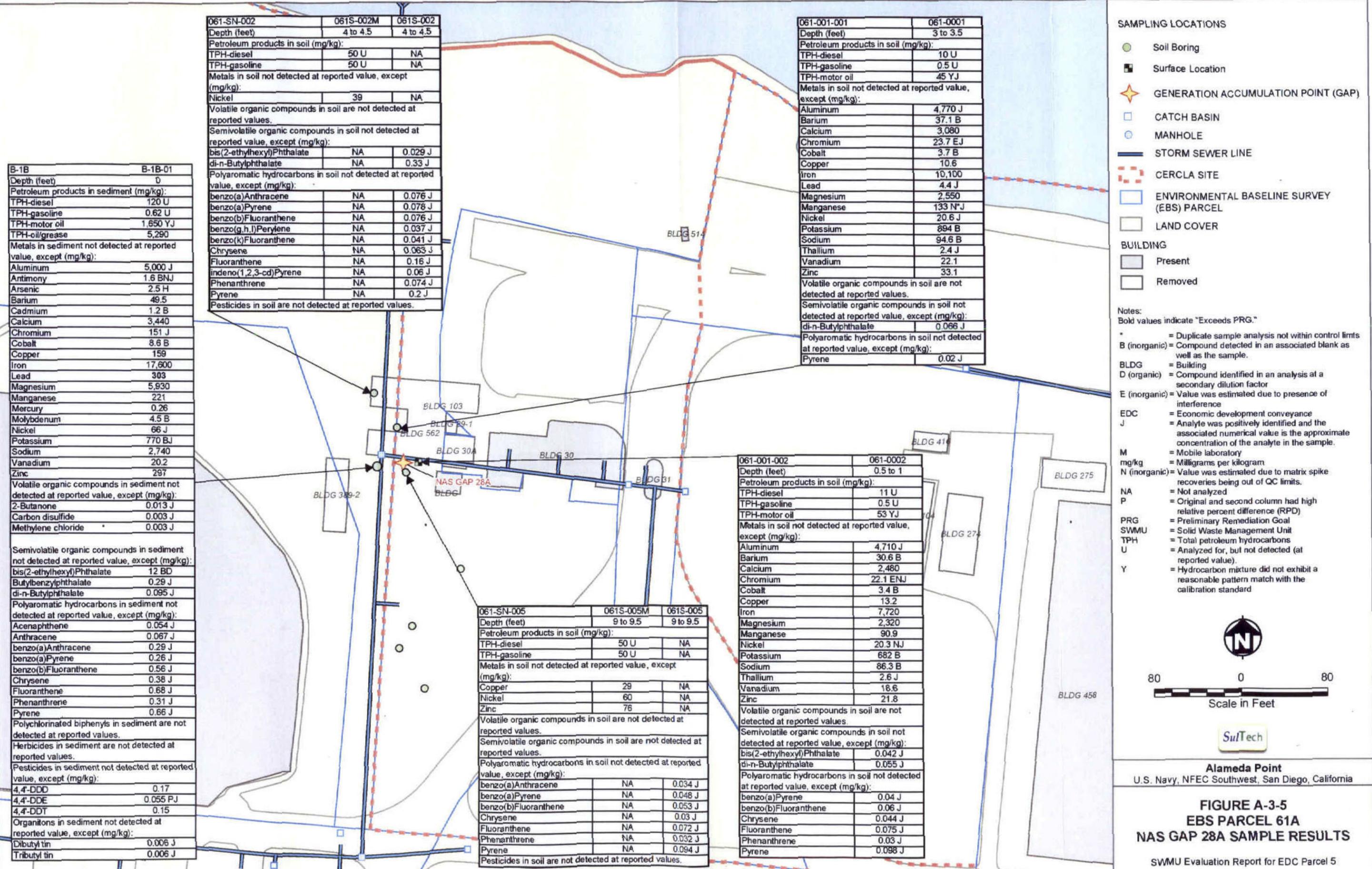
- Notes:**
- BLDG = Building
 - EDC = Economic development conveyance
 - J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - M = Mobile laboratory
 - mg/kg = Milligrams per kilogram
 - SWMU = Solid Waste Management Unit
 - TPH = Total petroleum hydrocarbons
 - U = Analyzed for, but not detected (at reported value).
 - Z (organic) = Analyte was estimated due to negative blank problems.



Alameda Point
U.S. Navy, NFEC Southwest, San Diego, California

FIGURE A-3-4
EBS PARCEL 43
OWS-063A & OWS-063B & OWS-063C
SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



061-SN-002	061S-002M	061S-002
Depth (feet)	4 to 4.5	4 to 4.5
Petroleum products in soil (mg/kg):		
TPH-diesel	50 U	NA
TPH-gasoline	50 U	NA
Metals in soil not detected at reported value, except (mg/kg):		
Nickel	39	NA
Volatile organic compounds in soil are not detected at reported values.		
Semivolatile organic compounds in soil not detected at reported value, except (mg/kg):		
bis(2-ethylhexyl)Phthalate	NA	0.029 J
di-n-Butylphthalate	NA	0.33 J
Polyaromatic hydrocarbons in soil not detected at reported value, except (mg/kg):		
benzo(a)Anthracene	NA	0.076 J
benzo(a)Pyrene	NA	0.078 J
benzo(b)Fluoranthene	NA	0.076 J
benzo(g,h,i)Perylene	NA	0.037 J
benzo(k)Fluoranthene	NA	0.041 J
Chrysene	NA	0.063 J
Fluoranthene	NA	0.16 J
indeno(1,2,3-cd)Pyrene	NA	0.06 J
Phenanthrene	NA	0.074 J
Pyrene	NA	0.2 J
Pesticides in soil are not detected at reported values.		

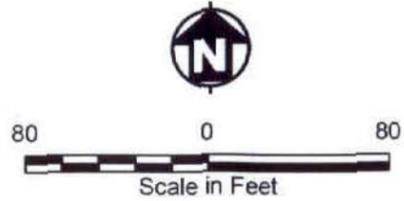
061-001-001	061-0001
Depth (feet)	3 to 3.5
Petroleum products in soil (mg/kg):	
TPH-diesel	10 U
TPH-gasoline	0.5 U
TPH-motor oil	45 YJ
Metals in soil not detected at reported value, except (mg/kg):	
Aluminum	4,770 J
Barium	37.1 B
Calcium	3,080
Chromium	23.7 EJ
Cobalt	3.7 B
Copper	10.6
Iron	10,100
Lead	4.4 J
Magnesium	2,550
Manganese	133 N*J
Nickel	20.6 J
Potassium	894 B
Sodium	94.6 B
Thallium	2.4 J
Vanadium	22.1
Zinc	33.1
Volatile organic compounds in soil are not detected at reported values.	
Semivolatile organic compounds in soil not detected at reported value, except (mg/kg):	
di-n-Butylphthalate	0.066 J
Polyaromatic hydrocarbons in soil not detected at reported value, except (mg/kg):	
Pyrene	0.02 J

B-1B	B-1B-01
Depth (feet)	0
Petroleum products in sediment (mg/kg):	
TPH-diesel	120 U
TPH-gasoline	0.62 U
TPH-motor oil	1,650 YJ
TPH-oil/grease	5,290
Metals in sediment not detected at reported value, except (mg/kg):	
Aluminum	5,000 J
Antimony	1.6 BNJ
Arsenic	2.5 H
Barium	49.5
Cadmium	1.2 B
Calcium	3,440
Chromium	151 J
Cobalt	8.6 B
Copper	159
Iron	17,600
Lead	303
Magnesium	5,930
Manganese	221
Mercury	0.26
Molybdenum	4.5 B
Nickel	66 J
Potassium	770 BJ
Sodium	2,740
Vanadium	20.2
Zinc	297
Volatile organic compounds in sediment not detected at reported value, except (mg/kg):	
2-Butanone	0.013 J
Carbon disulfide	0.003 J
Methylene chloride	0.003 J
Semivolatile organic compounds in sediment not detected at reported value, except (mg/kg):	
bis(2-ethylhexyl)Phthalate	12 BD
Butylbenzylphthalate	0.29 J
di-n-Butylphthalate	0.095 J
Polyaromatic hydrocarbons in sediment not detected at reported value, except (mg/kg):	
Acenaphthene	0.054 J
Anthracene	0.067 J
benzo(a)Anthracene	0.29 J
benzo(a)Pyrene	0.26 J
benzo(b)Fluoranthene	0.56 J
Chrysene	0.38 J
Fluoranthene	0.68 J
Phenanthrene	0.31 J
Pyrene	0.66 J
Polychlorinated biphenyls in sediment are not detected at reported values.	
Herbicides in sediment are not detected at reported values.	
Pesticides in sediment not detected at reported value, except (mg/kg):	
4,4'-DDD	0.17
4,4'-DDE	0.055 PJ
4,4'-DDT	0.15
Organitons in sediment not detected at reported value, except (mg/kg):	
Dibutyl tin	0.006 J
Tributyl tin	0.006 J

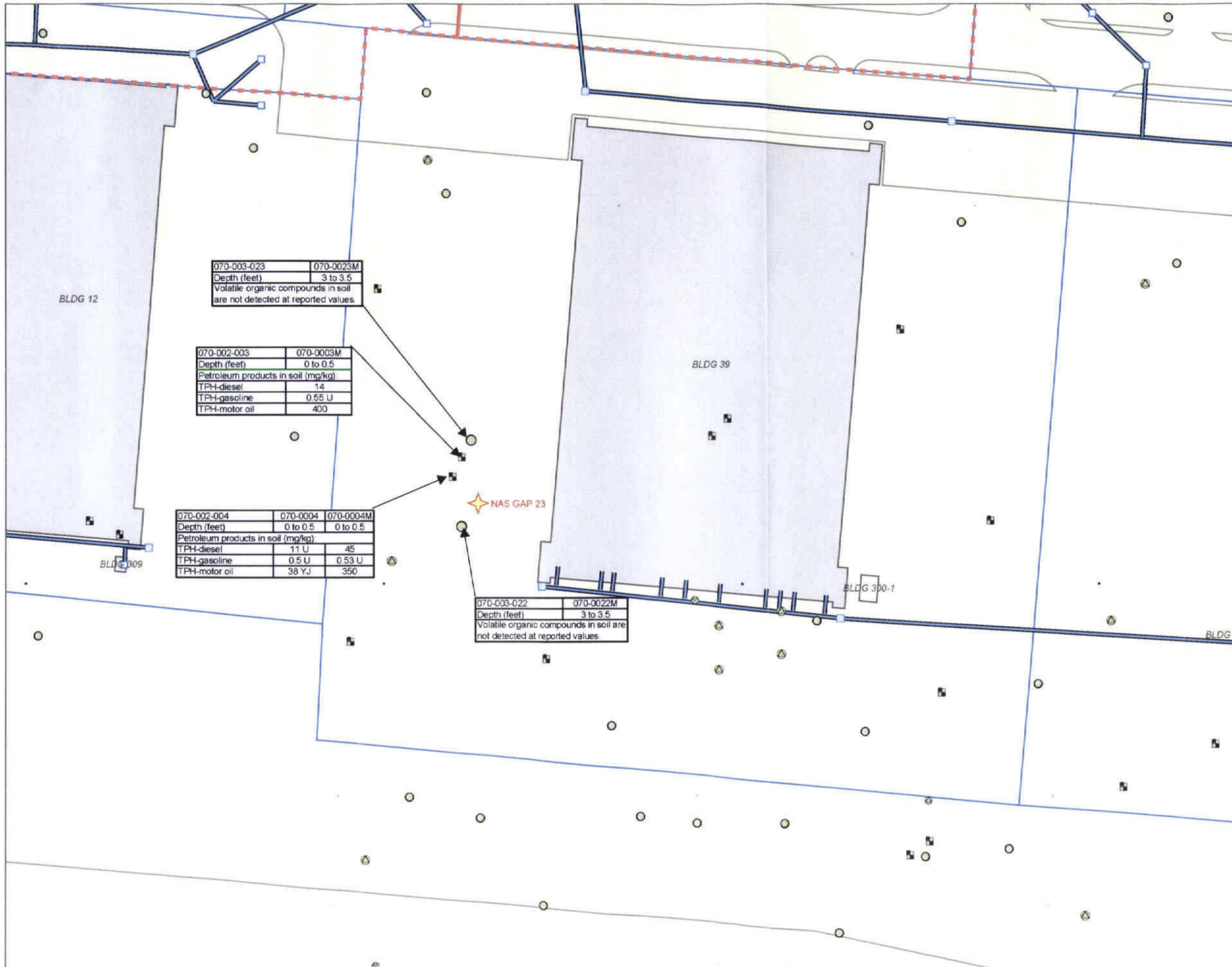
061-SN-005	061S-005M	061S-005
Depth (feet)	9 to 9.5	9 to 9.5
Petroleum products in soil (mg/kg):		
TPH-diesel	50 U	NA
TPH-gasoline	50 U	NA
Metals in soil not detected at reported value, except (mg/kg):		
Copper	29	NA
Nickel	60	NA
Zinc	76	NA
Volatile organic compounds in soil are not detected at reported values.		
Semivolatile organic compounds in soil are not detected at reported values.		
Polyaromatic hydrocarbons in soil not detected at reported value, except (mg/kg):		
benzo(a)Anthracene	NA	0.034 J
benzo(a)Pyrene	NA	0.048 J
benzo(b)Fluoranthene	NA	0.053 J
Chrysene	NA	0.03 J
Fluoranthene	NA	0.072 J
Phenanthrene	NA	0.032 J
Pyrene	NA	0.094 J
Pesticides in soil are not detected at reported values.		

061-001-002	061-0002
Depth (feet)	0.5 to 1
Petroleum products in soil (mg/kg):	
TPH-diesel	11 U
TPH-gasoline	0.5 U
TPH-motor oil	53 YJ
Metals in soil not detected at reported value, except (mg/kg):	
Aluminum	4,710 J
Barium	30.6 B
Calcium	2,480
Chromium	22.1 ENJ
Cobalt	3.4 B
Copper	13.2
Iron	7,720
Magnesium	2,320
Manganese	90.9
Nickel	20.3 NJ
Potassium	682 B
Sodium	86.3 B
Thallium	2.6 J
Vanadium	18.6
Zinc	21.8
Volatile organic compounds in soil are not detected at reported values.	
Semivolatile organic compounds in soil not detected at reported value, except (mg/kg):	
bis(2-ethylhexyl)Phthalate	0.042 J
di-n-Butylphthalate	0.055 J
Polyaromatic hydrocarbons in soil not detected at reported value, except (mg/kg):	
benzo(a)Pyrene	0.04 J
benzo(b)Fluoranthene	0.06 J
Chrysene	0.044 J
Fluoranthene	0.075 J
Phenanthrene	0.03 J
Pyrene	0.098 J

- SAMPLING LOCATIONS**
- Soil Boring
 - Surface Location
 - ★ GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - ⊞ CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed
- Notes:**
 Bold values indicate "Exceeds PRG."
 * = Duplicate sample analysis not within control limits
 B (inorganic) = Compound detected in an associated blank as well as the sample.
 BLDG = Building
 D (organic) = Compound identified in an analysis at a secondary dilution factor
 E (inorganic) = Value was estimated due to presence of interference
 EDC = Economic development conveyance
 J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 M = Mobile laboratory
 mg/kg = Milligrams per kilogram
 N (inorganic) = Value was estimated due to matrix spike recoveries being out of QC limits.
 NA = Not analyzed
 P = Original and second column had high relative percent difference (RPD)
 PRG = Preliminary Remediation Goal
 SWMU = Solid Waste Management Unit
 TPH = Total petroleum hydrocarbons
 U = Analyzed for, but not detected (at reported value).
 Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard




Alameda Point
 U.S. Navy, NFEC Southwest, San Diego, California
FIGURE A-3-5
EBS PARCEL 61A
NAS GAP 28A SAMPLE RESULTS
 SWMU Evaluation Report for EDC Parcel 5



070-003-023	070-0023M
Depth (feet)	3 to 3.5
Volatile organic compounds in soil are not detected at reported values.	

070-002-003	070-0003M
Depth (feet)	0 to 0.5
Petroleum products in soil (mg/kg)	
TPH-diesel	14
TPH-gasoline	0.55 U
TPH-motor oil	400

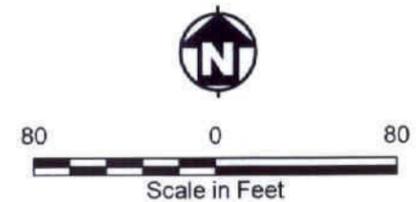
070-002-004	070-0004	070-0004M
Depth (feet)	0 to 0.5	0 to 0.5
Petroleum products in soil (mg/kg)		
TPH-diesel	11 U	45
TPH-gasoline	0.5 U	0.53 U
TPH-motor oil	38 YJ	350

070-003-022	070-0022M
Depth (feet)	3 to 3.5
Volatile organic compounds in soil are not detected at reported values.	

- SAMPLING LOCATIONS**
- Direct-Push
 - Excavation
 - Soil Boring
 - Surface Location
 - GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed

Notes:

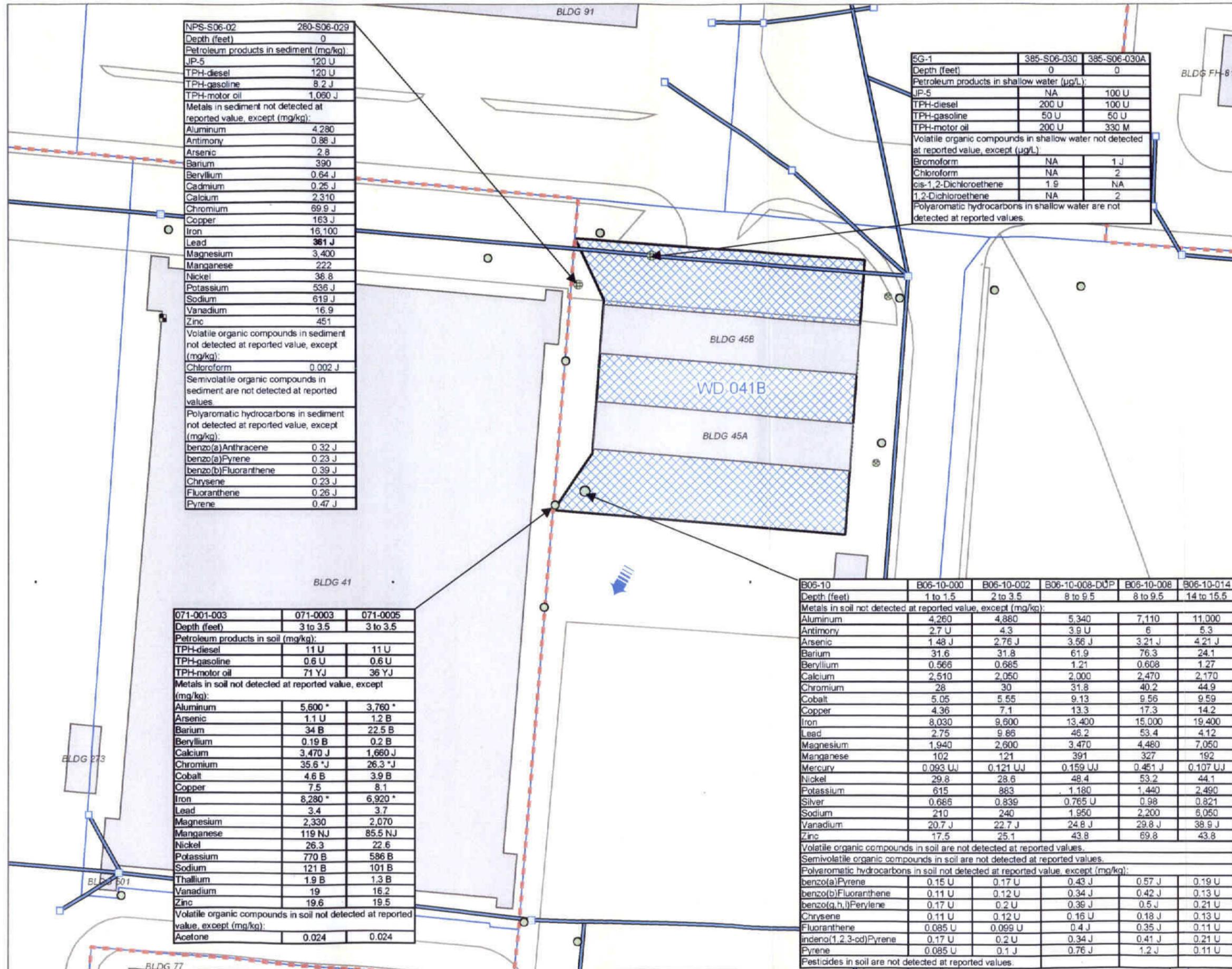
BLDG = Building
 EDC = Economic development conveyance
 J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 M = Mobile laboratory
 mg/kg = Milligrams per kilogram
 NAS = Naval Air Station
 SWMU = Solid Waste Management Unit
 TPH = Total petroleum hydrocarbons
 U = Analyzed for, but not detected (at reported value).
 Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard.



Alameda Point
 U.S. Navy, NFEC Southwest, San Diego, California

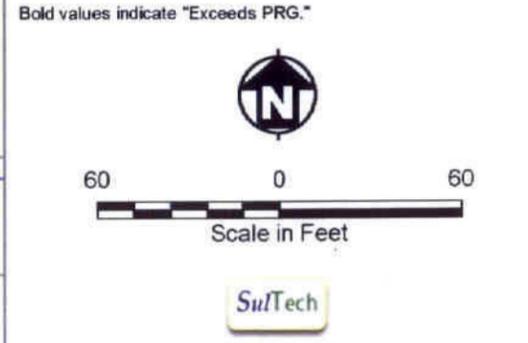
FIGURE A-3-6
EBS PARCEL 70
NAS GAP 23 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



- SAMPLING LOCATIONS**
- ⊗ Excavation
 - ⊕ Manhole/Stormdrain
 - Soil Boring
 - Surface Location
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - ➔ APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 - ▨ WASHDOWN (WD) AREA
 - ⋯ CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
 - BUILDING**
 - Present
 - Removed

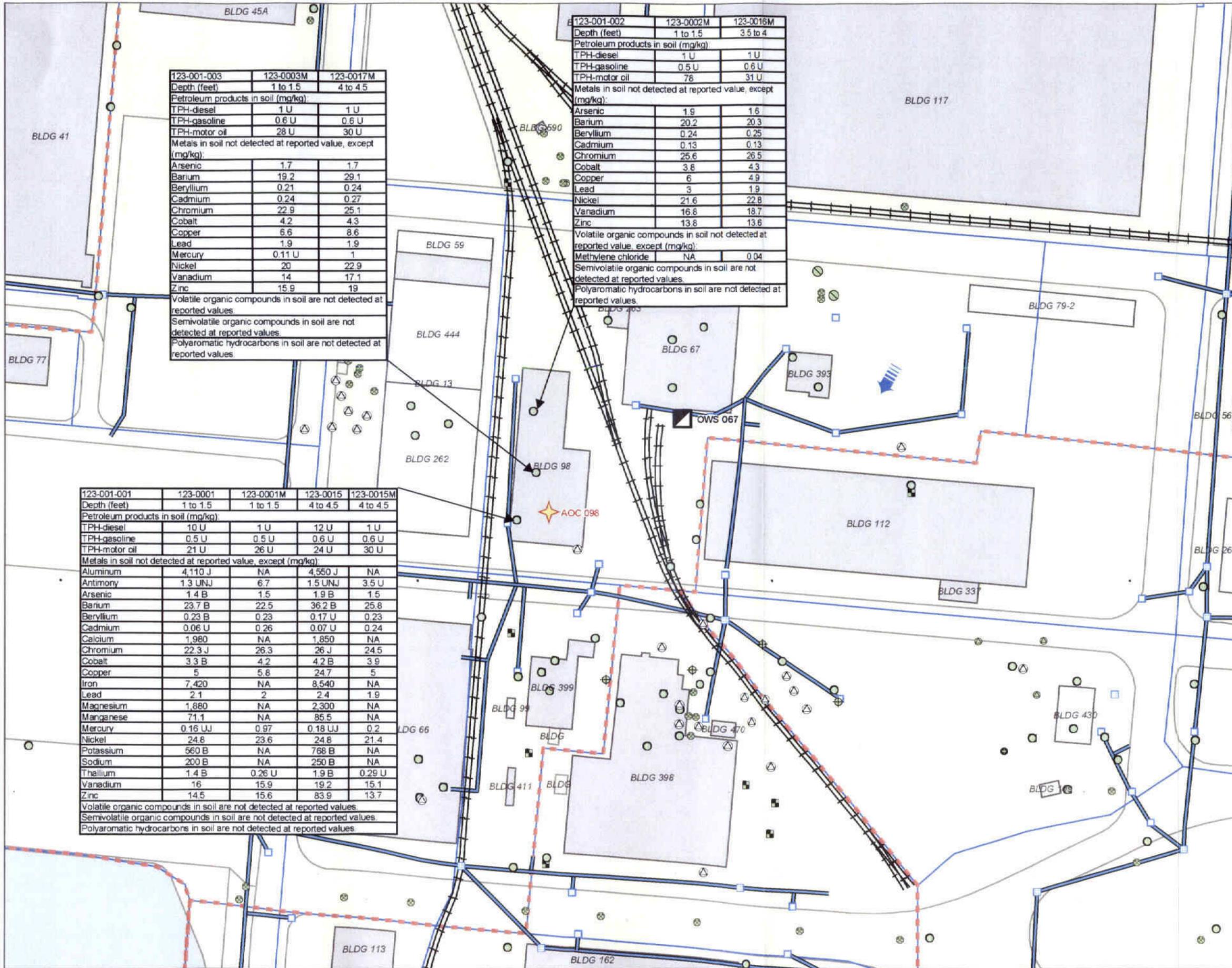
- Notes:**
- * = Duplicate sample analysis not within control limits.
 - µg/L = Micrograms per liter
 - B (inorganic) = Compound detected in an associated blank as well as the sample.
 - BLDG = Building
 - EDC = Economic development conveyance
 - J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - JP-5 = Jet propellant-5
 - mg/kg = Milligrams per kilogram
 - N (inorganic) = Value was estimated due to matrix spike recoveries being out of QC limits.
 - NA = Not analyzed
 - PRG = Preliminary Remediation Goal
 - SWMU = Solid Waste Management Unit
 - TPH = Total petroleum hydrocarbons
 - U = Analyzed for, but not detected (at reported value).
 - Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard.



Alameda Point
U.S. Navy, NFEC Southwest, San Diego, California

FIGURE A-3-7
EBS PARCEL 71
WD 041B SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



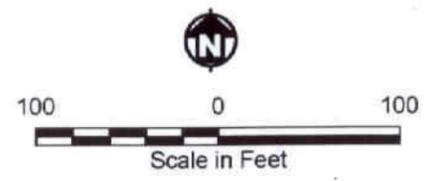
123-001-003	123-0003M	123-0017M
Depth (feet)	1 to 1.5	4 to 4.5
Petroleum products in soil (mg/kg):		
TPH-diesel	1 U	1 U
TPH-gasoline	0.6 U	0.6 U
TPH-motor oil	28 U	30 U
Metals in soil not detected at reported value, except (mg/kg):		
Arsenic	1.7	1.7
Barium	19.2	29.1
Beryllium	0.21	0.24
Cadmium	0.24	0.27
Chromium	22.9	25.1
Cobalt	4.2	4.3
Copper	6.6	8.6
Lead	1.9	1.9
Mercury	0.11 U	1
Nickel	20	22.9
Vanadium	14	17.1
Zinc	15.9	19
Volatile organic compounds in soil are not detected at reported values.		
Semivolatile organic compounds in soil are not detected at reported values.		
Polyaromatic hydrocarbons in soil are not detected at reported values.		

123-001-002	123-0002M	123-0016M
Depth (feet)	1 to 1.5	3.5 to 4
Petroleum products in soil (mg/kg):		
TPH-diesel	1 U	1 U
TPH-gasoline	0.5 U	0.6 U
TPH-motor oil	78	31 U
Metals in soil not detected at reported value, except (mg/kg):		
Arsenic	1.9	1.6
Barium	20.2	20.3
Beryllium	0.24	0.25
Cadmium	0.13	0.13
Chromium	25.6	25.5
Cobalt	3.8	4.3
Copper	6	4.9
Lead	3	1.9
Nickel	21.6	22.8
Vanadium	16.8	18.7
Zinc	13.8	13.6
Volatile organic compounds in soil not detected at reported value, except (mg/kg):		
Methylene chloride	NA	0.04
Semivolatile organic compounds in soil are not detected at reported values.		
Polyaromatic hydrocarbons in soil are not detected at reported values.		

123-001-001	123-0001	123-0001M	123-0015	123-0015M
Depth (feet)	1 to 1.5	1 to 1.5	4 to 4.5	4 to 4.5
Petroleum products in soil (mg/kg):				
TPH-diesel	10 U	1 U	12 U	1 U
TPH-gasoline	0.5 U	0.5 U	0.6 U	0.6 U
TPH-motor oil	21 U	26 U	24 U	30 U
Metals in soil not detected at reported value, except (mg/kg):				
Aluminum	4,110 J	NA	4,550 J	NA
Antimony	1.3 UNJ	6.7	1.5 UNJ	3.5 U
Arsenic	1.4 B	1.5	1.9 B	1.5
Barium	23.7 B	22.5	36.2 B	25.8
Beryllium	0.23 B	0.23	0.17 U	0.23
Cadmium	0.06 U	0.26	0.07 U	0.24
Calcium	1,980	NA	1,850	NA
Chromium	22.3 J	26.3	26 J	24.5
Cobalt	3.3 B	4.2	4.2 B	3.9
Copper	5	5.8	24.7	5
Iron	7,420	NA	8,540	NA
Lead	2.1	2	2.4	1.9
Magnesium	1,880	NA	2,300	NA
Manganese	71.1	NA	85.5	NA
Mercury	0.16 UJ	0.97	0.18 UJ	0.2
Nickel	24.8	23.6	24.8	21.4
Potassium	560 B	NA	768 B	NA
Sodium	200 B	NA	250 B	NA
Thallium	1.4 B	0.26 U	1.9 B	0.29 U
Vanadium	16	15.9	19.2	15.1
Zinc	14.5	15.6	83.9	13.7
Volatile organic compounds in soil are not detected at reported values.				
Semivolatile organic compounds in soil are not detected at reported values.				
Polyaromatic hydrocarbons in soil are not detected at reported values.				

- SAMPLING LOCATIONS**
- Direct-Push
 - Excavation
 - Soil Boring
 - Soil Punch
 - Surface Location
- GENERATION ACCUMULATION POINT (GAP)**
- OIL-WATER SEPARATOR (OWS)**
- CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - RAILROAD
 - APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER

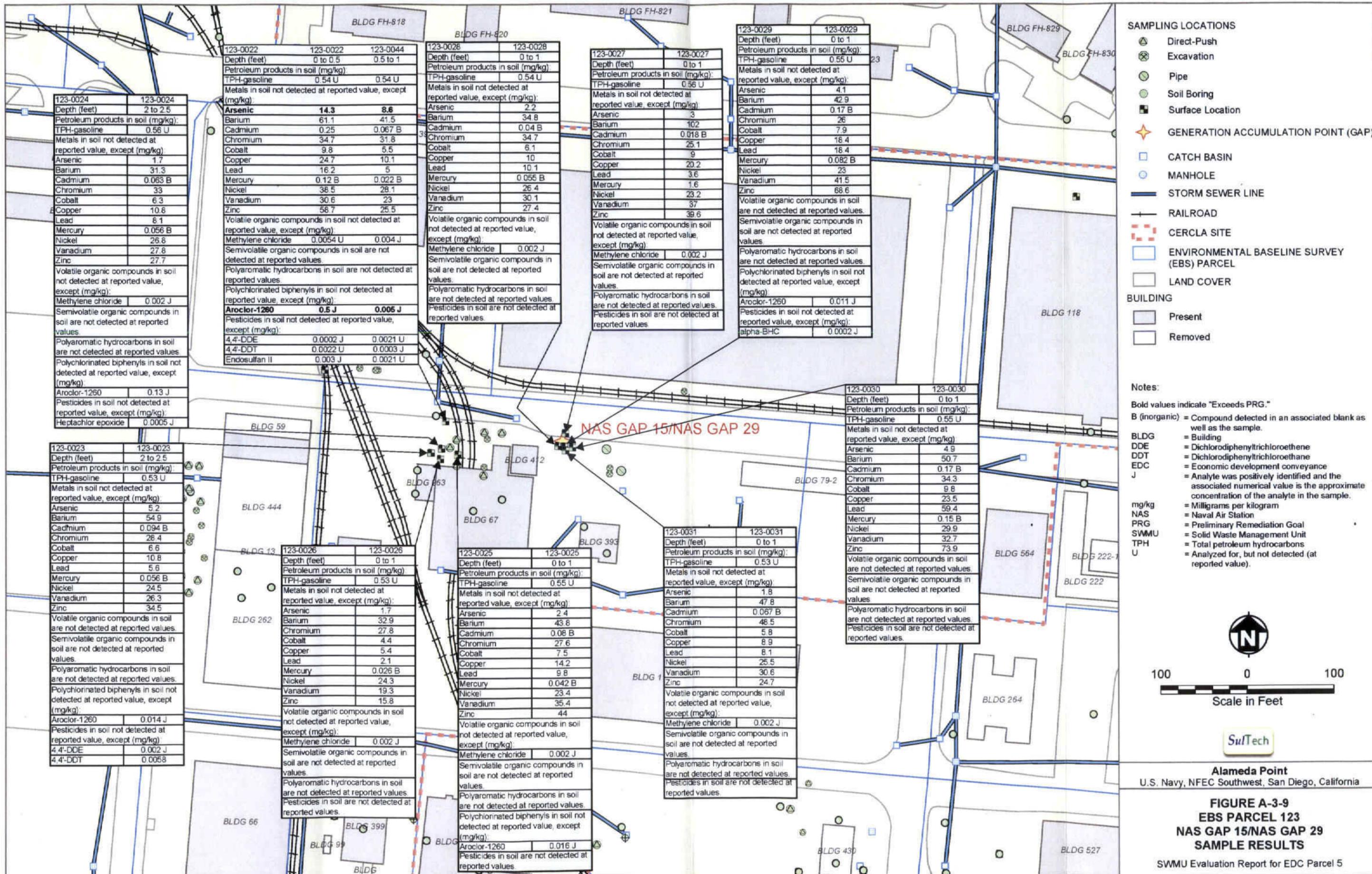
- BUILDING**
- Present
 - Removed
- Notes:**
- µg/L = Micrograms per liter
 - AOC = Area of concern
 - B (inorganic) = Compound detected in an associated blank as well as the sample.
 - BLDG = Building
 - EDC = Economic development conveyance
 - J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - M = Mobile laboratory
 - mg/kg = Milligrams per kilogram
 - N (inorganic) = Value was estimated due to matrix spike* recoveries being out of QC limits.
 - NA = Not analyzed
 - SWMU = Solid Waste Management Unit
 - TPH = Total petroleum hydrocarbons
 - U = Analyzed for, but not detected (at reported value).
 - Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard.



Alameda Point
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE A-3-8
EBS PARCEL 123
AOC 098 & OWS-067 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



SAMPLING LOCATIONS

- ⊙ Direct-Push
- ⊗ Excavation
- ⊙ Pipe
- ⊙ Soil Boring
- ⊙ Surface Location

GENERATION ACCUMULATION POINT (GAP)

- ★

CATCH BASIN

-

MANHOLE

-

STORM SEWER LINE

-

RAILROAD

-

CERCLA SITE

- ⊞

ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL

-

LAND COVER

- Present
- Removed

Notes:

Bold values indicate "Exceeds PRG."

B (inorganic) = Compound detected in an associated blank as well as the sample.

BLDG = Building

DDE = Dichlorodiphenyltrichloroethene

DDT = Dichlorodiphenyltrichloroethane

EDC = Economic development conveyance

J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

mg/kg = Milligrams per kilogram

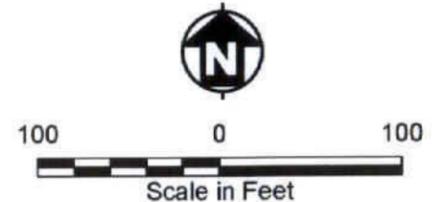
NAS = Naval Air Station

PRG = Preliminary Remediation Goal

SWMU = Solid Waste Management Unit

TPH = Total petroleum hydrocarbons

U = Analyzed for, but not detected (at reported value).



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FIGURE A-3-9
EBS PARCEL 123
NAS GAP 15/NAS GAP 29
SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5

123-0024	123-0024
Depth (feet)	2 to 2.5
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.56 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	1.7
Barium	31.3
Cadmium	0.063 B
Chromium	33
Cobalt	6.3
Copper	10.8
Lead	8.1
Mercury	0.056 B
Nickel	26.8
Vanadium	27.8
Zinc	27.7
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Polychlorinated biphenyls in soil not detected at reported value, except (mg/kg):	
Aroclor-1260	0.13 J
Pesticides in soil not detected at reported value, except (mg/kg):	
Heptachlor epoxide	0.0005 J

123-0022	123-0022	123-0044
Depth (feet)	0 to 0.5	0.5 to 1
Petroleum products in soil (mg/kg):		
TPH-gasoline	0.54 U	0.54 U
Metals in soil not detected at reported value, except (mg/kg):		
Arsenic	14.3	8.6
Barium	61.1	41.5
Cadmium	0.25	0.067 B
Chromium	34.7	31.8
Cobalt	9.8	5.5
Copper	24.7	10.1
Lead	16.2	5
Mercury	0.12 B	0.022 B
Nickel	38.5	28.1
Vanadium	30.6	23
Zinc	58.7	25.5
Volatile organic compounds in soil not detected at reported value, except (mg/kg):		
Methylene chloride	0.0054 U	0.004 J
Semivolatile organic compounds in soil are not detected at reported values.		
Polyaromatic hydrocarbons in soil are not detected at reported values.		
Polychlorinated biphenyls in soil not detected at reported value, except (mg/kg):		
Aroclor-1260	0.5 J	0.005 J
Pesticides in soil not detected at reported value, except (mg/kg):		
4,4'-DDE	0.0002 J	0.0021 U
4,4'-DDT	0.0022 U	0.0003 J
Endosulfan II	0.003 J	0.0021 U

123-0028	123-0028
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.54 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	2.2
Barium	34.8
Cadmium	0.04 B
Chromium	34.7
Cobalt	6.1
Copper	10
Lead	10.1
Mercury	0.055 B
Nickel	26.4
Vanadium	30.1
Zinc	27.4
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Pesticides in soil are not detected at reported values.	

123-0027	123-0027
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.56 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	3
Barium	102
Cadmium	0.018 B
Chromium	25.1
Cobalt	9
Copper	20.2
Lead	3.6
Mercury	1.6
Nickel	23.2
Vanadium	37
Zinc	39.6
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Pesticides in soil are not detected at reported values.	

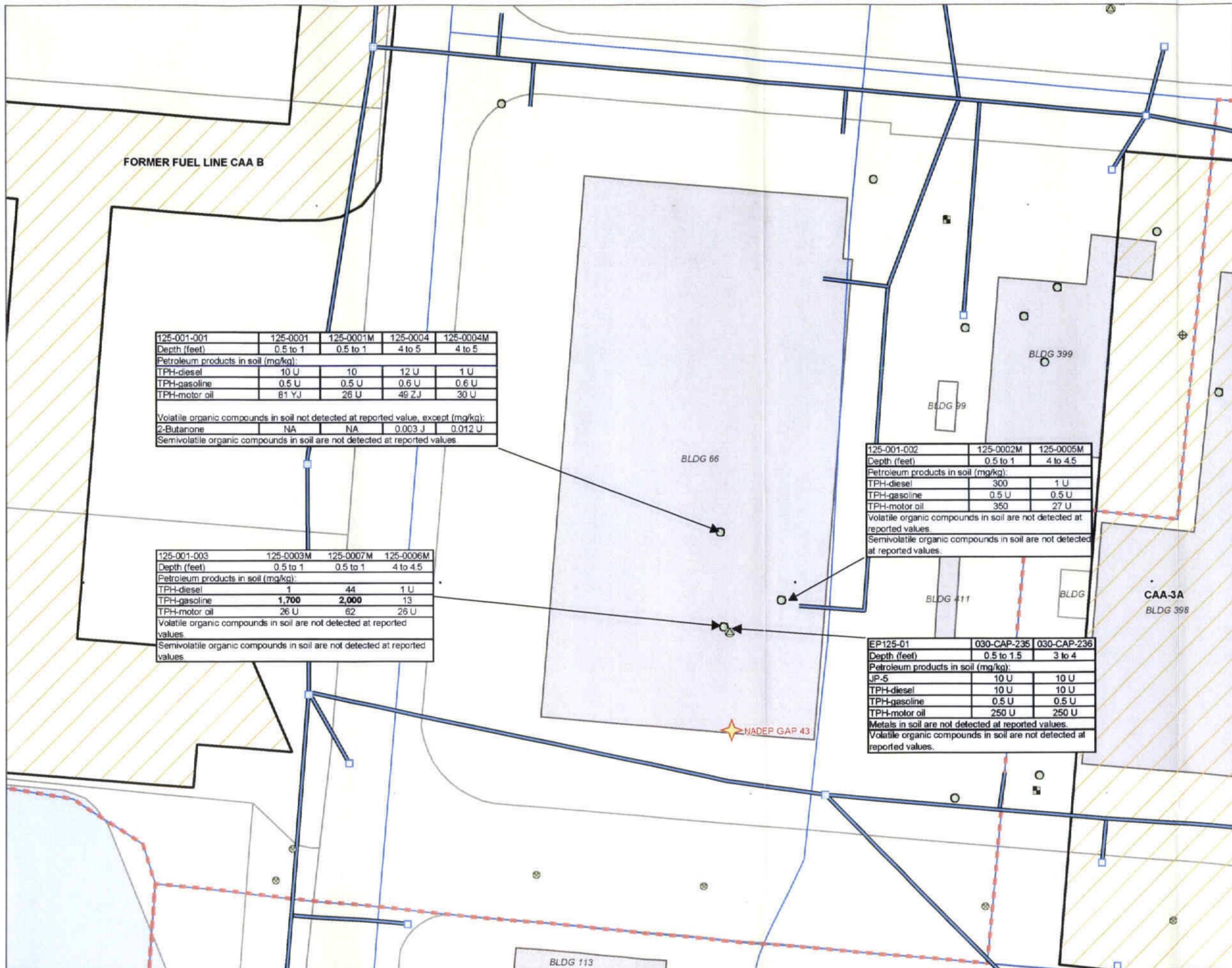
123-0029	123-0029
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.55 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	4.1
Barium	42.9
Cadmium	0.17 B
Chromium	26
Cobalt	7.9
Copper	18.4
Lead	18.4
Mercury	0.082 B
Nickel	23
Vanadium	41.5
Zinc	68.6
Volatile organic compounds in soil are not detected at reported values.	
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Polychlorinated biphenyls in soil not detected at reported value, except (mg/kg):	
Aroclor-1260	0.011 J
Pesticides in soil not detected at reported value, except (mg/kg):	
alpha-BHC	0.0002 J

123-0030	123-0030
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.55 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	4.9
Barium	50.7
Cadmium	0.17 B
Chromium	34.3
Cobalt	9.8
Copper	23.5
Lead	59.4
Mercury	0.15 B
Nickel	29.9
Vanadium	32.7
Zinc	73.9
Volatile organic compounds in soil are not detected at reported values.	
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Pesticides in soil are not detected at reported values.	

123-0031	123-0031
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.53 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	1.8
Barium	47.8
Cadmium	0.067 B
Chromium	48.5
Cobalt	5.8
Copper	8.9
Lead	8.1
Nickel	25.5
Vanadium	30.6
Zinc	24.7
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Pesticides in soil are not detected at reported values.	

123-0026	123-0026
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.53 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	1.7
Barium	32.9
Chromium	27.8
Cobalt	4.4
Copper	5.4
Lead	2.1
Mercury	0.026 B
Nickel	24.3
Vanadium	19.3
Zinc	15.8
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Polychlorinated biphenyls in soil not detected at reported value, except (mg/kg):	
Aroclor-1260	0.016 J
Pesticides in soil are not detected at reported values.	

123-0025	123-0025
Depth (feet)	0 to 1
Petroleum products in soil (mg/kg):	
TPH-gasoline	0.55 U
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	2.4
Barium	43.8
Cadmium	0.08 B
Chromium	27.6
Cobalt	7.5
Copper	14.2
Lead	9.8
Mercury	0.042 B
Nickel	23.4
Vanadium	35.4
Zinc	44
Volatile organic compounds in soil not detected at reported value, except (mg/kg):	
Methylene chloride	0.002 J
Semivolatile organic compounds in soil are not detected at reported values.	
Polyaromatic hydrocarbons in soil are not detected at reported values.	
Polychlorinated biphenyls in soil not detected at reported value, except (mg/kg):	
Aroclor-1260	0.016 J
Pesticides in soil are not detected at reported values.	



125-001-001	125-0001	125-0001M	125-0004	125-0004M
Depth (feet)	0.5 to 1	0.5 to 1	4 to 5	4 to 5
Petroleum products in soil (mg/kg):				
TPH-diesel	10 U	10	12 U	1 U
TPH-gasoline	0.5 U	0.5 U	0.6 U	0.6 U
TPH-motor oil	81 YJ	26 U	49 ZJ	30 U
Volatile organic compounds in soil not detected at reported value, except (mg/kg):				
2-Butanone	NA	NA	0.003 J	0.012 U
Semivolatile organic compounds in soil are not detected at reported values				

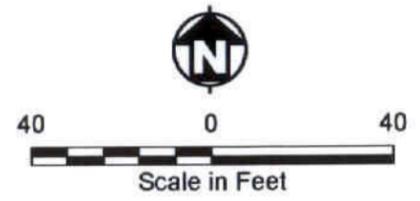
125-001-003	125-0003M	125-0007M	125-0006M
Depth (feet)	0.5 to 1	0.5 to 1	4 to 4.5
Petroleum products in soil (mg/kg):			
TPH-diesel	1	44	1 U
TPH-gasoline	1,700	2,000	13
TPH-motor oil	26 U	62	26 U
Volatile organic compounds in soil are not detected at reported values			
Semivolatile organic compounds in soil are not detected at reported values			

125-001-002	125-0002M	125-0005M
Depth (feet)	0.5 to 1	4 to 4.5
Petroleum products in soil (mg/kg):		
TPH-diesel	300	1 U
TPH-gasoline	0.5 U	0.5 U
TPH-motor oil	350	27 U
Volatile organic compounds in soil are not detected at reported values		
Semivolatile organic compounds in soil are not detected at reported values		

EP125-01	030-CAP-235	030-CAP-236
Depth (feet)	0.5 to 1.5	3 to 4
Petroleum products in soil (mg/kg):		
JP-5	10 U	10 U
TPH-diesel	10 U	10 U
TPH-gasoline	0.5 U	0.5 U
TPH-motor oil	250 U	250 U
Metals in soil are not detected at reported values		
Volatile organic compounds in soil are not detected at reported values		

- SAMPLING LOCATIONS**
- ⊙ Direct-Push
 - Soil Boring
 - ⊗ Excavation
 - ★ GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - ⊕ MANHOLE
 - STORM SEWER LINE
 - ⬡ CERCLA SITE
 - ⬢ ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - ▭ LAND COVER
- BUILDING**
- ▭ Present
 - ▭ Removed

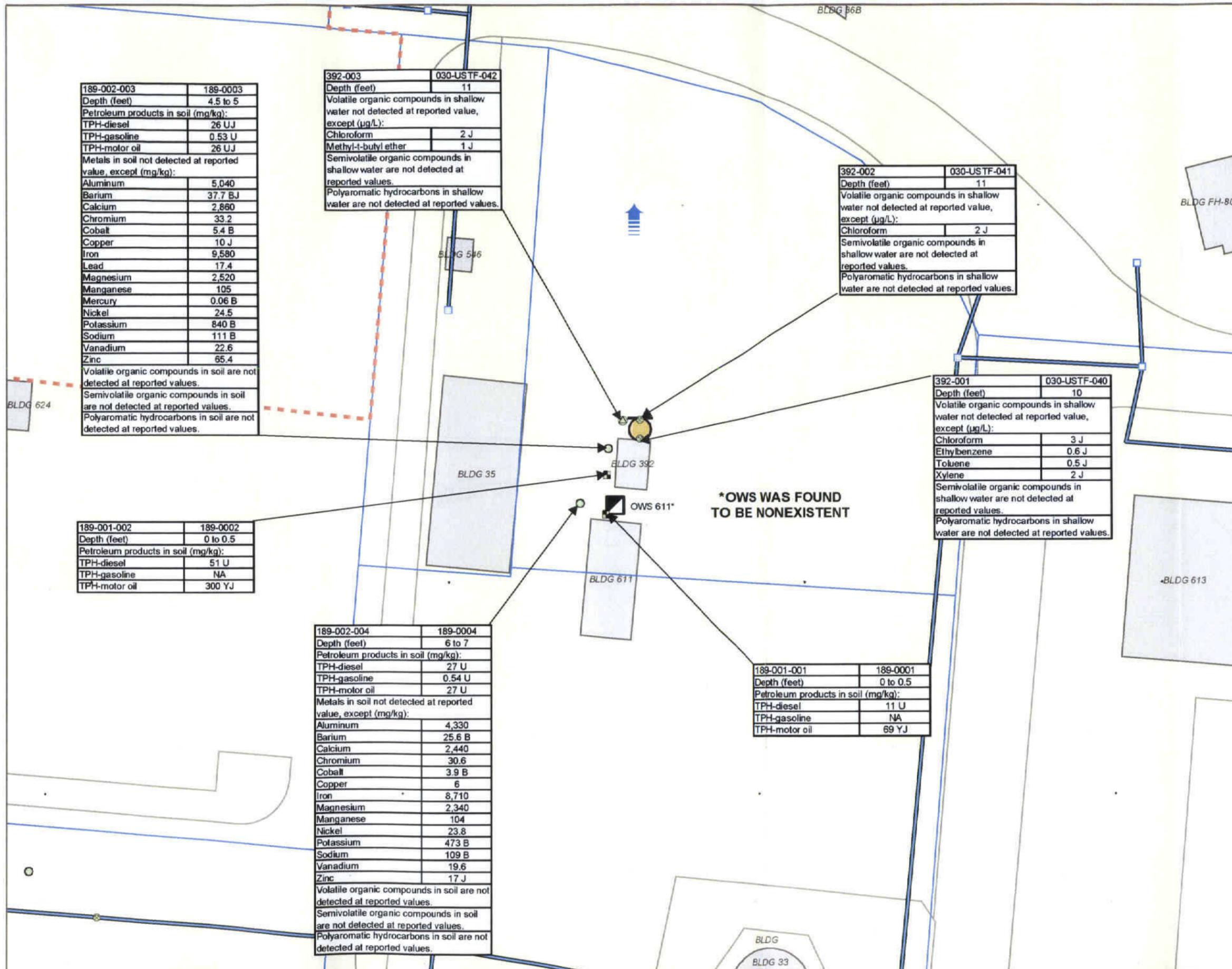
- Notes:**
- Bold values indicate "Exceeds PRC."**
- BLDG = Building
 - EDC = Economic development conveyance
 - J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 - JP-5 = Jet propellant-5
 - M = Mobile laboratory
 - mg/kg = Milligrams per kilogram
 - NADEP = Naval Aviation Depot
 - PRC = Preliminary Remediation Criteria
 - SWMU = Solid Waste Management Unit
 - TPH = Total petroleum hydrocarbons
 - U = Analyzed for, but not detected (at reported value)
 - Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard
 - Z (organic) = Analyte was estimated due to negative blank problems



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FIGURE A-3-10
EBS PARCEL 125
NADEP GAP 43 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



SAMPLE LOCATION

- Direct-Push
- Excavation
- Soil Boring
- Surface Location

OIL-WATER SEPARATOR (OWS)

- OIL-WATER SEPARATOR (OWS)

UNDERGROUND STORAGE TANK (UST) 392-1

- UNDERGROUND STORAGE TANK (UST) 392-1

CATCH BASIN

- CATCH BASIN

MANHOLE

- MANHOLE

STORM SEWER LINE

- STORM SEWER LINE

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

CERCLA SITE

- CERCLA SITE

ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL

- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL

LAND COVER

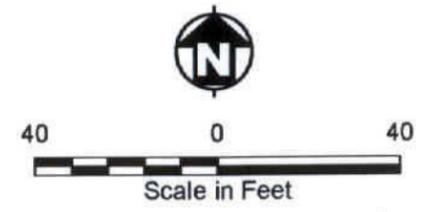
- LAND COVER

BUILDING

- Present
- Removed

Notes:

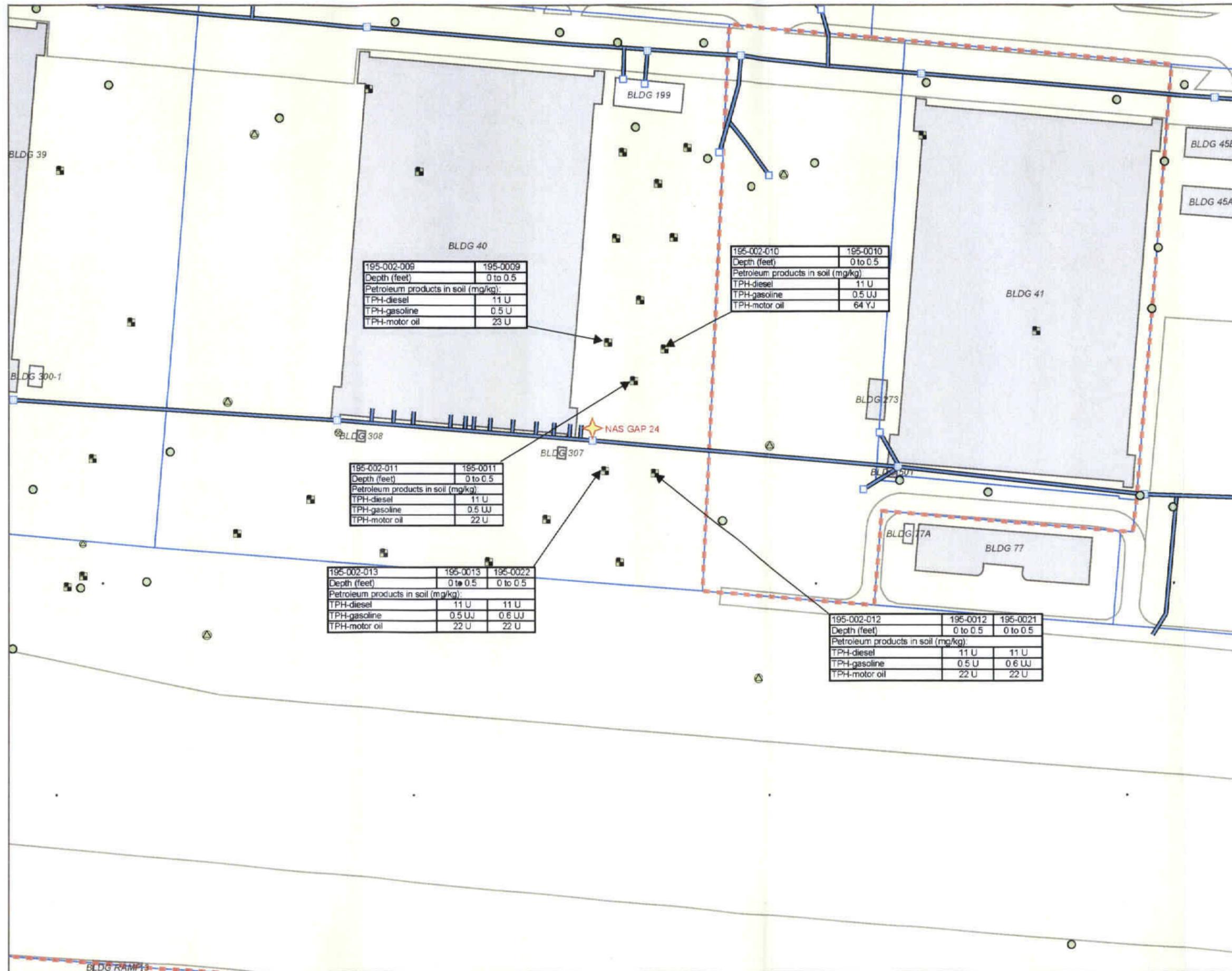
- B (inorganic) = Compound detected in an associated blank as well as the sample.
- BLDG = Building
- EDC = Economic development conveyance
- J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- mg/kg = Milligrams per kilogram
- NA = Not analyzed
- SWMU = Solid Waste Management Unit
- TPH = Total petroleum hydrocarbons
- U = Analyzed for, but not detected (at reported value).
- µg/L = Micrograms per liter
- Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard



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FIGURE A-3-11
EBS PARCEL 189
OWS 611 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5



- SAMPLING LOCATIONS**
- ⊙ Direct-Push
 - ⊗ Excavation
 - Soil Boring
 - Surface Location
 - ★ GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - - - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed

Notes:

BLDG = Building
 EDC = Economic development conveyance
 J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 mg/kg = Milligrams per kilogram
 NAS = Naval Air Station
 SVMU = Solid Waste Management Unit
 TPH = Total petroleum hydrocarbons
 U = Analyzed for, but not detected (at reported value).
 Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard

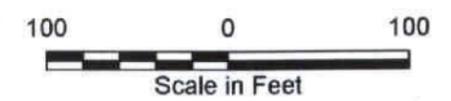
195-002-009	195-0009
Depth (feet)	0 to 0.5
Petroleum products in soil (mg/kg):	
TPH-diesel	11 U
TPH-gasoline	0.5 U
TPH-motor oil	23 U

195-002-010	195-0010
Depth (feet)	0 to 0.5
Petroleum products in soil (mg/kg):	
TPH-diesel	11 U
TPH-gasoline	0.5 UJ
TPH-motor oil	64 YJ

195-002-011	195-0011
Depth (feet)	0 to 0.5
Petroleum products in soil (mg/kg):	
TPH-diesel	11 U
TPH-gasoline	0.5 UJ
TPH-motor oil	22 U

195-002-013	195-0013	195-0022
Depth (feet)	0 to 0.5	0 to 0.5
Petroleum products in soil (mg/kg):		
TPH-diesel	11 U	11 U
TPH-gasoline	0.5 UJ	0.6 UJ
TPH-motor oil	22 U	22 U

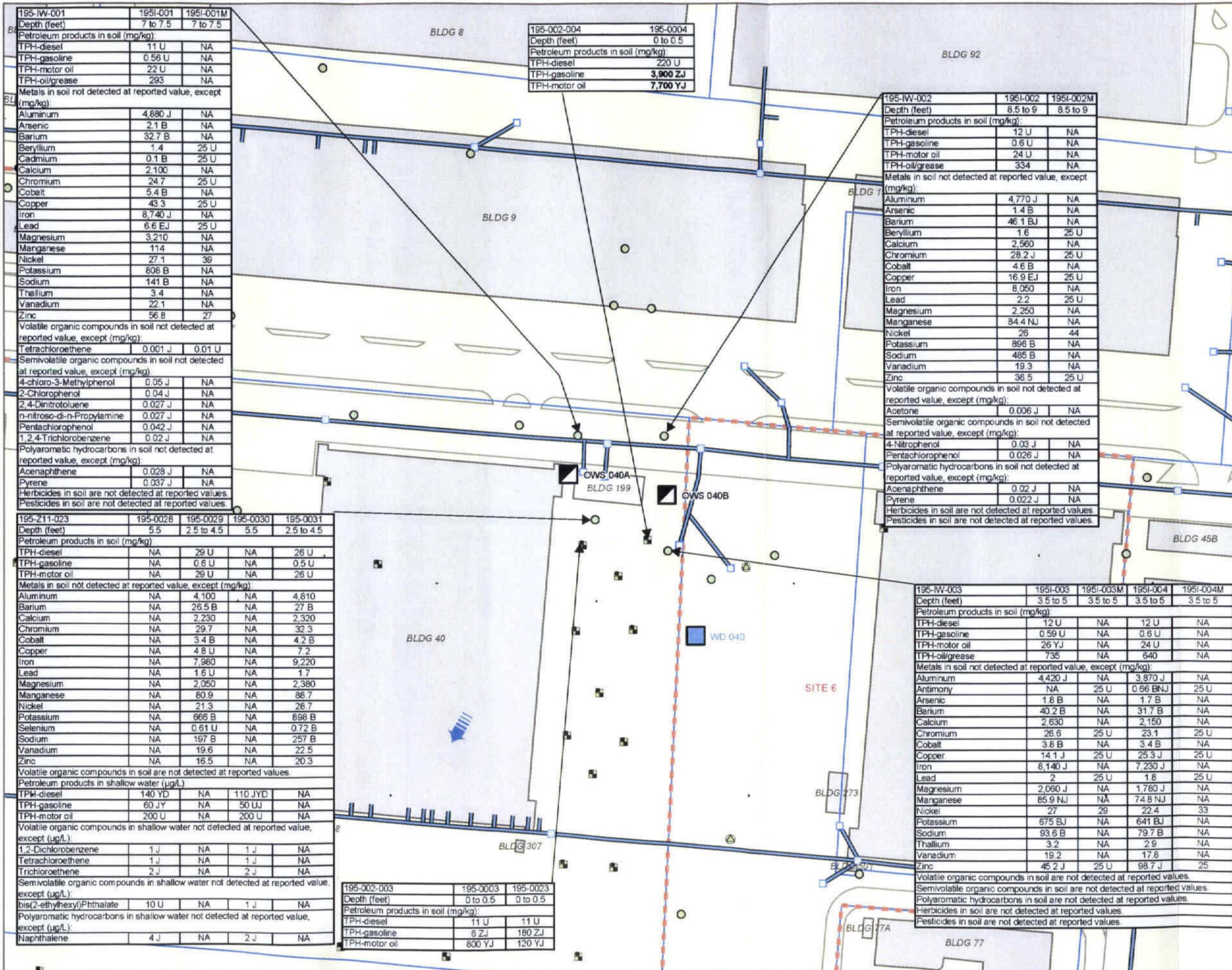
195-002-012	195-0012	195-0021
Depth (feet)	0 to 0.5	0 to 0.5
Petroleum products in soil (mg/kg):		
TPH-diesel	11 U	11 U
TPH-gasoline	0.5 U	0.6 UJ
TPH-motor oil	22 U	22 U



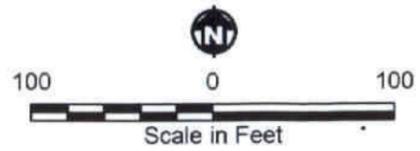
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FIGURE A-3-12
EBS PARCEL 195
NAS GAP 24 SAMPLE RESULTS

SVMU Evaluation Report for EDC Parcel 5

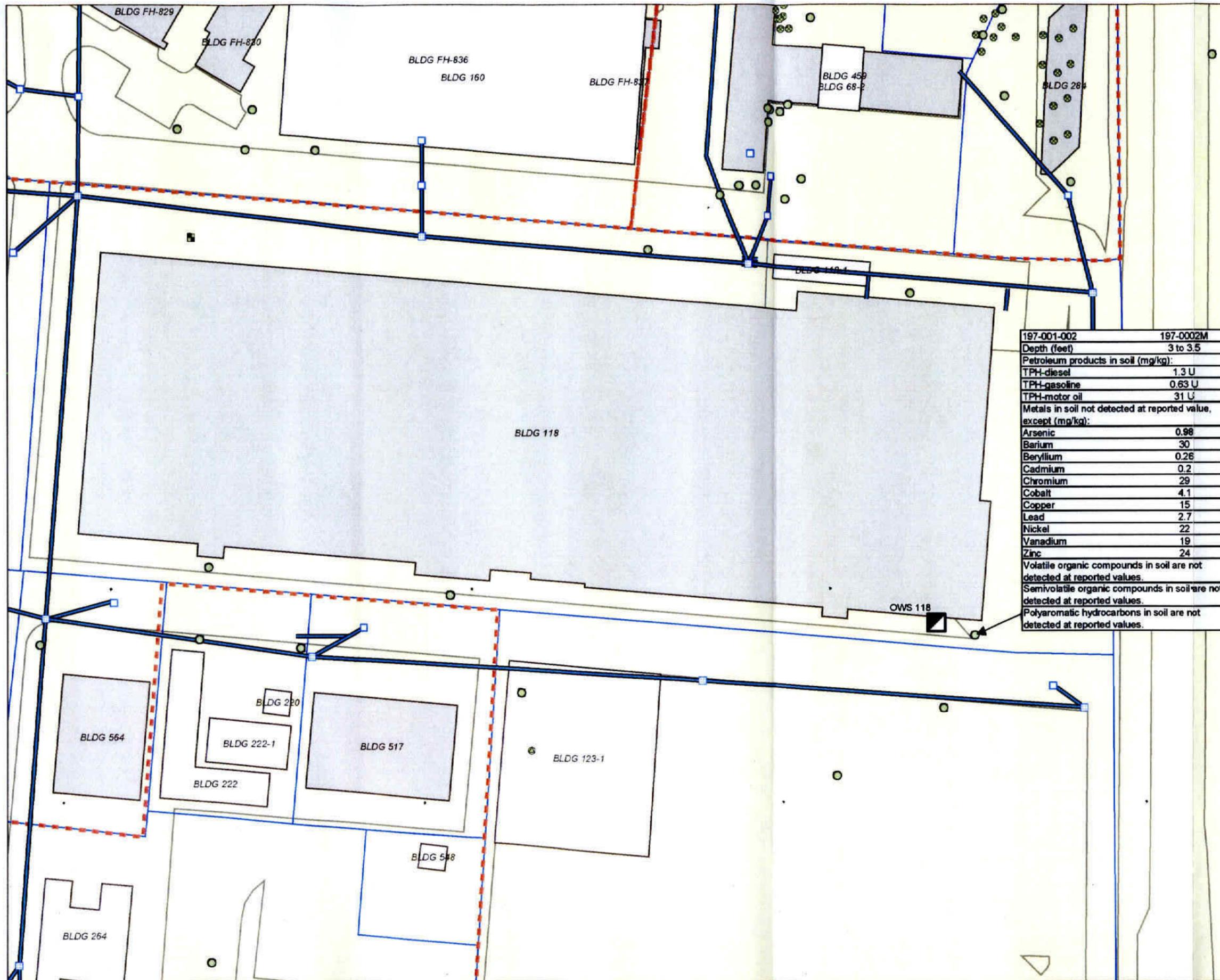


- SAMPLING LOCATIONS**
- Direct-Push
 - Soil Boring
 - Surface Location
 - OIL-WATER SEPARATOR (OWS)
 - WASHDOWN (WD) AREA
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed
- Notes:**
- Bold values indicate "Exceeds PRC."
- µg/L = Micrograms per liter
 B (inorganic) = Compound detected in an associated blank as well as the sample.
 BLDG = Building
 D (organic) = Compound identified in an analysis at a secondary dilution factor
 E (inorganic) = Value was estimated due to presence of interference
 EBS = Environmental baseline survey
 EDC = Economic development conveyance
 J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
 M = Mobile laboratory
 mg/kg = Milligrams per kilogram
 N (inorganic) = Value was estimated due to matrix spike recoveries being out of QC limits.
 NA = Not analyzed
 PRC = Preliminary Remediation Criteria
 TPH = Total petroleum hydrocarbons
 U = Analyzed for, but not detected (at reported value).
 Y = Hydrocarbon mixture did not exhibit a reasonable pattern match with the calibration standard
 Z (organic) = Analyte was estimated due to negative blank problems



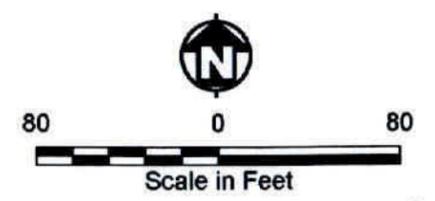
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FIGURE A-3-13
EBS PARCEL 195
OWS-040A & OWS-040B SAMPLE RESULTS



- SAMPLING LOCATIONS**
- ⊗ Direct-Push
 - ⊗ Excavation
 - Soil Boring
 - Surface Location
- INFRASTRUCTURE**
- ▣ OIL-WATER SEPARATOR (OWS)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - - - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER

- BUILDING**
- Present
 - Removed
- Notes:**
- Bold values indicate "Exceeds PRC"
- BLDG = Building
 EDC = Economic development conveyance
 M = Mobile laboratory
 mg/kg = Milligrams per kilogram
 PRG = Preliminary Remediation Goal
 SWMU = Solid Waste Management Unit
 TPH = Total petroleum hydrocarbon
 U = Analyzed for, but not detected (at reported value).



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FIGURE A-3-14
EBS PARCEL 197
OWS 118 SAMPLE RESULTS

SWMU Evaluation Report for EDC Parcel 5

205-001-001	205-0001M
Depth (feet)	0.5 to 1
Petroleum products in soil (mg/kg):	
TPH-diesel	12
TPH-gasoline	0.54 U
TPH-motor oil	53
Metals in soil not detected at reported value, except (mg/kg):	
Arsenic	1.9
Barium	32
Beryllium	0.26
Cadmium	1.3
Chromium	31
Cobalt	4.8
Copper	9.4
Lead	9.7
Nickel	25
Vanadium	20
Zinc	25

205-001-002	205-0002	205-0002M
Depth (feet)	0.5 to 1	0.5 to 1
Petroleum products in soil (mg/kg):		
TPH-diesel	68 ZJ	1.1 U
TPH-gasoline	0.5 U	0.54 U
TPH-motor oil	21 U	27 U
Metals in soil not detected at reported value, except (mg/kg):		
Aluminum	3.040	NA
Arsenic	1.4 B	1.5
Barium	20.2 B	24
Beryllium	0.22 B	0.2
Cadmium	0.12 B	0.23
Calcium	1.500	NA
Chromium	19.8	24
Cobalt	3.2 B	3.6
Copper	14.7 NJ	12
Iron	6.040 J	NA
Lead	2.5	7.9
Magnesium	1.670	NA
Manganese	64.8	NA
Nickel	18.2	19
Potassium	510 B	NA
Sodium	51.4 B	NA
Thallium	1.2 B	0.27 U
Vanadium	12.9	14
Zinc	18.4	20

030-IPC-002	030-IPC-002
Depth (feet)	0 to 4
Petroleum products in soil (mg/kg):	
JP-5	12 U
TPH-diesel	12 U
TPH-gasoline	0.59 U
TPH-motor oil	8 J
Volatile organic compounds in soil are not detected at reported values.	

- SAMPLING LOCATIONS**
- Excavation
 - Surface Location
 - GENERATION ACCUMULATION POINT (GAP)
 - CATCH BASIN
 - MANHOLE
 - STORM SEWER LINE
 - CERCLA SITE
 - ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL
 - LAND COVER
- BUILDING**
- Present
 - Removed

Notes:

B (inorganic) = Compound detected in an associated blank as well as the sample.

BLDG = Building

EDC = Economic development conveyance

J = Analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

JP-5 = Jet propellant-5

M = Mobile laboratory

mg/kg = Milligrams per kilogram

N (inorganic) = Value was estimated due to matrix spike recoveries being out of QC limits.

NA = Not analyzed

NADEP = Naval Aviation Depot

SWMU = Solid Waste Management Unit

TPH = Total petroleum hydrocarbons

U = Analyzed for, but not detected (at reported value).



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**FIGURE A-3-15
EBS PARCEL 205
NADEP GAP 73 SAMPLE RESULTS**

SWMU Evaluation Report for EDC Parcel 5

TABLES

TABLE A-2-1: SOLID WASTE MANAGEMENT UNITS INTEGRATED WITH THE CERCLA PROGRAM IN EDC PARCEL 5 AT ALAMEDA POINT

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
Page 1 of 1

EBS Subparcel	Identification	Navy Recommendation/ Closure Status	Refer to Figure for Sample Results
23F	OWS 012A	NFA recommended	Figure A-3-2
23F	OWS 012B	NFA Recommended	Figure A-3-2
41	NAS GAP 06	NFA Recommended by DTSC (2004)	Figure A-3-3
43	OWS 063A	NFA Recommended	Figure A-3-4
43	OWS 063B	Further Action Recommended	Figure A-3-4
43	OWS 063C	NFA Recommended	Figure A-3-4
61A	NAS GAP 28A	NFA Recommended by DTSC (2004)	Figure A-3-5
70	NAS GAP 23	NFA Recommended by DTSC (2004)	Figure A-3-6
71	WD 041B	NFA Recommended	Figure A-3-7
80	OWS 017	NFA Recommended	NA
82	NADEP GAP 81	NFA Recommended by DTSC (2004)	NA
82	NADEP GAP 82	NFA Recommended by DTSC (2004)	NA
82	NADEP GAP 83	NFA Recommended by DTSC (2004)	NA
83	NAS GAP 13	NFA Recommended by DTSC (2004)	NA
123	AOC 098	NFA Recommended	Figure A-3-8
123	NAS GAP 15/NAS GAP 29	NFA Recommended	Figure A-3-9
123	OWS 067	Further Action Recommended	Figure A-3-8
125	NADEP GAP 43	NFA Recommended by DTSC (2004)	Figure A-3-10
189	OWS 611	NA; Does not exist	Figure A-3-11
195	NAS GAP 24	NFA Recommended by DTSC (2004)	Figure A-3-12
195	OWS 040A	Further Action Recommended	Figure A-3-13
195	OWS 040B	NFA Recommended	Figure A-3-13
197	OWS 118	NFA Recommended	Figure A-3-14
205	NADEP GAP 73	NFA Recommended by DTSC (2004)	Figure A-3-15
206	AST 091A	NFA Recommended by DTSC (2004)	NA
206	AST 091B	NFA Recommended by DTSC (2004)	NA
213	NAS GAP 14	NFA Recommended by DTSC (2004)	NA

Notes:

AOC	Area of concern
AST	Aboveground storage tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EBS	Environmental baseline survey
EDC	Economic development conveyance
GAP	Generator accumulation point
NA	Not applicable
NADEP	Naval Aviation Depot
NAS	Naval Air Station
NFA	No further action
OWS	Oil-water separator
(R)	RCRA
RCRA	Resource Conservation and Recovery Act
SWMU	Solid waste management unit
UST	Underground storage tank
WD	Washdown

TABLE A-2-2: SOLID WASTE MANAGEMENT UNITS INTEGRATED WITH THE TOTAL PETROLEUM HYDROCARBON PROGRAM IN EDC PARCEL 5 AT ALAMEDA POINT

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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EBS Subparcel	Identification	Material Stored/Disposed	Navy Recommendation/ Closure Status
65	AOC 001	Unleaded gasoline	Closed by RWQCB
70	AOC 039	Diesel	Closed by RWQCB
70	AST 039	Diesel	NFA Recommended
82	UST(R)-03	Waste Fuel	Closed by RWQCB
83	AST 016	Diesel	Recommend to Close in Place
102	AST 152	Fuel Oil	NFA Recommended
110	AOC 271	Lubricant & Gasoline/Diesel	Closed by RWQCB
111	UST(R)-08	Diesel Fuel and Water	Closed by RWQCB
115	AOC 173	Diesel	Closed by RWQCB
115	AST 173A	Diesel	Recommend to Close in Place
115	AST 173B	Diesel	Recommend to Close in Place
115	AST 173C	Diesel	Recommend to Close in Place
115	UST 173-3	Diesel	Closed by RWQCB
123	AOC 411	Diesel	Closed by RWQCB
123	UST(R)-11	Waste Oil	NFA Recommended
124	UST 13-4	Fuel Oil	Closed by RWQCB
124	UST 13-5	Fuel Oil	Closed by RWQCB
124	UST(R)-05	Lubricant Oil	Closed by RWQCB
189	AOC 392	Unleaded gasoline	Closed by RWQCB
189	AST 392	Diesel	NFA Recommended
195	UST 40-1	Waste Oil and Solvents	Closed by RWQCB

Notes:

ASTs and USTs containing petroleum are being addressed by RWQCB.

AOC	Area of concern
AST	Aboveground storage tank
EBS	Environmental baseline survey
EDC	Economic development conveyance
GAP	Generator accumulation point
NA	Not applicable
NAS	Naval Air Station
NFA	No further action
OWS	Oil-water separator
(R)	RCRA
RCRA	Resource Conservation and Recovery Act
RWQCB	Regional Water Quality Control Board
SWMU	Solid waste management unit
UST	Underground storage tank

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **OWS 012A** Refer to Figure # Figure A-3-2

Navy Recommendation/Closure Status **NFA recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA

EBS Subparcel 23F TPH CAA NA

Associated Building 012 Building Status Present Leasing Status Leased by ARRA

Building Name Aircraft Rework Shops

Additional Information 1 of 2 OWSs on southern side of Building 12, in northern portion of Parking Apron #4 (northeastern corner of fenced area); OWS 012A was an aboveground OWS on concrete and within a bermed area; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) 30 gallon per minute

Period of Operation Unknown

Material Managed at SWMU Oil/water from spill trenches surrounding aircraft parking area

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA

Status of Associated Pipes NA

Data Analysis

OWS 012A was located south of Building 12 in Parking Apron No. 4, which is included in parcel 23F in Zone 04 of the EBS. OWS 012A was installed after 1993 and was an aboveground OWS on concrete within a bermed secondary containment. OWS 012A was investigated as part of Target Area 4 during the EBS. As shown on the figure for parcel 23F, one soil sampling location (023-004-019) was analyzed for TPH and metals specifically to address potential releases from this SWMU. TPH as diesel and motor oil was detected below residential PRC. Metal concentrations detected were below EPA 2002 residential PRGs and/or Alameda Point background concentrations (Tetra Tech 2001b). No further sampling was recommended for OWS 012A in the EBS (IT 2001). NFA is recommended for OWS 012A.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **OWS 012B** **Refer to Figure #** Figure A-3-2

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA

EBS Subparcel 23F **TPH CAA** NA

Associated Building 012 **Building Status** Present **Leasing Status** Leased by ARRA

Building Name Aircraft Rework Shops

Additional Information 2 of 2 OWSs on southern side of Building 12, in northern portion of Parking Apron #4 (northeastern corner of fenced area); OWS 012B was an aboveground OWS on concrete and within a bermed area; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) 30 gallon per minute

Period of Operation Unknown

Material Managed at SWMU Oil/water from spill trenches surrounding aircraft parking area

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA

Status of Associated Pipes NA

Data Analysis

OWS 012B is located south of Building 12 in Parking Apron No. 4, which is included in parcel 23F in Zone 04 of the EBS. OWS 012B was installed after 1993 and was an aboveground OWS on concrete within a bermed secondary containment. OWS 012B was investigated as part of Target Area 4 during the EBS. As shown on the figure for parcel 23F, one soil sampling location (023-004-020) was analyzed for TPH and metals specifically to address potential releases from this SWMU. TPH was not detected at reported values. Metal concentrations detected were below EPA 2002 residential PRGs and/or Alameda Point background concentrations (Tetra Tech 2001b). No further sampling was recommended for OWS-012B in the EBS (IT 2001). NFA is recommended for OWS 012B.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 06** **Refer to Figure #** Figure A-3-3
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 41 **TPH CAA** NA
Associated Building 004 **Building Status** Present **Leasing Status** Not leased by ARRA
Building Name Enlisted Barracks
Additional Information Building 4; metal cabinet used as a paint locker outside southern wall of building on soil; approximate location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) Various size containers up to 55-gallon drums
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Paints and paint thinners

Source of Initial SWMU Identification

SWMU # in RFA GII-04 **Recommendation in RFA** RFI Required
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources NA

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 06 was located between Buildings 3 and 4 east of First Street in parcel 41, which is included in Zone 09 of the EBS. This SWMU consisted of three metal cabinets or sheds used to store various size containers of paint and paint thinners. The RCRA Part B Corrective Action Schedule of Compliance required further investigation for this SWMU. NAS GAP 06 was evaluated under Phase 1 of the EBS (site inspection activities), and further investigation was not recommended. A letter from DTSC dated November 4, 1999 recommended NFA for this SWMU (DTSC 1999). As shown on the parcel 41 figure, the nearest sample (041-SS-004) to NAS GAP 06 with applicable data is approximately 200 feet from the SWMU. Analytes detected at this sample point are below residential PRCs and EPA 2002 PRGs (EPA 2002). NFA is recommended for NAS GAP 06.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **OWS 063A** Refer to Figure # Figure A-3-4

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA
EBS Subparcel 43 TPH CAA NA
Associated Building 063 Building Status Present Leasing Status Not leased by ARRA
Building Name Galley
Additional Information Southern end of courtyard east of Building 63; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator
Capacity (gallons) 4.5 ft x 12 ft x 10 ft (deep)
Period of Operation Unknown
Material Managed at SWMU Grease pit for kitchen associated with Building 3

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA Status of Associated Pipes NA

Data Analysis

OWS 063A is located at the southern end of the courtyard east of Building 63, which is part of parcel 43 in Zone 09 of the EBS. OWS 063A was a grease pit for the rear kitchen located in Building 3 and no hazardous materials were managed in the SWMU. No target area was established to investigate the OWS during the EBS. As shown on the parcel 43 figure, the closest soil sample analyzed for petroleum products (043-001-001) is located approximately 80 feet northeast of the OWS. This location reported TPH concentrations of diesel and motor oil detected below residential PRCs (IT 2001). NFA is recommended for OWS 063A.

Nondetect Review:

NA

2002 Site Visit

OWS was observed during the 2002 site visit; it was inactive.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **OWS 063B** Refer to Figure # Figure A-3-4

Navy Recommendation/Closure Status **Further Action Recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA
EBS Subparcel 43 TPH CAA NA
Associated Building 063 Building Status Present Leasing Status Not leased by ARRA
Building Name Galley
Additional Information Inside of courtyard east of Building 63; best-known location shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator
Capacity (gallons) 2 ft x 8.5 ft x 5 ft (deep)
Period of Operation Unknown
Material Managed at SWMU Unknown materials collected in OWS at SWMU

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources One-Time Compliance Memo (SPPORTS 1997)

Tank-Related Information

Status of Tank NA Status of Associated Pipes NA

Data Analysis

OWS 063B is located inside the courtyard east of Building 63, which is part of parcel 43 in Zone 09 of the EBS. OWS 063B managed runoff from the courtyard area. No target area was established to investigate the OWS during the EBS. As shown on the parcel 43 figure, the closest soil sample analyzed for petroleum products (043-001-001) is located approximately 75 feet southeast of the OWS. This location reported TPH concentrations of diesel and motor oil detected below residential PRCs (IT 2001). Because the materials collected in the OWS are not known and no sampling was conducted immediately adjacent to the OWS, further action is recommended for OWS 063B.

Nondetect Review:

NA

2002 Site Visit

OWS was observed during the 2002 site visit; it was inactive.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 28A** **Refer to Figure #** Figure A-3-5
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** 35
EBS Subparcel 61A **TPH CAA** NA
Associated Building 562 **Building Status** Present **Leasing Status** Not leased by ARRA
Building Name Sewage Industrial Waste Pump Station LS #1
Additional Information Building 562; hazardous material storage surrounding the building; approximate location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) Unknown
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Paint-related material, rags and empty cans

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 28A was located in the area surrounding Building 562; the exact location is unknown. This open space was investigated as Target Area 1 within parcel 61 in Zone 08 of the EBS. As the figure for parcel 61A shows, samples were analyzed for TPH, SVOCs, metals, and PCBs to address this SWMU. Lead was detected above the residential PRC and above the Cal-modified residential PRG at one sampling location (B-1B); however, the concentration did not exceed the nonresidential PRC. All other analytes detected showed concentrations below residential PRCs, EPA 2002 residential PRGs, and/or Alameda Point background concentrations. The lack of impacted soil strongly indicates no impact to groundwater. Based on these results, no additional sampling was recommended for this area (IT 2001). In a letter dated November 4, 1999, DTSC recommended no further action for this SWMU (DTSC 1999). NFA is recommended to NAS GAP 28A.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 23** Refer to Figure # **Figure A-3-6**
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 70 **TPH CAA** NA
Associated Building 039 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Aircraft Maintenance Hangar
Additional Information Building 39; southwest of building; area 70 feet by 40 feet on concrete; general location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 55-gallon drums, pallet
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Oil, solvent, paint-related material, and rags

Source of Initial SWMU Identification

SWMU # in RFA GII-19 **Recommendation in RFA** RFI Not Required
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources NA

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 23 (west of Building 39) was investigated as Target Area 2 for parcel 70 in Zone 11 of the EBS. This SWMU consisted of storage lockers surrounded by 55-gallon drums. VOCs and TPH are the specified compounds of concern for this GAP. Analytical data, as shown on the parcel 70 figure, show TPH concentrations below residential PRCs. Further EBS sample data in parcel 70 suggest that TPH detected at NAS GAP 23 is the result of parcel-wide activities, rather than spills or leaks from the SWMU. VOCs were not detected at reported values near this GAP. Since NAS GAP 23 did not appear to represent a significant source of contamination at parcel 70, no additional sampling was recommended (IT 2001). According to the RFA, NAS GAP 23 exhibited a low potential for releases (none known) into soil and groundwater because the GAP was located on concrete (DTSC 1992). A letter from DTSC dated November 4, 1999 recommended NFA for this SWMU (DTSC 1999). NFA is recommended for NAS GAP 23.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **WD 041B** **Refer to Figure #** Figure A-3-7

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 71 **TPH CAA** NA
Associated Building 041 **Building Status** Present **Leasing Status** Not leased by ARRA
Building Name Aircraft Component Testing Operations
Additional Information Washdown area for maintenance equipment outside northeast corner of Building 41; drains present; no OWS

Operational Information for SWMU

Type of Unit Washdown Area
Capacity (gallons) NA
Period of Operation Unknown
Material Managed at SWMU Wastewater from cleaning aircraft or large machinery

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources Final FSP for Data Gap Sampling (Tetra Tech 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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Data Analysis

WD 041B (east of Building 41) was located within the equipment storage area investigated as Target Area 1 for parcel 71 in Zone 11 of the EBS. Because of the nature of activities within a washdown area and the absence of an OWS near this location, potential contaminants released from WD 041B were channeled into the adjacent storm sewer system as well as soil and groundwater. As shown on the figure for parcel 71, concentrations of VOCs, TPH, and metals were noted in soil and groundwater samples collected at the perimeter of the equipment storage area. Sediment samples associated with the storm sewer line nearest to WD 041B also showed concentrations of VOCs, TPH, and metals. Lead was detected above the residential PRC and Cal-modified residential PRG at sampling location (NPS-S06-02); however, the concentration did not exceed the nonresidential PRC. All other detected concentrations of analytes were below residential PRCs, MCLs, EPA 2002 PRGs and/or background levels for Alameda Point (Tetra Tech 2001b); therefore, no additional sampling was recommended (IT 2001). The Storm Sewer Study Report at Alameda Point addresses contaminants released into the storm sewer system (Tetra Tech 2000a). NFA is recommended for WD 041B.

Nondetect Review:

Nondetect values were compared to 2004 Region 9 residential PRG and Cal-modified PRG, when available; groundwater nondetect values were also compared to California MCL. All nondetect values for VOCs in soil less than PRGs. All nondetect values for metals in soil less than PRGs except arsenic (listed on figure). All nondetect values for SVOCs in soil less than PRGs except: N-nitroso-di-N-propylamine. All nondetect values for PAH in soil less than PRGs except: benzo(ah)anthracene (less than 10 times PRG). All nondetect values for pesticides and herbicides in soil less than PRGs. Only SVOC analyzed was naphthalene; nondetect value exceeded PRG. All nondetect values for VOCs in groundwater less than PRGs except: dibromochloromethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, and 1,1,1,2-tetrachloroethane; the nondetect values were greater than PRGs but less than or equal to MCLs for benzene, carbon tetrachloride, 1,4-dichlorobenzene, 1,2-dichloropropane, 1,2-dichloroethane, tetrachloroethylene, 1,1,2-trichloroethane, trichloroethylene, 1,1,2,2-tetrachloroethane, and vinyl chloride. All nondetect values for metals in sediment less than PRGs in soil. All nondetect values for VOCs in sediment less than PRGs in soil. All nondetect PAHs in sediment less than PRGs in soil except: benzo(k)fluoranthene, dibenzo(ah)anthracene, indeno(1,2,3-CD)pyrene, and naphthalene. All SVOCs in sediment less than PRGs in soil except: bis(2-chloroethyl)ether, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, hexachlorobenzene, N-nitroso-di-N-propylamine, and pentachlorophenol. Nondetect values were found to not be a problem based on materials managed at SWMU.

2002 Site Visit

Could have brought machinery through alleyway, washed it down, then stored in bays.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **OWS 017** Refer to Figure # NA

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA

EBS Subparcel 80 TPH CAA NA

Associated Building 017 Building Status Present Leasing Status Not leased by ARRA

Building Name Bachelor Officers' Quarters

Additional Information South of Building 17, near western wing - oil trap (4 feet by 8 feet) behind former kitchen; contained trash and water (near garden area); location is approximate.

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) Unknown

Period of Operation Unknown

Material Managed at SWMU Associated with kitchen in Building 17; contained trash and water, did not contain hazardous materials.

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA Status of Associated Pipes NA

Data Analysis

OWS 017 is located southwest of Building 17, which was previously used as Bachelors Officer's quarters. The OWS was a grease pit associated with the former kitchen. OWS 017 did not contain hazardous materials; it contained trash and water. Currently there are no sampling locations within 350 feet of OWS 017. NFA is recommended for OWS 017.

Nondetect Review:

NA

2002 Site Visit

OWS was observed during the 2002 site visit; it was inactive.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NADEP GAP 81** Refer to Figure # NA
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 82 **TPH CAA** NA
Associated Building 007 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Materials Engineering Laboratory
Additional Information Building 7 (inside), Shop 0542; Laboratory; second floor; location is approximate.

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 5-gallon containers
Period of Operation GAPS were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Water-based primer, alcohol, poly paint and thinners, and paint strippers

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NADEP GAP 81 consisted of a small active chemical storage area in one of three laboratories within Building 7. The building, including the laboratories, was investigated as part of parcel 82 in Zone 13 of the EBS. No evidence of spills or staining related to this SWMU was reported during EBS site inspection activities; therefore, no sampling was recommended for NADEP GAP 81. In addition, no parcel-specific samples were collected from parcel 82 because no potential release areas were identified (IT 2001). In a letter dated November 4, 1999, DTSC recommended NFA for this SWMU (DTSC 1999). NFA is recommended for NADEP GAP 81.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **NADEP GAP 82** Refer to Figure # **NA**
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA
EBS Subparcel 82 TPH CAA NA
Associated Building 007 Building Status Present Leasing Status Leased by ARRA
Building Name Materials Engineering Laboratory
Additional Information Building 7 (inside), Shop 0542; Laboratory; second floor; location is approximate.

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 5-gallon containers
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU JP-5 and JP-4, metal laboratory analyses wastes, hydraulic fluid, and heavy metal solutions

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA Status of Associated Pipes NA

Data Analysis

NADEP GAP 82 consisted of a small active chemical storage area in one of three laboratories within Building 7. The building, including the laboratories, was investigated as part of parcel 82 in Zone 13 of the EBS. No evidence of spills or staining related to this SWMU was reported during EBS site inspection activities; therefore, no sampling was recommended for NADEP GAP 82. In addition, no parcel-specific samples were collected from parcel 82 because no potential release areas were identified (IT 2001). In a letter dated November 4, 1999, DTSC recommended NFA for this SWMU (DTSC 1999). NFA is recommended to NADEP GAP 82.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **NADEP GAP 83** **Refer to Figure #** NA
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 82 **TPH CAA** NA
Associated Building 007 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Materials Engineering Laboratory
Additional Information Building 7 (inside), Shop 0541; Laboratory; first floor; location is approximate.

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 5-gallon containers
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Acidic metal etching rinse water

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NADEP GAP 83 consisted of a small active chemical storage area in one of three laboratories within Building 7. The building, including the laboratories, was investigated as part of parcel 82 in Zone 13 of the EBS. No evidence of spills or staining related to this SWMU was reported during EBS site inspection activities; therefore, no sampling was recommended for NADEP GAP 83. In addition, no parcel-specific samples were collected from parcel 82 because no potential release areas were identified (IT 2001). In a letter dated November 4, 1999, DTSC recommended NFA for this SWMU (DTSC 1999). NFA is recommended to NADEP GAP 83.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 13** **Refer to Figure #** **NA**
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 83 **TPH CAA** NA
Associated Building 016 **Building Status** Present **Leasing Status** Not leased by ARRA
Building Name Medical Clinic/Dispensary
Additional Information Building 16 (inside), Branch Medical Clinic X-Ray Unit; location is approximate.

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 1-gallon containers
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Scrap amalgam, x-ray film, waste x-ray solution, and waste generated from everyday dental activities

Source of Initial SWMU Identification

SWMU # in RFA GII-10 **Recommendation in RFA** RFI Not Required
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources NA

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 13 supported the station's dental clinic located in Building 16, which is part of parcel 83 in Zone 12 of the EBS. The RFA reported waste to be minimal at this SWMU, so sampling was not recommended for NAS GAP 13. In addition, no parcel-specific samples were collected during the EBS from parcel 83 because no potential release areas were identified (IT 2001). According to the RFA, NAS GAP 13 exhibited a low potential for releases (none known) into soil and groundwater because the quantity of waste stored at the GAP is small and the GAP is located indoors (DTSC 1992). A letter from DTSC dated November 4, 1999 recommended NFA for this SWMU (DTSC 1999). NFA is recommended to NAS GAP 13.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **AOC 098** **Refer to Figure #** **Figure A-3-8**

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA

EBS Subparcel 123 **TPH CAA** NA

Associated Building 098 **Building Status** Present **Leasing Status** Leased by ARRA

Building Name Barrel Shed

Additional Information Building 98 (inside) was used as a 60-day temporary accumulation point for hazardous wastes; building is constructed of concrete with an asphalt floor; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point

Capacity (gallons) 55-gallon drums; 3,000 gallons noted in 1994

Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.

Material Managed at SWMU Hazardous wastes, including waste petroleum products, corrosives, metals, asbestos, nonhalogenated organic compounds, solvents, lube oil, and corrosion inhibitors

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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Data Analysis

AOC 098 (Building 098) was investigated as Target Area 1 for parcel 123 in Zone 17 of the EBS. As shown in the parcel 123 figure, three sampling locations were analyzed from the most heavily stained areas within the building. All detected analyte concentrations were below residential PRCs, MCLs, EPA 2002 PRGs, and/or Alameda Point background concentrations. Nondetect values were compared to screening levels and found not to be a problem. The lack of impacted soil strongly indicates no impact to groundwater. Based on these data, the EBS stated that there appeared to be no demonstrable impact to soil below the stained areas; therefore, because of the low concentrations of detected analytes in surface soil beneath the concrete floor, no additional sampling was recommended (IT 2001). NFA is recommended for AOC 098.

Nondetect Review:

Nondetect values were compared to 2004 Region 9 residential PRG and Cal-modified PRG, when available. All nondetect values for VOCs in soil less than PRGs. All nondetect values for metals in soil less than PRGs. All nondetect values for SVOC in soil less than PRGs except: benzidine, bis(2-chloroethyl)ether, 3,3'-dichlorobenzidine, hexachlorobenzene, N-nitroso-di-N-propylamine, and N-nitrosodimethylamine. All nondetect values for PAH in soil less than PRGs except: benzo(a)pyrene (less than 10 times PRG), benzo(k)fluoranthene (6 out of 8 less than PRG), and dibenzo(ah)anthracene (less than 10 times PRG). The nondetect values were found to not be a problem based on the types of materials stored; critical constituents from a release would be VOCs and metals.

2002 Site Visit

A faint trace of a painted square on the concrete floor inside of Building 098 is all that remains of AOC 098. No obvious pathway through the floor is apparent in the general area of the former site.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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Data Analysis

The RFI for NAS GAP 15 (located northeast of Building 067) and NAS GAP 29 (located northwest of Building 067) was conducted as part of EBS sampling in Phase 2C Part II for parcel 123 in Zone 17 of the EBS. Phase 2C EBS investigations incorrectly reported NAS GAP 29 data as NAS GAP 15 data and vice versa. NAS GAP 15 was originally the only SWMU northeast of Building 067, then in 1991 this SWMU was moved northwest of Building 067 and renamed NAS GAP 29. As shown in the parcel 123 figure, five surface soil samples were collected from NAS GAP 15 and five surface soil samples were collected from NAS GAP 29. All samples were analyzed for Title 26 California Code of Regulations metals, VOC, TPH, and pesticide/PCB. No constituents were detected above residential PRCs, EPA 2002 PRGs, and/or Alameda point background concentrations near NAS GAP 15. For NAS GAP 29, Aroclor 1260 was detected in four of five samples and the field duplicate, but only one sample (123-0022) concentration exceeded the EPA 2002 PRG. Arsenic exceeded the EPA 2002 PRG and the Alameda Point background concentration (8.7 mg/kg) in the same sample. All other detected compounds reported concentrations below residential PRCs, EPA 2002 PRGs, and/or Alameda Point background concentrations near NAS GAP 29. Nondetect values were compared to screening levels and found not to be a problem. The lack of impacted soil strongly indicates no impact to groundwater. Based on these data, further investigation was not recommended for NAS GAP 15/NAS GAP 29 (IT 2001). NFA is recommended to NAS GAP 15/NAS GAP 29.

Nondetect Review:

Nondetect values were compared to 2004 Region 9 residential PRG and Cal-modified PRG, when available. All nondetect values for VOCs in soil less than PRGs. All nondetect values for metals in soil less than PRGs. All nondetect values for herbicides and pesticides in soil less than PRGs. All nondetect values for SVOC in soil less than PRGs except: bis(2-chloroethyl)ether, 3,3'-dichlorobenzidine, 4,6-dinitro-2-methylphenol, hexachlorobutadiene, N-nitroso-di-N-propylamine, and pentachlorophenol. All nondetect values for PAH in soil less than PRGs except: benzo(a)anthracene (less than 10 times PRG), benzo(a)pyrene, benzo(k)fluoranthene, dibenzo(ah)anthracene, and indeno(1,2,3-cd)pyrene. Nondetect values were found to not be a problem based on materials stored; critical constituents from a spill would be VOCs and metals.

2002 Site Visit

The current tenant has leased Building 067 for the past 5 years. The tenant remembered the Navy high pressure washing the entire area. The tenant also recalled that there was no visible staining at the time of the initial lease agreement. The fence gate adjacent to the location of former NAS GAP 29 has been changed from a swing-out style to a slide-style, altering surrounding landmarks in previous photographs of this site.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NADEP GAP 43** **Refer to Figure #** Figure A-3-10
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 125 **TPH CAA** NA
Associated Building 066 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Engine Accessories Test Shop
Additional Information Building 66 (inside), Shop 96321; approximate location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) 55-gallon drums, 5-gallon containers, aerosol cans
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Aerosol paint, solvent, lacquer, JP-5, type II fuel, oil, and trichlorotrifluorethane

Source of Initial SWMU Identification

SWMU # in RFA GI-38 **Recommendation in RFA** RFI Not Required
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources NA

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NADEP GAP 43 (in Building 066) was investigated as Target Area 1 for parcel 125 in Zone 17 of the EBS. According to the RFA, NADEP GAP 43 exhibited a low potential for releases (none known) into soil and groundwater because the GAP was located indoors atop a concrete floor (DTSC 1992). As shown on the parcel 125 figure, four sampling locations were analyzed in this area, which was designated as a worst-case scenario for possible releases because of the extensive floor staining noted within Building 66. One sampling location showed elevated concentrations of TPH as gasoline exceeding residential PRC, but less than nonresidential PRC. All other detected analyte concentrations were below residential PRCs and EPA 2002 PRGs. The concentrations of gasoline and other petroleum products appeared to be restricted to near surface soils below the building floor and did not suggest extensive transport of petroleum to the subsurface; therefore, no further investigation was recommended for this SWMU (IT 2001). NFA is recommended for NADAP GAP 43.

Nondetect Review:

NA

2002 Site Visit

Metal racks and machine parts are currently placed on former NADEP GAP 43 and surrounding areas. The current tenant of building 066 was unaware of any staining within or around the GAP upon leasing the building.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **OWS 611** Refer to Figure # Figure A-3-11

Navy Recommendation/Closure Status **NA; Does not exist**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 189 **TPH CAA** NA
Associated Building 611 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Electronic and Communications Maintenance Shop
Additional Information OWS 611 does not exist based on site visit conducted January 13, 2005.

Operational Information for SWMU

Type of Unit Oil-Water Separator
Capacity (gallons) NA
Period of Operation Unknown
Material Managed at SWMU NA

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources CERFA EBS (ERM-West 1994)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

OWS 611 does not exist. It was incorrectly identified as being located between Building 611 and Building 392, within parcel 189 in Zone 13 of the EBS. The only features observed between the two buildings during a site visit on January 13, 2005 was a bermed pad for a former portable diesel generator and an electrical vault. EBS parcel 189 also had an underground storage tank (UST 392-1; also called AOC 392) that contained unleaded gasoline and was located adjacent to the north wall of Building 392 and an aboveground storage tank (AST 392) that contained diesel and was located south of Building 392. The Navy recommends removing OWS 611 from the SWMU list as it was identified in error and it never existed.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 24** Refer to Figure # Figure A-3-12
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 195 **TPH CAA** NA
Associated Building 040 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Aircraft Maintenance and Painting Hangar
Additional Information Building 40; southeast of building; area 70 feet by 70 feet on concrete; general location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) Bowser/drums, 55-gallon drums
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Oil, solvent, paint-related material, and rags

Source of Initial SWMU Identification

SWMU # in RFA GII-20 **Recommendation in RFA** RFI Not Required
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources NA

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 24 (east of Building 40) was investigated as part of Target Area 2 for parcel 195 in Zone 11 of the EBS. This SWMU consisted of metal sheds and 55-gallon drums. Localized sample results, referenced on the parcel 195 figure, show TPH concentrations below residential PRC. According to the RFA, NAS GAP 24 exhibited a low potential for releases (none known) into soil and groundwater because the GAP was located on concrete (DTSC 1992). A letter from DTSC dated November 4, 1999 recommended NFA for this SWMU (DTSC 1999). No additional samples were recommended under the EBS (IT 2001). NFA is recommended to NAS GAP 24.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

Solid Waste Management Unit Evaluation Report for Economic Development Conveyance Parcel 5
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SWMU Identifier **OWS 040A** Refer to Figure # Figure A-3-13

Navy Recommendation/Closure Status **Further Action Recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA

EBS Subparcel 195 TPH CAA NA

Associated Building 040 Building Status Present Leasing Status Leased by ARRA

Building Name Aircraft Maintenance and Painting Hangar

Additional Information Northeastern corner of Building 40 - next to high-pressure water sprayers; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) 3.5 ft x 4.5 ft x 3.5 ft (deep)

Period of Operation Unknown

Material Managed at SWMU Aircraft washdown

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources CERFA EBS (ERM-West 1994)

Tank-Related Information

Status of Tank NA Status of Associated Pipes NA

Data Analysis

OWS 040A is one of two OWSs located east of Building 40 in parcel 195, which is part of Zone 11 in the EBS. No target areas specifically addressed potential releases from this SWMU. No sampling was conducted immediately adjacent to the OWS. As shown on the figure for parcel 195, however, three sampling locations were collected south of the OWS and two sampling locations north of the OWSs were collected to address the adjacent sewer line (IT 2001). One sampling location (195-002-004) detected TPH as gasoline and motor oil above residential PRCs, but below nonresidential PRCs. All other detected concentrations of target analytes were below residential PRCs, MCLs, EPA 2002 residential PRGs, and/or Alameda Point background concentrations. Further action is recommended for OWS 040A.

Nondetect Review:

NA

2002 Site Visit

OWS was observed during the 2002 site visit; it was inactive.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **OWS 040B** Refer to Figure # Figure A-3-13

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA

EBS Subparcel 195 TPH CAA NA

Associated Building 040 Building Status Present Leasing Status Leased by ARRA

Building Name Aircraft Maintenance and Painting Hangar

Additional Information East of Building 40; centered between Buildings 40 and 41; best-known location is shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) 7.5 ft x 4.5 ft x 3.5 ft (deep)

Period of Operation Unknown

Material Managed Aircraft washdown
at SWMU

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources One-Time Compliance Memo (SPPORTS 1997)

Tank-Related Information

Status of Tank NA

Status of Associated Pipes NA

Data Analysis

OWS 040B is one of two OWSs located east of Building 40 in parcel 195, which is part of Zone 11 in the EBS. One sampling location (195-IW-003), located 5 feet to the north of the OWS, detected TPH as motor oil below the residential PRCs; TPH as oil and grease was also detected but there is no PRC for oil and grease. All other detected concentrations of target analytes were below residential PRCs, MCLs, EPA 2002 PRGs, and/or Alameda Point background concentrations. Note that the OWS symbol on the figure is not to scale; the soil sampling location was five feet north of the OWS. NFA is recommended for OWS 040B.

Nondetect Review:

Nondetect values were compared to 2004 Region 9 residential PRG and Cal-modified PRG, when available. All nondetect values for VOCs in soil less than PRGs. All nondetect values for metals in soil less than PRGs. All nondetect values for pesticides and herbicides less than PRGs. All nondetect values for SVOC in soil less than PRGs except: bis(2-chloroethyl)ether, hexachlorobenzene, and N-nitroso-di-N-propylamine. All nondetect values for PAH in soil less than PRGs except: benzo(a)pyrene (less than 10 times PRG), benzo(k)fluoranthene (less than 10 times PRG), and dibenzo(ah)anthracene (less than 10 times PRG). Nondetect values were found not to be a problem; critical constituents from a release would be TPH, metals, and VOCs.

2002 Site Visit

Unknown

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **OWS 118** **Refer to Figure #** Figure A-3-14

Navy Recommendation/Closure Status **NFA Recommended**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA

EBS Subparcel 197 **TPH CAA** NA

Associated Building 118 **Building Status** Present **Leasing Status** Leased by ARRA

Building Name Navy Exchange

Additional Information Southeastern corner of Building 118; best-known location shown on figure

Operational Information for SWMU

Type of Unit Oil-Water Separator

Capacity (gallons) 4.5 ft x 8 ft x 5 ft (deep)

Period of Operation Unknown

Material Managed at SWMU Building 118 served as a warehouse and Navy Exchange.

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA

Recommended for NFA from DTSC in 1999 NA

SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA

Status of Associated Pipes NA

Data Analysis

OWS 118 is located near the southeast corner of Building 118, which is within parcel 197 in Zone 21 of the EBS. This SWMU was investigated in the EBS as Target Area 1 within the parcel. One soil sample (197-001-002) was collected adjacent to the OWS from a depth of 3 to 3.5 feet bgs and was analyzed for VOCs, SVOCs, PAHs, metals, and petroleum products to address potential releases from this SWMU. Detectable concentrations of metals were reported below EPA 2002 PRGs and/or Alameda Point background concentrations. Results from the VOC, SVOC, PAH, and TPH analyses did not report detectable concentrations of any target compounds; nondetect values were compared to screening levels and found not to be a problem. The lack of impacted soil strongly indicates no impact to groundwater. Based on these results, no additional sampling was recommended for this SWMU (IT 2001). NFA is recommended for OWS 118.

Nondetect Review:

Nondetect values were compared to 2004 Region 9 residential PRG and Cal-modified PRG, when available. All nondetect values for VOCs in soil less than PRGs. All nondetect values for metals in soil less than PRGs. All nondetect values for SVOC in soil less than PRGs except: benzidine, bis(2-chloroethyl)ether, 3,3'-dichlorobenzidine, hexachlorobenzene, N-nitroso-di-N-propylamine, and N-nitrosodimethylamine. All nondetect values for PAH in soil less than PRGs except: benzo(a)pyrene (less than 10 times PRG), benzo(k)fluoranthene (less than 10 times PRG), and dibenzo(ah)anthracene (less than 10 times PRG). Nondetect values were found to not be a problem as SVOCs and PAHs were not managed at the SWMU.

2002 Site Visit

OWS was observed during the 2002 site visit; it was inactive.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NADEP GAP 73** **Refer to Figure #** Figure A-3-15
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 205 **TPH CAA** NA
Associated Building 523 **Building Status** Removed **Leasing Status** NA
Building Name Line Crew Shack and Maintenance Shelter
Additional Information Outside Building 507 (north); approximate location shown on figure

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) Various size containers
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU JP-5, and engine, lubrication, and hydraulic oils

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 Yes
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NADEP GAP 73 was located outside Building 507, which is in the northern portion of parcel 205 in Zone 04 of the EBS. No evidence of spills or staining was reported during EBS site inspection activities and no known releases are documented from this SWMU; therefore, no target area samples were analyzed specifically for this GAP (IT 2001). As shown in the parcel 205 figure, three sampling locations were analyzed between 20 to 40 feet from the SWMU. All detected compounds reported concentrations below residential PRCs, EPA 2002 PRGs, and/or Alameda Point background levels. The lack of impacted soil strongly indicates no impact to groundwater. Based on these data, no further action was recommended for this SWMU. In addition, a letter from DTSC dated November 4, 1999, also recommended no further action for NADEP GAP 73 (DTSC 1999). NFA is recommended for NADEP GAP 73.

Nondetect Review:

NA

2002 Site Visit

NA

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **AST 091A** Refer to Figure # NA
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 206 **TPH CAA** NA
Associated Building 091 **Building Status** Present **Leasing Status** Leased by ARRA
Building Name Storage and Transfer Warehouse
Additional Information Southwest of Building 91; 1 of 2 tanks; location is approximate.

Operational Information for SWMU

Type of Unit Aboveground Storage Tank(s)
Capacity (gallons) 200
Period of Operation Unknown
Material Managed at SWMU Propane

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank Removed **Status of Associated Pipes** Removed

Data Analysis

Propane is a flammable hydrocarbon gas at standard temperatures and atmospheric pressure. Any releases from this tank would have immediately volatilized. There is no reason to suspect subsurface contamination from this tank. NFA is recommended for AST 091A.

Nondetect Review:

NA

2002 Site Visit

AST removed prior to 2002 site visit.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **AST 091B** Refer to Figure # NA
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 CERCLA Site NA
EBS Subparcel 206 TPH CAA NA
Associated Building 091 Building Status Present Leasing Status Leased by ARRA
Building Name Storage and Transfer Warehouse
Additional Information Southwest of Building 91; 2 of 2 tanks; location is approximate.

Operational Information for SWMU

Type of Unit Aboveground Storage Tank(s)
Capacity (gallons) 200
Period of Operation Unknown
Material Managed at SWMU Propane

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA Recommendation in RFA NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank Removed Status of Associated Pipes Removed

Data Analysis

Propane is a flammable hydrocarbon gas at standard temperatures and atmospheric pressure. Any releases from this tank would have immediately volatilized. There is no reason to suspect subsurface contamination from this tank. NFA is recommended for AST 091B.

Nondetect Review:

NA

2002 Site Visit

AST removed prior to 2002 site visit.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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SWMU Identifier **NAS GAP 14** **Refer to Figure #** NA
Navy Recommendation/Closure Status **NFA Recommended by DTSC (2004)**

Location Description

Disposal Parcel EDC 05 **CERCLA Site** NA
EBS Subparcel 213 **TPH CAA** NA
Associated Building 130 **Building Status** Present **Leasing Status** Not leased by ARRA
Building Name Environmental Preventive Medicine Laboratory
Additional Information Building 130 (inside); location is approximate.

Operational Information for SWMU

Type of Unit Generator Accumulation Point
Capacity (gallons) Less than 100 milliliters
Period of Operation GAPs were formally identified in 1987 and continued to operate until base closure and building cleanup was initiated in 1997. Actual startup dates are unknown.
Material Managed at SWMU Dilute pesticide and rinse solution

Source of Initial SWMU Identification

SWMU # in RFA Not identified in RFA **Recommendation in RFA** NA
Recommended for NFA from DTSC in 1999 NA
SWMU Identified in Other Sources EBS (IT 2001)

Tank-Related Information

Status of Tank NA **Status of Associated Pipes** NA

Data Analysis

NAS GAP 14 was located in Building 130, which is part of parcel 213 in Zone 13 of the EBS. The building served as offices, a laboratory, and an insect research facility. Limited quantities of pesticides were tested on insects raised in the building's insectary. NAS GAP 14 was composed of less than 100 milliliters of dilute pesticide and rinse solution. No evidence of spills or staining was reported during the EBS site inspection activities, and no actual GAP site was noted; therefore, no sampling was recommended for NAS GAP 14. In addition, no parcel-specific samples were collected from parcel 213 because no potential release areas were identified (IT 2001). NFA is recommended to NAS GAP 14.

Nondetect Review:

NA

2002 Site Visit

The interior of Building 130 was inaccessible; however, NAS GAP 14 is documented as less than 100 mL in size and was presumably cleaned and removed upon building closure.

Table A-3-1: PROFILES FOR SOLID WASTE MANAGEMENT UNITS IN EDC 5 INTEGRATED WITH CERCLA PROGRAM

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Notes:

% = Percentage	Navy = U.S. Department of the Navy
ug/kg = Micrograms per kilogram	ND = Not detected
ug/L = Micrograms per liter	NE = Northeast
AOC = Area of concern	NFA = No further action
ARRA = Alameda Reuse and Redevelopment Authority	NW = Northwest
AST = Aboveground storage tank	OU = Operable Unit
bgs = Below ground surface	OWS = Oil-water separator
BTEX = Benzene, toluene, ethylbenzene, and xylenes	PAH = Polynuclear aromatic hydrocarbons
CAA = Corrective action area	PCB = Polychlorinated biphenyl
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act	PMB = Plastic material blasting
CERFA = Community Environmental Response Facilitation Act	PPM = Parts per million
CRS = Coolant Recovery System	PRC = Preliminary remediation criteria
DTSC = California Environmental Protection Agency Department of Toxic Substances Control	PRG = Preliminary remediation goal
EBS = Environmental baseline survey	PWC = Navy Public Works Center
EDC = Economic development conveyance	(R) = RCRA-related UST
EPA = U.S. Environmental Protection Agency	RCRA = Resource Conservation and Recovery Act
ERM-West = Environmental Resource Management - West	RFA = RCRA facility assessment
FED = Federal agency-to-agency transfer	RFI = RCRA facility investigation
FSP = Field sampling plan	RI = Remedial investigation
ft = Foot	RI/FS = Remedial investigation and feasibility study
Gal = gallon	RWQCB = Regional Water Quality Control Board
GAP = Generator accumulation point	SE = Southeast
GW = Groundwater	SEBS = Supplemental environmental baseline survey
ID = Identification	SSPORTS = Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia
IT = International Technology Corporation	SVOC = Semivolatile organic compound
IWTP = Industrial wastewater treatment plant	SW = Southwest
JP = Jet propellant	SWARF = Refers to machine and grinding coolant
M = Miscellaneous area identified in the RFA	SWMU = Solid waste management unit
MCL = Maximum contaminant level	TCA = Trichloroethane
MEK = Methyl ethyl ketone	Tetra Tech = Tetra Tech EM Inc.
mg/kg = Milligrams per kilogram	TPH = Total petroleum hydrocarbons
mg/L = milligrams per liter	TPHd = Total petroleum hydrocarbons as diesel
mL = milliliter	TPHg = Total petroleum hydrocarbons as gasoline
NA = Not applicable	TPHmo = Total petroleum hydrocarbons as motor oil
NADEP = Naval Aviation Depot Alameda	USFWS = U.S. Fish and Wildlife Service
NARF = Naval Air Rework Facility Alameda	UST = Underground storage tank
NAS = Naval Air Station	VOC = Volatile organic compound
	WD = Washdown area

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SSIC NO. 5090.3

APPENDIX G – SOLID WASTE MANAGEMENT
UNIT EVALUATION REPORT FOR PUBLIC
BENEFIT CONVEYANCE 1A

COMPILATION OF SOLID WASTE MANAGEMENT
UNIT EVALUATION REPORTS PREVIOUSLY
SUBMITTED WITH CERCLA DOCUMENTS
HAZARDOUS WASTE PERMIT
EPA ID NUMBER CA 2170023236

DATED 23 DECEMBER 2005



Draft

**ATTACHMENT A
SOLID WASTE MANAGEMENT UNIT
EVALUATION REPORT FOR PUBLIC
BENEFIT CONVEYANCE PARCEL 1A
Hazardous Waste Permit
EPA ID Number CA 2170023236**

**Naval Air Station Alameda
(Now Known as Alameda Point)
Alameda, California**

AUGUST 1, 2005

Prepared for:
**Base Realignment and Closure
Program Management Office West
San Diego, California**

Prepared by:
**SulTech, A Joint Venture of Sullivan Consulting Group
and Tetra Tech EM Inc.
1230 Columbia Street, Suite 1000
San Diego, California 92101**

Prepared under:
**Naval Facilities Engineering Command
Contract Number N687-1103-D-5104
Contract Task Order 012**

TC.B012.12223

Draft

**Attachment A
Solid Waste Management Unit Evaluation Report for
Public Benefit Conveyance Parcel 1A
Hazardous Waste Permit EPA ID Number CA 2170023236
Alameda Point
Alameda, California**

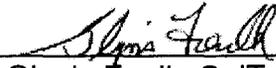
Contract Task Order 012
TC.B012.12223

PREPARED FOR:

DEPARTMENT OF THE NAVY

REVIEW AND APPROVAL

Project Manager:



Glynis Foulk, SulTech

Date: 8/1/05

TC.B012.12223

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- A2-1 Solid Waste Management Units Integrated with the Total Petroleum Hydrocarbon Program in PBC Parcel 1A at Alameda Point

ACRONYMS AND ABBREVIATIONS

AST	Aboveground storage tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DTSC	California Environmental Protection Agency Department of Toxic Substances Control
EBS	Environmental baseline survey
EPA	U.S. Environmental Protection Agency
ID	Identification
Navy	U.S. Department of the Navy
NFA	No further action
PBC	Public benefit conveyance
RCRA	Resource Conservation and Recovery Act
RFA	RCRA facility assessment
RFI	RCRA facility investigation
RI	Remedial investigation
SI	Site investigation
SulTech	A joint venture of Sullivan Consulting Group and Tetra Tech EM Inc.
SWMU	Solid waste management unit
Tetra Tech	Tetra Tech EM Inc.
TPH	Total petroleum hydrocarbons
UST	Underground storage tank

EXECUTIVE SUMMARY

The U.S. Department of the Navy (Navy), Base Realignment and Closure Program Management Office West, requested that SulTech, a joint venture of Sullivan Consulting Group and Tetra Tech EM Inc., prepare this solid waste management unit (SWMU) evaluation report to summarize the results of all past assessments and investigations of the SWMUs within public benefit conveyance (PBC) parcel 1A at Alameda Point (formerly Naval Air Station Alameda), in Alameda County, California. This report was prepared in accordance with Contract Task Order 0012, issued under the Architectural-Engineering Services to Provide Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/Resource Conservation and Recovery Act/Underground Storage Tank Studies, Contract Number N68711-03-D-5104.

This report applied the Navy SWMU integration approach to three (3) SWMUs within PBC 1A; these SWMUs are inactive. The integration approach resulted in a recommendation that these SWMUs be integrated with the Navy's Total Petroleum Hydrocarbon program. No evaluations were conducted on these SWMUs. No SWMUs were integrated with the CERCLA program. The Navy is requesting concurrence on these recommendations.

A.1.0 INTRODUCTION

The U.S. Department of the Navy (Navy), Base Realignment and Closure Program Management Office West, requested that SulTech, a joint venture of Sullivan Consulting Group and Tetra Tech EM Inc. (Tetra Tech), prepare this solid waste management unit (SWMU) evaluation report to summarize the results of all past assessments and investigations of the SWMUs within public benefit conveyance (PBC) parcel 1A at Alameda Point (formerly Naval Air Station Alameda), in Alameda County, California. This report was prepared in accordance with Contract Task Order 0012, issued under the Architectural-Engineering Services to Provide Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/ Resource Conservation and Recovery Act (RCRA)/Underground Storage Tank (UST) Studies, Contract Number N68711-03-D-5104.

This evaluation report documents three (3) SWMUs within PBC 1A, each of which were integrated with the total petroleum hydrocarbon (TPH) program. No evaluations were conducted on these SWMUs. No SWMUs were integrated with the CERCLA program. This evaluation report is provided as an attachment to the site investigation (SI) report for PBC 1A.

The remainder of this attachment is divided into four sections. Section A.2.0 provides background information and the Navy's approaches for evaluating the SWMUs at Alameda Point. Section A.3.0 presents an evaluation for the SWMUs within PBC 1A, and Section A.4.0 summarizes recommendations for those SWMUs. Finally, Section A.5.0 provides the references used to prepare this evaluation report.

A.2.0 BACKGROUND AND APPROACHES FOR EVALUATIONS OF SOLID WASTE MANAGEMENT UNITS

A "SWMU" is any unit at a hazardous waste facility from which hazardous constituents might migrate, irrespective of whether the unit was intended for the management of wastes (Title 22 *California Code of Regulations* Section 66260.10). At Alameda Point, SWMUs include areas of concern, generator accumulation points, CERCLA sites, oil-water separators, aboveground storage tanks (AST), USTs, washdown areas, and miscellaneous sites.

The following subsections describe the history of SWMU assessments and investigations at Alameda Point (see Figure A2-1), and the Navy's approaches for ensuring that the results of those assessments and investigations are evaluated in a manner consistent with RCRA requirements.

A.2.1 HISTORY OF SOLID WASTE MANAGEMENT UNIT ASSESSMENTS AND INVESTIGATIONS

Most of the SWMUs at Alameda Point were first identified in 1991 in an initial RCRA facility assessment (RFA) (DTSC 1992), which was required to obtain a permit for the management of hazardous wastes in a number of specific management units no longer in operation at Alameda Point. According to Sections V.F through V.J of the final hazardous waste facility permit for Alameda Point (EPA ID CA 2170023236), information to support corrective action decisions regarding each SWMU was to be collected and submitted to DTSC. The permit described a typical RCRA corrective action process, which involves an analysis of RFA data to determine which SWMUs require further evaluation in a RCRA facility investigation (RFI), and requires the Navy to identify additional SWMUs, as appropriate, and include them in the corrective action process.

The initial RFA identified 151 SWMUs and concluded that a number of the SWMUs would need further investigation under an RFI, which is usually conducted under a series of RCRA permit modifications. After the final RCRA permit was issued, however, the Navy and the regulatory agencies determined that the most efficient and effective approach for assessing any additional SWMUs and conducting RFIs would be to take advantage of functionally equivalent investigations that have been and continue to be conducted under a number of other Navy environmental programs. Types of investigations include environmental baseline survey (EBS) investigations under the Base Realignment and Closure property transfer program; investigations of possible releases of TPHs from sources such as pipelines, USTs, and ASTs under the TPH program; and SIs and remedial investigations (RI) under the CERCLA program. Subsequent to the RFA and as a result of the investigations described previously, 215 additional SWMUs were identified and assessed at Alameda Point. These additional SWMUs were included in the final supplemental EBS (Tetra Tech 2003).

The Navy received a letter dated November 1999 from DTSC with comments on the SWMUs following their review of the draft EBS; the final EBS was submitted in 2001 (International Technology Corporation 2001). For some of the SWMUs, DTSC concurred with the recommendation in the EBS for no further action (NFA). For most of the SWMUs located within a CERCLA site, DTSC withheld concurrence with NFA, pending resolution of each site's RI report (DTSC 1999).

Recognizing that the investigation and management of SWMUs had been divided among a number of Navy programs, the Navy developed a SWMU evaluation approach coupled with a SWMU integration approach to ensure that all the SWMUs at Alameda Point would be managed under the appropriate Navy program and would receive appropriate response actions. These two SWMU approaches are described in Sections A.2.2 and A.2.3 of this report.

A.2.2 SOLID WASTE MANAGEMENT UNIT EVALUATION APPROACH

The SWMU evaluation approach is a three-step process that begins by listing the SWMUs identified and investigated under each Navy program. In the next step, a SWMU profile is compiled for each SWMU; these profiles consist of descriptive information on each SWMU, the name of the Navy program that provided the functional equivalent of an RFA (and in some cases, an RFI) for the SWMU, and the results of all investigations conducted on that SWMU, including figures and tables, as needed. In the final step, each SWMU profile is analyzed to determine whether the functional equivalents of the elements of a RCRA corrective action process have been conducted and whether any additional actions are needed.

A.2.3 SOLID WASTE MANAGEMENT UNIT INTEGRATION APPROACH

The purpose of the SWMU integration approach is to facilitate appropriate actions for all SWMUs under the appropriate Navy and regulatory programs. The approach allows final decisions to be made for basewide integration concerning each SWMU, such that petroleum-related SWMUs are addressed under the TPH program and most other SWMUs are addressed under the CERCLA program. Under the integration approach, any RCRA corrective action requirements for the SWMUs will be complied with under CERCLA remedial actions or under TPH corrective actions. Figure A2-2 shows the SWMU integration approach.

Based on an evaluation of the SWMU profiles according to the steps in the SWMU evaluation process (see Section A.2.2), the Navy is recommending either NFA or further action for each SWMU at Alameda Point. If further action is recommended, future RCRA corrective action requirements for the SWMUs will be complied with under the appropriate Navy program. On an ongoing basis, the SWMUs will be evaluated to determine whether a SWMU has been or is being investigated under the appropriate Navy program. If a SWMU is found to be in the wrong program, it will be moved to the appropriate program.

Before developing the integration approach, the Navy and the regulators had decided that the “regulated” waste management units originally included in the interim status document and final permit for Alameda Point (EPA ID CA 2170023236) would continue to be investigated and closed under the Navy’s RCRA program with oversight from DTSC. These regulated units are, therefore, not included in the integration approach and are not described in this report.

As a result of the SWMU integration approach, the SWMUs at PBC 1A were not integrated with the CERCLA program; instead, these SWMUs were integrated with the TPH program and are not addressed in this report (see Table A2-1).

The SWMU integration approach was submitted to DTSC in May 2004 for review; DTSC has not yet decided to accept the integration approach.

A.3.0 SOLID WASTE MANAGEMENT UNIT EVALUATION

Figure A3-1 shows the location of the three SWMUs within PBC 1A. All of them were integrated with the TPH program; therefore, no SWMUs in PBC 1A were integrated with the CERCLA program.

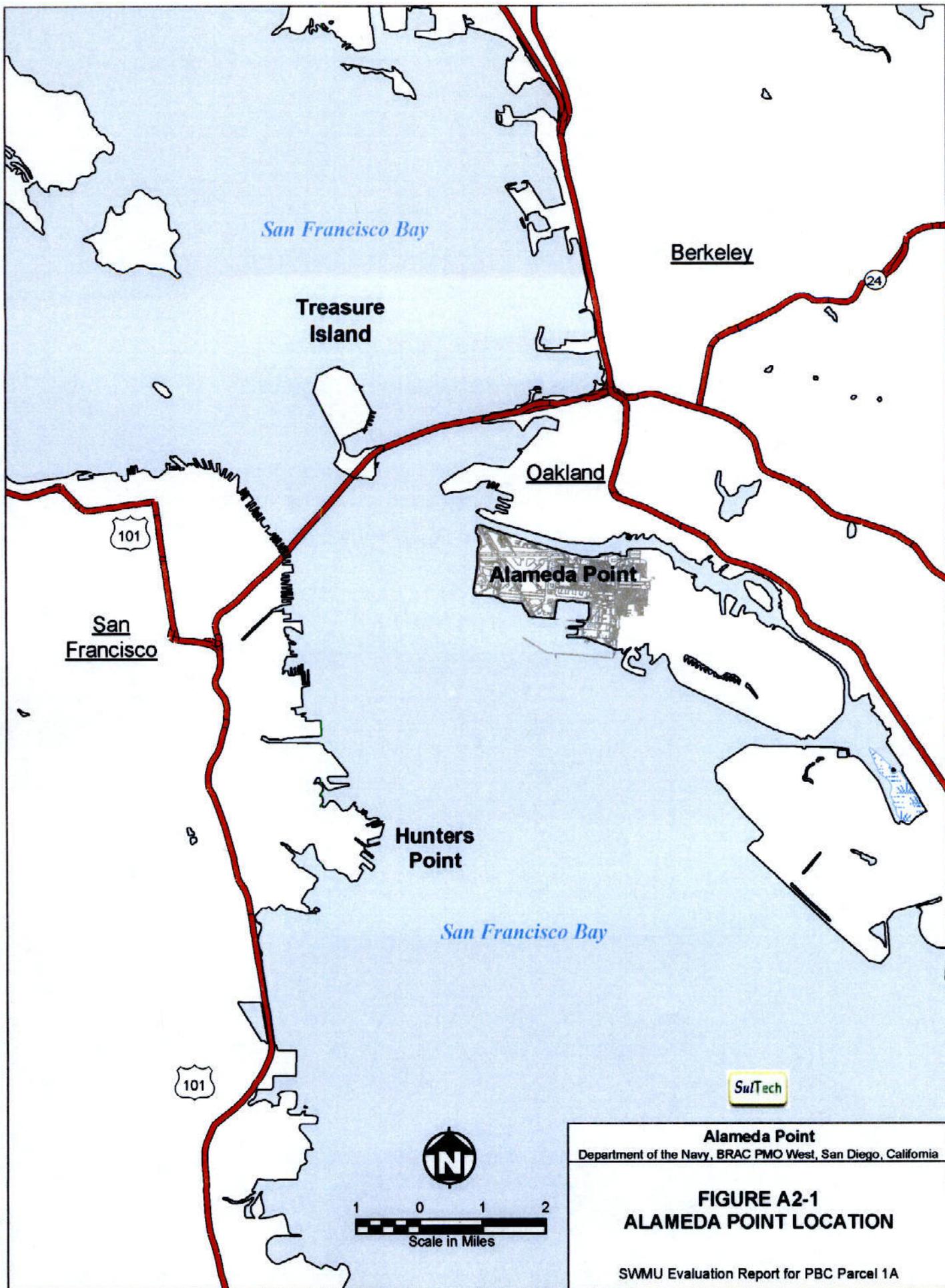
A.4.0 RECOMMENDATIONS

All SWMUs within PBC 1A should continue to be managed under the TPH program; none of them should be integrated with the CERCLA program. The Navy is requesting concurrence on these recommendations.

A.5.0 REFERENCES

- California Environmental Protection Agency Department of Toxic Substances Control (DTSC). 1992. "RCRA Facility Assessment, Naval Air Station, Alameda, California." April.
- DTSC. 1999. Letter from DTSC to Commanding Officer, Engineering Field Activity, West, Naval Facilities Command concerning Review of RCRA Status for Environmental Baseline Survey at Alameda Point, Alameda, California. November 4.
- International Technology Corporation. 2001. "EBS Data Evaluation Summaries - Final, Alameda Point, Alameda, California, Volumes 0 through XIV." January.
- Tetra Tech EM Inc. (Tetra Tech). 2003. "Final Supplemental Environmental Baseline Survey, Alameda Point, Alameda, California." March.

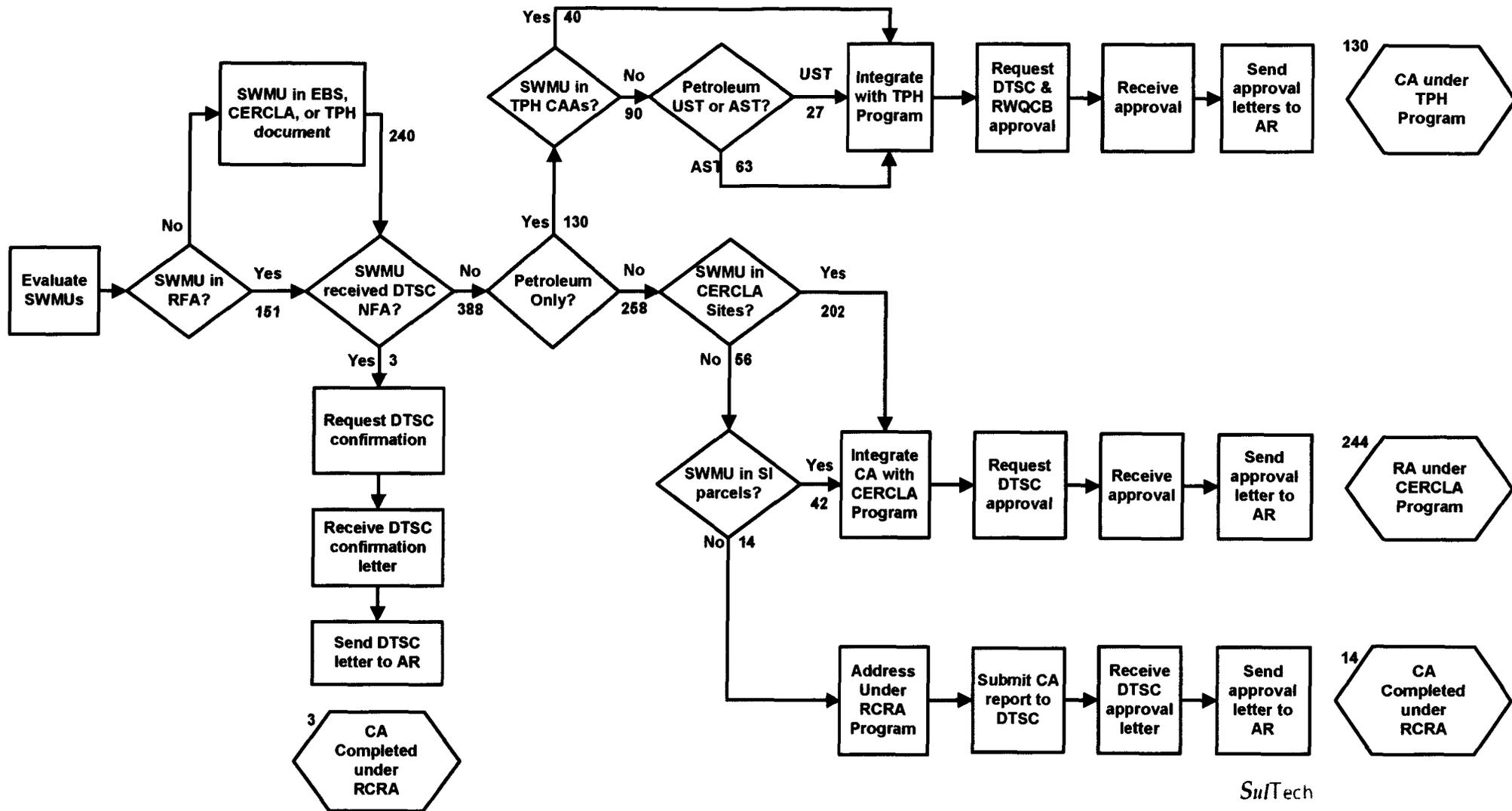
FIGURES



Alameda Point
 Department of the Navy, BRAC PMO West, San Diego, California

**FIGURE A2-1
 ALAMEDA POINT LOCATION**

SWMU Evaluation Report for PBC Parcel 1A



NOTES

1. SWMUs include CERCLA sites, USTs, ASTs, oil-water separators, washdown areas, and underground fuel pipelines but exclude RCRA-regulated units
2. Numbers indicate number of SWMUs

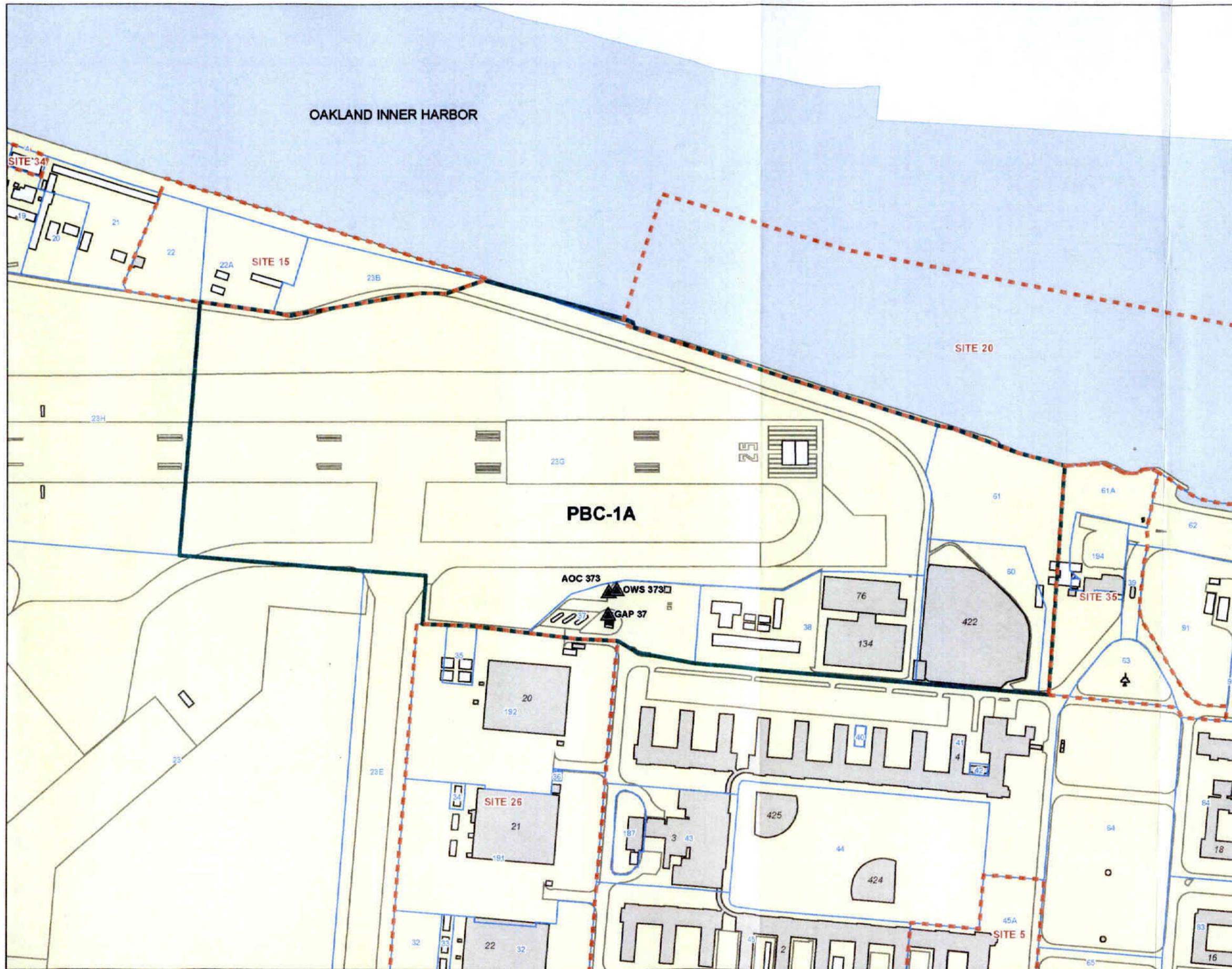
ACRONYMS

AR	Administrative Record	RA	Response Action
AST	Aboveground Storage Tank	RCRA	Resource Conservation and Recovery Act
CA	Corrective Action	RFA	RCRA Facility Assessment
CAA	Corrective Action Area	RWQCB	Regional Water Quality Control Board
CERCLA	Comp. Env. Resp., Compensation, and Liability Act	SI	Site Investigation
DTSC	Cal EPA Department of Toxic Substances Control	SWMU	Solid Waste Management Unit
EBS	Environmental Baseline Survey	TPH	Total Petroleum Hydrocarbon
NFA	No Further Action	UST	Underground Storage Tank

Alameda Point
Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE A2-2
SOLID WASTE MANAGEMENT UNIT
INTEGRATION APPROACH
RCRA Hazardous Waste Facility Permit
EPA ID CA 2170023236
NAS Alameda, Alameda, CA

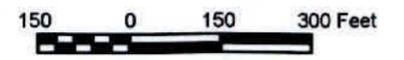
SWMU Evaluation Report for PBC Parcel 1A



- SWMUs INTEGRATED WITH THE TPH PROGRAM
- DISPOSAL PARCEL PBC-1A
- CERCLA SITE
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- BUILDING**
- Present
- Removed
- LAND COVER
- WATER

Notes:

AOC = Area of concern
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 PBC = Public Benefit Conveyance
 SWMU = Solid Waste Management Unit
 TPH = Total petroleum hydrocarbons



Alameda Point
 Department of the Navy, BRAC PMO West, San Diego, California

FIGURE A3-1
SWMUs Located Within PBC Parcel 1A

SWMU Evaluation Report for PBC Parcel 1A

TABLES

**TABLE A2-1: SOLID WASTE MANAGEMENT UNITS INTEGRATED WITH THE
TOTAL PETROLEUM HYDROCARBON PROGRAM IN PBC PARCEL 1A AT
ALAMEDA POINT**

Solid Waste Management Unit Evaluation Report for Public Benefit Conveyance Parcel 1A
Page 1 of 1

EBS Subparcel	Identification	Material Stored/Disposed	Navy Recommendation/ Closure Status
37	AOC 373	Waste Oil	Further Action Recommended
37	GAP 37	Solvents and petroleum products related to fuel station	NFA Recommended
37	OWS 373	Fuel Oil	NFA Recommended

Notes:

ASTs and USTs containing petroleum are being addressed by RWQCB.

AOC	Area of concern
AST	Aboveground storage tank
EBS	Environmental baseline survey
EDC	Economic development conveyance
GAP	Generator accumulation point
NA	Not applicable
NAS	Naval Air Station
NFA	No further action
OWS	Oil-water separator
(R)	RCRA
RCRA	Resource Conservation and Recovery Act
RWQCB	Regional Water Quality Control Board
SWMU	Solid waste management unit
UST	Underground storage tank