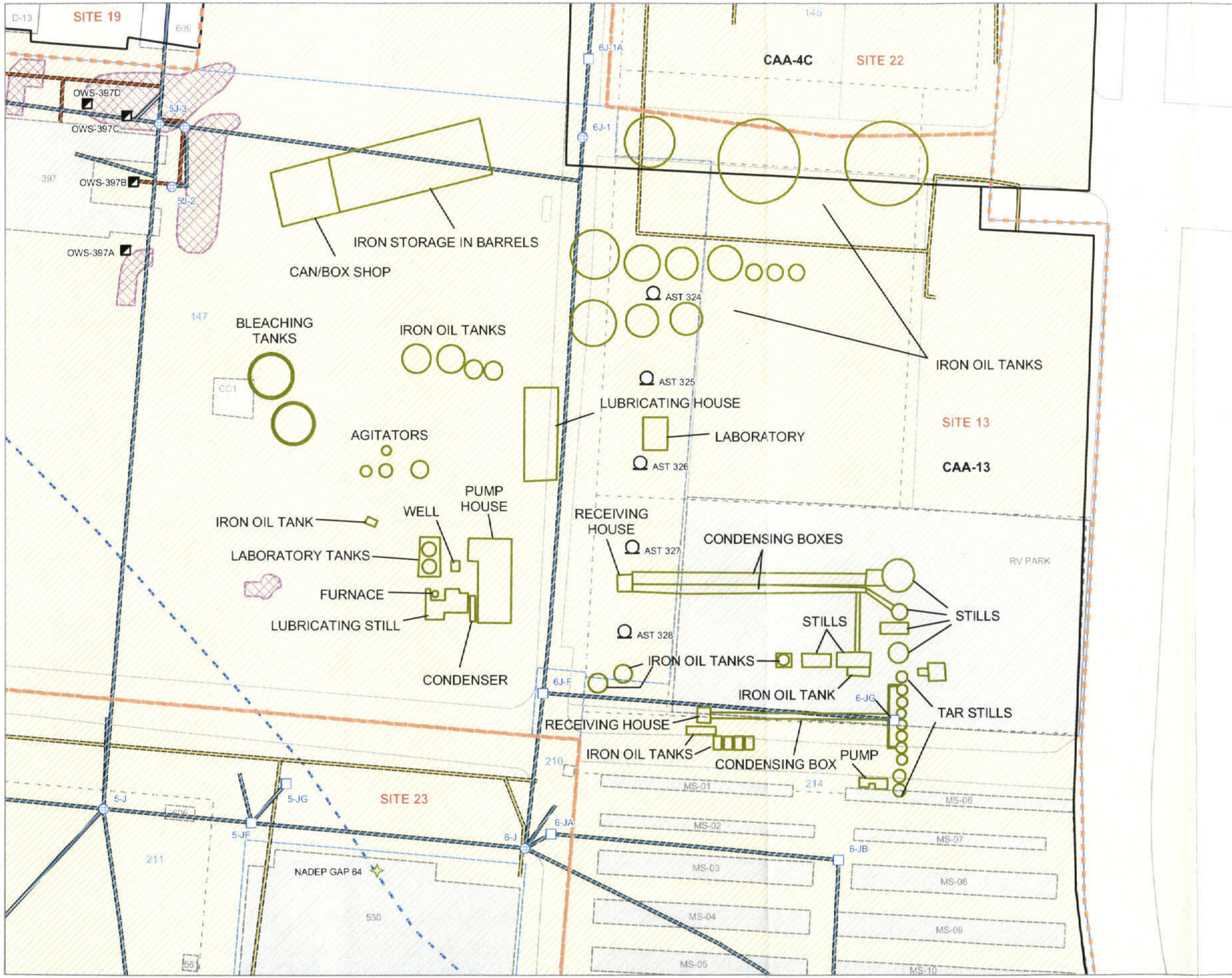
Previous

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

FIGURE 6-1
SITE 13 FEATURES

Operable Unit 2A
Remedial Investigation Report

2005-01-25 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-01_s13_features.mxd TtEMI-SA K. Johnson



ABOVEGROUND STORAGE TANK (AST), REMOVED

UNDERGROUND STORAGE TANK (UST), REMOVED

GENERATOR ACCUMULATION POINT (GAP)

CATCH BASIN

MANHOLE

FORMER OIL-WATER SEPARATOR (OWS)

FENCE

HISTORIC SHORELINE

FUEL LINE

SANITARY SEWER LINE

STORM SEWER LINE

CORRECTIVE ACTION AREA (CAA)

CERCLA SITE BOUNDARY

FORMER OIL REFINERY

ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER

LAND COVER

EXCAVATION

BUILDING

Present

Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
NADEP = Naval Aviation Depot Alameda

40 0 40 80 Feet

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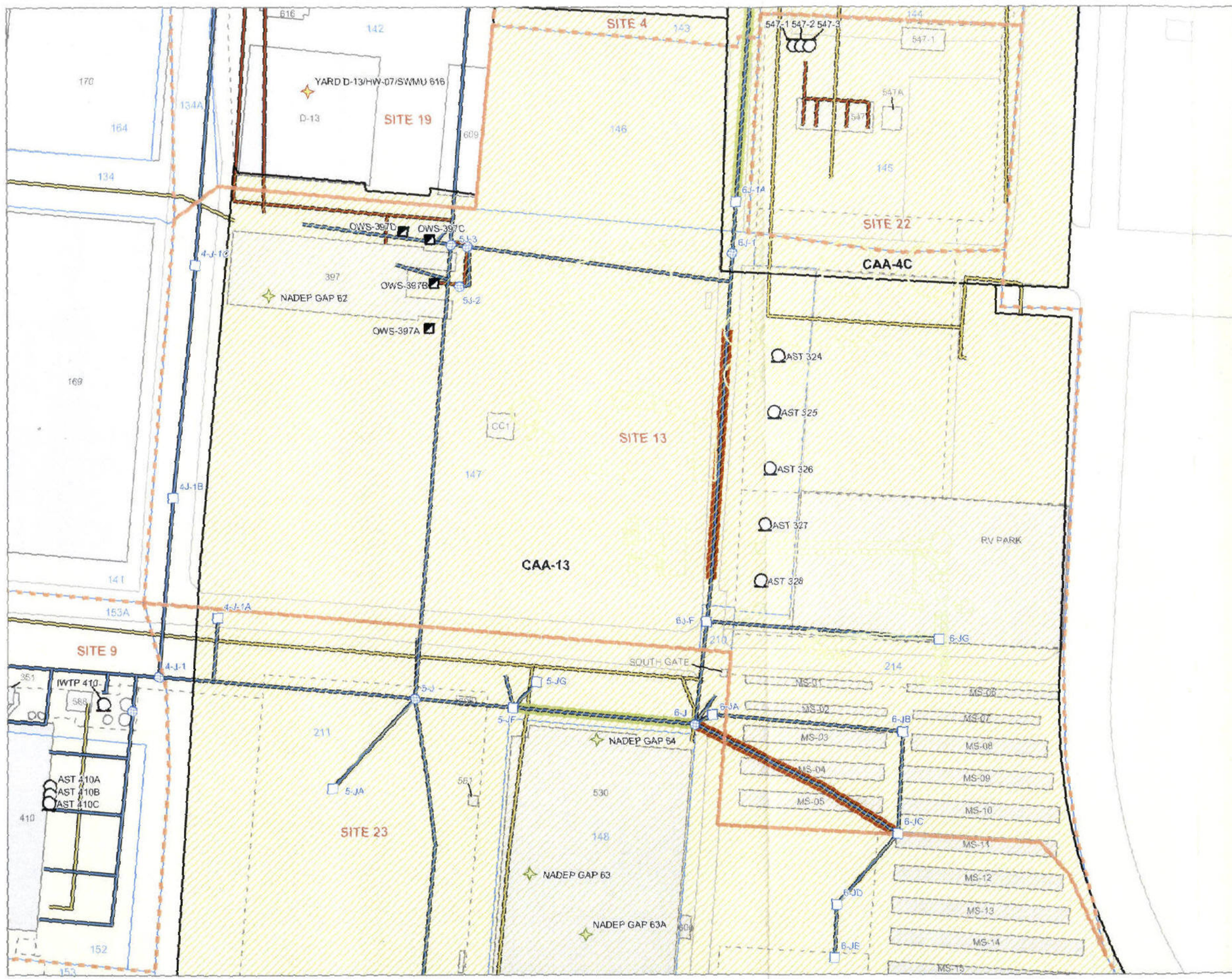
FIGURE 6-2
SITE 13
FORMER OIL REFINERY FEATURES

Operable Unit 2A
Remedial Investigation Report

2005-01-10 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-02_s13_refinery_features.mxd TtEMI-SA K. Johnson

2005-02-03 U:\almda_sa\DO026\OU2A\RI\mxd\fig06-03_s13_s&gw.mxd TtEMI-SA K. Johnson



ABOVEGROUND STORAGE TANK (AST), REMOVED

UNDERGROUND STORAGE TANK (UST), REMOVED

GENERATOR ACCUMULATION POINT (GAP)

SOLID WASTE MANAGEMENT UNIT (SWMU)

CATCH BASIN

MANHOLE

FORMER OIL-WATER SEPARATOR (OWS)

FENCE

FUEL LINE

SANITARY SEWER LINE

STORM SEWER LINE

Unclassified

Damaged - high priority

Damaged - low priority

CORRECTIVE ACTION AREA (CAA)

FORMER OIL REFINERY

CERCLA SITE BOUNDARY

ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL NUMBER

LAND COVER

BUILDING

Present

Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda

60 0 60 120 Feet

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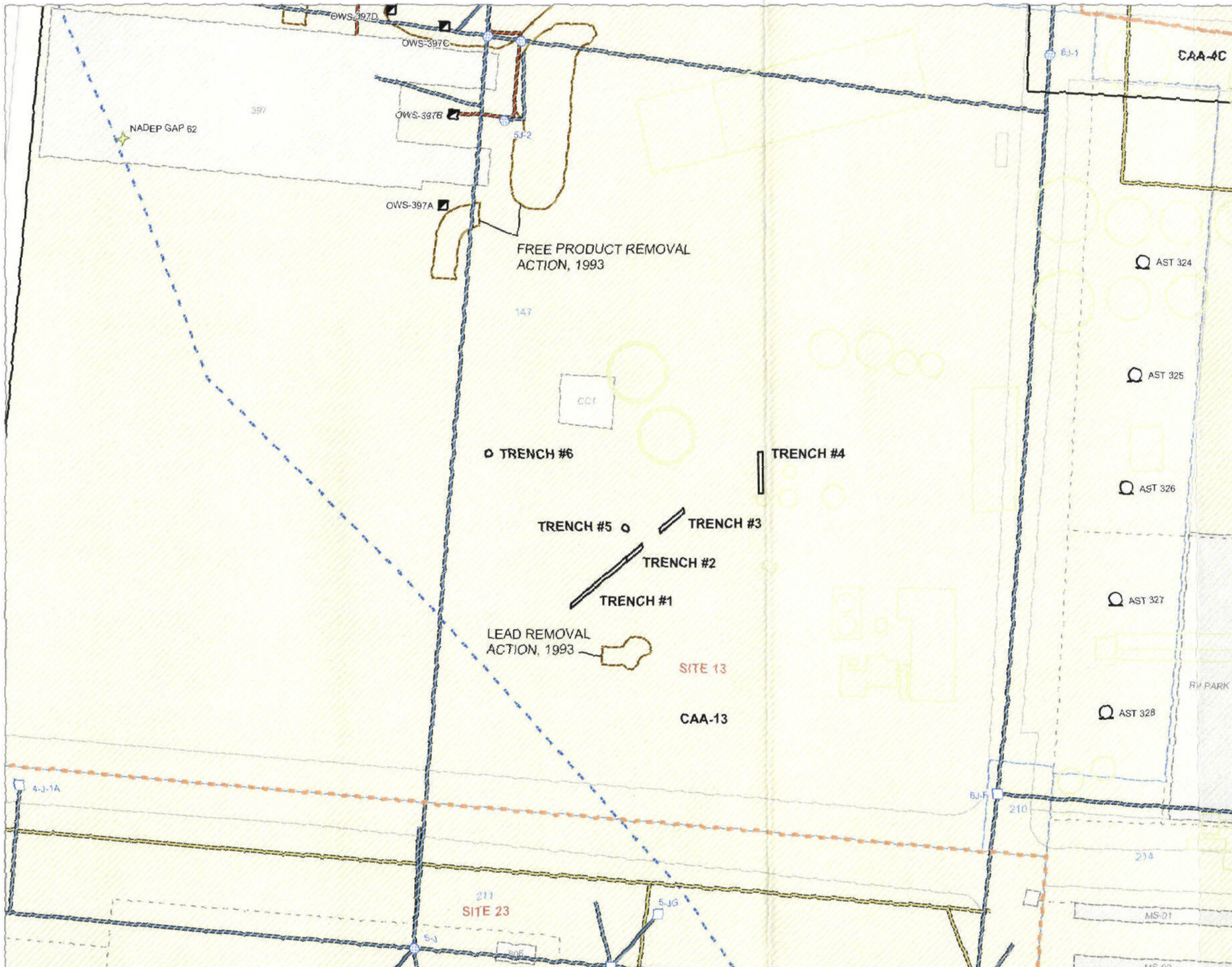
FIGURE 6-4
SITE 13
STORM SEWER CONDITION

Operable Unit 2A
Remedial Investigation Report

2005-01-04 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-04_s13_sewer_cond.mxd TtEMI-SA K. Johnson



ABOVEGROUND STORAGE TANK (AST), REMOVED

GENERATOR ACCUMULATION POINT (GAP)

CATCH BASIN

MANHOLE

FORMER-OIL WATER SEPARATOR (OWS)

TRENCH, TERRAIN CONDUCTIVITY MAPPING, 2003

FENCE

HISTORIC SHORELINE

FUEL LINE

SANITARY SEWER LINE

STORM SEWER LINE

EXCAVATION

CORRECTIVE ACTION AREA (CAA)

CERCLA SITE BOUNDARY

FORMER OIL REFINERY

ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER

LAND COVER

BUILDING

Present

Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
NADEP = Naval Aviation Depot Alameda

N

30 0 30 60 Feet

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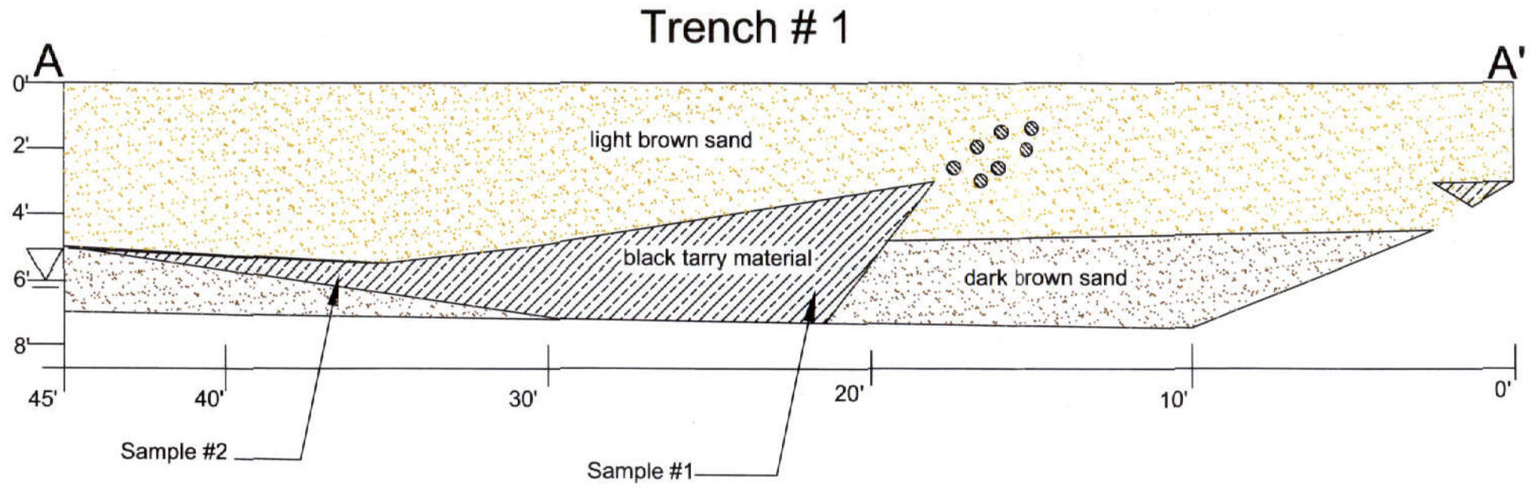
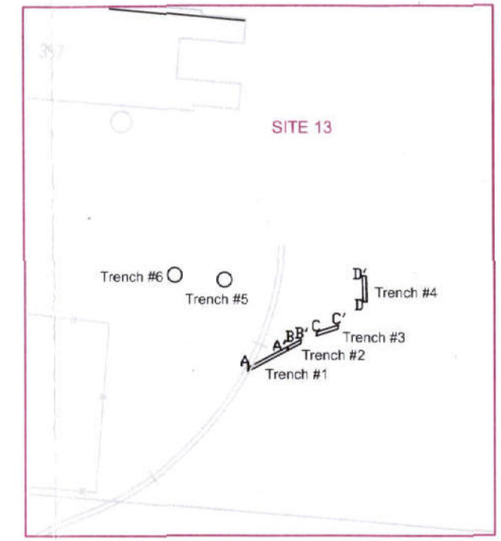
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-5
SITE 13 PAST REMOVAL ACTIONS AND TERRAIN CONDUCTIVITY MAPPING

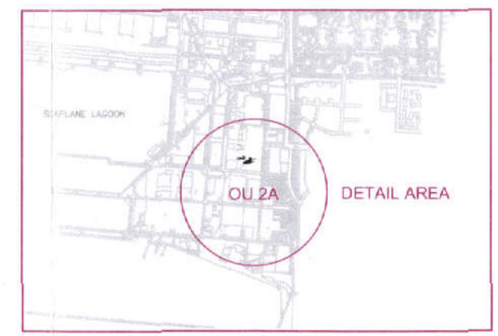
Operable Unit 2A
Remedial Investigation Report

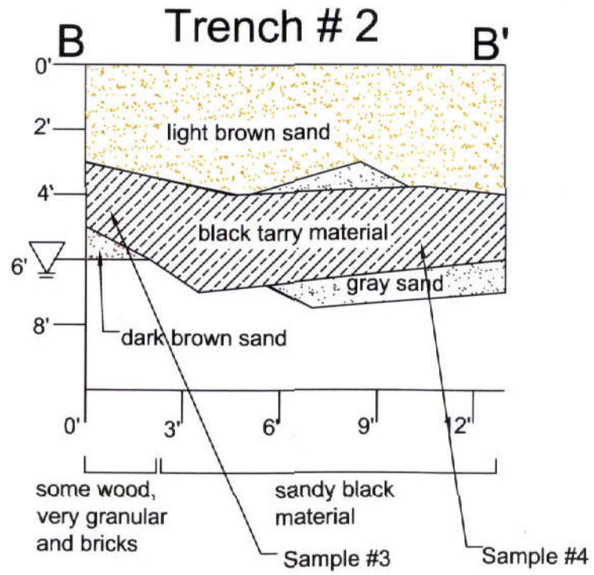
2005-02-03 U:\almda_sa\DD028\OU2A\RI\mxd\fig06-10_s13_trenches.mxd TtEMI-SA K. Johnson

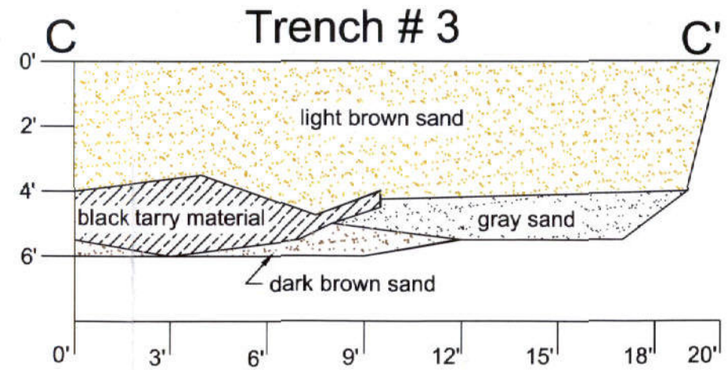




DETAIL AREA







▽ = Water level encountered in Test Pits

N

5' 0' 5' 10'

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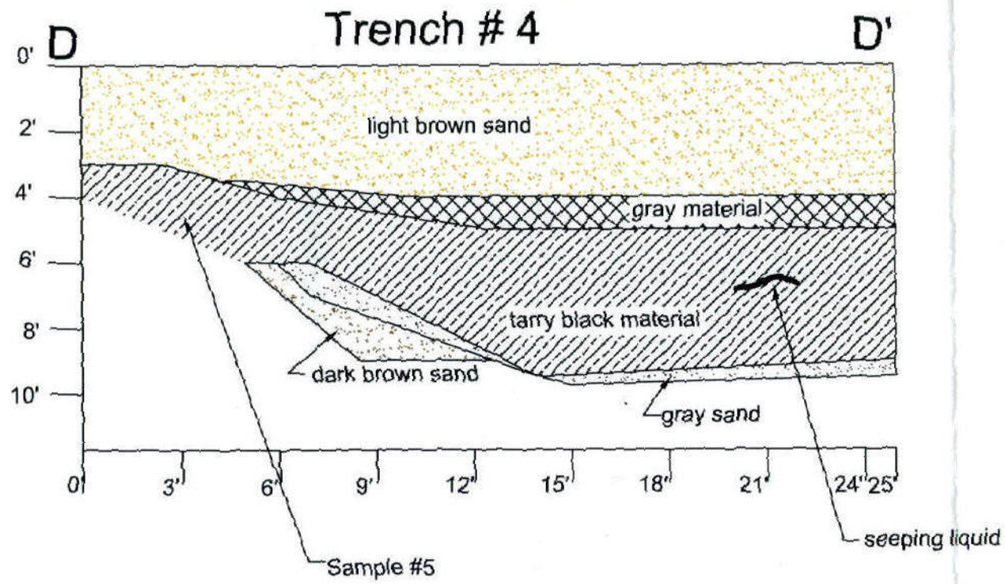
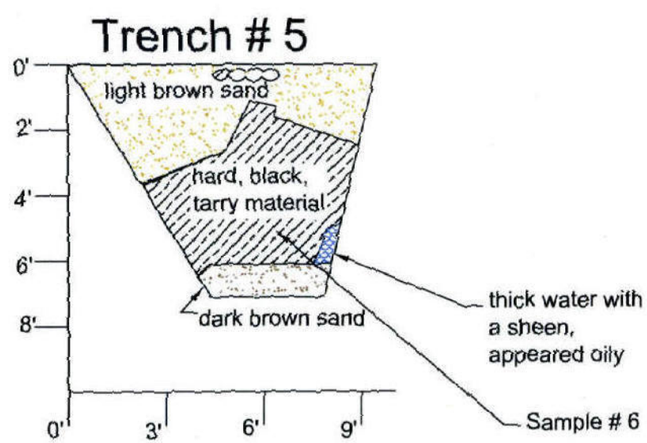
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-6
GEOLOGICAL CROSS SECTION and CONDUCTIVITY SAMPLE LOCATIONS, TRENCHES 1 - 3
Operable Unit 2A, Site 13
Operable Unit 2A
Remedial Investigation Report

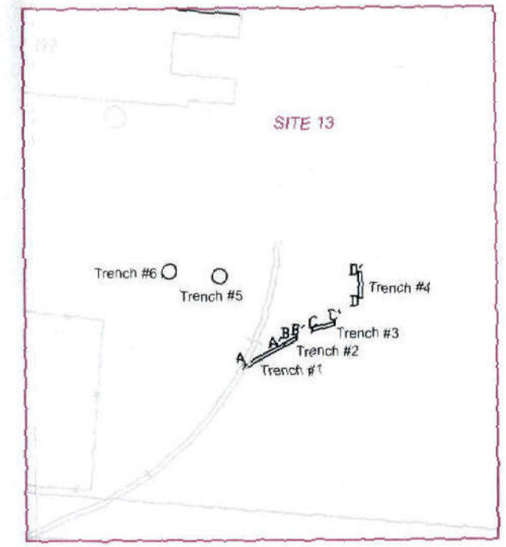
S:/AECRU/ALAMEDA/Operable Unit 2A (DO 028)\OU-2A RI\WORKING FILES\PAH\Trench PAH\tarry waste

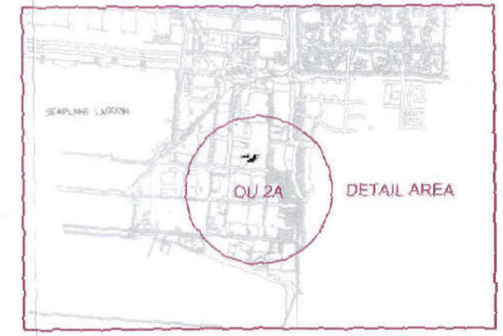




Trench # 6

Surface Sample # 7





▽ = Water level encountered in Test Pits

N

5' 0' 5' 10'

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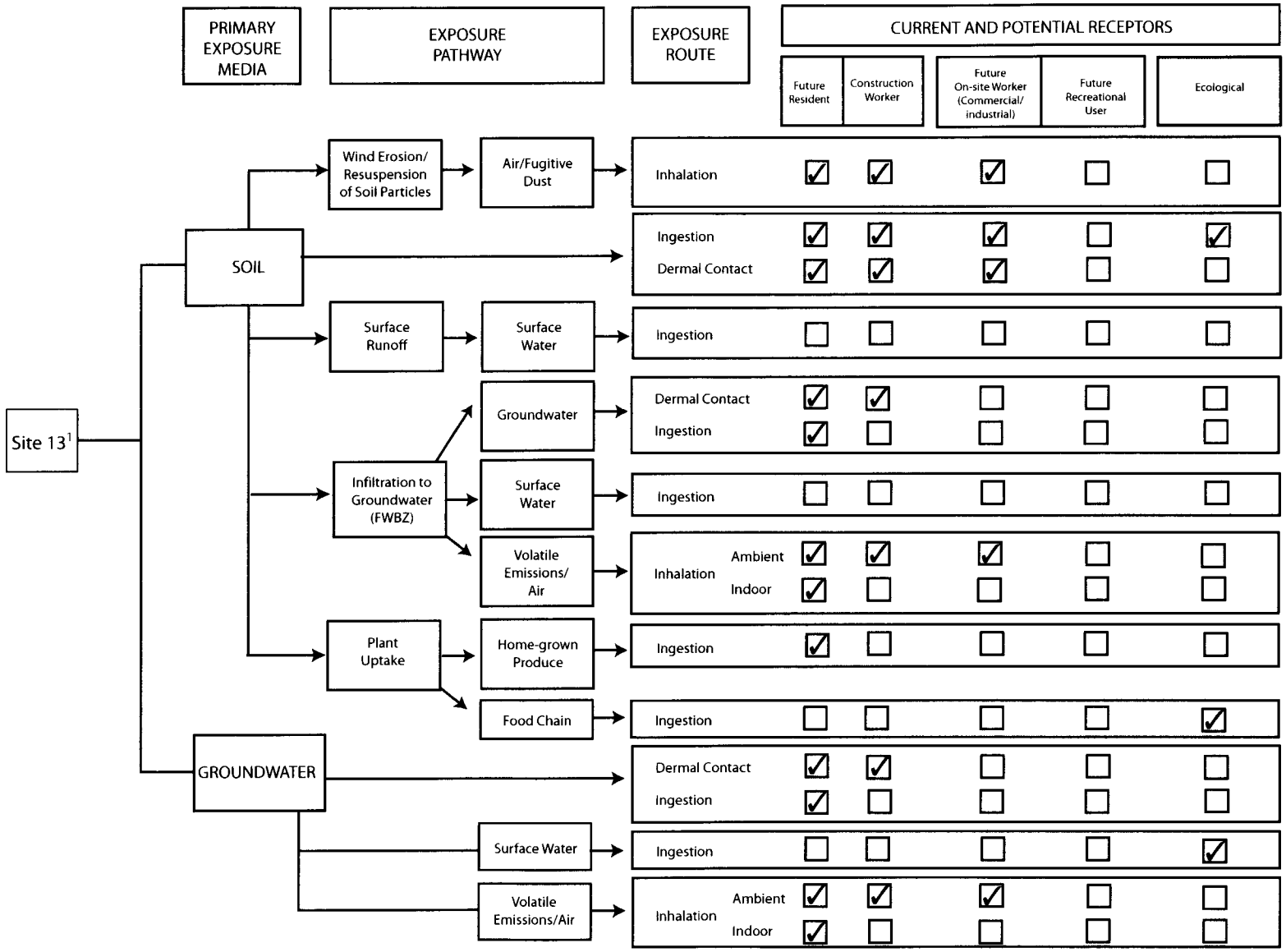
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-7
GEOLOGICAL CROSS SECTION and SAMPLE LOCATIONS, TRENCHES 4 - 6
Operable Unit 2A, Site 13
Operable Unit 2A
Remedial Investigation Report

S:/AECRU/ALAMEDA/Operable Unit 2A (DO 028)\OU-2A RI\WORKING FILES\PAH\Trench PAH\tarry waste



[1]Oil refinery, former ASTs 324-328, Building 397 and associated OWSs 397A-397D, fill material

☑ Potentially Complete Exposure Pathway

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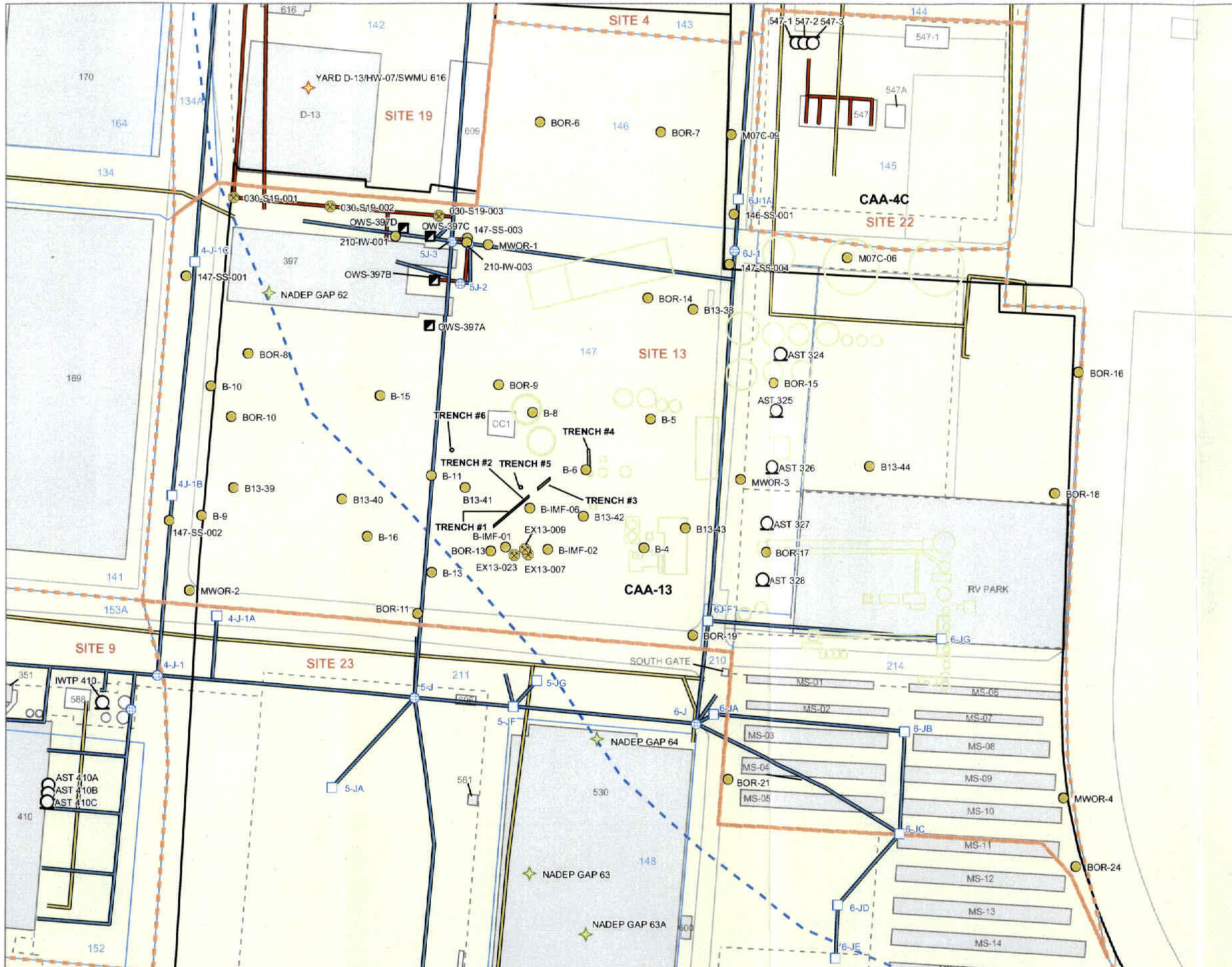
FIGURE 6-8
CONCEPTUAL SITE MODEL
Operable Unit 2A
Remedial Investigation Report



SAMPLING LOCATION

- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
SVOC = Semivolatile Organic Compound

60 0 60 120 Feet

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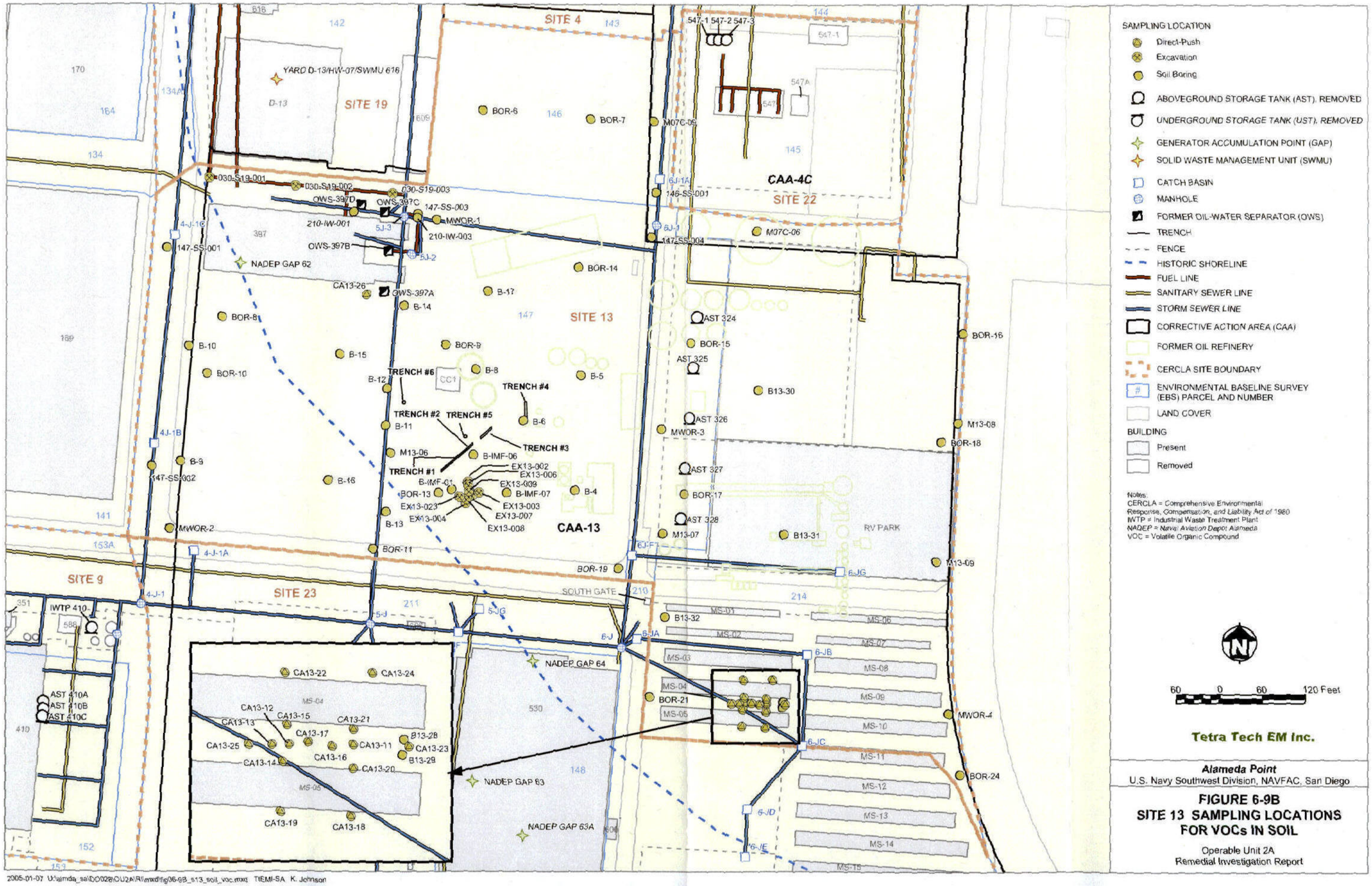
FIGURE 6-9A
SITE 13 SAMPLING LOCATIONS FOR SVOCs IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-07 U:\almda_sa\DO028\OU2A\Rf\mxd\fig06-9A_s13_soil_svoc.mxd TtEMI-SA K. Johnson



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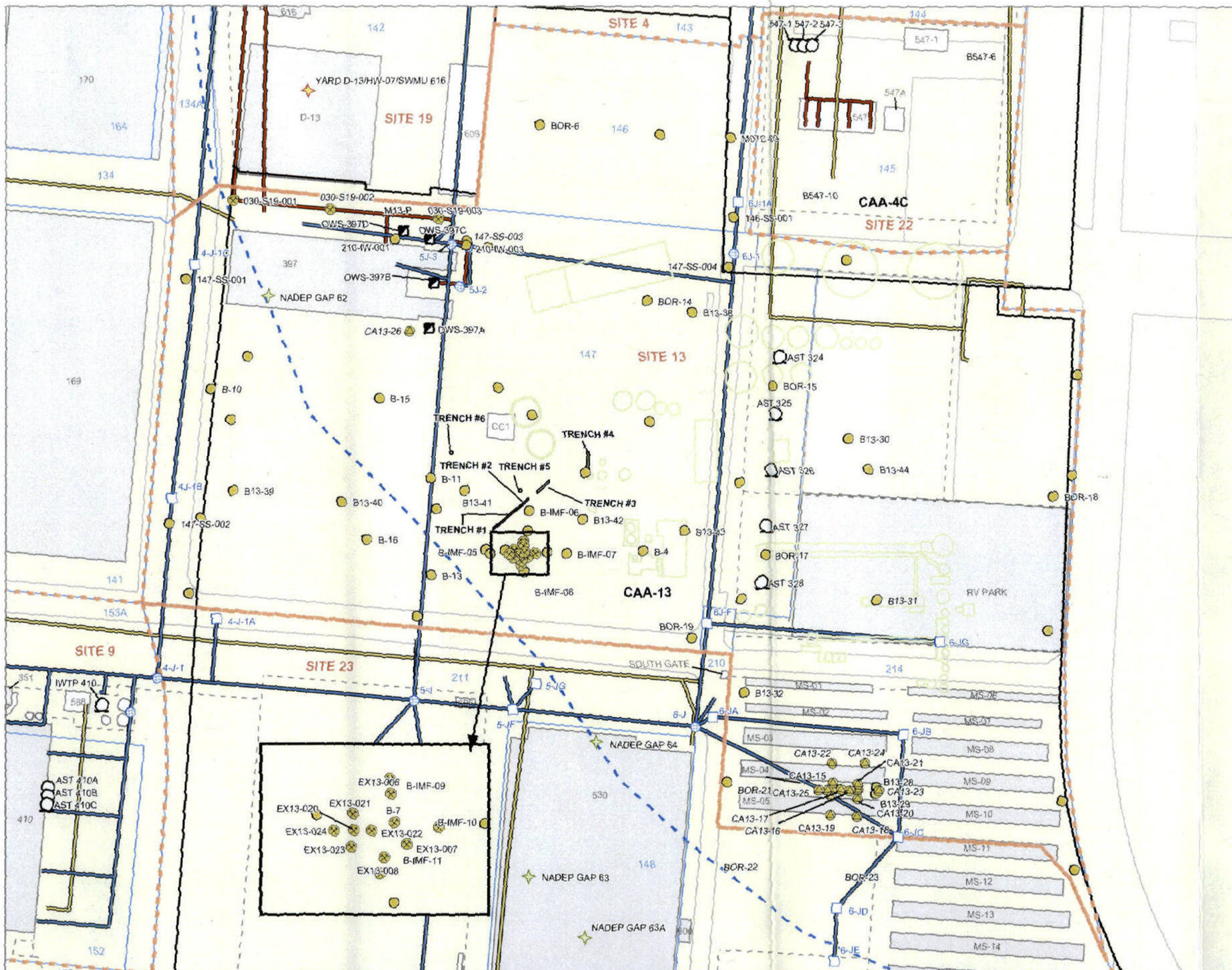

SAMPLING LOCATION

- Direct-Push
- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda

60 0 60 120 Feet

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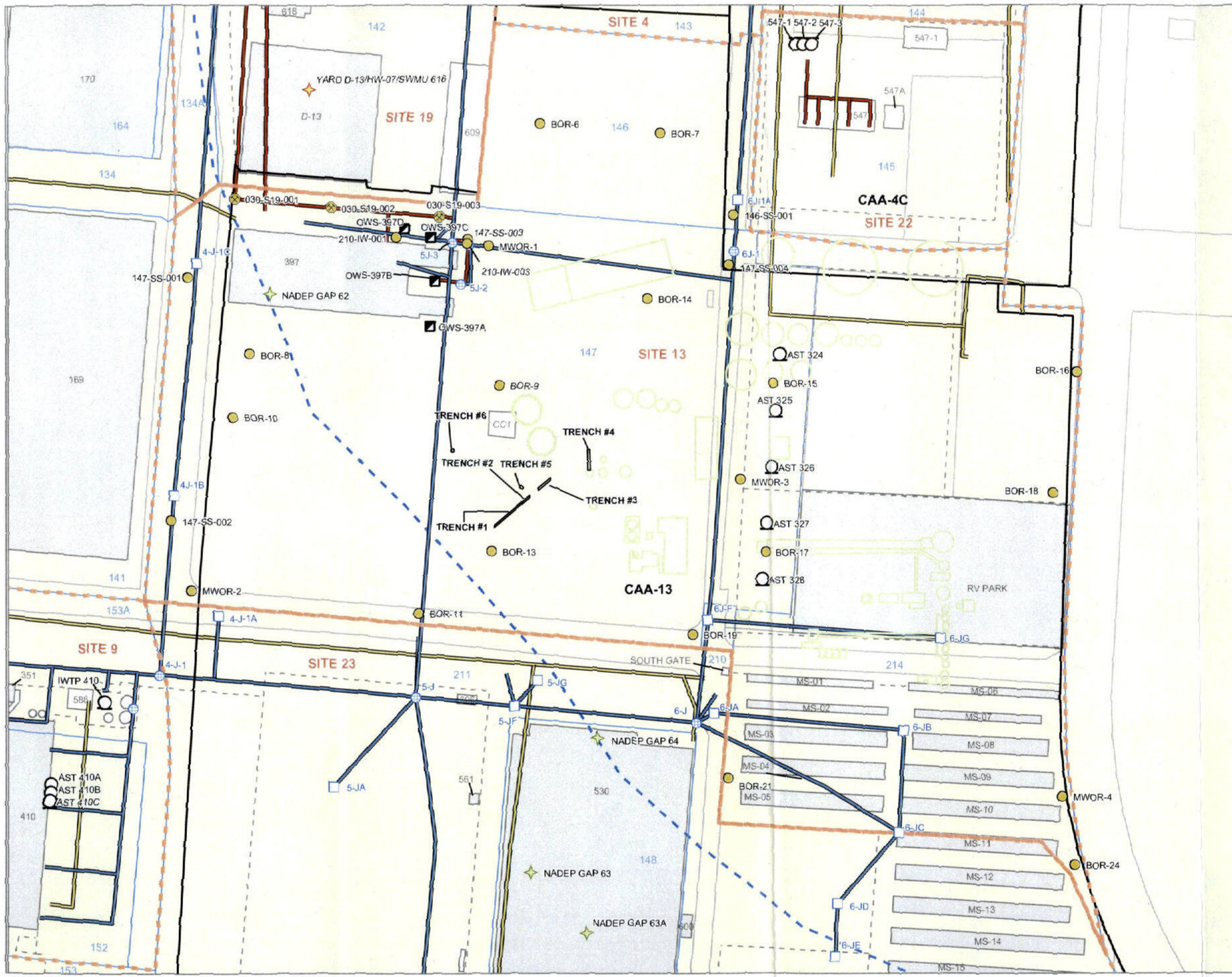
FIGURE 6-9C
SITE 13 SAMPLING LOCATIONS FOR METALS IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-07 U:\alameda_sa\DO028\OU2A\RI\mxd\fig06-9C_s13_soil_metal.mxd TtEMI-SA K. Johnson



SAMPLING LOCATION

- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- # ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda

60 0 60 120 Feet

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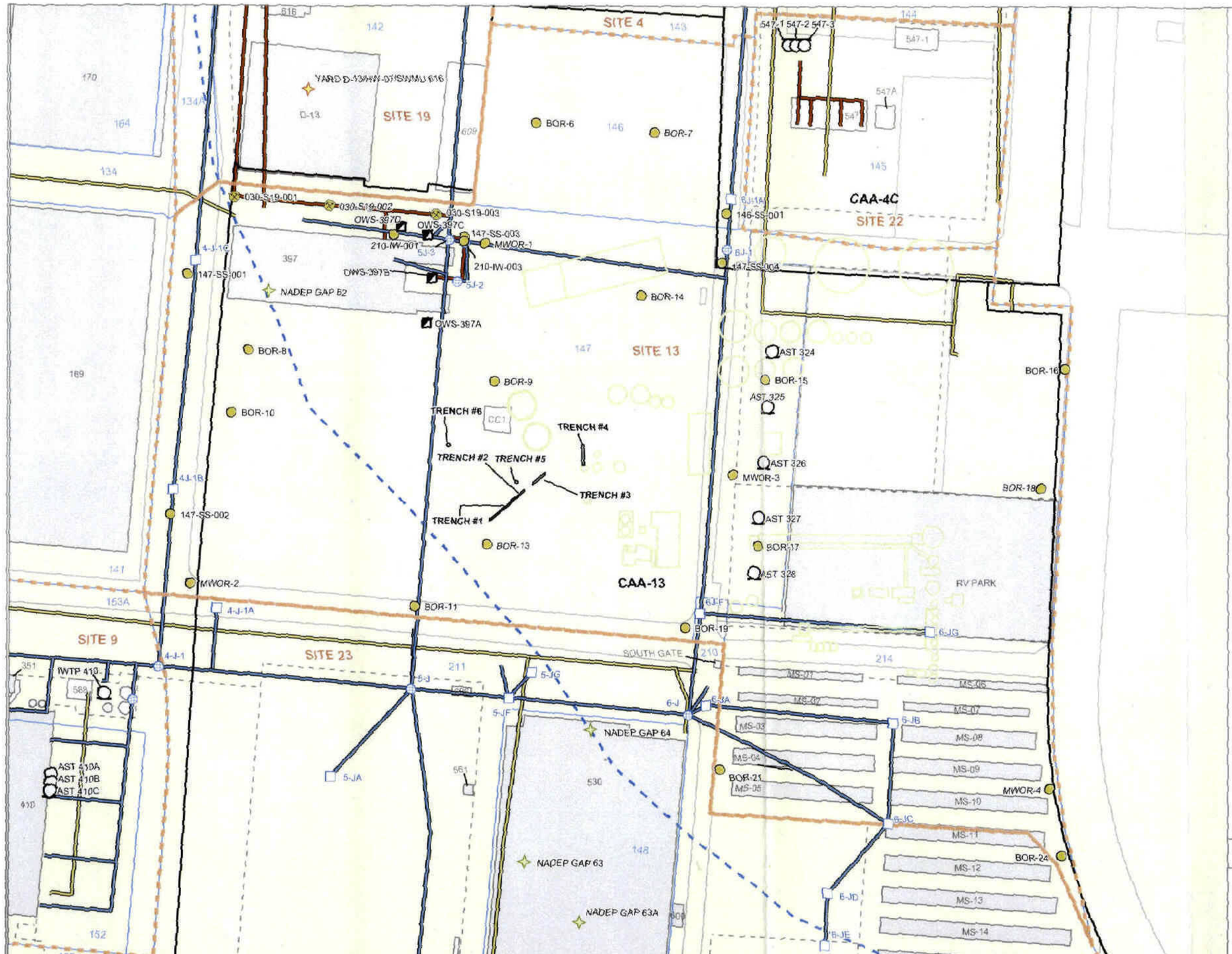
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-9D
SITE 13 SAMPLING LOCATIONS FOR PESTICIDES IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-07 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-9D_s13_soil_pest.mxd TtEMI-SA K. Johnson



SAMPLING LOCATION

- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
PCB = Polychlorinated biphenyl

60 0 60 120 Feet

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

FIGURE 6-9E
SITE 13 SAMPLING LOCATIONS FOR PCBs IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\alameda_sai\DO02a\OU2A\RI\mxd\fig06-9E_s13_soil_pcb.mxd TIEMI-SA K. Johnson

2005-01-11 U:\alameda_ian\DOC23\OU2A\RI\mxd\fig06-9F_s13_soil_pah.mxd TtEMI-SA K. Johnson

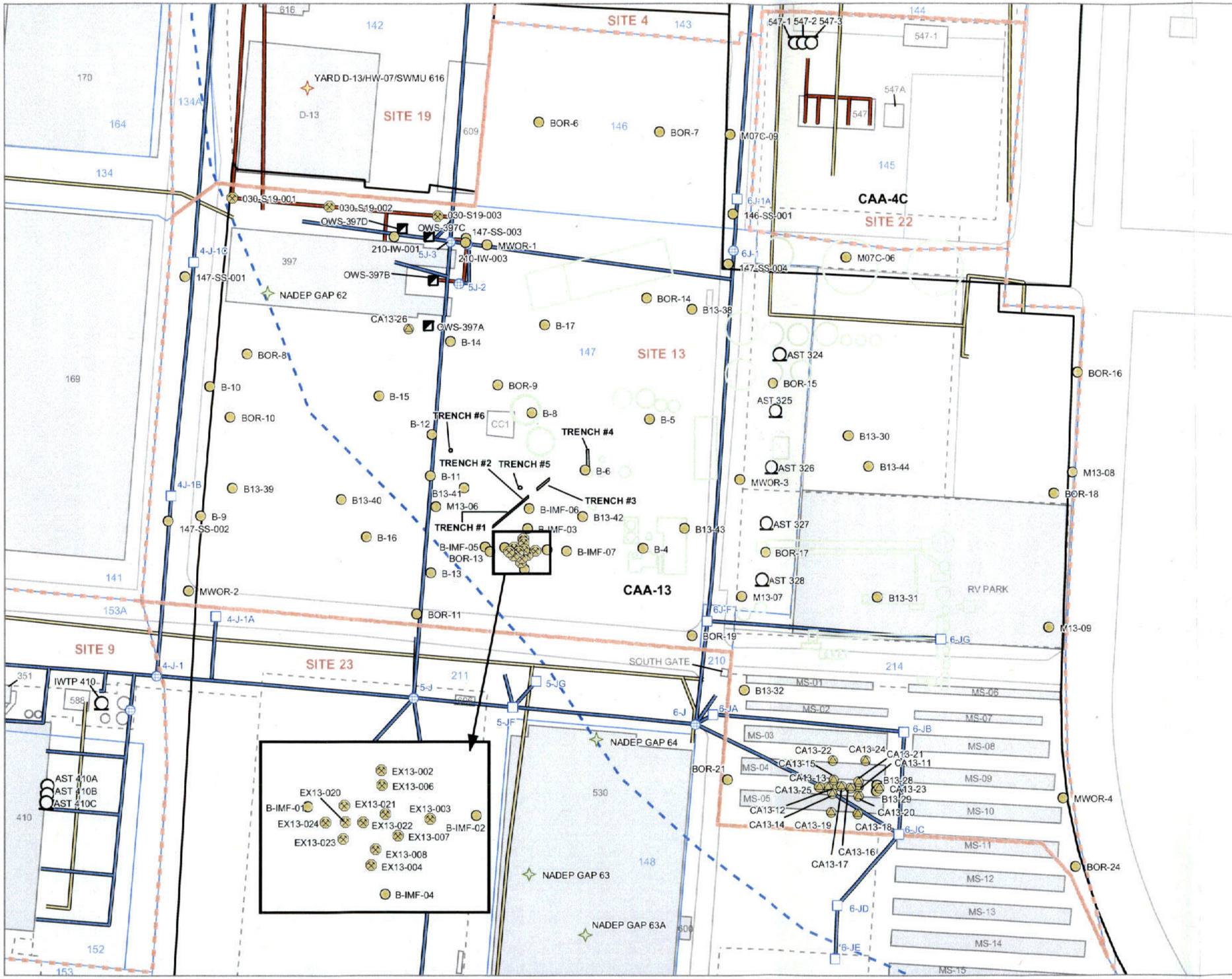

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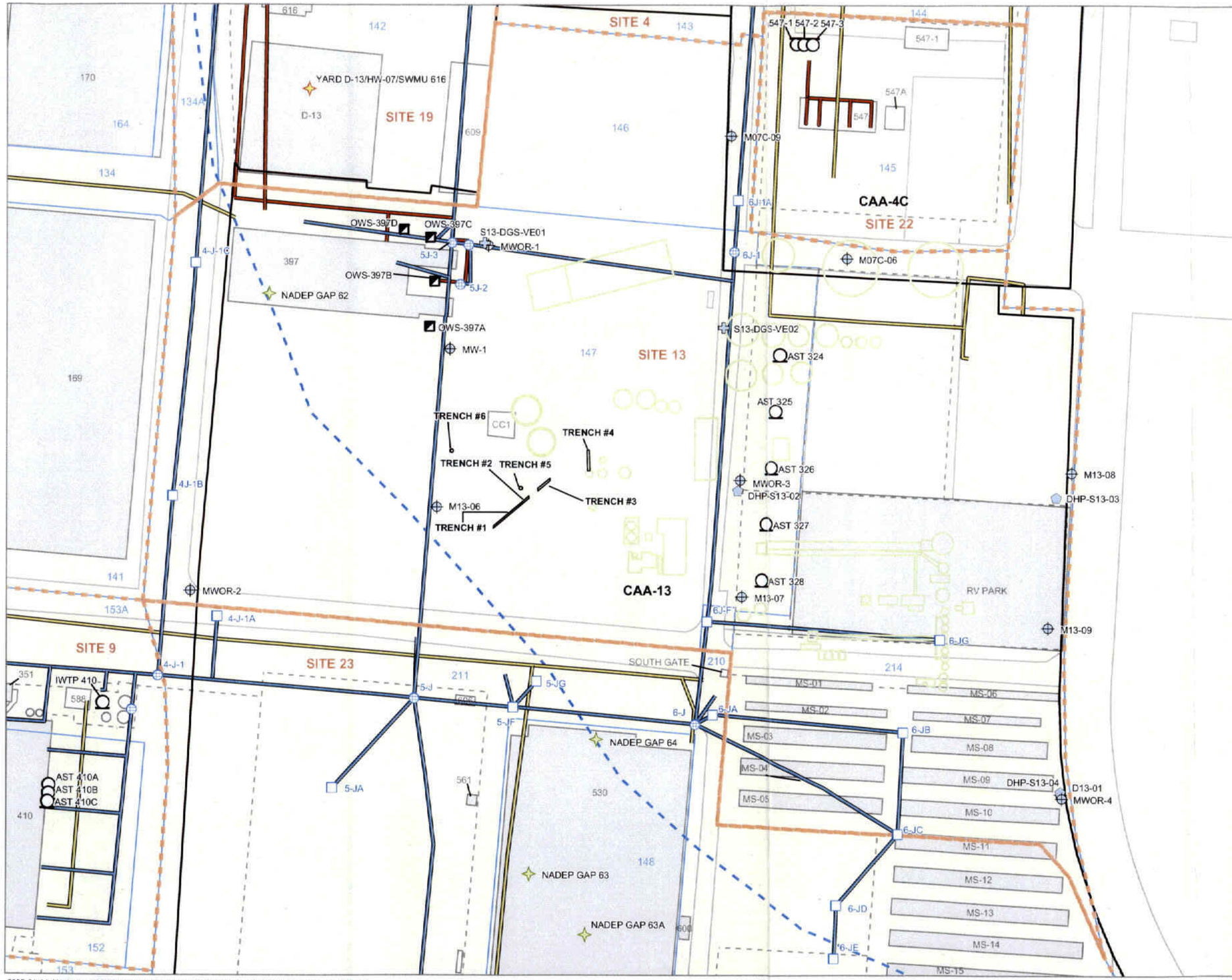
FIGURE 6-9G
SITE 13 SAMPLING LOCATIONS FOR TPH IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-9G_s13_soil_tph.mxd TtEMI-SA K. Johnson



SAMPLING LOCATION

- Hydropunch
- Monitoring Well
- Vacuum Extraction
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
SVOC = Semivolatile Organic Compound

N

60 0 60 120 Feet

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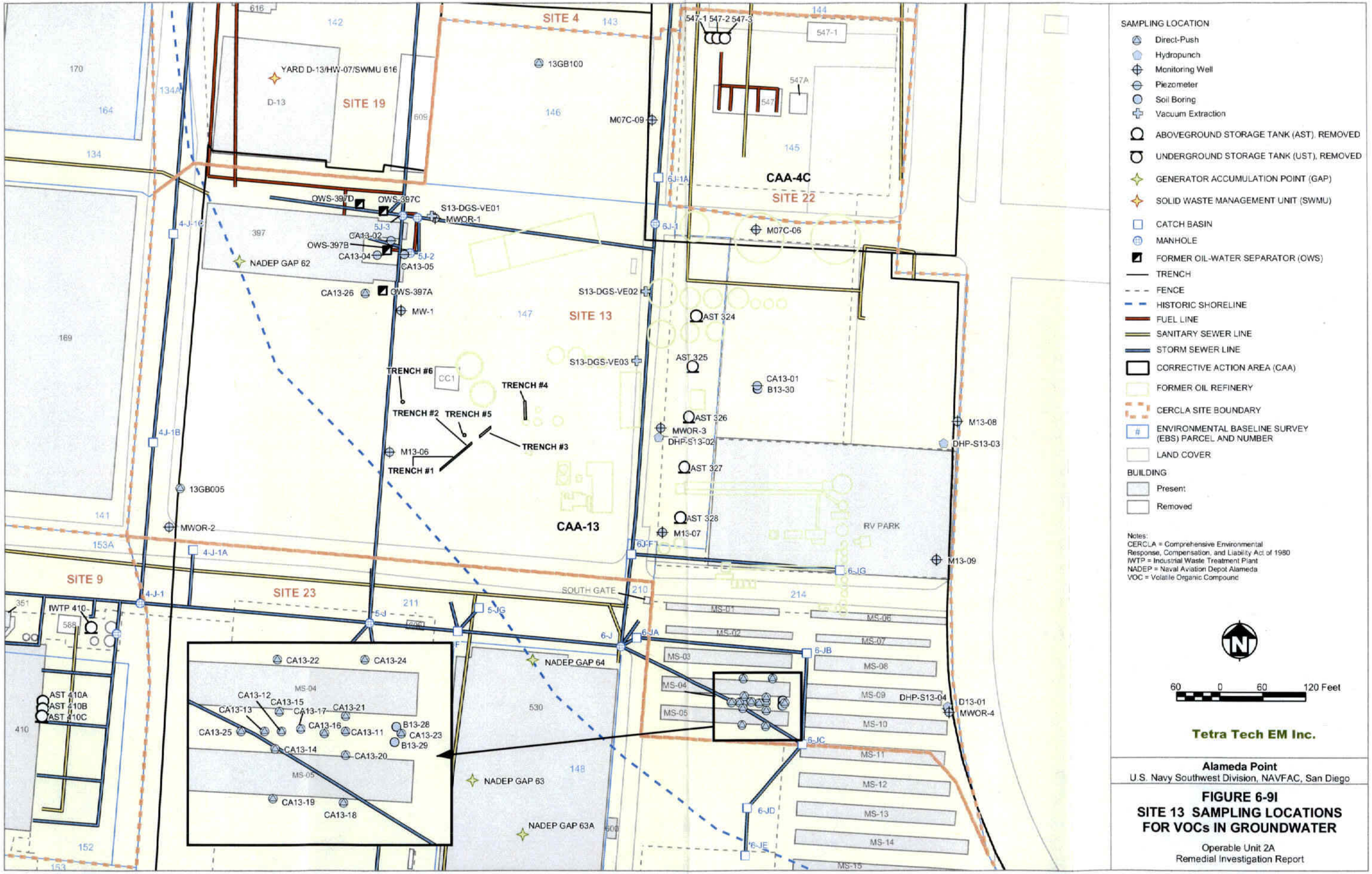
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-9H
SITE 13 SAMPLING LOCATIONS FOR SVOCs IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\almda_sa\DC028\OU2A\RI\mxd\fig06-9H_s13_gw_svoc.mxd TtEMI-SA K. Johnson



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

FIGURE 6-9I
SITE 13 SAMPLING LOCATIONS FOR VOCs IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-9I_s13_gw_voc.mxd TtEMI-SA K. Johnson

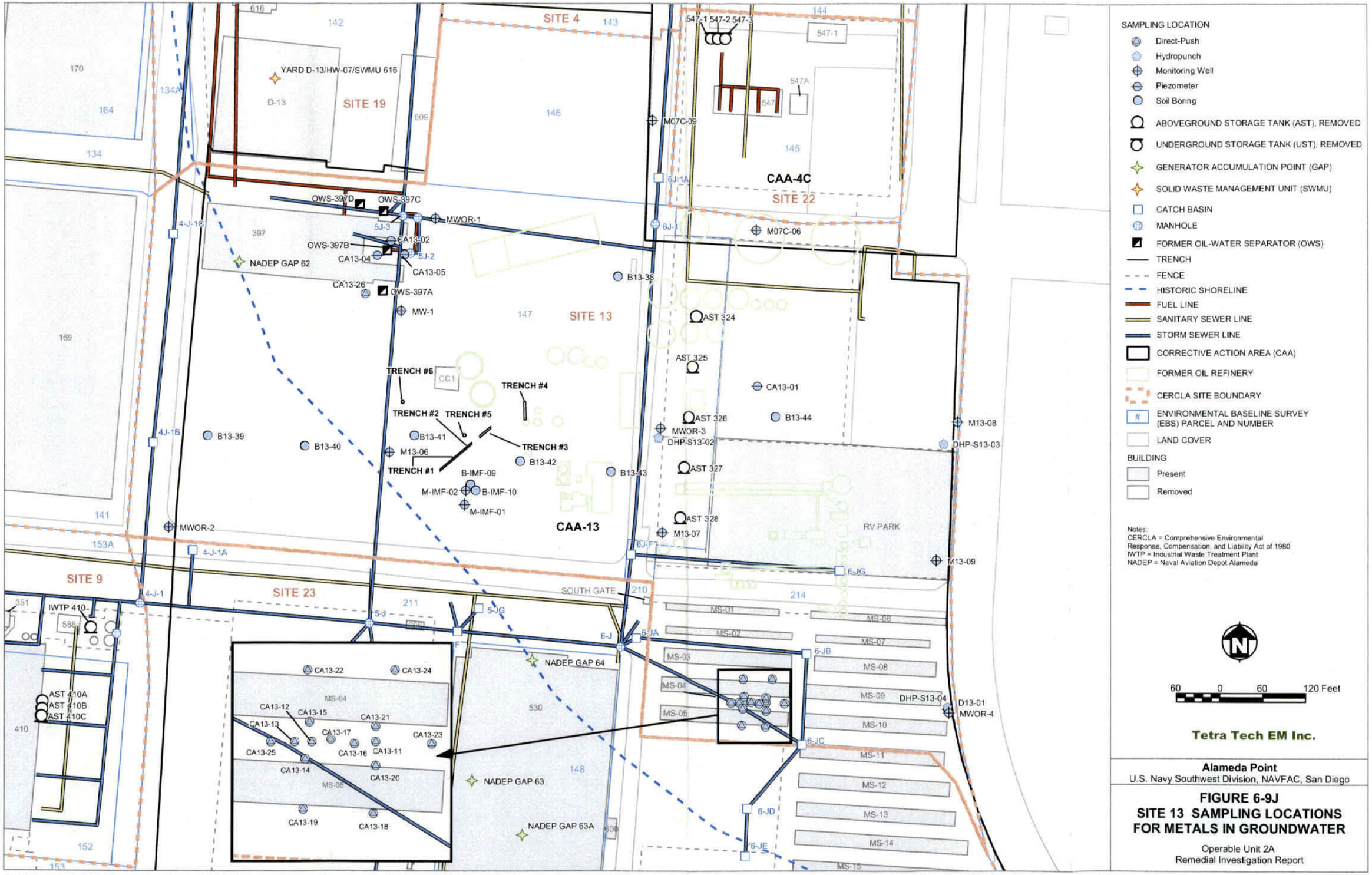

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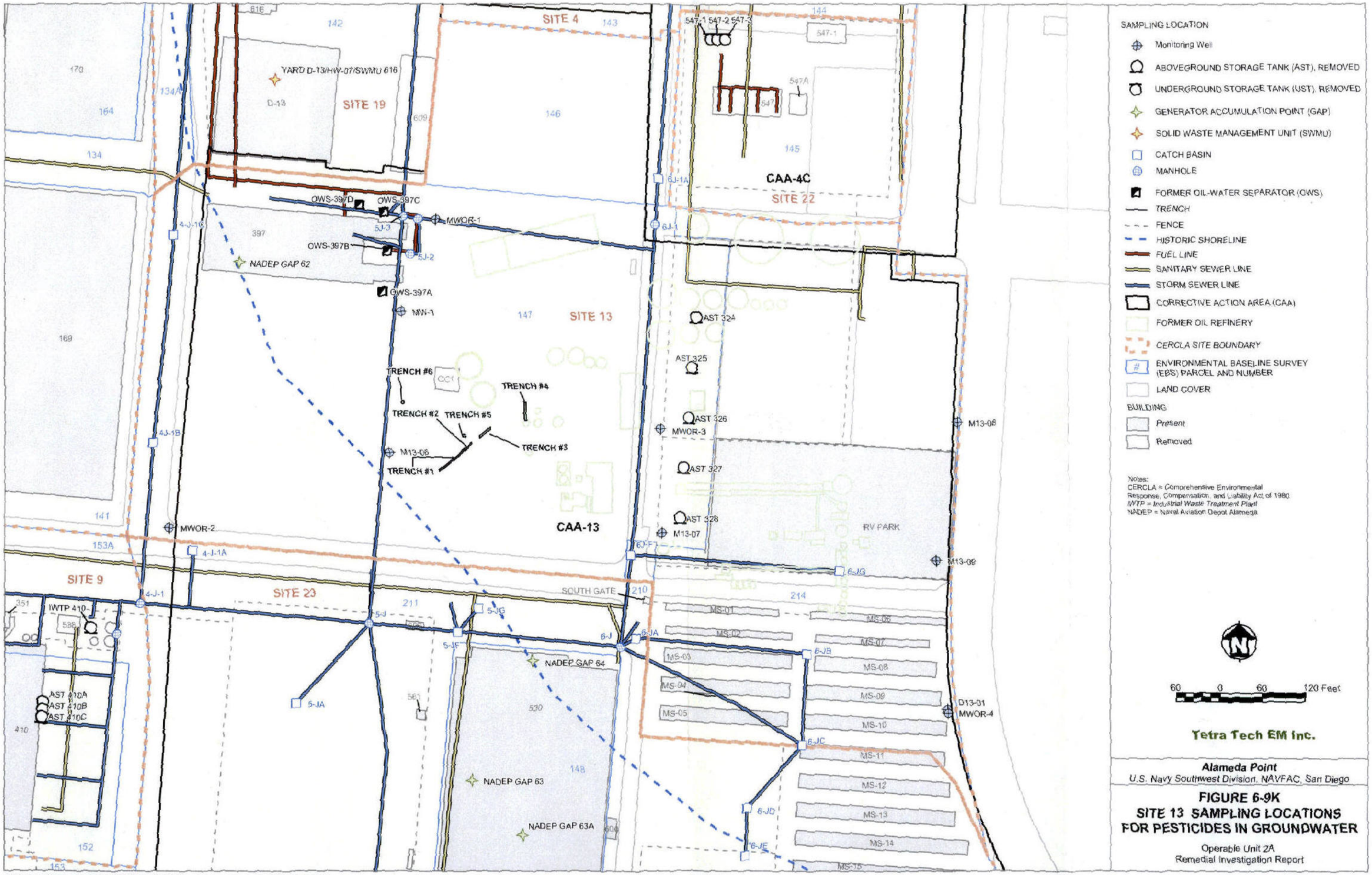
FIGURE 6-9J
SITE 13 SAMPLING LOCATIONS FOR METALS IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-9J_s13_gw_metal.mxd TtEMI-SA K. Johnson


SAMPLING LOCATION
Monitoring Well
ABOVEGROUND STORAGE TANK (AST), REMOVED
UNDERGROUND STORAGE TANK (UST), REMOVED
GENERATOR ACCUMULATION POINT (GAP)
SOLID WASTE MANAGEMENT UNIT (SWMU)
CATCH BASIN
MANHOLE
FORMER OIL-WATER SEPARATOR (OWS)
TRENCH
FENCE
HISTORIC SHORELINE
FUEL LINE
SANITARY SEWER LINE
STORM SEWER LINE
CORRECTIVE ACTION AREA (CAA)
FORMER OIL REFINERY
CERCLA SITE BOUNDARY
ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
LAND COVER
BUILDING
Present
Removed
Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
60 0 60 120 Feet
Tetra Tech EM Inc.
Alameda Point
U.S. Navy Southwest Division, NAVFAC, San Diego
FIGURE 6-9K
SITE 13 SAMPLING LOCATIONS
FOR PESTICIDES IN GROUNDWATER
Operable Unit 2A
Remedial Investigation Report
SITE 4
SITE 19
SITE 22
SITE 13
SITE 9
SITE 23
CAA-4C
CAA-13
YARD D-13/HW-07/SWMU 616
NADEP GAP 62
NADEP GAP 64
NADEP GAP 63
NADEP GAP 63A
OWS-397D
OWS-397C
OWS-397B
OWS-397A
MWOR-1
MWOR-2
MWOR-3
MWOR-4
MW-1
M13-06
M13-07
M13-08
M13-09
D13-01
TRENCH #1
TRENCH #2
TRENCH #3
TRENCH #4
TRENCH #5
TRENCH #6
AST 324
AST 325
AST 326
AST 327
AST 328
AST 410A
AST 410B
AST 410C
IWTP 410
SOUTH GATE
RV PARK
MS-01
MS-02
MS-03
MS-04
MS-05
MS-06
MS-07
MS-08
MS-09
MS-10
MS-11
MS-12
MS-13
MS-14
MS-15
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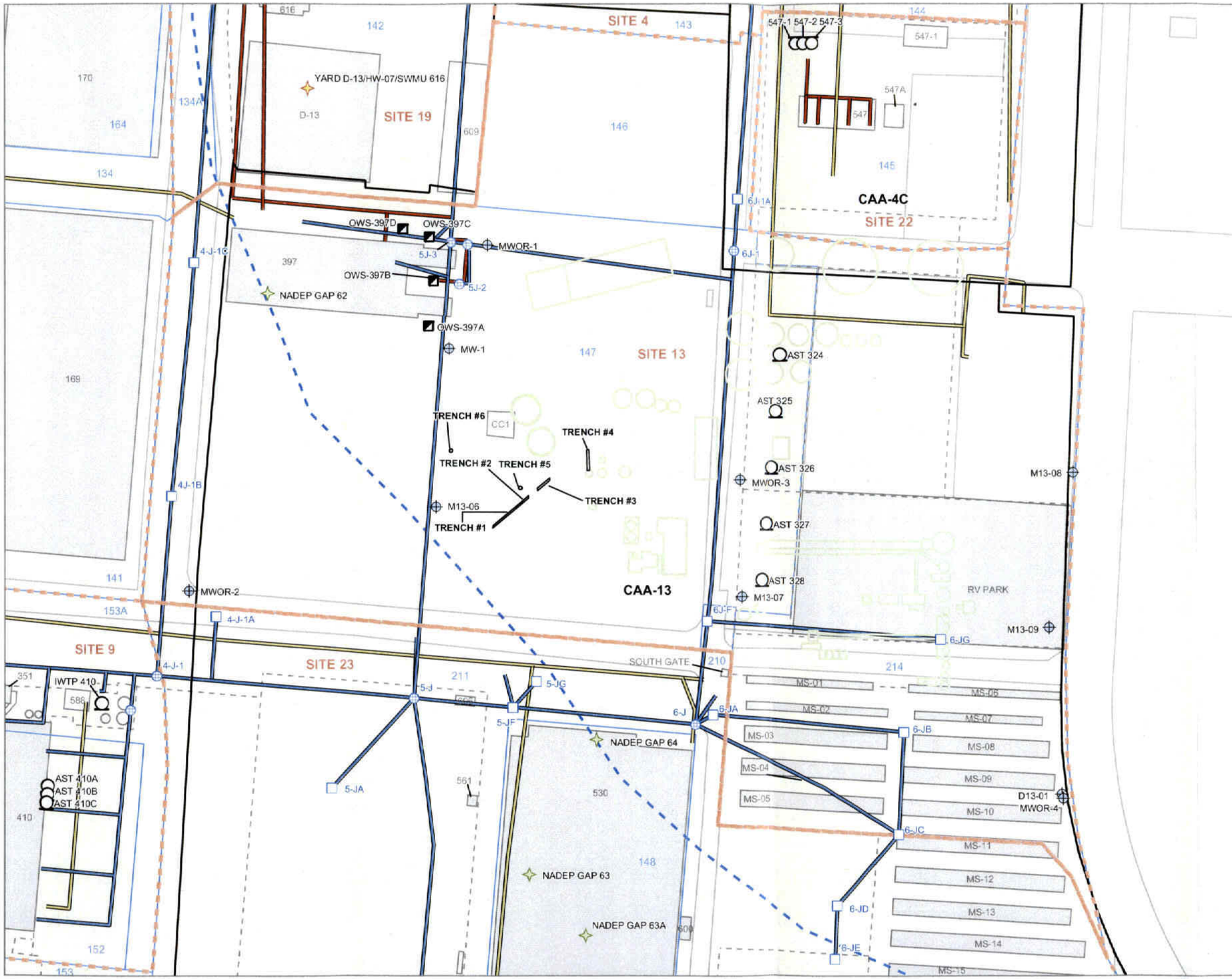

SAMPLING LOCATION

- Monitoring Well
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
PCB = Polychlorinated biphenyl

60 0 60 120 Feet

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

FIGURE 6-9L
SITE 13 SAMPLING LOCATIONS FOR PCBs IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

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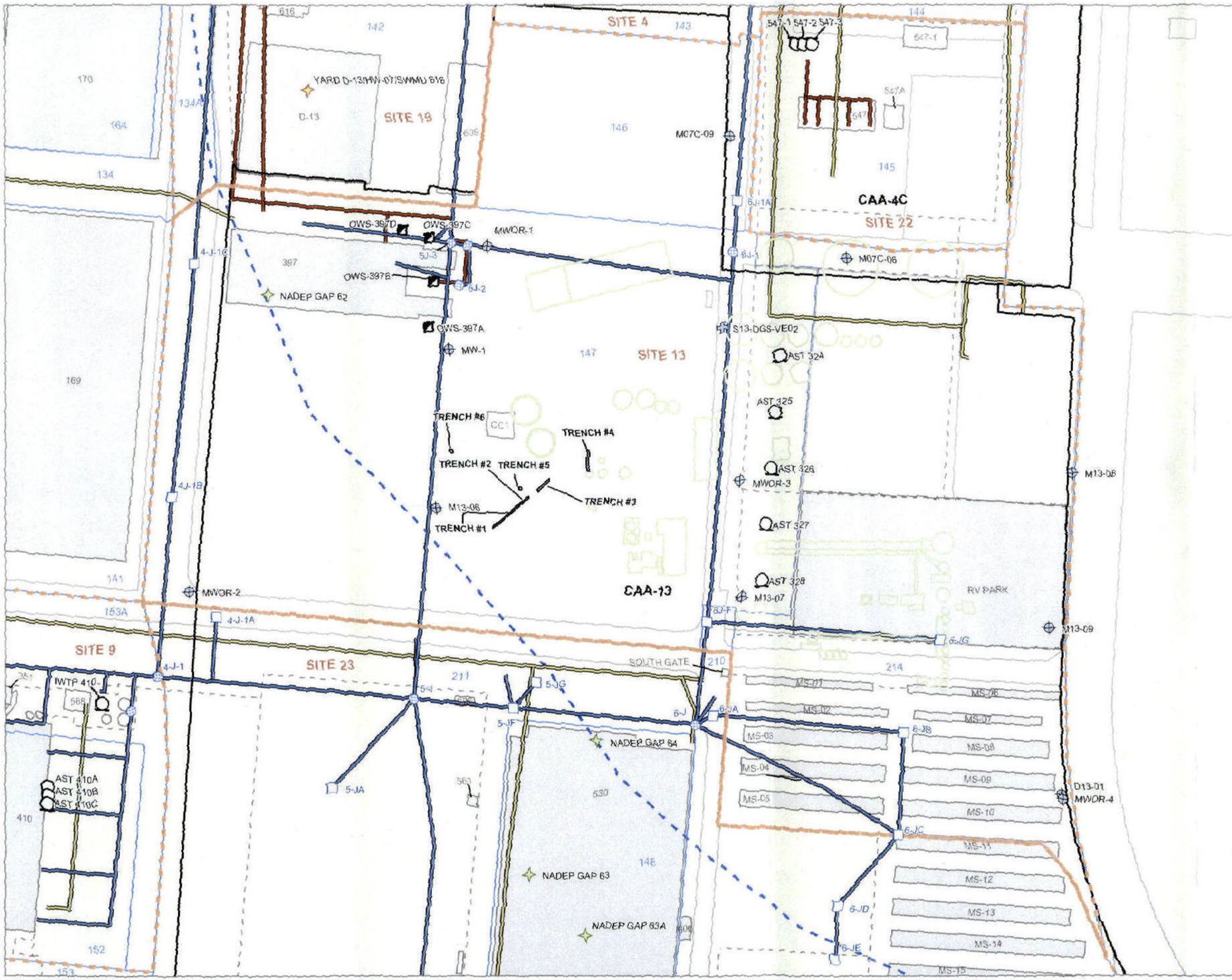

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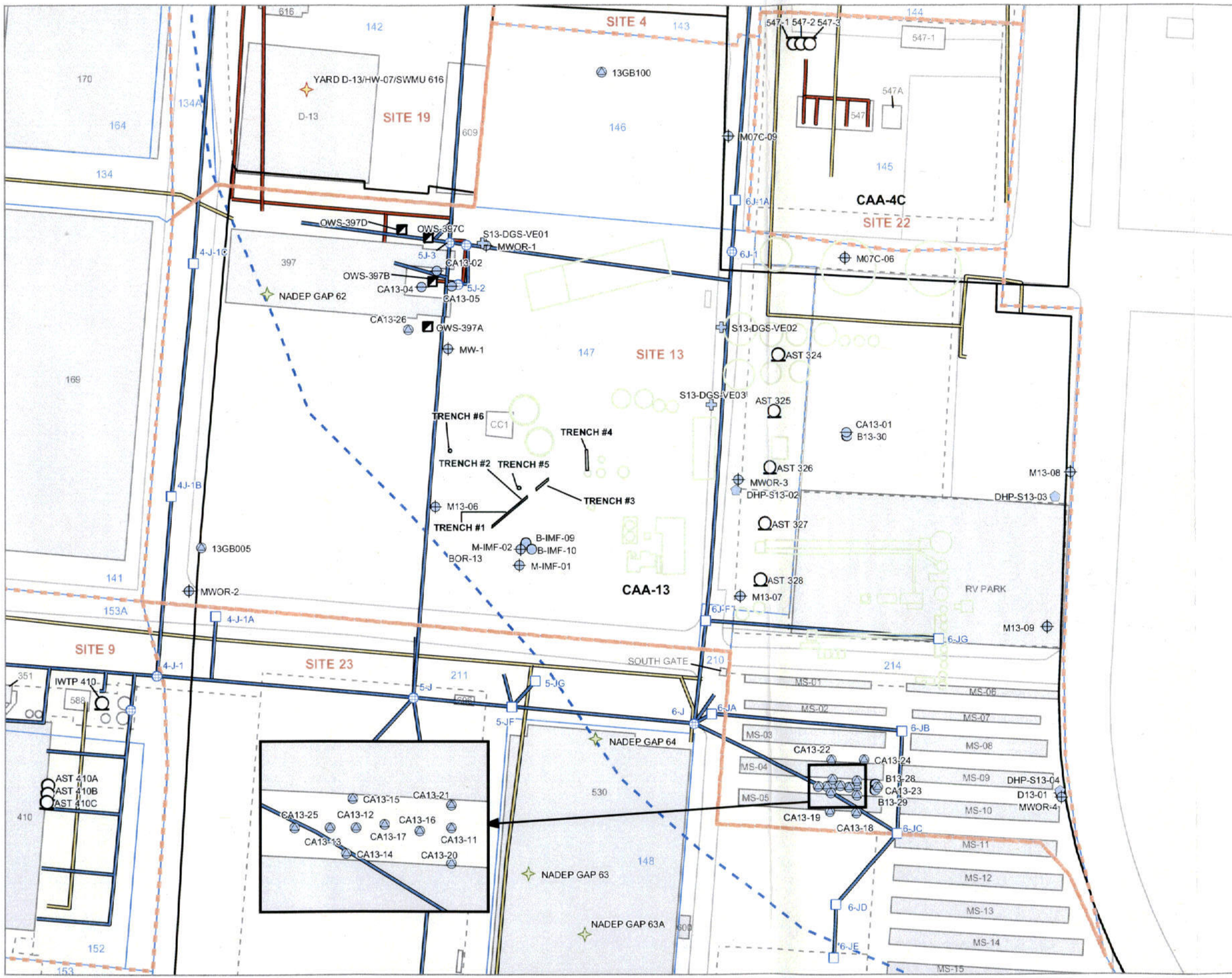

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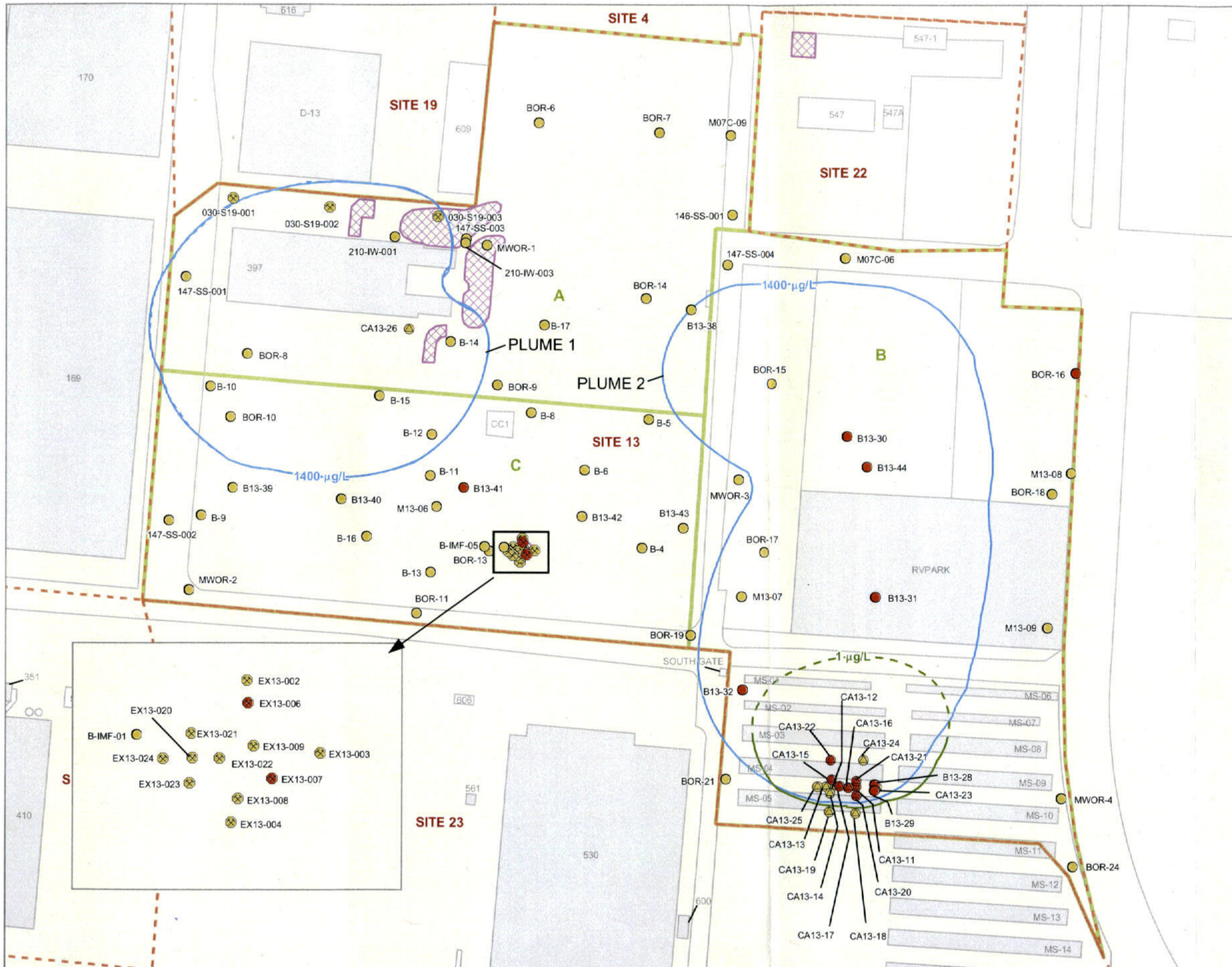
FIGURE 6-9N
SITE 13 SAMPLING LOCATIONS FOR TPH IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-11 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-9N_s13_gw_tph.mxd TtEMI-SA K. Johnson



SOIL SAMPLE LOCATION
(RED INDICATES "EXCEEDS PRC")

- DIRECT-PUSH
- EXCAVATION
- SOIL BORING
- SITE 13 SECTIONS
- CERCLA SITE BOUNDARY
- BENZENE PLUME (DASHED WHERE INFERRED)
- TTPH PLUME (DASHED WHERE INFERRED)
- EXCAVATION

BUILDING

- Present
- Removed
- LAND COVER
- OPEN WATER

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980

Benzene plume delineated based on 1 µg/L
TPH plume delineated based on 1,400 µg/L

60 0 60 120 Feet

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FIGURE 6-10
SITE 13
LOCATION OF TPH IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-01-10 U:\almda_sa\do028\ou2a\ri\mxd\fig06-10_s13_soil_tph_location.mxd TtEMI-SA K. Johnson

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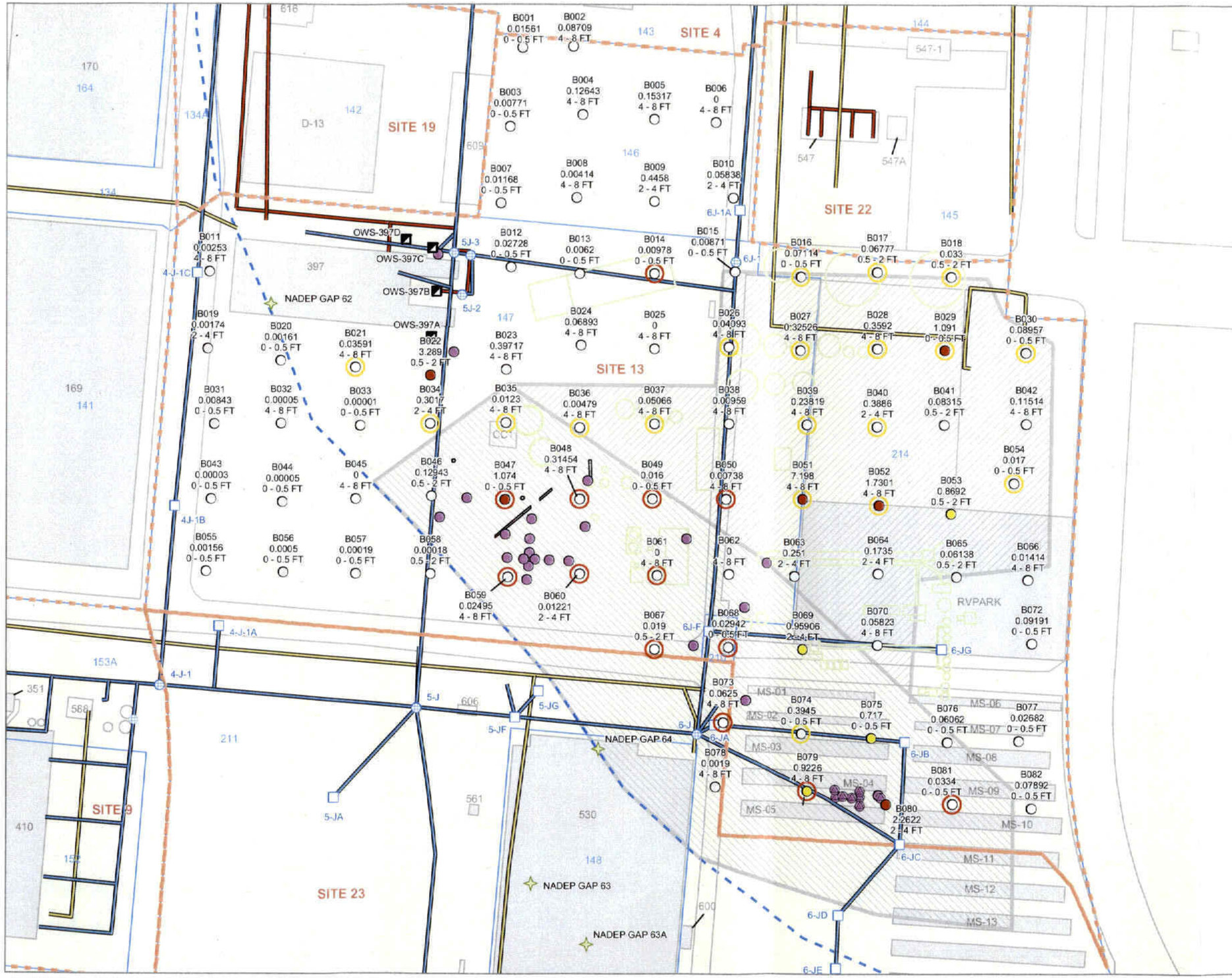
FIGURE 6-11
SITE 13
LOCATION OF TPH IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-10 U:\almda_sa\do028\ou2a\ri\mxd\fig06-11_s13_gw_tph_location.mxd TtEMI-SA K. Johnson



PAH SAMPLE LOCATION

- BaP < 0.6 mg/kg
- 0.6 mg/kg > BaP < 1 mg/kg
- BaP >= 1 mg/kg
- Tarry Refinery Waste
- Black Soil Identified

TRW - HISTORICALLY IDENTIFIED

- Direct-Push
- Soil Boring
- GENERATOR ACCUMULATION POINT (GAP)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- HISTORIC SHORELINE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- AREA IMPACTED BY TRW
- AREA POTENTIALLY IMPACTED BY TRW
- FORMER OIL REFINERY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
BaP = Benzo(a)pyrene equivalent
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
PAH = Polynuclear aromatic hydrocarbon
TRW = Tarry refinery waste

Concentrations presented are in milligrams per kilogram and are the highest concentration detected in the four soil samples taken from a single point.

60 0 60 120 Feet

N

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

FIGURE 6-12
SITE 13 SOIL BaP EQUIVALENT VALUES AND AREA IMPACTED BY TARRY REFINERY WASTE

Operable Unit 2A
Remedial Investigation Report

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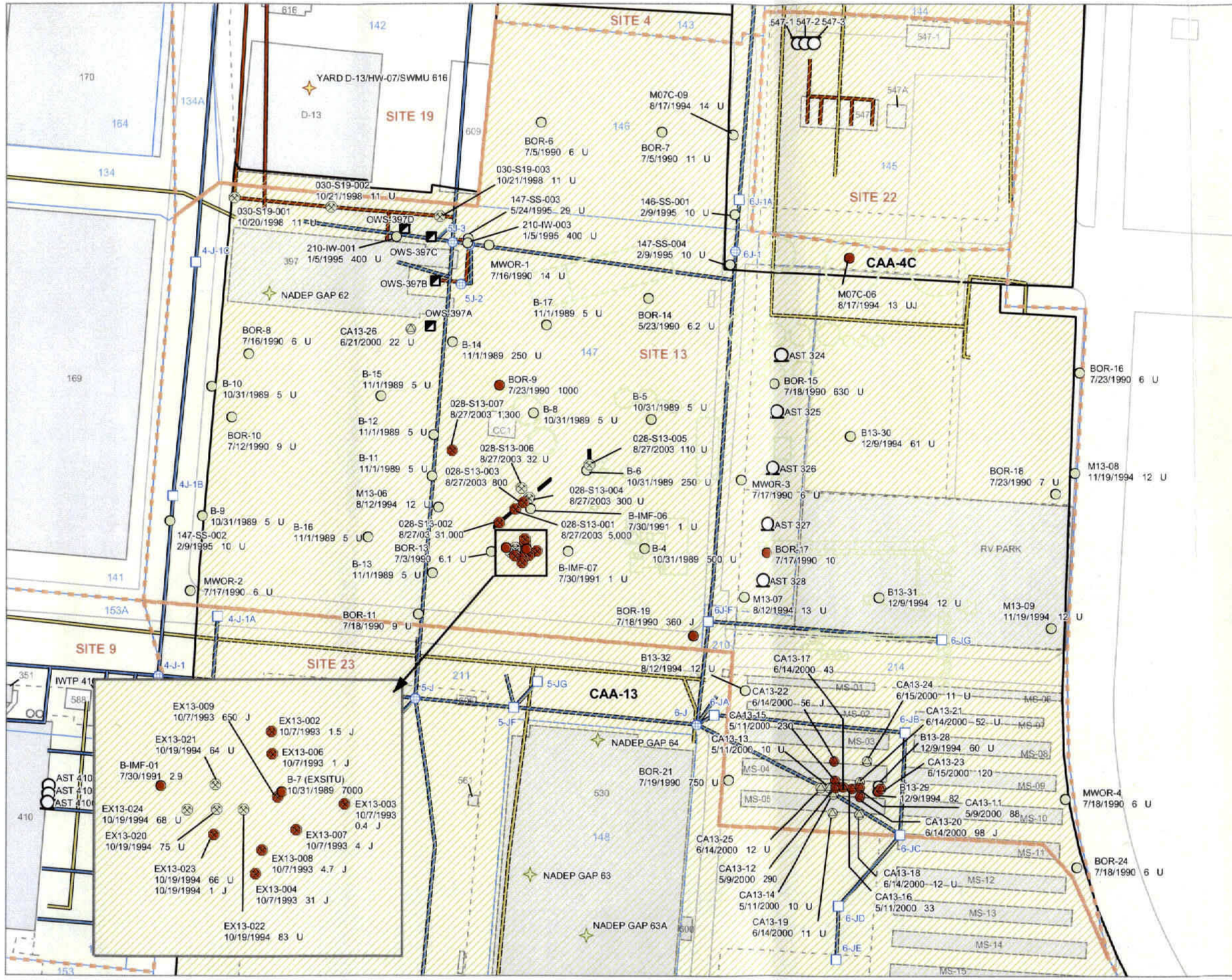

SAMPLE LOCATION
(RED = DETECTABLE CONCENTRATION)

- Direct-Push
- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- TRENCH
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING
- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
J = Estimated
ND = Non-detect
U = Not detected

Concentrations presented are in micrograms per kilogram and are the highest concentration detected in soil samples from a single point.

60 0 60 120 Feet

N

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FIGURE 6-13
SITE 13
BENZENE IN SOIL

Operable Unit 2A
Remedial Investigation Report

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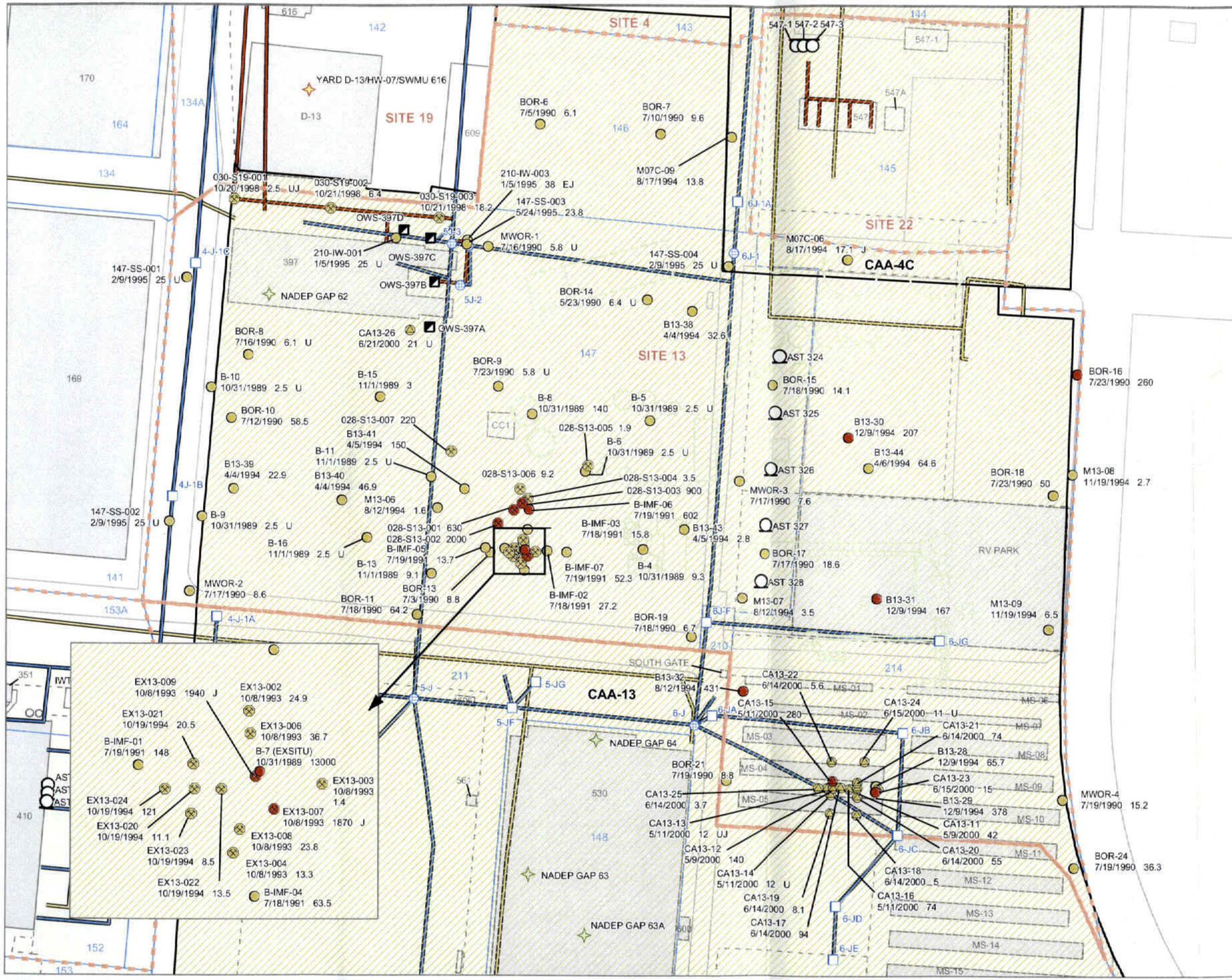

SAMPLE LOCATION
(RED = EXCEEDS CALIFORNIA MODIFIED PRELIMINARY REMEDIATION GOAL FOR LEAD IN RESIDENTIAL SOIL)

- Direct-Push
- Excavation
- Soil Boring
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BAIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- FORMER OIL REFINERY
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING
- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
J = Estimated
ND = Non-detect
U = Not detected

Concentrations presented are in milligrams per kilogram and are the highest concentration detected in soil samples from a single point.

60 0 60 120 Feet

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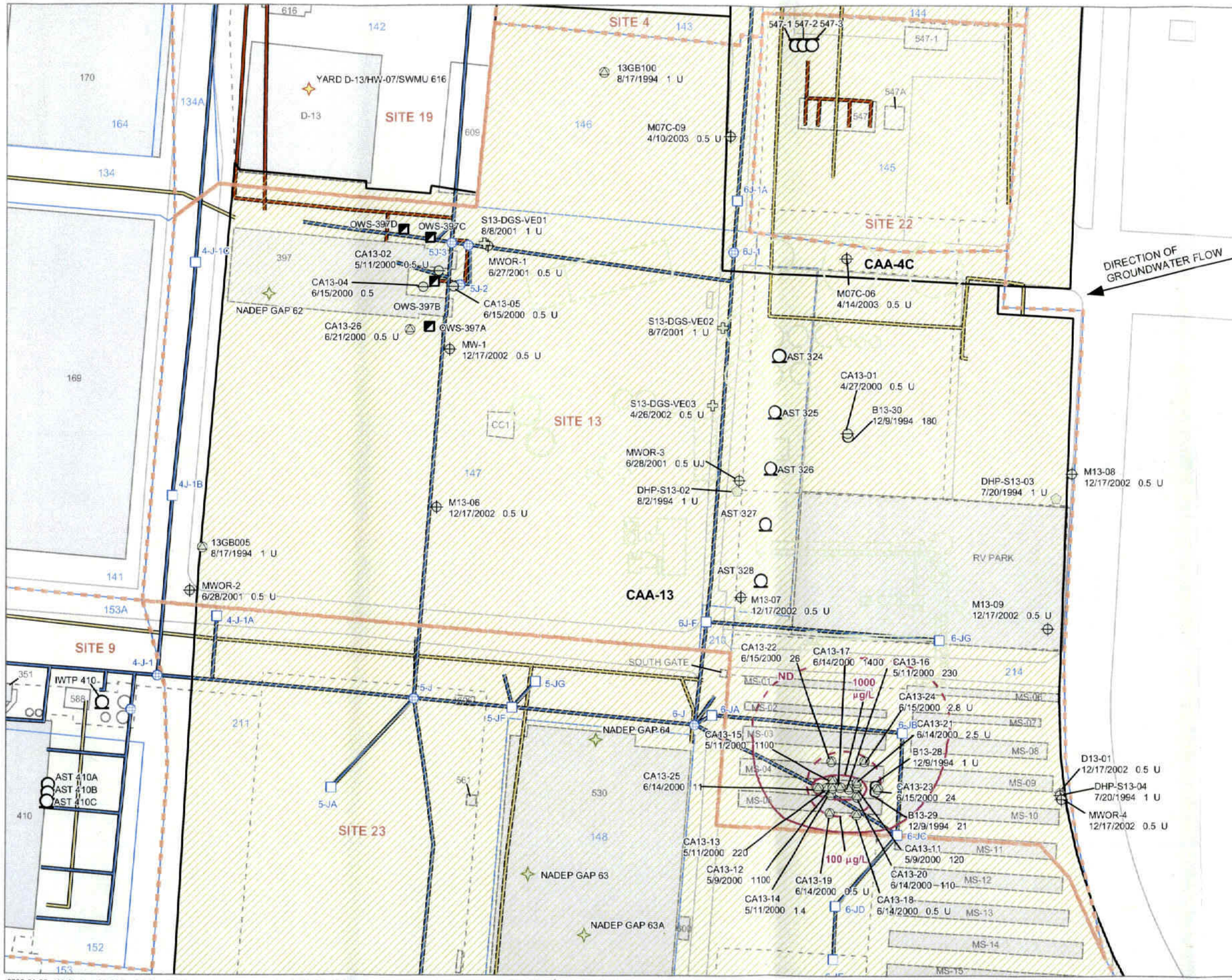
U.S. Navy Southwest Division, NAVFAC, San Diego

FIGURE 6-14
SITE 13
LEAD IN SOIL

Operable Unit 2A
Remedial Investigation Report

2005-02-03 U:\almda_sa\DO028\OU2A\RI\mxd\fig06-14_s13_soil_lead.mxd TtEMI-SA K. Johnson

2005-02-03 U:\almda_sa\do028\ou2a\ri\mxd\fig06-15_s13_gw_tph.mxd TtEMI-SA K. Johnson



SAMPLE LOCATION
- Direct-Push
- Hydropunch
- Soil Boring
- Monitoring Well
- Piezometer
- Vacuum Extraction
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER OIL-WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- BENZENE PLUME (DASHED WHERE INFERRED)
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- FORMER OIL REFINERY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING
- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
J = Estimated
ND = Non-detect
U = Not detected
µg/L = Micrograms per liter

Concentrations presented are in micrograms per liter and are either most recent monitoring well data or highest concentration detected in grab groundwater samples from a single point. Groundwater data used in the RI were collected between 1990 and April 2003. Remedial activity is on-going at this site.

60 0 60 120 Feet

N

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FIGURE 6-16
SITE 13
BENZENE IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

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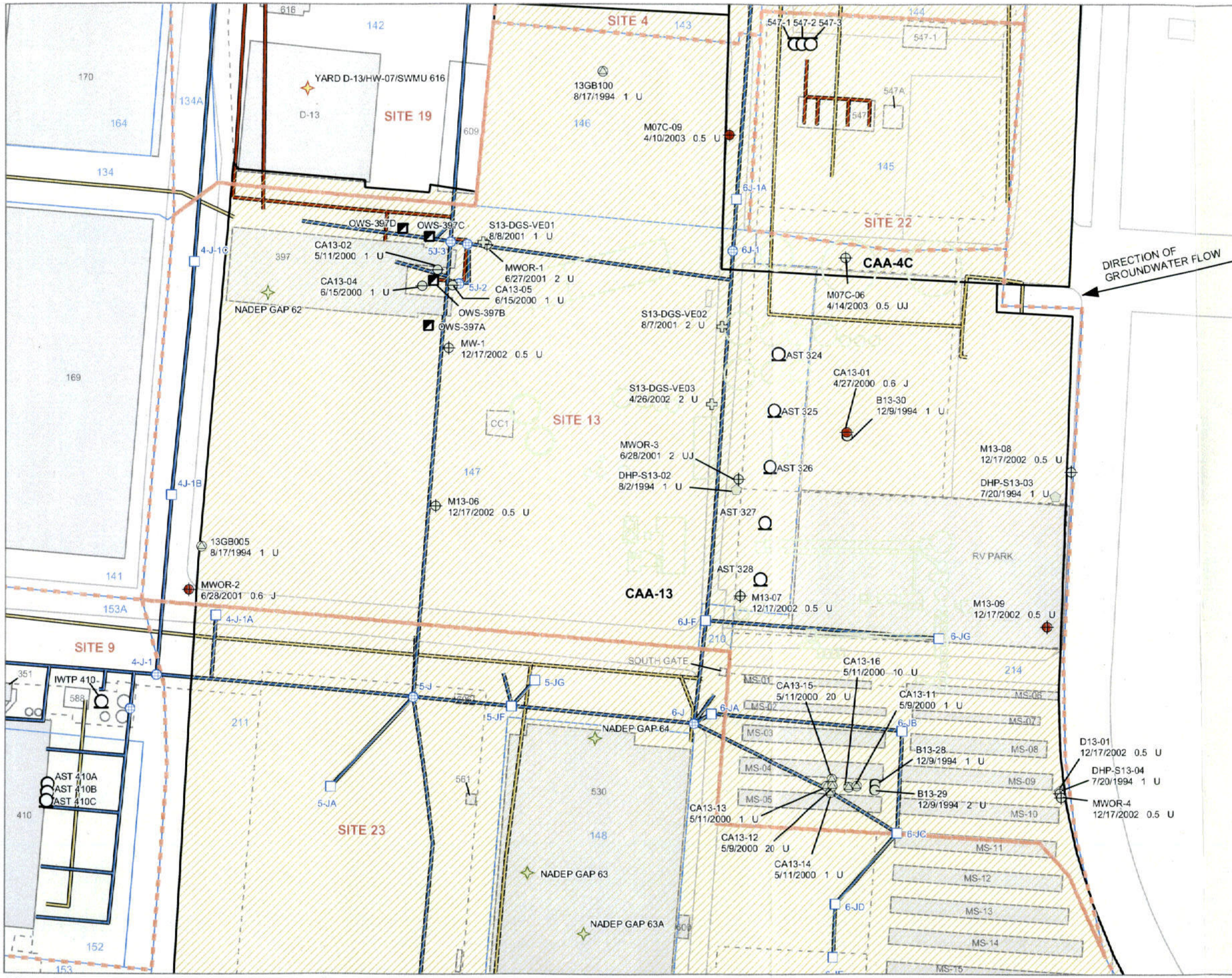

TCE SAMPLE LOCATION
(RED = DETECTABLE CONCENTRATION)

- Direct-Push
- Hydropunch
- Monitoring Well
- Piezometer
- Soil Boring
- Vacuum Extraction
- ABOVEGROUND STORAGE TANK (AST), REMOVED
- UNDERGROUND STORAGE TANK (UST), REMOVED
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- FORMER-OIL WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- FORMER OIL REFINERY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
J = Estimated
U = Not detected
TCE = Trichloroethene
Concentrations presented are in micrograms per liter and are either most recent monitoring well data or highest concentration detected in grab groundwater samples from a single point.
Groundwater data used in the RI were collected between 1990 and April 2003.
Remedial activity is on-going at this site.

60 0 60 120 Feet

Tetra Tech EM Inc.

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

FIGURE 6-17
SITE 13
TRICHLOROETHENE IN GROUNDWATER

Operable Unit 2A
Remedial Investigation Report

2005-01-05 U:\almda_sa\do028\ou2a\ri\mxd\fig06-17_s13_gw_tce.mxd TtEMI-SA K. Johnson

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
CERCLA INVESTIGATIONS																		
Intermediate Maintenance Facility Pre-Removal Action, 1989																		
B-4	18591-1	10/31/1989	5.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-5	18591-3	10/31/1989	5	X	X	--	--	X	--	X	--	X	--	--	X	--	--	--
B-6	18591-4	10/31/1989	5.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-8	18591-6	10/31/1989	4.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-9	18591-7	10/31/1989	5.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-10	18591-8	10/31/1989	4.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-11	18606-1	11/01/1989	3.5	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-12	18607-1	11/01/1989	5	--	X	--	--	--	--	--	X	--	--	--	X	--	--	--
B-13	18606-2	11/01/1989	3	X	X	--	--	X	--	X	X	X	--	--	X	--	--	--
B-14	18607-2	11/01/1989	4	--	X	--	--	--	--	--	X	--	--	--	X	--	--	--
	18607-4	11/01/1989	15	--	X	--	--	--	--	--	X	--	--	--	X	--	--	--
B-15	18607-5	11/01/1989	5.5	--	X	--	--	--	--	--	X	--	--	--	X	--	--	--
	18620-1	11/01/1989	5.5	X	X	--	--	X	--	X	--	X	--	--	--	--	--	--
B-16	18606-3	11/01/1989	5	X	X	--	--	--	--	X	X	X	--	--	X	--	--	--
B-17	18607-6	11/01/1989	5.5	--	X	--	--	--	--	--	X	--	--	--	X	--	--	--
Phases 1 & 2A Investigation, 1991						--												
BOR-6	BOR-6 [0.5-1.0]	07/05/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-6 [2.0-2.5]	07/05/1990	2 - 2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-6 [5.5-6.0]	07/05/1990	5.5 - 6	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-6 [6.0-6.5]	07/05/1990	6 - 6.5	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
	BOR-6 [8.0-8.5]	07/05/1990	8 - 8.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-6 [8.5-9.0]	07/05/1990	8.5 - 9	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
	BOR-6 [11.0-11.5]	07/05/1990	11 - 11.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-6 [11.5-12.0]	07/05/1990	11.5 - 12	--	--	--	X	X	--	X	X	--	--	--	--	--	--	--
	BOR-6 [14.0-14.5]	07/05/1990	14 - 14.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-6 [14.5-15.0]	07/05/1990	14.5 - 15	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
BOR-7	BOR-7 [0.5-1.0]	07/05/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-7 [2.0-2.5]	07/05/1990	2 - 2.5	--	--	--	X	X	--	X	X	--	--	--	--	--	--	--
	BOR-7 [2.5-3.0]	07/05/1990	2.5 - 3	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-7 [3.5-4.0]	07/10/1990	3.5 - 4	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
	BOR-7 [4.0-4.5]	07/05/1990	4 - 4.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-7 [6.0-6.5]	07/05/1990	6 - 6.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-7 [8.5-9.0]	07/05/1990	8.5 - 9	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-7 [9.0-9.5]	07/10/1990	9 - 9.5	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
	BOR-7 [13.5-14.0]	07/05/1990	13.5 - 14	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-7 [14.5-15.0]	07/10/1990	14.5 - 15	--	--	--	X	X	--	--	X	--	--	--	--	--	--	--
BOR-8	BOR-8 [1.0-1.5]	07/16/1990	1 - 1.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-8 [2.5-3.0]	07/16/1990	2.5 - 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-8 [3.0-3.5]	07/16/1990	3 - 3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-8 [3.5-4.0]	07/16/1990	3.5 - 4	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-8 [4.0-4.5]	07/16/1990	4 - 4.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-8 [6.5-7.0]	07/16/1990	6.5 - 7	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-8 [7.0-7.5]	07/16/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-8 [10.5-11.0]	07/16/1990	10.5 - 11	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Phases 1 & 2A Investigation, 1991 (Continued)						--												
BOR-8	BOR-8 [11.0-11.5]	07/16/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
(Continued)	BOR-8 [12.5-13.0]	07/16/1990	12.5 - 13	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-8 [14.0-14.5]	07/16/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
BOR-9	BOR-9 [0.5-1.0]	07/23/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-9 [2.0-2.5]	07/23/1990	2 - 2.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-9 [2.5-3.0]	07/23/1990	2.5 - 3	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-9 [4.0-4.5]	07/23/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-9 [6.5-7.0]	07/23/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-9 [7.0-7.5]	07/23/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-9 [11.0-11.5]	07/23/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-9 [11.5-12.0]	07/23/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-9 [14.0-14.5]	07/23/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-9 [14.5-15.0]	07/23/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-10	BOR-10 [0.5-1.0]	07/12/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-10 [1.0-1.5]	07/12/1990	1 - 1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-10 [3.5-4.0]	07/12/1990	3.5 - 4	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-10 [4.0-4.5]	07/12/1990	4 - 4.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-10 [7.0-7.5]	07/12/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-10 [8.0-8.5]	07/12/1990	8 - 8.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-10 [11.0-11.5]	07/12/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-10 [11.5-12.0]	07/12/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-10 [14.0-14.5]	07/12/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-10 [14.5-15.0]	07/12/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-11	BOR-11 [0.5-1.0]	07/18/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-11 [2.5-3.0]	07/18/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-11 [3.5-4.0]	07/18/1990	3.5 - 4	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-11 [4.0-4.5]	07/18/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-11 [6.5-7.0]	07/18/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-11 [7.0-7.5]	07/18/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-11 [11.0-11.5]	07/18/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-11 [11.5-12.0]	07/18/1990	11.5 -12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-11 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-11 [14.5-15.0]	07/18/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-13	BOR-13 [0.5-1.0]	07/03/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-13 [1.0-1.5]	07/03/1990	1 - 1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-13 [2.0-2.5]	07/03/1990	2 - 2.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-13 [2.5-3.0]	07/03/1990	2.5 - 3	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-13 [6.5-7.0]	07/03/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-13 [7.0-7.5]	07/03/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-13 [11.0-11.5]	07/03/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-13 [11.5-12.0]	07/03/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-13 [14.0-14.5]	07/03/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-13 [14.5-15.0]	07/03/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-14	BOR-14 [0.0-0.5]	05/23/1990	0 - 0.5	X	--	--	X	X	--	X	X	--	--	--	--	--	--	--
	BOR-14 [0.5-1.0]	05/23/1990	0 - 0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [1.0-1.5]	05/23/1990	1 - 1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Phases 1 & 2A Investigation, 1991 (Continued)						--												
BOR-14	BOR-14 [4.0-4.5]	05/23/1990	4 - 4.5	X	--	--	X	X	--	X	X	--	--	--	--	--	--	--
(Continued)	BOR-14 [4.5-5.0]	05/23/1990	4.5 - 5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [6.0-6.5]	05/23/1990	6 - 6.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [8.0-8.5]	05/23/1990	8 - 8.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [8.5-9.0]	05/23/1990	8.5 - 9	X	--	--	X	X	--	X	X	--	--	--	--	--	--	--
	BOR-14 [9.0-9.5]	05/23/1990	9 - 9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [13.0-13.5]	05/23/1990	13 - 13.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-14 [14.0-14.5]	05/23/1990	14 - 14.5	X	--	--	X	X	--	X	X	--	--	--	--	--	--	--
	BOR-14 [14.5-15.0]	05/23/1990	14.5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOR-15	BOR-15 [0.5-1.0]	07/18/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-15 [2.0-2.5]	07/18/1990	2 - 2.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-15 [2.5-3.0]	07/18/1990	2.5 - 3	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-15 [4.0-4.5]	07/18/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-15 [6.5-7.0]	07/18/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-15 [7.0-7.5]	07/18/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-15 [11.0-11.5]	07/18/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-15 [11.5-12.0]	07/18/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-15 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-15 [14.5-15.0]	07/18/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-16	BOR-16 [0.5-1.0]	07/23/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-16 [2.0-2.5]	07/23/1990	2 - 2.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-16 [2.5-3.0]	07/23/1990	2.5 - 3	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-16 [3.5-4.0]	07/23/1990	3.5 - 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-16 [6.5-7.0]	07/23/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-16 [7.0-7.5]	07/23/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-16 [11.0-11.5]	07/23/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-16 [11.5-12.0]	07/23/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-16 [14.0-14.5]	07/23/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-16 [14.5-15.0]	07/23/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-17	BOR-17 [2.0-2.5]	07/17/1990	2 - 2.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-17 [2.5-3.0]	07/17/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-17 [4.0-4.5]	07/17/1990	4 - 4.5	--	--	--	X	X		X	--	--	--	--	--	--	--	--
	BOR-17 [5.0-5.5]	07/17/1990	5 - 5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-17 [7.0-7.5]	07/17/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-17 [8.0-8.5]	07/17/1990	8 - 8.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-17 [10.0-10.5]	07/17/1990	10 - 10.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-17 [11.0-11.5]	07/17/1990	11 - 11.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-17 [11.5-12.0]	07/17/1990	11.5 - 12	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-17 [14.5-15.0]	07/17/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-17R [10.5-11.0]	07/17/1990	10.5 - 11	X	--	--	X	X	--	--	X	--	--	--	--	--	--	--
BOR-18	BOR-18 [0.5-1.0]	07/23/1990	0.5 - 1	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-18 [2.5-3.0]	07/23/1990	2.5 - 3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-18 [3.5-4.0]	07/23/1990	3.5 - 4	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-18 [4.0-4.5]	07/23/1990	4 - 4.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-18 [7.0-7.5]	07/23/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-18 [7.5-8.0]	07/23/1990	7.5 - 8	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Phases 1 & 2A Investigation, 1991 (Continued)						--												
BOR-18	BOR-18 [11.0-11.5]	07/23/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
(Continued)	BOR-18 [11.5-12.0]	07/23/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-18 [14.0-14.5]	07/23/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-18 [14.5-15.0]	07/23/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-19	BOR-19 [0.5-1.0]	07/18/1990	0.5 - 1	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-19 [2.5-3.0]	07/18/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-19 [3.5-4.0]	07/18/1990	3.5 - 4	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-19 [4.0-4.5]	07/18/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-19 [7.0-7.5]	07/18/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-19 [8.0-8.5]	07/18/1990	8 - 8.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-19 [11.0-11.5]	07/18/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-19 [11.5-12.0]	07/18/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-19 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-19 [14.5-15.0]	07/18/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-19R [7.5-8.0]	07/23/1990	7.5 - 8	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--
BOR-21	BOR-21 [0.5-1.0]	07/19/1990	0.5 - 1	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-21 [2.5-3.0]	07/18/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-21 [3.0-3.5]	07/19/1990	3 - 3.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-21 [4.0-4.5]	07/19/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-21 [7.0-7.5]	07/19/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-21 [7.5-8.0]	07/19/1990	7.5 - 8	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-21 [11.5-12.0]	07/19/1990	11.5 - 12	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-21 [12.0-12.5]	07/19/1990	12 - 12.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-21 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-21 [15.0-15.5]	07/19/1990	15 - 15.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
BOR-24	BOR-24 [1.0-1.5]	07/19/1990	1 - 1.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-24 [2.5-3.0]	07/18/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-24 [3.0-3.5]	07/19/1990	3 - 3.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	BOR-24 [4.0-4.5]	07/19/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BOR-24 [7.0-7.5]	07/18/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-24 [7.5-8.0]	07/24/1990	7.5 - 8	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-24 [11.0-11.5]	07/18/1990	11 - 11.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-24 [11.5-12.0]	07/19/1990	11.5 - 12	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	BOR-24 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	BOR-24 [14.5-15.0]	07/24/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
MWOR-1	MWOR-1 [0.5-1.0]	05/23/1990	0.5 - 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [1.0-1.5]	07/16/1990	1 - 1.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [2.5-3.0]	07/16/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-1 [3.0-3.5]	07/16/1990	3 - 3.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	MWOR-1 [4.0-4.5]	07/16/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [4.5-5.0]	08/23/1990	4.5 - 5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [7.0-7.5]	07/16/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-1 [7.5-8.0]	07/16/1990	7.5 - 8	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [9.0-9.5]	08/23/1990	9 - 9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-1 [11.5-12.0]	07/16/1990	11.5 - 12	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-1 [12.0-12.5]	07/16/1990	12 - 12.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--

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				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Phases 1 & 2A Investigation, 1991 (Continued)						--												
MWOR-1	MWOR-1 [14.5-15.0]	07/16/1990	14.5 - 15	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
(Continued)	MWOR-1 [15.0-15.5]	07/16/1990	15 - 15.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
MWOR-2	MWOR-2 [2.0-2.5]	07/16/1990	2 - 2.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-2 [2.5-3.0]	07/17/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-2 [4.0-4.5]	07/17/1990	4 - 4.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	MWOR-2 [5.0-5.5]	07/16/1990	5 - 5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-2 [7.0-7.5]	07/17/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-2 [8.0-8.5]	07/17/1990	8 - 8.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-2 [10.0-10.5]	07/17/1990	10 - 10.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-2 [11.0-11.5]	07/17/1990	11 - 11.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-2 [12.0-12.5]	07/17/1990	12 - 12.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-2 [13.0-13.5]	07/17/1990	13 - 13.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
MWOR-3	MWOR-3 [2.0-2.5]	07/17/1990	2 - 2.5	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-3 [2.5-3.0]	07/17/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-3 [4.0-4.5]	07/17/1990	4 - 4.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	MWOR-3 [5.0-5.5]	07/17/1990	5 - 5.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	MWOR-3 [7.0-7.5]	07/17/1990	7 - 7.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-3 [8.0-8.5]	07/17/1990	8 - 8.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-3 [10.0-10.5]	07/17/1990	10 - 10.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-3 [11.0-11.5]	07/17/1990	11 - 11.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-3 [11.5-12.0]	07/17/1990	11.5 - 12	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-3 [13.0-13.5]	07/17/1990	13 - 13.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
MWOR-4	MWOR-4 [1.5-2.0]	07/19/1990	1.5 - 2	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-4 [2.5-3.0]	07/18/1990	2.5 - 3	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-4 [3.0-3.5]	07/19/1990	3 - 3.5	--	--	--	X	X	--	X	--	--	--	--	--	--	--	--
	MWOR-4 [4.0-4.5]	07/19/1990	4 - 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MWOR-4 [6.5-7.0]	07/18/1990	6.5 - 7	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-4 [7.0-7.5]	07/19/1990	7 - 7.5	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-4 [10.0-10.5]	07/18/1990	10 - 10.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-4 [10.5-11.0]	07/19/1990	10.5 - 11	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
	MWOR-4 [14.0-14.5]	07/18/1990	14 - 14.5	X	X	--	--	--	--	--	X	--	--	--	--	--	--	--
	MWOR-4 [14.5-15.0]	07/19/1990	14.5 - 15	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--
Follow-on Investigation, 1994																		
B13-28	280-S13-001	12/09/1994	1 - 2	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-002	12/09/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-003	12/09/1994	5.5 - 6	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-29	280-S13-004	12/09/1994	1 - 1.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-006	12/09/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-007	12/09/1994	5 - 5.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-30	280-S13-008	12/09/1994	1 - 2	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-009	12/09/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-010	12/09/1994	5 - 5.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-31	280-S13-011	12/09/1994	1 - 2	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-012	12/09/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-013	12/09/1994	4.5 - 5.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
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				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Follow-on Investigation, 1994 (Continued)																		
B13-32	280-S13-015	08/12/1994	0.5 - 1.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-016	08/12/1994	2 - 3	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-017	08/12/1994	4 - 5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-38	ALA13B38-1	04/04/1994	0 - 1.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B38-2	04/04/1994	4.5 - 5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B38-3	04/04/1994	10 - 10.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B38-4	04/04/1994	15.5 - 16	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-39	ALA13B39-1	04/04/1994	3 - 3.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B39-2	04/04/1994	8 - 8.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B39-3	04/04/1994	11.5 - 12	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B39-4	04/04/1994	14 - 14.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B39-5	04/04/1994	16 - 16.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-40	ALA13B40-1	04/04/1994	0.5 - 1	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B40-2	04/04/1994	4.5 - 5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B40-3	04/04/1994	9.5 - 10	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B40-4	04/04/1994	13 - 13.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B40-5	04/04/1994	15.5 - 16	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-41	ALA13B41-1	04/05/1994	0.5 - 1	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-2	04/05/1994	4.5 - 5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-3	04/05/1994	7 - 7.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-4	04/05/1994	8 - 8.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-5	04/05/1994	8.5 - 9	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-6	04/05/1994	9 - 9.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-7	04/05/1994	11 - 11.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B41-8	04/05/1994	15 - 15.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-42	ALA13B42-1	04/05/1994	3 - 3.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-2	04/05/1994	5.5 - 6	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-3	04/05/1994	6.5 - 7	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-4	04/05/1994	7.5 - 8	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-5	04/05/1994	9.5 - 10	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-6	04/05/1994	12.5 - 13	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-7	04/05/1994	15.5 - 16	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B42-8	04/05/1994	19.5 - 20	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-43	ALA13B43-1	04/05/1994	3.5 - 4	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B43-2	04/05/1994	9.5 - 10	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B43-3	04/05/1994	12 - 12.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B43-4	04/05/1994	14.5 - 15	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
B13-44	ALA13B44-1	04/06/1994	2 - 2.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-2	04/06/1994	3.5 - 4	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-3	04/06/1994	6 - 6.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-4	04/06/1994	8.5 - 9	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-5	04/06/1994	11.5 - 12	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-6	04/06/1994	14.5 - 15	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	ALA13B44-6D	04/06/1994	15 - 15.5	X	--	--	--	X	--	X	X	--	--	--	--	--	--	--

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SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Follow-on Investigation, 1994 (Continued)																		
M07C-06	280-S7C-017	08/17/1994	0.5 - 1.5	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S7C-018	08/17/1994	2.5 - 3.5	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S7C-019	08/17/1994	5 - 6	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
M07C-09	280-S7C-095	08/17/1994	0.5 - 1.5	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S7C-096	08/17/1994	2.5 - 3.5	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S7C-097	08/17/1994	5 - 6	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
M13-06	280-S13-018	08/12/1994	0 - 1	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-019	08/12/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-020	08/12/1994	4 - 5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
M13-07	280-S13-021	08/12/1994	0 - 1	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-022	08/12/1994	1.5 - 2.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-023	08/12/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-024	08/12/1994	4.5 - 5.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
M13-08	280-S13-025	11/19/1994	1 - 2	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-026	11/19/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-027	11/19/1994	5 - 6	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
M13-09	280-S13-028	11/19/1994	1 - 2	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-029	11/19/1994	2.5 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S13-030	11/19/1994	5 - 6	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
NPS-S07C-01	280-S7C-027	07/20/1994	--	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
NPS-S19-01	280-S19-014	07/18/1994	--	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	280-S19-015	07/18/1994	--	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
PAH Study, 2003																		
C3S013B001	C0590583	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590584	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590585	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590586	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B002	C0590587	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590588	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590589	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590590	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B003	C0590591	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590593	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590594	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590595	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B004	C0590596	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590597	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590598	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590599	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B005	C0590600	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590601	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590603	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590604	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

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PAH Study, 2003 (Continued)																		
C3S013B006	C0590605	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590606	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590607	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590608	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B007	C0590609	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590610	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590611	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590613	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B008	C0590614	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590615	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590616	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590617	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B009	C0590618	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590619	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590620	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590621	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B010	C0590623	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590624	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590625	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590626	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B011	C0590627	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590628	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590629	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590630	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B012	C0590631	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590633	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590634	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590635	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B013	C0590636	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590637	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590638	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590639	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B014	C0590640	7/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590641	7/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590643	7/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590644	7/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B015	C0590645	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590646	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590647	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590648	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B016	C0590649	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590650	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590651	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590653	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
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				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
PAH Study, 2003 (Continued)																		
C3S013B017	C0590654	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590655	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590656	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590657	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B018	C0590658	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590659	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590660	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590661	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B019	C0590663	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590664	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590665	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590666	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B020	C0590667	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590668	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590669	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590670	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B021	C0590671	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590673	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590674	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590675	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B022	C0590676	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590677	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590678	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B023	C0590680	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590681	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590683	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590684	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B024	C0590685	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590686	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590687	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590688	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B025	C0590689	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590690	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590691	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590693	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B026	C0590694	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590695	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590696	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590697	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B027	C0590698	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590699	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590700	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590701	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B028	C0590703	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590704	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590705	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590706	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
PAH Study, 2003 (Continued)																		
C3S013B029	C0590707	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590708	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590709	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590710	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B030	C0590711	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

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	C0590713	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590714	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590715	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B031	C0590716	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590717	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590718	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590719	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B032	C0590720	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590721	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590723	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590724	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B033	C0590725	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590726	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590727	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590728	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B034	C0590729	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590730	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590731	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590733	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B035	C0590734	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590735	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590736	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590737	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B036	C0590738	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590739	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590740	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590741	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B037	C0590743	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590744	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590745	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590746	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B038	C0590747	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590748	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590749	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590750	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B039	C0590751	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590753	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590754	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590755	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

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SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
PAH Study, 2003 (Continued)																		
C3S013B040	C0590756	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590757	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590758	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590759	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B041	C0590760	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590761	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590763	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590764	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B042	C0590765	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590766	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590767	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590768	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B043	C0590769	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590770	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590771	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590772	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B044	C0590774	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590775	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590776	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590777	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B045	C0590778	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590779	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590780	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590781	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B046	C0590783	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590784	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590785	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590786	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B047	C0590787	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590788	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590789	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590790	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B048	C0590791	7/28/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590793	7/28/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590794	7/28/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590795	7/28/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B049	C0590796	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590797	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590798	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590799	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B050	C0590800	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590801	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590803	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590804	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
PAH Study, 2003 (Continued)																		
C3S013B051	C0590805	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590806	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590807	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590808	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B052	C0590809	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590810	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590811	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590813	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B053	C0590814	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590815	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590816	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590817	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B054	C0590818	7/31/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590819	7/31/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590820	7/31/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590821	7/31/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B055	C0590823	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590824	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590825	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590826	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B056	C0590827	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590828	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590829	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590830	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B057	C0590831	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590833	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590834	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590835	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B058	C0590836	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590837	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590838	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590839	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B059	C0590840	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590841	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590843	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590844	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B060	C0590845	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590846	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590847	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590848	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B061	C0590849	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590850	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590851	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590853	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
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				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
PAH Study, 2003 (Continued)																		
C3S013B062	C0590854	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590855	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590856	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590857	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B063	C0590858	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590859	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590860	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590861	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B064	C0590863	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590864	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590865	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590866	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B065	C0590867	7/31/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590868	7/31/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590869	7/31/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590870	7/31/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B066	C0590871	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590873	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590874	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590875	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B067	C0590876	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590877	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590878	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590879	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B068	C0590880	7/29/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590881	7/29/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590883	7/29/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590884	7/29/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B069	C0590885	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590886	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590887	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590888	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B070	C0590889	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590890	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590891	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590893	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B072	C0590898	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590899	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590900	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590901	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B073	C0590903	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590904	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590905	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590906	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--

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				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
PAH Study, 2003 (Continued)																		
C3S013B074	C0590907	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590908	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590909	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590910	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B075	C0590911	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590913	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590914	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590915	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B076	C0590916	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590917	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590918	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590919	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B077	C0590920	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590921	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590923	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590924	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B078	C0590925	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590926	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590927	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590928	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B079	C0590929	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590930	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590931	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590933	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B080	C0590934	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590935	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590936	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590937	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B081	C0590938	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590939	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590940	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590941	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
C3S013B082	C0590943	7/30/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590944	7/30/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590945	7/30/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
	C0590946	7/30/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
ENVIRONMENTAL BASELINE SURVEY																		
Phase IIA Environmental Baseline Survey																		
146-SS-001	146M-001	02/09/1995	3 - 4	--	--	--	X	--	--	X	--	--	--	--	X	X	X	--
	146M-001M	02/09/1995	3 - 4	--	X	--	--	X	--	--	X	--	--	--	--	--	--	--
147-SS-001	147M-001	02/09/1995	2 - 2.5	X	--	--	X	--	--	X	--	--	--	--	X	X	X	--
	147M-001M	02/09/1995	2 - 2.5	--	X	--	--	X	--	--	X	--	--	--	--	--	--	--
147-SS-002	147M-002	02/09/1995	7 - 8	X		--	X	--	--	X	--	--	--	--	X	X	X	--
	147M-002M	02/09/1995	7 - 8	--	X	--	--	X	--	--	X	--	--	--	--	--	--	--

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Phase IIA Environmental Baseline Survey (Continued)																		
147-SS-003	147M-003	05/24/1995	5.5 - 6.5	X	--	--	X	--	--	X	--	--	--	--	X	X	X	--
	147M-003M	05/24/1995	5.5 - 6.5	--	X	--	--	X	--	--	X	--	--	--	--	--	--	--
147-SS-004	147M-004	02/09/1995	6 - 7	X	--	--	X	--	--	X	--	--	--	--	X	X	X	--
	147M-004M	02/09/1995	6 - 7	--	X	--	--	X	--	--	X	--	--	--	--	--	--	--
147-Z22-001	147-0001	04/06/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X
210-IW-001	210I-001	01/05/1995	3 - 3.5	X	X	--	X	X	--	X	X	--	--	X	X	X	X	--
	210I-001M	01/05/1995	3 - 3.5	--	X	--	--	X	--	--	--	--	--	--	--	--	--	--
210-IW-003	210I-003	01/05/1995	5 - 5.5	X	X	--	X	X	--	X	X	--	--	X	X	X	X	--
	210I-003M	01/05/1995	5 - 5.5	--	X	--	--	X	--	--	--	--	--	--	--	--	--	--
TOTAL PETROLEUM HYDROCARBON INVESTIGATIONS																		
Fuel Line and Underground Storage Tank Investigations																		
CA13-11	030-CAP-205	05/09/2000	3 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-206	05/09/2000	7 - 8	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-12	030-CAP-207	05/09/2000	3 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-378	05/09/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-208	05/09/2000	4.5 - 5.3	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-13	030-CAP-209	05/11/2000	2.8 - 3.8	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-210	05/11/2000	4.5 - 5.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-14	030-CAP-211	05/11/2000	3 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-212	05/11/2000	7.5 - 8	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-15	030-CAP-214	05/11/2000	3 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-213	05/11/2000	4 - 5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-16	030-CAP-215	05/11/2000	1.5 - 2.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-216	05/11/2000	4 - 5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-17	030-CAP-217	06/14/2000	3 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-218	06/14/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-18	030-CAP-219	06/14/2000	3 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-220	06/14/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-19	030-CAP-221	06/14/2000	3 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-222	06/14/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-20	030-CAP-223	06/14/2000	3 - 3.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-224	06/14/2000	6.5 - 7	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-21	030-CAP-411	06/14/2000	3.5 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-412	06/14/2000	5.5 - 6	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-22	030-CAP-414	06/14/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-415	06/14/2000	7.5 - 8	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-23	030-CAP-417	06/15/2000	3.5 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-418	06/15/2000	5 - 6.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-24	030-CAP-420	06/15/2000	2.5 - 3	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-421	06/15/2000	4 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-25	030-CAP-424	06/14/2000	3.5 - 4	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-425	06/14/2000	4.5 - 5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
CA13-26	030-CAP-427	06/21/2000	3.5 - 4.5	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--
	030-CAP-428	06/21/2000	6.5 - 7	--	X	--	--	X	--	X	X	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY
Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
REMOVAL ACTIONS																		
Intermediate Maintenance Facility Removal Action																		
B-IMF-01	IMF-01-00	07/19/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-01-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-01-02	07/19/1991	2 - 2.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-01-04	07/19/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-01-04	12/05/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-01-06	07/19/1991	6 - 6.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-01-08	07/19/1991	8 - 8.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	IMF-01-08	07/30/1991	8 - 8.5	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--
	IMF-01-10	07/19/1991	9.5 - 10	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
B-IMF-02	IMF-02-00	07/18/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-02-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-02-02	07/18/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-02-04	07/18/1991	4 - 4.5	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--
	IMF-02-04	07/31/1991	4 - 4.5	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	IMF-02-06	07/18/1991	6 - 6.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-02-08	07/18/1991	8 - 8.3	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
B-IMF-03	IMF-03-00	07/18/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-03-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-03-02	07/18/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-03-04	07/18/1991	4 - 4.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	IMF-03-06	07/18/1991	6 - 6.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-03-08	07/18/1991	8 - 8.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-03-10	07/18/1991	10 - 10.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
B-IMF-04	IMF-04-00	07/18/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-04-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-04-02	07/18/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-04-04	07/18/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-04-04	12/05/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-04-06	07/18/1991	6 - 6.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	IMF-04-08	07/18/1991	8 - 8.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-04-08	08/25/1991	8 - 8.5	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--
	IMF-04-10	07/18/1991	9.5 - 10	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
B-IMF-05	IMF-05-00	07/19/1991	0 - 0.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	IMF-05-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-05-02	07/19/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-05-04	07/19/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-05-06	07/19/1991	6 - 6.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-05-08	07/19/1991	8 - 8.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-05-10	07/19/1991	10 - 10.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
B-IMF-06	IMF-06-00	07/19/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-06-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-06-02	07/19/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-06-04	07/19/1991	4 - 4.5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
	IMF-06-04	12/05/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--

TABLE 6-1: SITE 13 SOIL SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

				ANALYSES PERFORMED														
SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	SVOC	VOC	PAH	Pesticides/ PCB	Total Metals	TCLP Metals	General Chemistry	TPH	WET Metals	BTEX	Herbicides	Oil & Grease	Tin	Organic Lead	Dioxins
Intermediate Maintenance Facility Removal Action																		
	IMF-06-04	07/31/1991	4 - 4.5	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--
	IMF-06-06	07/19/1991	6 - 6.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-06-08	07/19/1991	8 - 8.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-06-10	07/19/1991	10 - 10.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-06-10	07/30/1991	10 - 10.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
B-IMF-07	B7-04	12/05/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-00	07/19/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-02	07/19/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-04	07/19/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-06	07/19/1991	6 - 6.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-07-08	07/19/1991	8 - 8.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-07-10	07/19/1991	10 - 10.5	--	--	--	--	X	--	X	--	--	--	--	--	--	--	--
	IMF-07-10	07/30/1991	10 - 10.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
B-IMF-08	IMF-08-00	07/19/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-00	12/05/1991	0 - 0.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-02	07/19/1991	2 - 2.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-04	07/19/1991	4 - 4.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-06	07/19/1991	6 - 6.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-08	07/19/1991	8 - 8.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
	IMF-08-10	07/19/1991	10 - 10.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
EX13-002	137-S13-002	10/07/1993	5	--	--	--	--	X	--	--	X	--	X	--	--	--	--	--
EX13-003	137-S13-003	10/07/1993	5	--	--	--	--	X	--	--	X	--	X	--	--	--	--	--
EX13-004	137-S13-004	10/07/1993	5	--	--	--	--	X	--	--	X	--	X	--	--	--	--	--
EX13-006	137-S13-006	10/07/1993	4	--	--	--	--	X	--	--	X	--	X	--	--	--	--	--
EX13-007	137-S13-007	10/07/1993	4	X	X	--	--	X	X	--	X	--	X	--	--	--	--	--
	137-S13-010	10/07/1993	4	X	X	--	--	X	X	--	X	--	X	--	--	--	--	--
EX13-008	137-S13-008	10/07/1993	4	--	--	--	--	X	--	--	X	--	X	--	--	--	--	--
EX13-009	137-S13-009	10/07/1993	7	X	X	--	--	X	X	--	X	--	X	--	--	--	--	--
EX13-020	137-S13-020	10/19/1994	7	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
EX13-021	137-S13-021	10/19/1994	5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
EX13-022	137-S13-022	10/19/1994	5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
EX13-023	137-S13-023	10/19/1994	5	X	X	--	--	X	--	X	X	--	--	--	--	--	--	--
EX13-024	137-S13-024	10/19/1994	5	--	--	--	--	X	--	X	X	--	--	--	--	--	--	--
Basewide Fuel Line Removal Action Confirmation Sampling, 1998																		
030-S19-001	030-S19-001	10/20/1998	0 - 4.5	X	X	--	X	X	--	X	X	--	--	--	--	--	--	--
030-S19-002	030-S19-002	10/21/1998	0 - 3	X	X	--	X	X	--	X	X	--	--	--	--	--	--	--
030-S19-003	030-S19-003	10/21/1998	0 - 4	X	X	--	X	X	--	X	X	--	--	--	--	--	--	--

Notes:

--	These analyses were not performed.
BTEX	Benzene, toluene, ethylbenzene, and xylene
ft bgs	Feet below ground surface
General chemistry	Percent moisture, flashpoint, cations, anions, TKN, TOC, reactivity, and/or pH
PAH	Polynuclear aromatic hydrocarbons
PCB	Polychlorinated biphenyl
SVOC	Semivolatile organic compound
TCLP	Toxicity characteristics leaching procedure
TKN	Total Kjelkahl nitrogen
TOC	Total organic carbon
TPH	Total petroleum hydrocarbon
VOC	Volatile organic compound
WET	Waste extraction test
X	These analyses were performed.

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
CERCLA INVESTIGATIONS												
Phases 1 & 2A Investigation, 1991												
MW-1	MW-1 [10/15/90]	10/15/1990		X	X	X	--	X	X	--	--	--
MWOR-1	MWOR-1 [08/24/90]	08/24/1990		X	X	--	--	X	X	--	--	--
MWOR-2	MWOR-2 [08/27/90]	08/27/1990		X	X	--	--	X	X	--	--	--
MWOR-3	MWOR-3 [08/27/90]	08/27/1990		X	X	--	--	X	X	--	X	--
MWOR-4	MWOR-4 [08/28/90]	08/27/1990		X	X	X	--	X	X	--	X	--
Follow-on Investigation, 1994												
13GB005	GPW13-500	08/17/1994	5 - 6	--	X	--	--	--	--	--	X	--
13GB100	GPW13-100	08/17/1994	5 - 6	--	X	--	--	--	--	--	X	--
B13-28	280-S13-106	12/09/1994	6 - 6.5	--	X	--	--	--	--	--	X	--
B13-29	280-S13-146	12/09/1994	5.5 - 6	--	X	--	--	--	--	--	X	--
B13-30	280-S13-108	12/09/1994	5.5 - 6	--	X	--	--	--	--	--	X	--
B13-38	ALA13B38-W	04/04/1994	16	--	--	X	--	--	X	--	--	--
B13-39	ALA13B39-W	04/04/1994	17.5	--	--	X	--	--	X	--	--	--
B13-40	ALA13B40-W	04/04/1994	17.5	--	--	X	--	--	X	--	--	--
B13-41	ALA13B41-W	04/05/1994	16	--	--	X	--	--	X	--	--	--
B13-42	ALA13B42-W	04/05/1994	21	--	--	X	--	--	X	--	--	--
B13-43	ALA13B43-W	04/05/1994	16	--	--	X	--	--	X	--	--	--
B13-44	ALA13B44-W	04/06/1994	15.5	--	--	X	--	--	X	--	--	--
D13-01	280-S13-100	12/16/1994		X	X	X	--	X	X	--	X	--
	280-S13-111	02/23/1995		X	X	X	--	X	X	--	--	--
	280-S13-112	06/26/1995		X	X	X	--	X	X	--	--	--
	280-S13-113	09/19/1995		X	X	X	--	X	X	--	--	--
DHP-S13-02	280-S13-073	08/02/1994	17.9	X	X	X	--	--	X	--	X	--
DHP-S13-03	280-S13-074	07/20/1994	22	X	X	X	--	--	X	--	X	--
DHP-S13-04	280-S13-075	07/20/1994	30	X	X	X	--	--	X	--	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
Follow-on Investigation, 1994 (Continued)												
M07C-06	280-S7C-049	11/10/1994		X	X	X	--	--	X	--	X	--
	280-S7C-050	02/17/1995		--	X	X	--	--	X	--	X	--
	280-S7C-051	06/20/1995		X	X	X	--	--	X	--	X	--
	280-S7C-053	08/31/1995		--	X	X	--	--	X	--	X	--
M07C-09	280-S7C-062	11/10/1994		X	X	X	--	--	X	--	X	--
	280-S7C-063	02/20/1995		--	X	X	--	--	X	--	X	--
	280-S7C-064	06/21/1995		X	X	X	--	--	X	--	X	--
	280-S7C-065	08/30/1995		--	X	X	--	--	X	--	X	--
M13-06	280-S13-054	10/21/1994		X	X	X	--	X	X	--	X	--
	280-S13-055	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-057	06/27/1995		X	X	X	--	X	X	--	X	--
	280-S13-058	08/11/1995		X	X	X	--	X	X	--	X	--
M13-07	280-S13-059	11/01/1994		X	X	X	--	X	X	--	X	--
	280-S13-060	02/28/1995		X	X	X	--	X	X	--	X	--
	280-S13-061	06/28/1995		X	X	X	--	X	X	--	X	--
	280-S13-062	08/16/1995		X	X	X	--	X	X	--	X	--
M13-08	280-S13-063	12/14/1994		X	X	X	--	X	X	--	X	--
	280-S13-065	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-066	06/28/1995		X	X	X	--	X	X	--	X	--
	280-S13-067	08/16/1995		X	X	X	--	X	X	--	X	--
M13-09	280-S13-068	12/09/1994		X	X	X	--	X	X	--	X	--
	280-S13-069	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-070	06/28/1995		X	X	X	--	X	X	--	X	--
	280-S13-071	08/18/1995		X	X	X	--	X	X	--	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
Follow-on Investigation, 1994 (Continued)												
MW-1	280-S13-099	12/06/1994		X	X	X	--	X	X	--	X	--
	280-S13-149	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-150	06/27/1995		X	X	X	--	X	X	--	X	--
	280-S13-151	08/17/1995		X	X	X	--	X	X	--	X	--
MWOR-1	280-S13-032	10/20/1994		X	X	X	--	X	X	--	X	--
	280-S13-033	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-034	06/27/1995		X	X	X	--	X	X	--	X	--
	280-S13-035	08/09/1995		X	X	X	--	X	X	--	X	--
MWOR-2	280-S13-037	10/20/1994		X	X	X	--	X	X	--	X	--
	280-S13-038	02/24/1995		X	X	X	--	X	X	--	X	--
	280-S13-039	06/27/1995		X	X	X	--	X	X	--	X	--
	280-S13-040	08/09/1995		X	X	X	--	X	X	--	X	--
MWOR-3	280-S13-041	10/20/1994		X	X	X	--	X	X	--	X	--
	280-S13-042	02/28/1995		X	X	X	--	X	X	--	X	--
	280-S13-043	06/27/1995		X	X	X	--	X	X	--	X	--
	280-S13-045	08/10/1995		X	X	X	--	X	X	--	X	--
MWOR-4	280-S13-046	10/20/1994		X	X	X	--	X	X	--	X	--
	280-S13-047	02/23/1995		X	X	X	--	X	X	--	X	--
	280-S13-048	06/26/1995		X	X	X	--	X	X	--	X	--
	280-S13-049	08/17/1995		X	X	X	--	X	X	--	X	--
Follow-on Investigation, 1998												
M13-06	108-S13-001	11/06/1997		X	X	X	--	--	X	--	X	--
	108-S13-005	02/10/1998		X	X	X	--	--	X	--	X	--
	108-S13-009	05/06/1998		X	X	X	--	--	X	--	X	--
	108-S13-013	08/07/1998		X	X	--	X	--	X	--	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
Follow-on Investigation, 1998 (Continued)												
M13-09	108-S13-002	11/06/1997		--	X	X	--	--	X	--	X	--
	108-S13-006	02/10/1998		--	X	X	--	--	X	--	X	--
	108-S13-010	05/12/1998		--	X	X	--	--	X	--	X	--
	108-S13-014	08/07/1998		--	X	--	X	--	X	--	X	--
Supplemental Remedial Investigation Data Gap Sampling, 2001												
D13-01	385-S13-011	06/29/2001		X	X	--	--	--	--	--	X	X
M07C-06	385-S22-006	07/05/2001		X	X	--	--	--	--	--	X	X
M07C-09	385-S22-009	07/05/2001		X	X	--	--	--	--	--	X	X
M13-06	385-S13-006	06/27/2001		X	X	--	--	--	--	--	X	X
M13-07	385-S13-007	06/27/2001		--	X	--	--	--	--	--	X	--
	385-S13-007A	06/28/2001		X	--	--	--	--	--	--	X	X
M13-08	385-S13-008	06/28/2001		X	X	--	--	--	--	--	X	X
M13-09	385-S13-009	06/28/2001		X	X	--	--	--	--	--	X	X
MW-1	385-S13-010	06/27/2001		--	X	--	--	--	--	--	X	--
	385-S13-010A	06/28/2001		X	--	--	--	--	--	--	X	X
MWOR-1	385-S13-001	06/27/2001		X	X	--	--	--	--	--	X	X
MWOR-2	385-S13-002	06/28/2001		--	X	--	--	--	--	--	X	--
	385-S13-002A	07/19/2001		X	--	--	--	--	--	--	X	X
MWOR-3	385-S13-003	06/28/2001		X	X	--	--	--	--	--	X	X
MWOR-4	385-S13-004	06/29/2001		X	X	--	--	--	--	--	X	X
S13-DGS-VE01	385-S13-014	08/08/2001	5.5 - 8	--	X	--	--	--	--	--	X	--
	385-S13-014A	08/08/2001	5.5 - 8	X	--	--	--	--	--	--	--	--
S13-DGS-VE02	385-S13-017	08/07/2001	8.5 - 10	--	X	--	--	--	--	--	X	--
	385-S13-017A	08/07/2001	8.5 - 10	X	X	--	--	--	--	--	X	X
S13-DGS-VE03	385-S13-027	04/26/2002	7	--	X	--	--	--	--	--	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
Basewide Groundwater Monitoring, 2002												
D13-01	D13-01-A1138	07/08/2002		--	X	X	--	--	X	X	X	--
	D13-01-A1639	12/17/2002		--	X	X	--	--	X	X	X	--
M07C-06	M07C-06-A1139	06/21/2002		--	X	X	--	--	X	X	X	--
	M07C-06-A1339	09/05/2002		--	X	--	--	--	--	--	X	--
	M07C-06-A1640	12/17/2002		--	X	X	--	--	X	X	X	--
	M07C-06-A1993	04/14/2003		--	X	--	--	--	--	--	X	--
M07C-09	MW7C-09-A1141	06/19/2002		--	X	X	--	--	X	X	X	--
	M07C-09-A1340	09/04/2002		--	X	--	--	--	--	--	X	--
	M07C-09-A1642	12/17/2002		--	X	X	--	--	X	X	X	--
	M07C-09-A1994	04/10/2003		--	X	--	--	--	--	--	X	--
M13-06	M13-06-A1144	06/18/2002		--	X	X	--	--	X	X	X	--
	M13-06-A1645	12/17/2002		--	X	X	--	--	X	X	X	--
M13-07	M13-07-A1145	06/18/2002		--	X	X	--	--	X	X	X	--
	M13-07-A1646	12/17/2002		--	X	X	--	--	X	X	X	--
M13-08	M13-08-A1146	06/20/2002		--	X	X	--	--	X	X	X	--
	M13-08-A1647	12/17/2002		--	X	X	--	--	X	X	X	--
M13-09	M13-09-A1147	06/19/2002		--	X	X	--	--	X	X	X	--
	M13-09-A1648	12/17/2002		--	X	X	--	--	X	X	X	--
MW-1	MW-1-A1148	06/18/2002		--	X	X	--	--	X	X	X	--
	MW-1-A1649	12/17/2002		--	X	X	--	--	X	X	X	--
MWOR-4	MWOR-4-A1159	06/19/2002		--	X	X	--	--	X	X	X	--
	MWOR-4-A1660	12/17/2002		--	X	X	--	--	X	X	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
TOTAL PETROLEUM HYDROCARBON INVESTIGATIONS												
Fuel Line and Underground Storage Tank Investigations												
CA13-01	030-CAP-187	04/27/2000	0 - 10	--	X	X	--	--	X	--	X	--
CA13-02	030-CAP-188	05/11/2000	0 - 10	--	X	X	--	--	X	--	X	--
CA13-04	030-CAP-189	06/15/2000	0 - 10	--	X	X	--	--	X	--	X	--
CA13-05	030-CAP-423	06/15/2000	0 - 10	--	X	--	--	--	X	--	X	--
	030-CAP-423A	06/16/2000	0 - 10	--	--	X	--	--	X	--	X	--
CA13-11	030-CAP-225	05/09/2000	0 - 10	--	X	X	--	--	--	--	X	--
CA13-12	030-CAP-226	05/09/2000	0 - 10	--	X	X	--	--	--	--	X	--
CA13-13	030-CAP-227	05/11/2000	2.5 - 7.5	--	X	X	--	--	--	--	X	--
CA13-14	030-CAP-228	05/11/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-15	030-CAP-229	05/11/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-16	030-CAP-230	05/11/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-17	030-CAP-231	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-18	030-CAP-232	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-19	030-CAP-233	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-20	030-CAP-234	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-21	030-CAP-413	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-22	030-CAP-416	06/15/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-23	030-CAP-419	06/15/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-24	030-CAP-422	06/15/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-25	030-CAP-426	06/14/2000	3 - 8	--	X	X	--	--	--	--	X	--
CA13-26	030-CAP-429	06/21/2000	3 - 8	--	X	X	--	--	--	--	X	--
M07C-09	030-CAP-065	04/27/2000		--	X	--	--	--	--	--	--	--
M13-07	030-CAP-199	04/25/2000		--	X	X	--	--	--	--	X	--
MW-1	030-CAP-196	04/25/2000		--	X	X	--	--	--	--	X	--

TABLE 6-2: SITE 13 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED								
				SVOC	VOC	Dissolved Metals	Total Metals	Pesticides/ PCBs	General Chemistry	Landfill Gases	TPH	PAH
REMOVAL ACTIONS												
Intermediate Maintenance Facility Removal Action												
B-IMF-09	B-IMF-09	04/03/1992	6	--	--	X	--	--	--	--	--	--
B-IMF-10	B-IMF-10	04/03/1992	10 - 10.5	--	--	X	--	--	--	--	--	--
M-IMF-01	MIMF-01	08/09/1991		--	--	X	--	--	X	--	X	--
	M-IMF-01	04/17/1992		--	--	X	--	--	--	--	--	--
M-IMF-02	M-IMF-02	04/17/1992		--	--	X	--	--	--	--	--	--

Notes:

--	These analyses were not performed.
DOC	Dissolved organic carbon
ft bgs	Feet below ground surface
General chemistry	Acidity, alkalinity, major anions, conductivity, DOC, dissolved gases, hardness, oxydation, MBAS, pH, TDS and/or TOC
MBAS	Methylene blue active substances (surfactants)
PAH	Polynuclear aromatic hydrocarbon
PCB	Polychlorinated biphenyl
SVOC	Semivolatile organic cmpound
TDS	Total dissolved solids
TOC	Total organic carbon
TPH	Total petroleum hydrocarbons
VOC	Volatile organic compound
X	These analyses were performed.

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
1,1,1-TRICHLOROETHANE	75	0	0	--	--	--	5	2,900	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	75	0	0	--	--	--	5	**5,900**	0	7	410
1,1,2-TRICHLOROETHANE	75	0	0	--	--	--	5	**2,900**	0	5	730
1,1-DICHLOROETHANE	75	0	0	--	--	--	5	**2,900**	0	1	2,800 (CAL-modified)
1,1-DICHLOROETHENE	75	0	0	--	--	--	5	2,900	0	0	120,000
1,2-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	370,000
1,2-DICHLOROETHANE	75	0	0	--	--	--	5	**2,900**	0	7	280
1,2-DICHLOROETHENE (TOTAL)	75	0	0	--	--	--	5	2,900	0	0	43,000 (cis)
1,2-DICHLOROPROPANE	75	0	0	--	--	--	5	**2,900**	0	7	340
1,3-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	16,000
1,4-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	3,400
2-BUTANONE	75	0	0	--	--	--	10	5,900	--	--	NA
2-CHLOROETHYLVINYLETHER	56	0	0	--	--	--	10	5,900	--	--	NA
2-HEXANONE	75	0	0	--	--	--	10	5,900	--	--	NA
4-METHYL-2-PENTANONE	75	0	0	--	--	--	5	5,900	--	--	NA
ACETONE	75	0	0	--	--	--	10	5,900	0	0	1,600,000
BENZENE	75	5	7	470	2J	**1,000**	5	**2,900**	2	4	600
BROMODICHLOROMETHANE	75	0	0	--	--	--	5	**2,900**	0	1	820
BROMOFORM	75	0	0	--	--	--	5	2,900	0	0	62,000
BROMOMETHANE	75	0	0	--	--	--	10	**5,900**	0	1	3,900
CARBON DISULFIDE	75	0	0	--	--	--	5	2,900	0	0	360,000
CARBON TETRACHLORIDE	75	0	0	--	--	--	5	**2,900**	0	7	250
CHLOROBENZENE	75	0	0	--	--	--	5	2,900	0	0	150,000
CHLOROETHANE	75	0	0	--	--	--	10	**5,900**	0	1	3,000
CHLOROFORM	75	0	0	--	--	--	5	**2,900**	0	1	940 (CAL-modified)
CHLOROMETHANE	75	0	0	--	--	--	10	**5,900**	0	7	1,200
CIS-1,3-DICHLOROPROPENE	75	0	0	--	--	--	5	**2,900**	0	2	780 (not cis)
DIBROMOCHLOROMETHANE	75	0	0	--	--	--	5	**2,900**	0	1	1,100
ETHYLBENZENE	75	6	8	790	5J	1,800	5	790	0	0	8,900
METHYLENE CHLORIDE	75	0	0	--	--	--	5	5,900	0	0	9,100
STYRENE	75	0	0	--	--	--	5	2,900	0	0	1,700,000

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
TETRACHLOROETHENE	75	0	0	--	--	--	5	**2,900**	0	1	1,500
TOLUENE	75	63	84	100	1 J	1,600	5	2,900	0	0	520,000
TRANS-1,3-DICHLOROPROPENE	75	0	0	--	--	--	5	**2,900**	0	2	780 (not trans)
TRICHLOROETHENE	75	0	0	--	--	--	5	**2,900**	0	7	53
TRICHLOROFLUOROMETHANE	56	0	0	--	--	--	5	2,900	0	0	390,000
VINYL ACETATE	74	0	0	--	--	--	10	5,900	0	0	430,000
VINYL CHLORIDE	75	0	0	--	--	--	10	**5,900**	0	7	79 (child or adult)
XYLENE (TOTAL)	75	2	3	2,100	27	4,100	5	2,900	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	95	0	0	--	--	--	340	34,000	0	0	650,000
1,2-DICHLOROBENZENE	95	0	0	--	--	--	340	34,000	0	0	370,000
1,2-DIPHENYLHYDRAZINE	81	0	0	--	--	--	340	**7,900**	0	11	610
1,3-DICHLOROBENZENE	95	0	0	--	--	--	340	**34,000**	0	1	16,000
1,4-DICHLOROBENZENE	95	0	0	--	--	--	340	**34,000**	0	6	3,400
2,4,5-TRICHLOROPHENOL	95	0	0	--	--	--	1,600	170,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	95	0	0	--	--	--	340	**34,000**	0	3	6,900 (CAL-modified)
2,4-DICHLOROPHENOL	95	0	0	--	--	--	340	34,000	0	0	180,000
2,4-DIMETHYLPHENOL	95	0	0	--	--	--	340	34,000	0	0	1,200,000
2,4-DINITROPHENOL	95	0	0	--	--	--	1,600	**170,000**	0	1	120,000
2,4-DINITROTOLUENE	95	0	0	--	--	--	340	34,000	0	0	120,000
2,6-DINITROTOLUENE	95	0	0	--	--	--	340	34,000	0	0	61,000
2-CHLORONAPHTHALENE	95	0	0	--	--	--	340	34,000	--	--	NA
2-CHLOROPHENOL	95	0	0	--	--	--	340	34,000	0	0	63,000
2-METHYLNAPHTHALENE	95	7	7	6,000	50 J	17,000	340	34,000	--	--	NA
2-METHYLPHENOL	95	0	0	--	--	--	340	34,000	--	--	NA
2-NITROANILINE	95	0	0	--	--	--	1,600	**170,000**	0	75	1,700
2-NITROPHENOL	95	0	0	--	--	--	340	34,000	--	--	NA
3,3'-DICHLOROBENZIDINE	95	0	0	--	--	--	670	**68,000**	0	19	1,100
3-NITROANILINE	95	0	0	--	--	--	1,600	170,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	95	0	0	--	--	--	1,600	170,000	--	--	NA

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
4-BROMOPHENYL-PHENYLETHER	95	0	0	--	--	--	340	34,000	--	--	NA
4-CHLORO-3-METHYLPHENOL	95	0	0	--	--	--	340	34,000	--	--	NA
4-CHLOROANILINE	95	0	0	--	--	--	340	34,000	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	95	0	0	--	--	--	340	34,000	--	--	NA
4-METHYLPHENOL	95	0	0	--	--	--	340	34,000	0	0	310,000
4-NITROANILINE	95	0	0	--	--	--	1,600	170,000	--	--	NA
4-NITROPHENOL	95	0	0	--	--	--	390	170,000	--	--	NA
ACENAPHTHENE	94	1	1	410	410J	410 J	340	34,000	0	0	3,700,000
ACENAPHTHYLENE	95	0	0	--	--	--	340	34,000	--	--	NA
ANILINE	40	0	0	--	--	--	340	6,900	0	0	85,000
ANTHRACENE	95	5	5	65	40J	100 J	340	34,000	0	0	22,000,000
BENZO(A)ANTHRACENE	95	10	11	150	52J	390 J	340	**34,000**	0	16	620
BENZO(A)PYRENE	95	6	6	**240**	**63J**	**520**	**340**	**34,000**	6	89	62
BENZO(B)FLUORANTHENE	95	5	5	420	95J	**1,100**	340	**34,000**	1	17	620
BENZO(G,H,I)PERYLENE	94	4	4	540	100J	1,400	340	34,000	--	--	NA
BENZO(K)FLUORANTHENE	95	4	4	300	110J	**510**	340	**34,000**	2	61	380 (CAL-modified)
BENZOIC ACID	95	0	0	--	--	--	1,600	170,000	0	0	100,000,000
BENZYL ALCOHOL	95	0	0	--	--	--	340	34,000	0	0	18,000,000
BIS(2-CHLOROETHOXY)METHANE	95	0	0	--	--	--	340	34,000	--	--	NA
BIS(2-CHLOROETHYL)ETHER	95	0	0	--	--	--	**340**	**34,000**	0	95	210
BIS(2-ETHYLHEXYL)PHTHALATE	95	0	0	--	--	--	340	34,000	0	0	35,000
BUTYLBENZYLPHTHALATE	95	0	0	--	--	--	340	34,000	0	0	12,000,000
CHRYSENE	95	12	13	350	40J	2,300 J	340	**34,000**	0	4	3,800 (CAL-modified)
DI-N-BUTYLPHTHALATE	95	0	0	--	--	--	340	34,000	--	--	NA
DI-N-OCTYLPHTHALATE	95	0	0	--	--	--	340	34,000	--	--	NA
DIBENZO(A,H)ANTHRACENE	95	0	0	--	--	--	**340**	**34,000**	0	95	62
DIBENZOFURAN	95	0	0	--	--	--	340	34,000	0	0	290,000
DIETHYLPHTHALATE	95	0	0	--	--	--	340	34,000	0	0	49,000,000
DIMETHYLPHTHALATE	95	0	0	--	--	--	340	34,000	0	0	100,000,000
FLUORANTHENE	95	11	12	250	42J	800	340	34,000	0	0	2,300,000
FLUORENE	95	5	5	300	41J	790 J	340	34,000	0	0	2,700,000

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
HEXACHLOROBENZENE	95	0	0	--	--	--	**340**	**34,000**	0	95	300
HEXACHLOROBUTADIENE	95	0	0	--	--	--	340	**34,000**	0	5	6,200
HEXACHLOROCYCLOPENTADIENE	95	0	0	--	--	--	340	34,000	0	0	370,000
HEXACHLOROETHANE	95	0	0	--	--	--	340	34,000	0	0	35,000
INDENO(1,2,3-CD)PYRENE	95	3	3	350	90J	**690**	340	**34,000**	1	17	620
ISOPHORONE	95	0	0	--	--	--	340	34,000	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	94	0	0	--	--	--	**340**	**34,000**	0	94	69
N-NITROSODIMETHYLAMINE	40	0	0	--	--	--	**340**	**6,900**	0	40	10
N-NITROSODIPHENYLAMINE	94	31	33	190	42J	2,700 J	340	34,000	0	0	99,000
NAPHTHALENE	95	28	29	610	36J	5,400	340	34,000	0	0	56,000
NITROBENZENE	94	0	0	--	--	--	340	**34,000**	0	1	20,000
PENTACHLOROPHENOL	95	4	4	520	170J	1,000 J	1,600	**170,000**	0	17	3,000
PHENANTHRENE	95	17	18	300	37J	1,800	340	34,000	--	--	NA
PHENOL	95	0	0	--	--	--	340	34,000	0	0	37,000,000
PYRENE	95	13	14	360	46J	1,900	340	34,000	0	0	2,300,000
PCBs/Pesticides (µg/kg)											
4,4'-DDD	96	2	2	7	5	9	2	470	0	0	2,400
4,4'-DDE	96	5	5	24	4	35	2	470	0	0	1,700
4,4'-DDT	96	7	7	30	2	160	2	470	0	0	1,700
ALDRIN	96	0	0	--	--	--	1	**240**	0	4	29
ALPHA-BHC	96	0	0	--	--	--	1	240	--	--	NA
ALPHA-CHLORDANE	36	0	0	--	--	--	4	**2,400**	0	1	1,600 (chlordane)
AROCLOR-1016	95	0	0	--	--	--	26	2,400	0	0	3,900
AROCLOR-1221	95	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1232	95	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1242	95	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1248	95	0	0	--	--	--	17	**2,400**	0	7	220
AROCLOR-1254	95	0	0	--	--	--	17	**4,700**	0	11	220
AROCLOR-1260	95	0	0	--	--	--	17	**4,700**	0	11	220
BETA-BHC	96	2	2	3	2	4	1	240	--	--	NA

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
PCBs/Pesticides (µg/kg)											
CHLORDANE	59	0	0	--	--	--	10	530	0	0	1,600
DELTA-BHC	96	0	0	--	--	--	1	240	--	--	NA
DIELDRIN	96	0	0	--	--	--	1	**470**	0	5	30
ENDOSULFAN I	96	0	0	--	--	--	2	240	0	0	370,000
ENDOSULFAN II	96	0	0	--	--	--	2	470	0	0	370,000 (endosulfan)
ENDOSULFAN SULFATE	96	0	0	--	--	--	2	470	--	--	NA
ENDRIN	94	0	0	--	--	--	2	470	0	0	18,000
ENDRIN ALDEHYDE	60	0	0	--	--	--	2	100	--	--	NA
ENDRIN KETONE	36	0	0	--	--	--	8	470	--	--	NA
GAMMA-BHC (LINDANE)	95	0	0	--	--	--	1	240	--	--	NA
GAMMA-CHLORDANE	36	0	0	--	--	--	4	**2,400**	0	1	1,600 (chlordane)
HEPTACHLOR	94	0	0	--	--	--	1	**240**	0	1	110
HEPTACHLOR EPOXIDE	92	1	1	5	5	5	1	**240**	0	2	53
METHOXYCHLOR	96	0	0	--	--	--	5	2,400	0	0	310,000
TOXAPHENE	95	0	0	--	--	--	52	**4,700**	0	13	440
Metals (mg/kg)											
ALUMINUM	94	94	100	7,510	45.8	18,200	0.0	0.0	0	0	76,000
ANTIMONY	95	25	26	5.0	2.7	8.2	2.1	7.8	0	0	31.0
ARSENIC	94	30	32	**4.7**	**2.5**	**20.0**	**2.5**	**13.0**	30	64	0.39
BARIUM	94	89	95	62.4	17.6	290	21.0	24.0	0	0	5,400
BERYLLIUM	95	21	22	0.30	0.20	0.40	0.20	1.3	0	0	150
CADMIUM	95	35	37	0.50	0.20	3.5	0.20	1.3	0	0	37.0
CALCIUM	94	94	100	3,020	870	26,500	0.0	0.0	--	--	NA
CHROMIUM	94	94	100	36.4	3.6	75.0	0.0	0.0	0	0	210
COBALT	95	68	72	6.3	2.7	15.2	5.1	6.3	0	0	900
COPPER	94	93	99	18.2	4.7	160	5.8	5.8	0	0	3,100
IRON	94	94	100	11,800	5,450	**28,500**	0.0	0.0	2	0	23,000
LEAD	95	33	35	23.3	5.7	**260**	5.1	6.5	1	0	150 (CAL-modified)
MAGNESIUM	94	94	100	3,070	1,200	12,000	0.0	0.0	--	--	NA
MANGANESE	94	94	100	159	64.0	702	0.0	0.0	0	0	1,800

TABLE 6-3 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Metals (mg/kg)											
MOLYBDENUM	95	0	0	--	--	--	1.0	6.5	0	0	390
NICKEL	94	94	100	36.4	2.6	69.1	0.0	0.0	0	0	1,600
POTASSIUM	94	88	94	863	270	2,700	520	590	--	--	NA
SELENIUM	94	5	5	13.0	12.0	15.0	4.3	13.0	0	0	390
SILVER	95	0	0	--	--	--	0.60	6.5	0	0	390
SODIUM	94	59	63	617	102	2,550	510	650	--	--	NA
THALLIUM	94	1	1	2.7	2.7	2.7	2.7	**13.0**	0	43	5.2
TITANIUM	94	94	100	413	42.6	655	0.0	0.0	--	--	NA
VANADIUM	94	94	100	42.6	12.5	**1,780**	0.0	0.0	1	0	550
ZINC	94	94	100	46.5	14.0	1,280	0.0	0.0	0	0	23,000

NOTES:

Bold denotes values elevated above the PRG

--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
J	Estimated value
mg/kg	Milligrams per kilogram
NA	No PRG available
PCB	Polychlorinated biphenyl
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/kg	Micrograms per kilogram

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
1,1,1-TRICHLOROETHANE	5	0	0	--	--	--	5	25	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	5	0	0	--	--	--	5	25	0	5	0.06	1
1,1,2-TRICHLOROETHANE	5	0	0	--	--	--	5	25	0	5	0.2	5
1,1-DICHLOROETHANE	5	0	0	--	--	--	5	25	0	5	2 (CAL-modified)	5
1,1-DICHLOROETHENE	5	0	0	--	--	--	5	25	0	0	340	6
1,2-DICHLOROETHANE	5	0	0	--	--	--	5	25	0	5	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	5	0	0	--	--	--	5	25	0	0	61 (cis)	NA
1,2-DICHLOROPROPANE	5	0	0	--	--	--	5	25	0	5	0.2	5
2-BUTANONE	5	0	0	--	--	--	10	50	--	--	NA	NA
2-HEXANONE	5	0	0	--	--	--	10	50	--	--	NA	NA
4-METHYL-2-PENTANONE	5	0	0	--	--	--	10	50	--	--	NA	NA
ACETONE	5	0	0	--	--	--	10	50	0	0	610	NA
BENZENE	5	1	20	400	400	400	5	5	1	4	0.3	1
BROMODICHLOROMETHANE	5	0	0	--	--	--	5	25	0	5	0.2	80
BROMOFORM	5	0	0	--	--	--	5	25	0	1	9	80
BROMOMETHANE	5	0	0	--	--	--	10	50	0	5	9	NA
CARBON DISULFIDE	5	0	0	--	--	--	5	25	0	0	1,000	NA
CARBON TETRACHLORIDE	5	0	0	--	--	--	5	25	0	5	0.2	0.5
CHLOROBENZENE	5	0	0	--	--	--	5	25	0	0	110	70
CHLOROETHANE	5	0	0	--	--	--	10	50	0	5	5	NA
CHLOROFORM	5	0	0	--	--	--	5	25	0	5	0.5 (CAL-modified)	80
CHLOROMETHANE	5	0	0	--	--	--	10	50	0	5	2	NA
CIS-1,3-DICHLOROPROPENE	5	0	0	--	--	--	5	25	0	5	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	5	0	0	--	--	--	5	25	0	5	0.1	80
ETHYLBENZENE	5	1	20	34	34	34	5	5	1	4	3	300
METHYLENE CHLORIDE	5	0	0	--	--	--	5	25	0	5	4	NA
STYRENE	5	0	0	--	--	--	5	25	0	0	1,600	100
TETRACHLOROETHENE	5	0	0	--	--	--	5	25	0	5	0.7	5
TOLUENE	5	0	0	--	--	--	5	25	0	0	720	150
TRANS-1,3-DICHLOROPROPENE	5	0	0	--	--	--	5	25	0	5	0.4 (not trans)	0.5
TRICHLOROETHENE	5	0	0	--	--	--	5	25	0	5	0.03	5

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
VINYL ACETATE	5	0	0	--	--	--	5	25	0	0	410	NA
VINYL CHLORIDE	5	0	0	--	--	--	**10**	**50**	0	5	0.02 (child or adult)	0.5
XYLENE (TOTAL)	5	1	20	32	32	32	5	5	0	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	5	0	0	--	--	--	10	10	0	0	190	5
1,2-DICHLOROBENZENE	5	0	0	--	--	--	10	10	0	0	370	600
1,3-DICHLOROBENZENE	5	0	0	--	--	--	**10**	**10**	0	5	6	NA
1,4-DICHLOROBENZENE	5	0	0	--	--	--	**10**	**10**	0	5	0.5	5
2,4,5-TRICHLOROPHENOL	5	0	0	--	--	--	50	50	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	5	0	0	--	--	--	**10**	**10**	0	5	1 (CAL-modified)	NA
2,4-DICHLOROPHENOL	5	0	0	--	--	--	10	10	0	0	110	NA
2,4-DIMETHYLPHENOL	5	0	0	--	--	--	10	10	0	0	730	NA
2,4-DINITROPHENOL	5	0	0	--	--	--	50	50	0	0	73	NA
2,4-DINITROTOLUENE	5	0	0	--	--	--	10	10	0	0	73	NA
2,6-DINITROTOLUENE	5	0	0	--	--	--	10	10	0	0	36	NA
2-CHLORONAPHTHALENE	5	0	0	--	--	--	10	10	--	--	NA	NA
2-CHLOROPHENOL	5	0	0	--	--	--	10	10	0	0	30	NA
2-METHYLNAPHTHALENE	5	1	20	16	16	16	10	10	--	--	NA	NA
2-METHYLPHENOL	5	0	0	--	--	--	10	10	0	0	1,800	NA
2-NITROANILINE	5	0	0	--	--	--	**50**	**50**	0	5	1	NA
2-NITROPHENOL	5	0	0	--	--	--	10	10	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	5	0	0	--	--	--	**20**	**20**	0	5	0.2	NA
3-NITROANILINE	5	0	0	--	--	--	50	50	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	5	0	0	--	--	--	50	50	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	5	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	5	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLOROANILINE	5	0	0	--	--	--	10	10	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	5	0	0	--	--	--	10	10	--	--	NA	NA
4-METHYLPHENOL	5	0	0	--	--	--	10	10	0	0	180	NA
4-NITROANILINE	5	0	0	--	--	--	50	50	--	--	NA	NA

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
4-NITROPHENOL	5	0	0	--	--	--	50	50	--	--	NA	NA
ACENAPHTHENE	5	0	0	--	--	--	10	10	0	0	370	NA
ACENAPHTHYLENE	5	0	0	--	--	--	10	10	--	--	NA	NA
ANTHRACENE	5	0	0	--	--	--	10	10	0	0	1,800	NA
BENZO(A)ANTHRACENE	5	0	0	--	--	--	**10**	**10**	0	5	0.09	0.1
BENZO(A)PYRENE	5	0	0	--	--	--	**10**	**10**	0	5	0.009	0.2
BENZO(B)FLUORANTHENE	5	0	0	--	--	--	**10**	**10**	0	5	0.09	NA
BENZO(G,H,I)PERYLENE	5	0	0	--	--	--	10	10	--	--	NA	NA
BENZO(K)FLUORANTHENE	5	0	0	--	--	--	**10**	**10**	0	5	0.06 (CAL-modified)	NA
BENZOIC ACID	5	0	0	--	--	--	50	50	0	0	150,000	NA
BENZYL ALCOHOL	5	0	0	--	--	--	10	10	0	0	11,000	NA
BIS(2-CHLOROETHOXY)METHANE	5	0	0	--	--	--	10	10	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	5	0	0	--	--	--	**10**	**10**	0	5	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	5	0	0	--	--	--	**10**	**11**	0	5	5	NA
BUTYLBENZYLPHTHALATE	5	0	0	--	--	--	10	10	0	0	7,300	NA
CHRYSENE	5	0	0	--	--	--	**10**	**10**	0	5	0.6 (CAL-modified)	NA
DI-N-BUTYLPHTHALATE	5	0	0	--	--	--	10	10	--	--	NA	NA
DI-N-OCTYLPHTHALATE	5	0	0	--	--	--	10	10	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	5	0	0	--	--	--	**10**	**10**	0	5	0.009	NA
DIBENZOFURAN	5	0	0	--	--	--	10	10	0	0	24	NA
DIETHYLPHTHALATE	5	0	0	--	--	--	10	10	0	0	29,000	NA
DIMETHYLPHTHALATE	5	0	0	--	--	--	10	10	0	0	360,000	NA
FLUORANTHENE	5	0	0	--	--	--	10	10	0	0	1,500	NA
FLUORENE	5	0	0	--	--	--	10	10	0	0	240	NA
HEXACHLOROBENZENE	5	0	0	--	--	--	**10**	**10**	0	5	0.04	1
HEXACHLOROBUTADIENE	5	0	0	--	--	--	**10**	**10**	0	5	0.9	NA
HEXACHLOROCYCLOPENTADIENE	5	0	0	--	--	--	10	10	0	0	220	NA
HEXACHLOROETHANE	5	0	0	--	--	--	**10**	**10**	0	5	5	NA
INDENO(1,2,3-CD)PYRENE	5	0	0	--	--	--	**10**	**10**	0	5	0.09	NA
ISOPHORONE	5	0	0	--	--	--	10	10	0	0	71	NA
N-NITROSO-DI-N-PROPYLAMINE	5	0	0	--	--	--	**10**	**10**	0	5	0.01	NA

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
N-NITROSODIPHENYLAMINE	5	0	0	--	--	--	10	10	0	0	14	NA
NAPHTHALENE	5	1	20	23	23	23	10	10	1	4	6	NA
NITROBENZENE	5	0	0	--	--	--	10	10	0	5	3	NA
PENTACHLOROPHENOL	5	0	0	--	--	--	50	50	0	5	0.6	1
PHENANTHRENE	5	0	0	--	--	--	10	10	--	--	NA	NA
PHENOL	5	0	0	--	--	--	10	10	0	0	22,000	NA
PYRENE	5	0	0	--	--	--	10	10	0	0	180	NA
PCBs/Pesticides (µg/L)												
4,4'-DDD	2	0	0	--	--	--	0.02	0.02	0	0	0.3	NA
4,4'-DDE	2	0	0	--	--	--	0.02	0.02	0	0	0.2	NA
4,4'-DDT	2	1	50	0.08	0.08	0.08	0.02	0.02	0	0	0.2	NA
ALDRIN	2	0	0	--	--	--	0.02	0.02	0	2	0.004	NA
ALPHA-BHC	2	0	0	--	--	--	0.02	0.02	--	--	NA	NA
AROCLOR-1016	2	0	0	--	--	--	0.3	0.3	0	0	1	NA
AROCLOR-1221	2	0	0	--	--	--	0.3	0.3	0	2	0.03	NA
AROCLOR-1232	2	0	0	--	--	--	0.3	0.3	0	2	0.03	NA
AROCLOR-1242	2	0	0	--	--	--	0.3	0.3	0	2	0.03	NA
AROCLOR-1248	2	0	0	--	--	--	0.3	0.3	0	2	0.03	NA
AROCLOR-1254	2	0	0	--	--	--	0.5	0.5	0	2	0.03	NA
AROCLOR-1260	2	0	0	--	--	--	0.5	0.5	0	2	0.03	NA
BETA-BHC	2	0	0	--	--	--	0.02	0.02	--	--	NA	NA
CHLORDANE	2	0	0	--	--	--	0.3	0.3	0	2	0.2	NA
DELTA-BHC	2	0	0	--	--	--	0.02	0.02	--	--	NA	NA
DIELDRIN	2	0	0	--	--	--	0.02	0.02	0	2	0.004	NA
ENDOSULFAN I	2	0	0	--	--	--	0.02	0.02	0	0	220	NA
ENDOSULFAN II	5	0	0	--	--	--	0.02	0.02	--	--	NA	NA
ENDOSULFAN SULFATE	2	0	0	--	--	--	0.02	0.02	--	--	NA	NA
ENDRIN	2	0	0	--	--	--	0.02	0.02	0	0	11	2
ENDRIN ALDEHYDE	5	0	0	--	--	--	0.02	0.02	--	--	NA	NA
GAMMA-BHC (LINDANE)	2	0	0	--	--	--	0.02	0.02	--	--	NA	NA

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
PCBs/Pesticides (µg/L)												
HEPTACHLOR	2	0	0	--	--	--	**0.02**	**0.02**	0	2	0.02	0.01
HEPTACHLOR EPOXIDE	5	0	0	--	--	--	**0.02**	**0.02**	0	5	0.007	0.01
METHOXYCHLOR	2	0	0	--	--	--	0.05	0.05	0	0	180	30
TOXAPHENE	2	0	0	--	--	--	**1**	**1**	0	2	0.06	3
Metals (µg/L)												
Filtered												
ALUMINUM	2	2	100	147,000	**50,000**	**244,000**	0.0	0.0	2	0	36,000	NA
ANTIMONY	2	0	0	--	--	--	**60.0**	**60.0**	0	2	15.0	6.0
ARSENIC	2	0	0	--	--	--	**50.0**	**200**	0	2	0.045	10.0
BARIUM	2	2	100	1,180	660	1,700	0.0	0.0	0	0	2,600	1,000
BERYLLIUM	2	1	50	6.0	6.0	6.0	5.0	5.0	0	0	73.0	4.0
CADMIUM	2	0	0	--	--	--	5.0	5.0	0	0	18.0	5.0
CALCIUM	2	2	100	71,500	61,000	82,000	0.0	0.0	--	--	NA	NA
CHROMIUM	2	2	100	435	150	720	0.0	0.0	--	--	NA	50.0
COBALT	2	1	50	170	170	170	50.0	50.0	0	0	730	NA
COPPER	2	2	100	121	51.0	190	0.0	0.0	0	0	1,500	1,300
IRON	2	2	100	196,000	**92,000**	**300,000**	0.0	0.0	2	0	11,000	NA
LEAD	2	0	0	--	--	--	50.0	50.0	--	--	NA	15.0
MAGNESIUM	2	2	100	80,500	80,000	81,000	0.0	0.0	--	--	NA	NA
MANGANESE	2	2	100	3,750	**2,700**	**4,800**	0.0	0.0	2	0	880	NA
MOLYBDENUM	2	0	0	--	--	--	50.0	50.0	0	0	180	NA
NICKEL	2	2	100	555	190	**920**	0.0	0.0	1	0	730	100
POTASSIUM	2	2	100	20,500	16,000	25,000	0.0	0.0	--	--	NA	NA
SELENIUM	2	1	50	120	120	120	100	100	0	0	180	50.0
SILVER	2	0	0	--	--	--	10.0	10.0	0	0	180	NA
SODIUM	2	2	100	277,000	47,000	506,000	0.0	0.0	--	--	NA	NA
THALLIUM	2	0	0	--	--	--	**50.0**	**100**	0	2	2.4	2.0
TITANIUM	2	2	100	3,450	1,300	5,600	0.0	0.0	--	--	NA	NA
VANADIUM	2	2	100	**340**	130	**550**	0.0	0.0	1	0	260	NA
ZINC	2	2	100	370	180	560	0.0	0.0	0	0	11,000	NA

TABLE 6-4 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

NOTES:

Bold denotes values elevated above the PRG

--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
MCL	Maximum Contaminant Level
NA	No criteria available
PCB	Polychlorinated biphenyl
PRG	*Preliminary Remediation Goal*, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/L	Micrograms per liter

TABLE 6-5 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
1,1,1-TRICHLOROETHANE	30	0	0	--	--	--	10	61	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	30	0	0	--	--	--	10	61	0	0	410
1,1,2-TRICHLOROETHANE	30	0	0	--	--	--	10	61	0	0	730
1,1-DICHLOROETHANE	30	0	0	--	--	--	10	61	0	0	2,800 (CAL-modified)
1,1-DICHLOROETHENE	30	0	0	--	--	--	10	61	0	0	120,000
1,2-DICHLOROETHANE	30	0	0	--	--	--	10	61	0	0	280
1,2-DICHLOROETHENE (TOTAL)	30	0	0	--	--	--	10	61	0	0	43,000 (cis)
1,2-DICHLOROPROPANE	30	0	0	--	--	--	10	61	0	0	340
2-BUTANONE	30	0	0	--	--	--	10	61	--	--	NA
2-HEXANONE	30	0	0	--	--	--	10	61	--	--	NA
4-METHYL-2-PENTANONE	30	0	0	--	--	--	10	61	--	--	NA
ACETONE	30	4	13	190	150 J	240 J	10	120	0	0	1,600,000
BENZENE	30	4	13	28	2 J	82	10	61	0	0	600
BROMODICHLOROMETHANE	30	0	0	--	--	--	10	61	0	0	820
BROMOFORM	30	0	0	--	--	--	10	61	0	0	62,000
BROMOMETHANE	30	0	0	--	--	--	10	61	0	0	3,900
CARBON DISULFIDE	30	3	10	2	1 J	2 J	10	61	0	0	360,000
CARBON TETRACHLORIDE	30	0	0	--	--	--	10	61	0	0	250
CHLOROBENZENE	30	1	3	2	2 J	2 J	10	61	0	0	150,000
CHLOROETHANE	30	0	0	--	--	--	10	61	0	0	3,000
CHLOROFORM	30	0	0	--	--	--	10	61	0	0	940 (CAL-modified)
CHLOROMETHANE	30	0	0	--	--	--	10	61	0	0	1,200
CIS-1,3-DICHLOROPROPENE	30	0	0	--	--	--	10	61	0	0	780 (not cis)
DIBROMOCHLOROMETHANE	30	0	0	--	--	--	10	61	0	0	1,100
ETHYLBENZENE	30	11	37	560	3 J	5,100	10	14	0	0	8,900
ETHYLENE DIBROMIDE	6	0	0	--	--	--	6	14	--	--	NA
METHYLENE CHLORIDE	30	0	0	--	--	--	10	61	0	0	9,100
STYRENE	30	0	0	--	--	--	10	61	0	0	1,700,000
TETRACHLOROETHENE	30	0	0	--	--	--	10	61	0	0	1,500
TOLUENE	30	7	23	35	1 J	220	10	61	0	0	520,000
TRANS-1,3-DICHLOROPROPENE	30	0	0	--	--	--	10	61	0	0	780 (not trans)

TABLE 6-5 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
TRICHLOROETHENE	30	0	0	--	--	--	10	**61**	0	2	53
VINYL CHLORIDE	30	0	0	--	--	--	10	61	0	0	79 (child or adult)
XYLENE (TOTAL)	30	12	40	3,800	5 J	38,000	10	52	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	47	0	0	--	--	--	350	62,000	0	0	650,000
1,2-DICHLOROBENZENE	47	0	0	--	--	--	350	62,000	0	0	370,000
1,3-DICHLOROBENZENE	47	0	0	--	--	--	350	**62,000**	0	1	16,000
1,4-DICHLOROBENZENE	47	0	0	--	--	--	350	**62,000**	0	5	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	47	0	0	--	--	--	350	62,000	--	--	NA
2,4,5-TRICHLOROPHENOL	47	0	0	--	--	--	870	150,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	47	0	0	--	--	--	350	**62,000**	0	4	6,900 (CAL-modified)
2,4-DICHLOROPHENOL	47	0	0	--	--	--	350	62,000	0	0	180,000
2,4-DIMETHYLPHENOL	47	1	2	12,000	12,000 J	12,000 J	350	14,000	0	0	1,200,000
2,4-DINITROPHENOL	37	0	0	--	--	--	870	8,800	0	0	120,000
2,4-DINITROTOLUENE	47	0	0	--	--	--	350	62,000	0	0	120,000
2,6-DINITROTOLUENE	47	0	0	--	--	--	350	**62,000**	0	1	61,000
2-CHLORONAPHTHALENE	47	0	0	--	--	--	350	62,000	--	--	NA
2-CHLOROPHENOL	47	0	0	--	--	--	350	62,000	0	0	63,000
2-METHYLNAPHTHALENE	47	10	21	21,000	36 J	160,000	350	12,000	--	--	NA
2-METHYLPHENOL	47	0	0	--	--	--	350	62,000	--	--	NA
2-NITROANILINE	47	0	0	--	--	--	870	**150,000**	0	9	1,700
2-NITROPHENOL	47	0	0	--	--	--	350	62,000	--	--	NA
3,3'-DICHLOROBENZIDINE	47	0	0	--	--	--	350	**62,000**	0	8	1,100
3-NITROANILINE	47	0	0	--	--	--	870	150,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	47	0	0	--	--	--	870	150,000	--	--	NA
4-BROMOPHENYL-PHENYLETHER	47	0	0	--	--	--	350	62,000	--	--	NA
4-CHLORO-3-METHYLPHENOL	47	0	0	--	--	--	350	62,000	--	--	NA
4-CHLOROANILINE	47	0	0	--	--	--	350	62,000	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	47	0	0	--	--	--	350	62,000	--	--	NA
4-METHYLPHENOL	47	0	0	--	--	--	350	62,000	0	0	310,000

TABLE 6-5 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
4-NITROANILINE	47	0	0	--	--	--	870	150,000	--	--	NA
4-NITROPHENOL	47	0	0	--	--	--	870	150,000	--	--	NA
ACENAPHTHENE	47	3	6	100	25J	250 J	350	62,000	0	0	3,700,000
ACENAPHTHYLENE	47	2	4	68	25J	110 J	350	62,000	--	--	NA
ANTHRACENE	47	11	23	940	32J	4,800 J	350	3,600	0	0	22,000,000
BENZO(A)ANTHRACENE	47	4	9	270	82J	**680**	350	**62,000**	1	9	620
BENZO(A)PYRENE	47	7	15	**450**	35J	**1,700**	**350**	**62,000**	6	40	62
BENZO(B)FLUORANTHENE	47	8	17	**890**	20J	**5,100**	350	**14,000**	2	6	620
BENZO(G,H,I)PERYLENE	47	8	17	330	18J	1,600	350	62,000	--	--	NA
BENZO(K)FLUORANTHENE	47	2	4	1,300	**500**	**2,100**	350	**62,000**	2	38	380 (CAL-modified)
BIS(2-CHLOROETHOXY)METHANE	47	0	0	--	--	--	350	62,000	--	--	NA
BIS(2-CHLOROETHYL)ETHER	47	0	0	--	--	--	**350**	**62,000**	0	47	210
BIS(2-ETHYLHEXYL)PHTHALATE	47	0	0	--	--	--	350	**62,000**	0	1	35,000
BUTYLBENZYLPHTHALATE	47	0	0	--	--	--	350	62,000	0	0	12,000,000
CARBAZOLE	47	2	4	3,100	270J	5,900 J	350	14,000	0	0	24,000
CHRYSENE	47	19	40	3,600	20J	**36,000**	350	**11,000**	3	1	3,800 (CAL-modified)
DI-N-BUTYLPHTHALATE	47	4	9	35	31J	43 J	350	62,000	--	--	NA
DI-N-OCTYLPHTHALATE	47	0	0	--	--	--	350	62,000	--	--	NA
DIBENZO(A,H)ANTHRACENE	47	4	9	**110**	52J	**180**	**350**	**62,000**	3	43	62
DIBENZOFURAN	47	3	6	2,800	23J	6,900 J	350	12,000	0	0	290,000
DIETHYLPHTHALATE	47	0	0	--	--	--	350	62,000	0	0	49,000,000
DIMETHYLPHTHALATE	47	0	0	--	--	--	350	62,000	0	0	100,000,000
FLUORANTHENE	47	13	28	860	25J	3,900 J	350	3,600	0	0	2,300,000
FLUORENE	47	11	23	6,500	42J	46,000 J	350	3,600	0	0	2,700,000
HEXACHLOROBENZENE	47	0	0	--	--	--	**350**	**62,000**	0	47	300
HEXACHLOROBUTADIENE	47	0	0	--	--	--	350	**62,000**	0	4	6,200
HEXACHLOROCYCLOPENTADIENE	47	0	0	--	--	--	350	62,000	0	0	370,000
HEXACHLOROETHANE	47	0	0	--	--	--	350	**62,000**	0	1	35,000
INDENO(1,2,3-CD)PYRENE	47	6	13	360	50J	**1,200**	350	**62,000**	1	9	620
ISOPHORONE	47	0	0	--	--	--	350	62,000	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	47	0	0	--	--	--	**350**	**62,000**	0	47	69

TABLE 6-5 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
N-NITROSODIPHENYLAMINE	47	1	2	4,500	4,500J	4,500 J	350	62,000	0	0	99,000
NAPHTHALENE	47	11	23	3,900	41J	30,000 J	330	3,600	0	0	56,000
NITROBENZENE	47	0	0	--	--	--	350	**62,000**	0	1	20,000
PENTACHLOROPHENOL	47	0	0	--	--	--	870	**150,000**	0	8	3,000
PHENANTHRENE	47	18	38	13,000	25J	140,000	350	3,600	--	--	NA
PHENOL	47	0	0	--	--	--	350	62,000	0	0	37,000,000
PYRENE	47	18	38	2,200	19J	16,000 J	350	3,600	0	0	2,300,000
Metals (mg/kg)											
ALUMINUM	75	75	100	7,900	493J	35,700	0.0	0.0	0	0	76,000
ANTIMONY	75	40	53	0.92	0.37J	4.8 J	0.15	1.5	0	0	31.0
ARSENIC	75	72	96	**4.1**	**1.1**	**19.4**	**1.2**	**3.9**	72	3	0.39
BARIUM	75	75	100	68.9	11.6J	376	0.0	0.0	0	0	5,400
BERYLLIUM	75	53	71	0.55	0.080J	2.0	0.050	0.36	0	0	150
CADMIUM	75	47	63	0.55	0.020J	18.0	0.020	0.10	0	0	37.0
CALCIUM	75	75	100	3,300	363	11,800	0.0	0.0	--	--	NA
CHROMIUM	75	75	100	41.6	3.4J	**337**	0.0	0.0	1	0	210
COBALT	75	71	95	6.0	2.2J	20.2	0.15	14.9	0	0	900
COPPER	75	62	83	11.9	1.2J	47.9 J	4.8	9.4	0	0	3,100
IRON	75	75	100	12,800	1,110J	**74,800**	0.0	0.0	5	0	23,000
LEAD	75	75	100	32.6	1.0	**431**	0.0	0.0	5	0	150 (CAL-modified)
MAGNESIUM	75	75	100	2,800	153J	14,400	0.0	0.0	--	--	NA
MANGANESE	75	75	100	151	7.5	679	0.0	0.0	0	0	1,800
MERCURY	75	36	48	0.073	0.010J	0.40	0.010	0.22	0	0	23.0
MOLYBDENUM	75	4	5	2.1	0.25J	5.9 J	0.15	4.0	0	0	390
NICKEL	75	73	97	38.9	1.2J	278	13.8	15.8	0	0	1,600
POTASSIUM	75	70	93	1,050	432J	4,950	170	654	--	--	NA
SELENIUM	75	45	60	0.58	0.14J	5.4	0.53	0.77	0	0	390
SILVER	75	4	5	0.68	0.23J	1.6 J	0.14	1.3	0	0	390
SODIUM	75	75	100	484	69.6J	4,680	0.0	0.0	--	--	NA
THALLIUM	75	0	0	--	--	--	0.11	1.5	0	0	5.2

TABLE 6-5 SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Metals (mg/kg)											
VANADIUM	75	75	100	27.0	2.0J	85.9	0.0	0.0	0	0	550
ZINC	75	75	100	125	5.6J	7,120	0.0	0.0	0	0	23,000

NOTES:

Bold denotes values elevated above the PRG

-- Not detected

J Estimated value

mg/kg Milligrams per kilogram

NA No PRG available

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

µg/kg Micrograms per kilogram

TABLE 6-6 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
1,1,1-TRICHLOROETHANE	56	4	7	14	1	37J	1	5	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	56	0	0	--	--	--	1	5	0	56	0.06	1
1,1,2-TRICHLOROETHANE	56	0	0	--	--	--	1	5	0	56	0.2	5
1,1-DICHLOROETHANE	56	0	0	--	--	--	1	5	0	1	2 (CAL-modified)	5
1,1-DICHLOROETHENE	56	2	4	5	1J	9	1	5	0	0	340	6
1,2-DICHLOROETHANE	56	3	5	1	0.8	2	0.5	4	3	53	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	56	0	0	--	--	--	1	5	0	0	61 (cis)	NA
1,2-DICHLOROPROPANE	56	0	0	--	--	--	1	5	0	56	0.2	5
2-BUTANONE	3	0	0	--	--	--	3	15	--	--	NA	NA
2-HEXANONE	53	0	0	--	--	--	2	10	--	--	NA	NA
4-METHYL-2-PENTANONE	56	1	2	1	1J	1J	2	10	--	--	NA	NA
ACETONE	8	2	25	54	47J	61J	1	87	0	0	610	NA
BENZENE	56	7	13	52	0.7	180	0.5	1	7	49	0.3	1
BROMODICHLOROMETHANE	56	0	0	--	--	--	1	5	0	56	0.2	80
BROMOFORM	56	0	0	--	--	--	1	5	0	0	9	80
BROMOMETHANE	56	0	0	--	--	--	1	10	0	1	9	NA
CARBON DISULFIDE	56	0	0	--	--	--	1	5	0	0	1,000	NA
CARBON TETRACHLORIDE	56	0	0	--	--	--	0.5	2	0	56	0.2	0.5
CHLOROBENZENE	56	0	0	--	--	--	1	5	0	0	110	70
CHLOROETHANE	56	0	0	--	--	--	2	10	0	1	5	NA
CHLOROFORM	56	0	0	--	--	--	1	5	0	56	0.5 (CAL-modified)	80
CHLOROMETHANE	56	0	0	--	--	--	2	10	0	56	2	NA
CIS-1,3-DICHLOROPROPENE	56	0	0	--	--	--	0.5	2	0	56	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	56	0	0	--	--	--	1	5	0	56	0.1	80
ETHYLBENZENE	56	7	13	31	1	130	1	1	5	0	3	300
ETHYLENE DIBROMIDE	3	0	0	--	--	--	1	1	--	--	NA	0.05
METHYLENE CHLORIDE	56	0	0	--	--	--	1	5	0	1	4	NA
STYRENE	56	0	0	--	--	--	1	5	0	0	1,600	100
TETRACHLOROETHENE	56	0	0	--	--	--	1	5	0	56	0.7	5
TOLUENE	56	3	5	6	0.9J	8	1	5	0	0	720	150
TRANS-1,3-DICHLOROPROPENE	56	0	0	--	--	--	0.5	2	0	56	0.4 (not trans)	0.5

TABLE 6-6 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
TRICHLOROETHENE	56	0	0	--	--	--	**1**	**5**	0	56	0.03	5
VINYL CHLORIDE	56	0	0	--	--	--	**0.5**	**2**	0	56	0.02 (child or adult)	0.5
XYLENE (TOTAL)	56	6	11	150	0.9J	**530**	1	5	2	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	47	0	0	--	--	--	10	100	0	0	190	5
1,2-DICHLOROBENZENE	47	0	0	--	--	--	5	50	0	0	370	600
1,3-DICHLOROBENZENE	47	0	0	--	--	--	5	**50**	0	1	6	NA
1,4-DICHLOROBENZENE	47	0	0	--	--	--	**5**	**50**	0	47	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	47	0	0	--	--	--	10	100	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	47	0	0	--	--	--	25	250	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	47	0	0	--	--	--	**10**	**100**	0	47	1 (CAL-modified)	NA
2,4-DICHLOROPHENOL	47	1	2	7	7J	7J	10	100	0	0	110	NA
2,4-DIMETHYLPHENOL	47	0	0	--	--	--	10	100	0	0	730	NA
2,4-DINITROPHENOL	36	0	0	--	--	--	25	**250**	0	1	73	NA
2,4-DINITROTOLUENE	47	0	0	--	--	--	10	**100**	0	1	73	NA
2,6-DINITROTOLUENE	47	0	0	--	--	--	10	**100**	0	1	36	NA
2-CHLORONAPHTHALENE	47	0	0	--	--	--	10	100	--	--	NA	NA
2-CHLOROPHENOL	47	0	0	--	--	--	10	**100**	0	1	30	NA
2-METHYLNAPHTHALENE	47	7	15	21	0.9J	130	10	10	--	--	NA	NA
2-METHYLPHENOL	47	0	0	--	--	--	10	100	0	0	1,800	NA
2-NITROANILINE	47	0	0	--	--	--	**25**	**250**	0	47	1	NA
2-NITROPHENOL	47	0	0	--	--	--	10	100	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	47	0	0	--	--	--	**10**	**100**	0	47	0.2	NA
3-NITROANILINE	47	0	0	--	--	--	25	250	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	47	0	0	--	--	--	25	250	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	47	0	0	--	--	--	10	100	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	47	1	2	0.7	0.7J	0.7J	10	100	--	--	NA	NA
4-CHLOROANILINE	47	0	0	--	--	--	10	100	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	47	0	0	--	--	--	10	100	--	--	NA	NA
4-METHYLPHENOL	47	0	0	--	--	--	10	100	0	0	180	NA

TABLE 6-6 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
4-NITROANILINE	47	0	0	--	--	--	25	250	--	--	NA	NA
4-NITROPHENOL	47	0	0	--	--	--	25	250	--	--	NA	NA
ACENAPHTHENE	47	0	0	--	--	--	10	100	0	0	370	NA
ACENAPHTHYLENE	47	0	0	--	--	--	10	100	--	--	NA	NA
ANTHRACENE	47	0	0	--	--	--	10	100	0	0	1,800	NA
BENZO(A)ANTHRACENE	47	0	0	--	--	--	**10**	**100**	0	47	0.09	0.1
BENZO(A)PYRENE	47	0	0	--	--	--	**10**	**100**	0	47	0.009	0.2
BENZO(B)FLUORANTHENE	47	0	0	--	--	--	**10**	**100**	0	47	0.09	NA
BENZO(G,H,I)PERYLENE	47	0	0	--	--	--	10	100	--	--	NA	NA
BENZO(K)FLUORANTHENE	47	0	0	--	--	--	**10**	**100**	0	47	0.06 (CAL-modified)	NA
BIS(2-CHLOROETHOXY)METHANE	47	0	0	--	--	--	10	100	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	47	0	0	--	--	--	**10**	**100**	0	47	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	47	0	0	--	--	--	4	**40**	0	3	5	NA
BUTYLBENZYLPHTHALATE	47	0	0	--	--	--	10	100	0	0	7,300	NA
CARBAZOLE	47	1	2	0.6	0.6J	0.6J	**10**	**100**	0	46	3	NA
CHRYSENE	47	0	0	--	--	--	**10**	**100**	0	47	0.6 (CAL-modified)	NA
DI-N-BUTYLPHTHALATE	47	0	0	--	--	--	10	100	--	--	NA	NA
DI-N-OCTYLPHTHALATE	47	0	0	--	--	--	10	100	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	47	0	0	--	--	--	**10**	**100**	0	47	0.009	NA
DIBENZOFURAN	47	0	0	--	--	--	10	**100**	0	1	24	NA
DIETHYLPHTHALATE	47	0	0	--	--	--	10	100	0	0	29,000	NA
DIMETHYLPHTHALATE	47	0	0	--	--	--	10	100	0	0	360,000	NA
FLUORANTHENE	47	0	0	--	--	--	10	100	0	0	1,500	NA
FLUORENE	47	3	6	0.9	0.8J	1J	10	100	0	0	240	NA
HEXACHLOROBENZENE	47	0	0	--	--	--	**10**	**100**	0	47	0.04	1
HEXACHLOROBUTADIENE	47	0	0	--	--	--	**10**	**100**	0	47	0.9	NA
HEXACHLOROCYCLOPENTADIENE	47	0	0	--	--	--	10	100	0	0	220	NA
HEXACHLOROETHANE	47	0	0	--	--	--	**10**	**100**	0	47	5	NA
INDENO(1,2,3-CD)PYRENE	47	0	0	--	--	--	**10**	**100**	0	47	0.09	NA
ISOPHORONE	47	0	0	--	--	--	10	**100**	0	1	71	NA
N-NITROSO-DI-N-PROPYLAMINE	47	0	0	--	--	--	**10**	**100**	0	47	0.01	NA

TABLE 6-6 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
N-NITROSODIPHENYLAMINE	47	1	2	0.7	0.7J	0.7J	10	**100**	0	1	**14**	NA
NAPHTHALENE	47	7	15	**36**	2J-	**200**	**10**	**10**	5	40	6	NA
NITROBENZENE	47	0	0	--	--	--	**10**	**100**	0	47	3	NA
PENTACHLOROPHENOL	47	2	4	**4**	**0.6J**	**7J**	**25**	**250**	2	45	0.6	1
PHENANTHRENE	47	0	0	--	--	--	10	100	--	--	NA	NA
PHENOL	47	2	4	4	0.9J	8J	10	10	0	0	22,000	NA
PYRENE	47	0	0	--	--	--	10	100	0	0	180	NA
PCBs/Pesticides (µg/L)												
4,4'-DDD	40	0	0	--	--	--	0.1	0.2	0	0	0.3	NA
4,4'-DDE	40	0	0	--	--	--	0.1	0.2	0	0	0.2	NA
4,4'-DDT	40	0	0	--	--	--	0.1	0.2	0	0	0.2	NA
ALDRIN	40	0	0	--	--	--	**0.05**	**0.1**	0	40	0.004	NA
ALPHA-BHC	40	0	0	--	--	--	0.05	0.1	--	--	NA	NA
ALPHA-CHLORDANE	40	0	0	--	--	--	0.05	0.1	0	0	0.2 (chlordane)	NA
AROCLOR-1016	40	0	0	--	--	--	0.5	**1**	0	1	1	NA
AROCLOR-1221	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
AROCLOR-1232	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
AROCLOR-1242	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
AROCLOR-1248	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
AROCLOR-1254	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
AROCLOR-1260	40	0	0	--	--	--	**0.5**	**1**	0	40	0.03	NA
BETA-BHC	40	0	0	--	--	--	0.05	0.1	--	--	NA	NA
DELTA-BHC	40	0	0	--	--	--	0.05	0.1	--	--	NA	NA
DIELDRIN	40	0	0	--	--	--	**0.1**	**0.2**	0	40	0.004	NA
ENDOSULFAN I	40	0	0	--	--	--	0.05	0.1	0	0	220	NA
ENDOSULFAN II	40	0	0	--	--	--	0.1	0.2	--	--	NA	NA
ENDOSULFAN SULFATE	40	0	0	--	--	--	0.1	0.2	--	--	NA	NA
ENDRIN	40	0	0	--	--	--	0.1	0.2	0	0	11	2
ENDRIN ALDEHYDE	40	0	0	--	--	--	0.1	0.2	--	--	NA	NA
ENDRIN KETONE	40	0	0	--	--	--	0.1	0.2	--	--	NA	NA

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PCBs/Pesticides (µg/L)												
GAMMA-BHC (LINDANE)	40	0	0	--	--	--	0.05	0.1	--	--	NA	NA
GAMMA-CHLORDANE	40	0	0	--	--	--	0.05	0.1	0	0	0.2 (chlordane)	NA
HEPTACHLOR	40	0	0	--	--	--	**0.05**	**0.1**	0	40	0.02	0.01
HEPTACHLOR EPOXIDE	40	0	0	--	--	--	**0.01**	**0.02**	0	40	0.007	0.01
METHOXYCHLOR	40	0	0	--	--	--	0.5	1	0	0	180	30
TOXAPHENE	40	0	0	--	--	--	**3**	**6**	0	40	0.06	3
Metals (µg/L)												
Filtered												
ALUMINUM	58	8	14	80.2	25.0J	297	8.4	1,230	0	0	36,000	NA
ANTIMONY	51	5	10	5.8	3.1	8.6J	2.2	11.2	0	0	15.0	6.0
ARSENIC	51	20	39	**12.1**	**4.5J**	**38.9**	**2.6**	**13.6**	20	31	0.045	10.0
BARIUM	58	48	83	102	7.6J	421	6.7	49.5	0	0	2,600	1,000
BERYLLIUM	51	14	27	1.5	1.0J	2.2J	0.10	1.1	0	0	73.0	4.0
CADMIUM	51	6	12	0.84	0.39J	1.7J	0.30	0.80	0	0	18.0	5.0
CALCIUM	58	57	98	79,400	9,590	253,000	89.8	89.8	--	--	NA	NA
CHROMIUM	51	9	18	2.6	1.1J	4.0J	0.40	3.2	--	--	NA	50.0
COBALT	51	1	2	4.2	4.2J	4.2J	3.8	7.7	0	0	730	NA
COPPER	58	2	3	15.4	3.3	27.5	2.5	42.5	0	0	1,500	1,300
IRON	58	26	45	3,280	9.3J	**30,900**	3.2	429	1	0	11,000	NA
LEAD	51	1	2	1.1	1.1J	1.1J	1.0	8.4	--	--	NA	15.0
MAGNESIUM	58	57	98	42,600	110J	177,000J	32.4	32.4	--	--	NA	NA
MANGANESE	58	56	97	1,520	2.5J	**11,000**	1.2	2.0	21	0	880	NA
MERCURY	51	1	2	0.22	0.22J	0.22J	0.20	0.20	0	0	11.0	2.0
MOLYBDENUM	51	4	8	39.7	9.1J	106J	7.9	28.6	0	0	180	NA
NICKEL	51	3	6	11.0	8.2J	14.7J	7.5	16.3	0	0	730	100
POTASSIUM	58	53	91	9,460	1,030J	69,200	763	2,340	--	--	NA	NA
SELENIUM	51	0	0	--	--	--	2.4	6.0	0	0	180	50.0
SILVER	50	0	0	--	--	--	0.90	4.6	0	0	180	NA
SODIUM	58	58	100	196,000	351J	1,560,000	0.0	0.0	--	--	NA	NA
THALLIUM	51	2	4	**7.0**	**4.0J**	**10.0J**	2.3	**7.6**	2	43	2.4	2.0
VANADIUM	51	4	8	9.7	7.7J	12.1J	3.7	13.9	0	0	260	NA

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Follow-on Investigation, 1994

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Metals (µg/L)												
Filtered												
ZINC	58	6	10	22.3	5.8J	68.2	2.2	42.4	0	0	11,000	NA

NOTES:

Bold denotes values elevated above the PRG

-- Not detected
BHC Benzene Hexachloride
DDD Dichlorodiphenyldichloroethane
DDE Dichlorodiphenyldichloroethene
DDT Dichlorodiphenyltrichloroethane
J Estimated value
MCL Maximum Contaminant Level
NA No criteria available
PCB *Polychlorinated biphenyl*
PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/L Micrograms per liter

TABLE 6-7: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
1,1,1-TRICHLOROETHANE	8	0	0	--	--	--	1	1	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	8	0	0	--	--	--	1	1	0	8	0.06	1
1,1,2-TRICHLOROETHANE	8	0	0	--	--	--	1	1	0	8	0.2	5
1,1-DICHLOROETHANE	8	0	0	--	--	--	1	1	0	0	2 (CAL-modified)	5
1,1-DICHLOROETHENE	8	0	0	--	--	--	1	1	0	0	340	6
1,2,4-TRICHLOROBENZENE	8	0	0	--	--	--	1	1	0	0	190	5
1,2-DIBROMO-3-CHLOROPROPANE	8	0	0	--	--	--	1	1	0	8	0.002 (CAL-modified)	0.2
1,2-DICHLOROBENZENE	8	0	0	--	--	--	1	1	0	0	370	600
1,2-DICHLOROETHANE	8	0	0	--	--	--	0.5	0.5	0	8	0.1	0.5
1,2-DICHLOROPROPANE	8	0	0	--	--	--	1	1	0	8	0.2	5
1,3-DICHLOROBENZENE	8	0	0	--	--	--	1	1	0	0	6	NA
1,4-DICHLOROBENZENE	8	0	0	--	--	--	1	1	0	8	0.5	5
2-HEXANONE	4	0	0	--	--	--	5	5	--	--	NA	NA
4-METHYL-2-PENTANONE	8	0	0	--	--	--	5	5	--	--	NA	NA
BENZENE	8	0	0	--	--	--	0.5	0.5	0	8	0.3	1
BROMOCHLOROMETHANE	8	0	0	--	--	--	1	1	--	--	NA	NA
BROMODICHLOROMETHANE	8	0	0	--	--	--	1	1	0	8	0.2	80
BROMOFORM	8	0	0	--	--	--	1	1	0	0	9	80
BROMOMETHANE	8	0	0	--	--	--	1	1	0	0	9	NA
CARBON DISULFIDE	8	0	0	--	--	--	1	1	0	0	1,000	NA
CARBON TETRACHLORIDE	8	0	0	--	--	--	0.5	0.5	0	8	0.2	0.5
CHLOROBENZENE	8	0	0	--	--	--	1	1	0	0	110	70
CHLOROETHANE	8	0	0	--	--	--	1	1	0	0	5	NA
CHLOROFORM	8	0	0	--	--	--	1	1	0	8	0.5 (CAL-modified)	80
CHLOROMETHANE	8	0	0	--	--	--	1	1	0	0	2	NA
CIS-1,2-DICHLOROETHENE	8	0	0	--	--	--	1	1	0	0	61	6
CIS-1,3-DICHLOROPROPENE	8	0	0	--	--	--	0.5	0.5	0	8	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	8	0	0	--	--	--	1	1	0	8	0.1	80
ETHYLBENZENE	8	0	0	--	--	--	1	1	0	0	3	300
ETHYLENE DIBROMIDE	8	0	0	--	--	--	1	1	--	--	NA	0.05
METHYLENE CHLORIDE	8	0	0	--	--	--	2	2	0	0	4	NA

TABLE 6-7: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
STYRENE	8	0	0	--	--	--	1	1	0	0	1,600	100
TETRACHLOROETHENE	8	0	0	--	--	--	1	1	0	8	0.7	5
TOLUENE	8	0	0	--	--	--	1	1	0	0	720	150
TRANS-1,2-DICHLOROETHENE	8	0	0	--	--	--	1	1	0	0	120	10
TRANS-1,3-DICHLOROPROPENE	8	0	0	--	--	--	0.5	0.5	0	8	0.4 (not trans)	0.5
TRICHLOROETHENE	8	0	0	--	--	--	1	1	0	8	0.03	5
VINYL CHLORIDE	8	0	0	--	--	--	0.5	0.5	0	8	0.02 (child or adult)	0.5
XYLENE (TOTAL)	8	0	0	--	--	--	1	1	0	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	4	0	0	--	--	--	10	10	0	0	190	5
1,2-DICHLOROBENZENE	4	0	0	--	--	--	5	5	0	0	370	600
1,3-DICHLOROBENZENE	4	0	0	--	--	--	5	5	0	0	6	NA
1,4-DICHLOROBENZENE	4	0	0	--	--	--	5	5	0	4	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	4	0	0	--	--	--	10	10	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	4	0	0	--	--	--	25	25	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	4	0	0	--	--	--	10	10	0	4	1 (CAL-modified)	NA
2,4-DICHLOROPHENOL	4	0	0	--	--	--	10	10	0	0	110	NA
2,4-DIMETHYLPHENOL	4	0	0	--	--	--	10	10	0	0	730	NA
2,4-DINITROPHENOL	4	0	0	--	--	--	25	25	0	0	73	NA
2,4-DINITROTOLUENE	4	0	0	--	--	--	10	10	0	0	73	NA
2,6-DINITROTOLUENE	4	0	0	--	--	--	10	10	0	0	36	NA
2-CHLORONAPHTHALENE	4	0	0	--	--	--	10	10	--	--	NA	NA
2-CHLOROPHENOL	4	0	0	--	--	--	10	10	0	0	30	NA
2-METHYLNAPHTHALENE	4	0	0	--	--	--	10	10	--	--	NA	NA
2-METHYLPHENOL	4	0	0	--	--	--	10	10	0	0	1,800	NA
2-NITROANILINE	4	0	0	--	--	--	25	25	0	4	1	NA
2-NITROPHENOL	4	0	0	--	--	--	10	10	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	4	0	0	--	--	--	10	10	0	4	0.2	NA
3-NITROANILINE	4	0	0	--	--	--	25	25	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	4	0	0	--	--	--	25	25	--	--	NA	NA

TABLE 6-7: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
4-BROMOPHENYL-PHENYLETHER	4	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	4	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLOROANILINE	4	0	0	--	--	--	10	10	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	4	0	0	--	--	--	10	10	--	--	NA	NA
4-METHYLPHENOL	4	0	0	--	--	--	10	10	0	0	180	NA
4-NITROANILINE	4	0	0	--	--	--	25	25	--	--	NA	NA
4-NITROPHENOL	4	0	0	--	--	--	25	25	--	--	NA	NA
ACENAPHTHENE	4	0	0	--	--	--	10	10	0	0	370	NA
ACENAPHTHYLENE	4	0	0	--	--	--	10	10	--	--	NA	NA
ANTHRACENE	4	0	0	--	--	--	10	10	0	0	1,800	NA
BENZO(A)ANTHRACENE	4	0	0	--	--	--	**10**	**10**	0	4	0.09	0.1
BENZO(A)PYRENE	4	0	0	--	--	--	**10**	**10**	0	4	0.009	0.2
BENZO(B)FLUORANTHENE	4	0	0	--	--	--	**10**	**10**	0	4	0.09	NA
BENZO(G,H,I)PERYLENE	4	0	0	--	--	--	10	10	--	--	NA	NA
BENZO(K)FLUORANTHENE	4	0	0	--	--	--	**10**	**10**	0	4	0.06 (CAL-modified)	NA
BIS(2-CHLOROETHOXY)METHANE	4	0	0	--	--	--	10	10	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	4	0	0	--	--	--	**10**	**10**	0	4	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	4	0	0	--	--	--	4	4	0	0	5	NA
BUTYLBENZYLPHTHALATE	4	0	0	--	--	--	10	10	0	0	7,300	NA
CARBAZOLE	4	0	0	--	--	--	**10**	**10**	0	4	3	NA
CHRYSENE	4	0	0	--	--	--	**10**	**10**	0	4	0.6 (CAL-modified)	NA
DI-N-BUTYLPHTHALATE	4	0	0	--	--	--	10	10	--	--	NA	NA
DI-N-OCTYLPHTHALATE	4	0	0	--	--	--	10	10	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	4	0	0	--	--	--	**10**	**10**	0	4	0.009	NA
DIBENZOFURAN	4	0	0	--	--	--	10	10	0	0	24	NA
DIETHYLPHTHALATE	4	0	0	--	--	--	10	10	0	0	29,000	NA
DIMETHYLPHTHALATE	4	0	0	--	--	--	10	10	0	0	360,000	NA
FLUORANTHENE	4	0	0	--	--	--	10	10	0	0	1,500	NA
FLUORENE	4	0	0	--	--	--	10	10	0	0	240	NA
HEXACHLOROBENZENE	4	0	0	--	--	--	**10**	**10**	0	4	0.04	1
HEXACHLOROBUTADIENE	4	0	0	--	--	--	**10**	**10**	0	4	0.9	NA

TABLE 6-7: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
HEXACHLOROCYCLOPENTADIENE	4	0	0	--	--	--	10	10	0	0	220	NA
HEXACHLOROETHANE	4	0	0	--	--	--	**10**	**10**	0	4	5	NA
INDENO(1,2,3-CD)PYRENE	4	0	0	--	--	--	**10**	**10**	0	4	0.09	NA
ISOPHORONE	4	0	0	--	--	--	10	10	0	0	71	NA
N-NITROSO-DI-N-PROPYLAMINE	4	0	0	--	--	--	**10**	**10**	0	4	0.01	NA
N-NITROSODIPHENYLAMINE	4	0	0	--	--	--	10	10	0	0	14	NA
NAPHTHALENE	4	0	0	--	--	--	**10**	**10**	0	4	6	NA
NITROBENZENE	4	0	0	--	--	--	**10**	**10**	0	4	3	NA
PENTACHLOROPHENOL	4	0	0	--	--	--	**25**	**25**	0	4	0.6	1
PHENANTHRENE	4	0	0	--	--	--	10	10	--	--	NA	NA
PHENOL	4	0	0	--	--	--	10	10	0	0	22,000	NA
PYRENE	4	0	0	--	--	--	10	10	0	0	180	NA
Metals (µg/L)												
Filtered												
ALUMINUM	6	2	33	231	206	255	12.2	51.1	0	0	36,000	NA
ANTIMONY	6	0	0	--	--	--	0.65	1.5	0	0	15.0	6.0
ARSENIC	6	3	50	**5.3**	**1.4J**	**7.9**	**0.80**	**5.0**	3	3	0.045	10.0
BARIUM	6	6	100	144	39.5J	321	0.0	0.0	0	0	2,600	1,000
BERYLLIUM	6	0	0	--	--	--	0.10	0.15	0	0	73.0	4.0
CADMIUM	6	2	33	0.37	0.22J	0.51J	0.15	0.40	0	0	18.0	5.0
CALCIUM	6	6	100	50,700	31,700	62,200	0.0	0.0	--	--	NA	NA
CHROMIUM	6	2	33	1.2	1.1J	1.3J	0.30	1.1	--	--	NA	50.0
COBALT	6	2	33	1.8	1.2J	2.3J	0.25	1.5	0	0	730	NA
COPPER	6	0	0	--	--	--	0.65	3.7	0	0	1,500	1,300
IRON	6	5	83	1,320	104	4,870	44.1	44.1	0	0	11,000	NA
LEAD	6	0	0	--	--	--	0.50	1.1	--	--	NA	15.0
MAGNESIUM	6	6	100	18,400	8,580	24,200	0.0	0.0	--	--	NA	NA
MANGANESE	6	5	83	1,660	77.7	**3,090**	2.8	2.8	3	0	880	NA
MERCURY	6	0	0	--	--	--	0.10	0.10	0	0	11.0	2.0
MOLYBDENUM	6	1	17	2.6	2.6J	2.6J	0.25	2.6	0	0	180	NA
NICKEL	6	2	33	2.8	1.8J	3.8J	1.3	6.3	0	0	730	100

TABLE 6-7: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Metals (µg/L)												
Filtered												
POTASSIUM	6	6	100	5,740	1,970J	10,500	0.0	0.0	--	--	NA	NA
SELENIUM	5	2	40	1.4	1.2J	1.6J	0.80	0.85	0	0	180	50.0
SILVER	6	2	33	0.50	0.31J	0.68J	0.15	0.35	0	0	180	NA
SODIUM	6	6	100	28,700	12,600	48,100	0.0	0.0	--	--	NA	NA
THALLIUM	6	0	0	--	--	--	0.90	1.4	0	0	2.4	2.0
VANADIUM	6	1	17	2.8	2.8J	2.8J	0.30	1.8	0	0	260	NA
ZINC	6	4	67	60.7	8.5J	118	10.2	13.0	0	0	11,000	NA

NOTES:

Bold denotes values elevated above the PRG

-- Not detected

J Estimated value

MCL *Maximum Contaminant Level*

NA No criteria available

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

µg/L Micrograms per liter

TABLE 6-8 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
1,1,1,2-TETRACHLOROETHANE	2	0	0	--	--	--	1	1	0	2	0.4	NA
1,1,1-TRICHLOROETHANE	16	0	0	--	--	--	1	4	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	16	0	0	--	--	--	1	2	0	16	0.06	1
1,1,2-TRICHLOROETHANE	16	0	0	--	--	--	1	4	0	16	0.2	5
1,1-DICHLOROETHANE	16	0	0	--	--	--	0.5	1	0	0	2 (CAL-modified)	5
1,1-DICHLOROETHENE	16	0	0	--	--	--	1	4	0	0	340	6
1,2-DICHLOROBENZENE	16	1	6	0.4	0.4J	0.4J	1	4	0	0	370	600
1,2-DICHLOROETHANE	16	0	0	--	--	--	0.5	1	0	16	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	14	0	0	--	--	--	2	4	0	0	61 (cis)	NA
1,2-DICHLOROPROPANE	14	0	0	--	--	--	2	4	0	14	0.2	5
1,3-DICHLOROBENZENE	16	0	0	--	--	--	1	4	0	0	6	NA
1,4-DICHLOROBENZENE	16	1	6	0.4	0.4J	0.4J	1	4	0	15	0.5	5
2-BUTANONE	14	0	0	--	--	--	1	4	--	--	NA	NA
2-HEXANONE	14	0	0	--	--	--	2	4	--	--	NA	NA
4-METHYL-2-PENTANONE	14	0	0	--	--	--	2	4	--	--	NA	NA
ACETONE	14	0	0	--	--	--	3	29	0	0	610	NA
BENZENE	16	0	0	--	--	--	0.5	1	0	16	0.3	1
BROMODICHLOROMETHANE	14	0	0	--	--	--	2	4	0	14	0.2	80
BROMOFORM	14	0	0	--	--	--	2	4	0	0	9	80
BROMOMETHANE	14	0	0	--	--	--	2	4	0	0	9	NA
CARBON DISULFIDE	14	1	7	0.5	0.5J	0.5J	2	4	0	0	1,000	NA
CARBON TETRACHLORIDE	14	0	0	--	--	--	0.5	1	0	14	0.2	0.5
CHLOROBENZENE	16	1	6	0.6	0.6J	0.6J	1	4	0	0	110	70
CHLOROETHANE	16	0	0	--	--	--	1	4	0	0	5	NA
CHLOROFORM	14	0	0	--	--	--	2	4	0	14	0.5 (CAL-modified)	80
CHLOROMETHANE	16	0	0	--	--	--	1	4	0	14	2	NA
CIS-1,2-DICHLOROETHENE	2	0	0	--	--	--	1	1	0	0	61	6
CIS-1,3-DICHLOROPROPENE	14	0	0	--	--	--	0.5	1	0	14	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	14	0	0	--	--	--	2	4	0	14	0.1	80
ETHYLBENZENE	16	0	0	--	--	--	1	4	0	1	3	300
M,P-XYLENE	2	0	0	--	--	--	1	1	0	0	210 (xylenes)	NA

TABLE 6-8 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
METHYL-T-BUTYL ETHER	16	0	0	--	--	--	1	10	0	1	6 (CAL-modified)	13
METHYLENE CHLORIDE	16	0	0	--	--	--	1	4	0	0	4	NA
NAPHTHALENE	2	0	0	--	--	--	1	1	0	0	6	NA
O-XYLENE	2	0	0	--	--	--	1	1	0	0	210 (xylenes)	NA
STYRENE	14	0	0	--	--	--	2	4	0	0	1,600	100
TETRACHLOROETHENE	16	0	0	--	--	--	1	4	0	16	0.7	5
TOLUENE	16	0	0	--	--	--	1	4	0	0	720	150
TRANS-1,2-DICHLOROETHENE	2	0	0	--	--	--	1	1	0	0	120	10
TRANS-1,3-DICHLOROPROPENE	14	0	0	--	--	--	0.5	1	0	14	0.4 (not trans)	0.5
TRICHLOROETHENE	16	1	6	0.6	0.6J	0.6J	1	4	1	15	0.03	5
VINYL CHLORIDE	16	0	0	--	--	--	0.5	1	0	16	0.02 (child or adult)	0.5
XYLENE (TOTAL)	14	1	7	0.3	0.3J	0.3J	2	4	0	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	14	0	0	--	--	--	10	10	0	0	190	5
1,2-DICHLOROBENZENE	14	0	0	--	--	--	5	5	0	0	370	600
1,3-DICHLOROBENZENE	14	0	0	--	--	--	5	5	0	0	6	NA
1,4-DICHLOROBENZENE	14	0	0	--	--	--	5	5	0	14	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	14	0	0	--	--	--	10	10	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	14	0	0	--	--	--	25	25	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	14	0	0	--	--	--	10	10	0	14	1 (CAL-modified)	NA
2,4-DICHLOROPHENOL	14	0	0	--	--	--	10	10	0	0	110	NA
2,4-DIMETHYLPHENOL	14	0	0	--	--	--	10	10	0	0	730	NA
2,4-DINITROPHENOL	14	0	0	--	--	--	25	50	0	0	73	NA
2,4-DINITROTOLUENE	14	0	0	--	--	--	10	10	0	0	73	NA
2,6-DINITROTOLUENE	14	0	0	--	--	--	10	10	0	0	36	NA
2-CHLORONAPHTHALENE	14	0	0	--	--	--	10	10	--	--	NA	NA
2-CHLOROPHENOL	14	0	0	--	--	--	10	10	0	0	30	NA
2-METHYLNAPHTHALENE	14	1	7	41	41	41	10	10	--	--	NA	NA
2-METHYLPHENOL	14	0	0	--	--	--	10	10	0	0	1,800	NA
2-NITROANILINE	14	0	0	--	--	--	25	25	0	14	1	NA

TABLE 6-8 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
2-NITROPHENOL	14	0	0	--	--	--	10	10	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	14	0	0	--	--	--	**12**	**12**	0	14	0.2	NA
3-NITROANILINE	14	0	0	--	--	--	25	25	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	14	0	0	--	--	--	25	25	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	14	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	14	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLOROANILINE	14	0	0	--	--	--	17	19	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	14	0	0	--	--	--	10	10	--	--	NA	NA
4-METHYLPHENOL	14	0	0	--	--	--	10	10	0	0	180	NA
4-NITROANILINE	14	0	0	--	--	--	25	25	--	--	NA	NA
4-NITROPHENOL	14	0	0	--	--	--	25	25	--	--	NA	NA
ACENAPHTHENE	14	0	0	--	--	--	10	10	0	0	370	NA
ACENAPHTHYLENE	14	0	0	--	--	--	10	10	--	--	NA	NA
ANTHRACENE	14	0	0	--	--	--	10	10	0	0	1,800	NA
BENZO(A)ANTHRACENE	14	0	0	--	--	--	**10**	**10**	0	14	0.09	0.1
BENZO(A)PYRENE	14	0	0	--	--	--	**0.2**	**3**	0	14	0.009	0.2
BENZO(B)FLUORANTHENE	14	0	0	--	--	--	**10**	**10**	0	14	0.09	NA
BENZO(G,H,I)PERYLENE	14	0	0	--	--	--	10	10	--	--	NA	NA
BENZO(K)FLUORANTHENE	14	0	0	--	--	--	**10**	**10**	0	14	0.06 (CAL-modified)	NA
BIS(2-CHLOROETHOXY)METHANE	14	0	0	--	--	--	10	10	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	14	0	0	--	--	--	**10**	**10**	0	14	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	14	0	0	--	--	--	4	4	0	0	5	NA
BUTYLBENZYLPHTHALATE	14	0	0	--	--	--	10	10	0	0	7,300	NA
CARBAZOLE	14	0	0	--	--	--	**10**	**14**	0	14	3	NA
CHRYSENE	14	0	0	--	--	--	**10**	**10**	0	14	0.6 (CAL-modified)	NA
DI-N-BUTYLPHTHALATE	14	0	0	--	--	--	10	10	--	--	NA	NA
DI-N-OCTYLPHTHALATE	14	0	0	--	--	--	10	10	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	14	0	0	--	--	--	**20**	**20**	0	14	0.009	NA
DIBENZOFURAN	14	0	0	--	--	--	10	10	0	0	24	NA
DIETHYLPHTHALATE	14	0	0	--	--	--	10	10	0	0	29,000	NA
DIMETHYLPHTHALATE	14	0	0	--	--	--	10	10	0	0	360,000	NA

TABLE 6-8 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
FLUORANTHENE	14	0	0	--	--	--	10	10	0	0	1,500	NA
FLUORENE	14	0	0	--	--	--	10	10	0	0	240	NA
HEXACHLOROBENZENE	14	0	0	--	--	--	**10**	**10**	0	14	0.04	1
HEXACHLOROBUTADIENE	14	0	0	--	--	--	**10**	**10**	0	14	0.9	NA
HEXACHLOROCYCLOPENTADIENE	14	0	0	--	--	--	11	16	0	0	220	NA
HEXACHLOROETHANE	14	0	0	--	--	--	**10**	**10**	0	14	5	NA
INDENO(1,2,3-CD)PYRENE	14	0	0	--	--	--	**10**	**10**	0	14	0.09	NA
ISOPHORONE	14	0	0	--	--	--	10	10	0	0	71	NA
N-NITROSO-DI-N-PROPYLAMINE	14	0	0	--	--	--	**10**	**10**	0	14	0.01	NA
N-NITROSODIPHENYLAMINE	14	0	0	--	--	--	10	**18**	0	9	14	NA
NAPHTHALENE	14	1	7	**89**	**89**	**89**	**10**	**10**	1	13	6	NA
NITROBENZENE	14	0	0	--	--	--	**10**	**10**	0	14	3	NA
PENTACHLOROPHENOL	14	0	0	--	--	--	**25**	**25**	0	14	0.6	1
PHENANTHRENE	14	0	0	--	--	--	10	10	--	--	NA	NA
PHENOL	14	0	0	--	--	--	10	10	0	0	22,000	NA
PYRENE	14	0	0	--	--	--	10	10	0	0	180	NA
Polynuclear Aromatic Hydrocarbons (µg/L)												
ACENAPHTHENE	13	1	8	61	61	61	5	5	0	0	370	NA
ACENAPHTHYLENE	13	0	0	--	--	--	2	10	--	--	NA	NA
ANTHRACENE	13	0	0	--	--	--	0.2	1	0	0	1,800	NA
BENZO(A)ANTHRACENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	0.1
BENZO(A)PYRENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.009	0.2
BENZO(B)FLUORANTHENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	NA
BENZO(G,H,I)PERYLENE	13	1	8	0.6	0.6	0.6	0.2	1	--	--	NA	NA
BENZO(K)FLUORANTHENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.06 (CAL-modified)	NA
CHRYSENE	13	1	8	0.5	0.5	0.5	0.2	**1**	0	1	0.6 (CAL-modified)	NA
DIBENZO(A,H)ANTHRACENE	13	1	8	**0.5**	**0.5J**	**0.5J**	**0.5**	**3**	1	12	0.009	NA
FLUORANTHENE	13	1	8	0.2	0.2J	0.2J	0.2	1	0	0	1,500	NA
FLUORENE	13	0	0	--	--	--	1	5	0	0	240	NA
INDENO(1,2,3-CD)PYRENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	NA

TABLE 6-8 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Polynuclear Aromatic Hydrocarbons (µg/L)												
NAPHTHALENE	13	1	8	**60**	**60**	**60**	5	5	1	0	6	NA
PHENANTHRENE	13	0	0	--	--	--	1	5	--	--	NA	NA
PYRENE	13	1	8	0.1	0.1J	0.1J	0.2	1	0	0	180	NA

NOTES

Bold denotes values elevated above the PRG

-- Not detected

J Estimated value

MCL Maximum Contaminant Level

NA No criteria available

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

µg/L Micrograms per liter

TABLE 6-9 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
1,1,1,2-TETRACHLOROETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.4	NA
1,1,1-TRICHLOROETHANE	22	0	0	--	--	--	0.5	0.5	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.06	1
1,1,2-TRICHLOROETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.2	5
1,1-DICHLOROETHANE	22	0	0	--	--	--	0.5	0.5	0	0	2 (CAL-modified)	5
1,1-DICHLOROETHENE	22	0	0	--	--	--	0.5	0.5	0	0	340	6
1,1-DICHLOROPROPENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,2,3-TRICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,2,3-TRICHLOROPROPANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.006	NA
1,2,4-TRICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	190	5
1,2,4-TRIMETHYLBENZENE	22	1	5	2	2	2	0.5	0.5	0	0	12	NA
1,2-DIBROMO-3-CHLOROPROPANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.002 (CAL-modified)	0.2
1,2-DICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	370	600
1,2-DICHLOROETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.1	0.5
1,2-DICHLOROPROPANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.2	5
1,3,5-TRIMETHYLBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	12	NA
1,3-DICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	6	NA
1,3-DICHLOROPROPANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,4-DICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	0.5	5
2,2-DICHLOROPROPANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
2-BUTANONE	22	0	0	--	--	--	10	10	--	--	NA	NA
2-CHLOROTOLUENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
2-HEXANONE	22	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLOROTOLUENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
4-METHYL-2-PENTANONE	22	0	0	--	--	--	10	10	--	--	NA	NA
ACETONE	22	9	41	18	0.7J	99J	0.4	10	0	0	610	NA
BENZENE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.3	1
BROMOBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	20	NA
BROMOCHLOROMETHANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
BROMODICHLOROMETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.2	80
BROMOFORM	22	0	0	--	--	--	1	1	0	0	9	80

TABLE 6-9 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
BROMOMETHANE	22	2	9	0.6	0.5J	0.6J	1	1	0	0	9	NA
CARBON DISULFIDE	22	2	9	0.8	0.3J	1	0.5	0.5	0	0	1,000	NA
CARBON TETRACHLORIDE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.2	0.5
CHLOROBENZENE	22	1	5	0.2	0.2J	0.2J	0.5	0.5	0	0	110	70
CHLOROETHANE	22	0	0	--	--	--	1	1	0	0	5	NA
CHLOROFORM	22	0	0	--	--	--	0.5	0.5	0	0	0.5 (CAL-modified)	80
CHLOROMETHANE	22	1	5	0.3	0.3J	0.3J	1	1	0	0	2	NA
CIS-1,2-DICHLOROETHENE	22	0	0	--	--	--	0.5	0.5	0	0	61	6
DIBROMOCHLOROMETHANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.1	80
DIBROMOMETHANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
DICHLORODIFLUOROMETHANE	22	0	0	--	--	--	1	1	0	0	390	NA
DIISOPROPYL ETHER	22	1	5	0.8	0.8J	0.8J	0.5	0.5	--	--	NA	NA
ETHYL TERT-BUTYL ETHER	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
ETHYLBENZENE	22	1	5	1	1	1	0.2	0.5	0	0	3	300
ETHYLENE DIBROMIDE	22	0	0	--	--	--	0.5	0.5	--	--	NA	0.05
HEXACHLOROBUTADIENE	22	0	0	--	--	--	0.5	0.5	0	0	0.9	NA
ISOPROPYLBENZENE	22	4	18	1	0.3J	3	0.5	0.5	--	--	NA	NA
M,P-XYLENE	22	1	5	2	2	2	0.5	0.5	0	0	210 (xylenes)	NA
METHYL-T-BUTYL ETHER	22	0	0	--	--	--	0.1	0.5	0	0	6 (CAL-modified)	13
METHYLENE CHLORIDE	22	0	0	--	--	--	0.1	**5**	0	18	4	NA
N-BUTYLBENZENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
N-PROPYLBENZENE	22	3	14	0.6	0.3J	0.8	0.5	0.5	0	0	240	NA
NAPHTHALENE	22	5	23	**83**	1J	**210**	2	2	3	0	6	NA
O-XYLENE	22	1	5	0.2	0.2J	0.2J	0.5	0.5	0	0	210 (xylenes)	NA
P-ISOPROPYLTOLUENE	22	3	14	0.3	0.2J	0.3J	0.5	0.5	--	--	NA	NA
SEC-BUTYLBENZENE	22	3	14	0.9	0.2J	1	0.5	0.5	0	0	240	NA
STYRENE	22	0	0	--	--	--	0.5	0.5	0	0	1,600	100
TERT-AMYL METHYL ETHER	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
TERT-BUTANOL	22	1	5	4	4J	4J	10	20	--	--	NA	NA
TERT-BUTYLBENZENE	22	2	9	0.7	0.5J	0.8	0.5	0.5	0	0	240	NA
TETRACHLOROETHENE	22	0	0	--	--	--	0.5	0.5	0	0	0.7	5

TABLE 6-9 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
TOLUENE	22	0	0	--	--	--	0.5	0.5	0	0	720	150
TRANS-1,2-DICHLOROETHENE	22	0	0	--	--	--	0.5	0.5	0	0	120	10
TRICHLOROETHENE	22	3	14	**0.6**	**0.2J**	**1**	**0.5**	**0.5**	3	19	0.03	5
TRICHLOROFLUOROMETHANE	22	0	0	--	--	--	1	1	--	--	NA	NA
VINYL CHLORIDE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.02 (child or adult)	0.5
Metals (µg/L)												
Filtered												
ALUMINUM	18	12	67	50.8	4.6J	260	100	100	0	0	36,000	NA
ANTIMONY	18	13	72	0.22	0.051J	0.54J	0.093	**50.0**	0	1	15.0	6.0
ARSENIC	18	16	89	**15.4**	**0.21J**	**96.0**	**1.4**	**1.7**	16	2	0.045	10.0
BARIUM	18	18	100	159	37.0	530	0.0	0.0	0	0	2,600	1,000
BERYLLIUM	18	1	6	0.14	0.14J	0.14J	2.0	2.0	0	0	73.0	4.0
CADMIUM	18	2	11	0.16	0.065J	0.26J	0.069	5.0	0	0	18.0	5.0
CALCIUM	18	18	100	82,600	14,000	230,000	0.0	0.0	--	--	NA	NA
CHROMIUM	18	12	67	1.9	0.090J	7.2J	10.0	10.0	--	--	NA	50.0
COBALT	18	14	78	2.7	0.10J	27.0	0.093	1.6	0	0	730	NA
COPPER	18	17	94	3.0	0.57J	21.0	10.0	10.0	0	0	1,500	1,300
IRON	18	14	78	11,900	7.4J	**60,000**	79.0	140	4	0	11,000	NA
LEAD	18	6	33	1.5	0.13J	6.7	0.022	3.0	--	--	NA	15.0
MAGNESIUM	18	18	100	40,900	12,000	150,000	0.0	0.0	--	--	NA	NA
MANGANESE	18	18	100	2,010	1.4J	**7,800**	0.0	0.0	10	0	880	NA
MERCURY	18	2	11	0.049	0.046J	0.052J	0.20	0.20	0	0	11.0	2.0
MOLYBDENUM	18	8	44	1.5	0.41J	3.3J	0.56	20.0	0	0	180	NA
NICKEL	18	8	44	3.9	1.6J	7.7J	20.0	20.0	0	0	730	100
POTASSIUM	18	18	100	6,170	680	29,000	0.0	0.0	--	--	NA	NA
SELENIUM	18	6	33	1.0	0.36J	2.4J	5.0	5.0	0	0	180	50.0
SILVER	18	2	11	0.063	0.037J	0.089J	0.10	5.0	0	0	180	NA
SODIUM	18	18	100	75,200	31,000	140,000	0.0	0.0	--	--	NA	NA
THALLIUM	18	0	0	--	--	--	0.037	2.0	0	0	2.4	2.0
VANADIUM	18	15	83	3.6	0.33J	11.0	10.0	10.0	0	0	260	NA
ZINC	18	13	72	8.7	0.84J	25.0J	20.0	20.0	0	0	11,000	NA

TABLE 6-9 SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

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NOTES:

Bold denotes values elevated above the PRG

--	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
NA	No criteria available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/L	Micrograms per liter

TABLE 6-10: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES

Basewide Polynuclear Aromatic Hydrocarbon Investigation, 2003

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Polynuclear Aromatic Hydrocarbons (mg/kg)											
2-METHYLNAPHTHALENE	323	160	50	38	0.001 J	1,700	0.005	55	--	--	NA
ACENAPHTHENE	323	66	20	19	0.003 J	350	0.01	110	0	0	3,700
ACENAPHTHYLENE	323	90	28	20	0.002 J	720	0.01	110	--	--	NA
ANTHRACENE	323	122	38	36	0.001 J	1,200	0.005	110	0	0	22,000
BENZ(A)ANTHRACENE	323	194	60	79	0.002 J	4,300	0.005	55	--	--	NA
BENZO(A)PYRENE	323	187	58	**82**	0.002 J	**5,200**	0.005	**110**	146	56	0.06
BENZO(B)FLUORANTHENE	323	182	56	**63**	0.002 J	**3,200**	0.005	**55**	127	49	0.6
BENZO(G,H,I)PERYLENE	323	198	61	52	0.002 J	2,900	0.005	55	--	--	NA
BENZO(K)FLUORANTHENE	323	146	45	**63**	0.003 J	**3,500**	0.005	**55**	116	65	0.4 (CAL-modified)
CHRYSENE	323	199	62	**120**	0.002 J	**4,900**	0.005	**55**	101	37	4 (CAL-modified)
DIBENZ(A,H)ANTHRACENE	323	132	41	25	0.002 J	840	0.005	55	--	--	NA
FLUORANTHENE	323	185	57	100	0.002 J	**7,400**	0.005	55	1	0	2,300
FLUORENE	323	105	33	54	0.002 J	1,500	0.01	110	0	0	2,700
INDENO(1,2,3-CD)PYRENE	323	149	46	**59**	0.002 J	**3,300**	0.005	**110**	102	72	0.6
NAPHTHALENE	323	141	44	20	0.001 J	**600**	0.01	**110**	11	1	56
PHENANTHRENE	323	192	59	88	0.002 J	3,700	0.005	55	--	--	NA
PYRENE	323	187	58	130	0.002 J	**7,100**	0.005	55	3	0	2,300

NOTES:

Bold denotes values elevated above the PRG

J Estimated value

mg/kg Milligrams per kilogram

NA No PRG available

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

TABLE 6-11: SITE 13 ANALYTICAL DATA FOR FREE PRODUCT TARRY REFINERY WASTE

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Petroleum Hydrocarbon Constituents (mg/kg)

Location	028-S13-001[f]	028-S13-002[f]	028-S13-003[c]	028-S13-004[e]	028-S13-005[c]	028-S13-006[a]	028-S13-007[f]
Analyte							
TPH-gasoline	980	3,000	470	4,500[g]	2,800[e]	910[c]	580
TPH-diesel	17,000[b]	61,000[e]	26,000[e]	16,000	9,700[e]	5,000[f]	140,000[d]
TPH-motor oil	12,000[b]	52,000[e]	21,000[e]	6,600	2,200[e]	440[f]	110,000[d]
Benzene	5	31	0.8	ND	ND	ND	1.3
Toluene	27	130	4.5	ND	ND	ND	4.3
Ethylbenzene	81	36	1.4	60	13	4.7	3.1
Xylenes (total)	48	220	18.7	163	15.3	2.9	14.5

Polynuclear Aromatic Hydrocarbon Concentrations in TRW (mg/kg)

Location	028-S13-001[f]	028-S13-002[f]	028-S13-003[c]	028-S13-004[e]	028-S13-005[c]	028-S13-006[a]	028-S13-007[f]
Analyte							
Naphthalene	28	83	21	9	ND	ND	100
Ancenaphthalene	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.7 J	7.3	8.3	1.2	0.99 J	ND	12 J
Fluorene	28	59	27	3.7	1.7	0.57	140
Phenanthrene	98	210	220	10	5.1	0.59	510
Anthracene	4.9	7.5	34	2	0.68 J	0.16	23
Fluoranthene	3	12	35	1.2	ND	0.12	19
Pyrene	11	23	120	3.6	1 J	0.36	64
Benzo(a)anthracene	8.8	14	110	3.5	0.89 J	0.30	37
[illegible]rysene	23	44	200	4.9	1.2 J	0.51	120
[illegible]zo(b)fluoranthene	11	ND	38	1.8	ND	0.021	49
Benzo(k)fluoranthene	1.2 J	ND	12	0.21 J	ND	0.025 J	6.5 J
Benzo(a)pyrene	3.1	5.6	37	0.48 J	ND	0.072	15
Indeno(1,2,3-cd)pyrene	ND	ND	42 J	ND	ND	ND	3.9 J
Dibenz(a,h)anthracene	1.6	ND	2.1 J	ND	ND	ND	7.9 J
Benzo(g,h,I)perylene	ND	ND	7.2	ND	ND	ND	7.9 J

pH and Lead Concentrations in TRW

Location	028-S13-001[f]	028-S13-002[f]	028-S13-003[c]	028-S13-004[e]	028-S13-005[c]	028-S13-006[a]	028-S13-007[f]
Analyte							
Lead, mg/kg	630	2,000	900	3.5	1.9	9.2	220
pH	1.7	1.4	1.5	5.7	6.7	6.4	1.1

Notes:

[a] Dilution factor of 5
[b] Dilution factor of 10
[c] Dilution factor of 20
[d] Dilution factor of 40
[e] Dilution factor of 50
[f] Dilution factor of 100
[g] Dilution factor of 200
mg/kg Milligram per kilogram
ND Analyte was not detected
J Estimated value
[illegible]H Total petroleum hydrocarbons
[illegible]V Tarry refinery waste

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Dioxins (µg/kg)											
1234678-HEPTACHLORINATED DIBEN	1	0	0	--	--	--	24	24	--	--	NA
123478-HEXACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
1234789-HEPTACHLORINATED DIBEN	1	0	0	--	--	--	24	24	--	--	NA
123678-HEXACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
12378-PENTACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
123789-HEXACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
234678-HEXACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
23478-PENTACHLORINATED DIBENZO	1	0	0	--	--	--	24	24	--	--	NA
2378-TETRACHLORINATED DIBENZO-	1	0	0	--	--	--	10	10	--	--	NA
2378-TETRACHLORINATED DIBENZOF	1	0	0	--	--	--	10	10	--	--	NA
OCTACHLORINATED DIBENZO-P-DIOX	1	0	0	--	--	--	48	48	--	--	NA
OCTACHLORINATED DIBENZOFURAN	1	0	0	--	--	--	48	48	--	--	NA
TOTAL HEPTACHLORODIBENZO-P-DIO	1	0	0	--	--	--	24	24	--	--	NA
TOTAL HEPTACHLORODIBENZOFURAN	1	0	0	--	--	--	24	24	--	--	NA
TOTAL HEXACHLORODIBENZOFURAN	1	0	0	--	--	--	24	24	--	--	NA
TOTAL PENTACHLORODIBENZO-P-DIO	1	0	0	--	--	--	24	24	--	--	NA
TOTAL PENTACHLORODIBENZOFURAN	1	0	0	--	--	--	24	24	--	--	NA
TOTAL TETRACHLORODIBENZO-P-DIO	1	0	0	--	--	--	10	10	--	--	NA
TOTAL TETRACHLORODIBENZOFURAN	1	0	0	--	--	--	10	10	--	--	NA
Oil and Grease (mg/kg)											
OIL & GREASE	1	1	100	410	410	410	0.0	0.0	--	--	NA
Organotins (µg/kg)											
DIBUTYL TIN	1	0	0	--	--	--	1	1	--	--	NA
MONOBUTYL TIN	1	0	0	--	--	--	1	1	--	--	NA
TETRABUTYL TIN	1	0	0	--	--	--	1	1	--	--	NA
TRIBUTYL TIN	1	0	0	--	--	--	1	1	--	--	NA
Organic Lead (mg/kg)											
LEAD, ORGANIC	1	0	0	--	--	--	0.6	0.6	--	--	NA

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Percent Moisture (%MST)											
PERCENT MOISTURE	1	1	100	15	15	15	0.0	0.0	--	--	NA
PCBs/Pesticides (µg/kg)											
AROCLOR-1016	1	0	0	--	--	--	39	39	0	0	3,900
AROCLOR-1221	1	0	0	--	--	--	79	79	0	0	220
AROCLOR-1232	1	0	0	--	--	--	39	39	0	0	220
AROCLOR-1242	1	0	0	--	--	--	39	39	0	0	220
AROCLOR-1248	1	0	0	--	--	--	39	39	0	0	220
AROCLOR-1254	1	0	0	--	--	--	39	39	0	0	220
AROCLOR-1260	1	0	0	--	--	--	39	39	0	0	220
pH (UNITS)											
PH	1	1	100	7.4	7.4	7.4	0.0	0.0	--	--	NA
Reactivity (mg/kg)											
CYANIDE	1	0	0	--	--	--	0.1	0.1	--	--	NA
SULFIDE	1	0	0	--	--	--	29	29	--	--	NA
Polynuclear Aromatic Hydrocarbons (µg/kg)											
2-METHYLNAPHTHALENE	1	1	100	43	43J	43J	0.0	0.0	--	--	NA
ACENAPHTHENE	1	0	0	--	--	--	390	390	0	0	3,700,000
ACENAPHTHYLENE	1	0	0	--	--	--	390	390	--	--	NA
ANTHRACENE	1	0	0	--	--	--	390	390	0	0	22,000,000
BENZO(A)ANTHRACENE	1	0	0	--	--	--	390	390	0	0	620
BENZO(A)PYRENE	1	0	0	--	--	--	**390**	**390**	0	1	62
BENZO(B)FLUORANTHENE	1	0	0	--	--	--	390	390	0	0	620
BENZO(G,H,I)PERYLENE	1	0	0	--	--	--	390	390	--	--	NA
BENZO(K)FLUORANTHENE	1	0	0	--	--	--	**390**	**390**	0	1	380 (CAL-modified)
CHRYSENE	1	0	0	--	--	--	390	390	0	0	3,800 (CAL-modified)
DIBENZO(A,H)ANTHRACENE	1	0	0	--	--	--	**390**	**390**	0	1	62
FLUORANTHENE	1	0	0	--	--	--	390	390	0	0	2,300,000
FLUORENE	1	0	0	--	--	--	390	390	0	0	2,700,000
INDENO(1,2,3-CD)PYRENE	1	0	0	--	--	--	390	390	0	0	620

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Polynuclear Aromatic Hydrocarbons (µg/kg)											
NAPHTHALENE	1	1	100	34	34 J	34 J	0.0	0.0	0	0	56,000
PHENANTHRENE	1	0	0	--	--	--	390	390	--	--	NA
PYRENE	1	1	100	28	28 J	28 J	0.0	0.0	0	0	2,300,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	1	0	0	--	--	--	390	390	0	0	650,000
1,2-DICHLOROBENZENE	1	0	0	--	--	--	390	390	0	0	370,000
1,3-DICHLOROBENZENE	1	0	0	--	--	--	390	390	0	0	16,000
1,4-DICHLOROBENZENE	1	0	0	--	--	--	390	390	0	0	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	1	0	0	--	--	--	390	390	--	--	NA
2,4,5-TRICHLOROPHENOL	1	0	0	--	--	--	940	940	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	1	0	0	--	--	--	390	390	0	0	6,900 (CAL-modified)
2,4-DICHLOROPHENOL	1	0	0	--	--	--	390	390	0	0	180,000
2,4-DIMETHYLPHENOL	1	0	0	--	--	--	390	390	0	0	1,200,000
2,4-DINITROPHENOL	1	0	0	--	--	--	940	940	0	0	120,000
2,4-DINITROTOLUENE	1	0	0	--	--	--	390	390	0	0	120,000
2,6-DINITROTOLUENE	1	0	0	--	--	--	390	390	0	0	61,000
2-CHLORONAPHTHALENE	1	0	0	--	--	--	390	390	--	--	NA
2-CHLOROPHENOL	1	0	0	--	--	--	390	390	0	0	63,000
2-METHYLPHENOL	1	0	0	--	--	--	390	390	--	--	NA
2-NITROANILINE	1	0	0	--	--	--	940	940	0	0	1,700
2-NITROPHENOL	1	0	0	--	--	--	390	390	--	--	NA
3,3'-DICHLOROBENZIDINE	1	0	0	--	--	--	390	390	0	0	1,100
3-NITROANILINE	1	0	0	--	--	--	940	940	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	1	0	0	--	--	--	940	940	--	--	NA
4-BROMOPHENYL-PHENYLETHER	1	0	0	--	--	--	390	390	--	--	NA
4-CHLORO-3-METHYLPHENOL	1	0	0	--	--	--	390	390	--	--	NA
4-CHLOROANILINE	1	0	0	--	--	--	390	390	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	1	0	0	--	--	--	390	390	--	--	NA
4-METHYLPHENOL	1	0	0	--	--	--	390	390	0	0	310,000
4-NITROANILINE	1	0	0	--	--	--	940	940	--	--	NA
4-NITROPHENOL	1	0	0	--	--	--	940	940	--	--	NA
BIS(2-CHLOROETHOXY)METHANE	1	0	0	--	--	--	390	390	--	--	NA

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Semivolatile Organic Compounds (ug/kg)											
BIS(2-CHLOROETHYL)ETHER	1	0	0	--	--	--	**390**	**390**	0	1	210
BIS(2-ETHYLHEXYL)PHTHALATE	1	0	0	--	--	--	390	390	0	0	35,000
BUTYLBENZYLPHTHALATE	1	0	0	--	--	--	390	390	0	0	12,000,000
CARBAZOLE	1	0	0	--	--	--	390	390	0	0	24,000
DI-N-BUTYLPHTHALATE	1	1	100	69	69 J	69 J	0.0	0.0	--	--	NA
DI-N-OCTYLPHTHALATE	1	1	100	25	25 J	25 J	0.0	0.0	--	--	NA
DIBENZOFURAN	1	0	0	--	--	--	390	390	0	0	290,000
DIETHYLPHTHALATE	1	0	0	--	--	--	390	390	0	0	49,000,000
DIMETHYLPHTHALATE	1	0	0	--	--	--	390	390	0	0	100,000,000
HEXACHLOROBENZENE	1	0	0	--	--	--	**390**	**390**	0	1	300
HEXACHLOROBUTADIENE	1	0	0	--	--	--	390	390	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	1	0	0	--	--	--	390	390	0	0	370,000
HEXACHLOROETHANE	1	0	0	--	--	--	390	390	0	0	35,000
ISOPHORONE	1	0	0	--	--	--	390	390	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	1	0	0	--	--	--	**390**	**390**	0	1	69
N-NITROSODIPHENYLAMINE	1	0	0	--	--	--	390	390	0	0	99,000
NITROBENZENE	1	0	0	--	--	--	390	390	0	0	20,000
PENTACHLOROPHENOL	1	0	0	--	--	--	940	940	0	0	3,000
PHENOL	1	0	0	--	--	--	390	390	0	0	37,000,000
California Title 26 Metals (mg/kg)											
ANTIMONY	1	0	0	--	--	--	3.5	3.5	0	0	31.0
ARSENIC	1	1	100	**7.2**	**7.2**	**7.2**	0.0	0.0	1	0	0.39
BARIUM	1	1	100	79.7	79.7	79.7	0.0	0.0	0	0	5,400
BERYLLIUM	1	1	100	0.43	0.43	0.43	0.0	0.0	0	0	150
CADMIUM	1	1	100	0.54	0.54	0.54	0.0	0.0	0	0	37.0
CHROMIUM	1	1	100	33.8	33.8	33.8	0.0	0.0	0	0	210
COBALT	1	1	100	7.1	7.1	7.1	0.0	0.0	0	0	900
COPPER	1	1	100	16.8	16.8	16.8	0.0	0.0	0	0	3,100
LEAD	1	1	100	23.8	23.8	23.8	0.0	0.0	0	0	150 (CAL-modified)
MERCURY	1	0	0	--	--	--	0.12	0.12	0	0	23.0
MOLYBDENUM	1	0	0	--	--	--	1.2	1.2	0	0	390
NICKEL	1	1	100	29.1	29.1	29.1	0.0	0.0	0	0	1,600

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
California Title 26 Metals (mg/kg)											
SELENIUM	1	0	0	--	--	--	0.30	0.30	0	0	390
SILVER	1	0	0	--	--	--	0.59	0.59	0	0	390
THALLIUM	1	0	0	--	--	--	0.30	0.30	0	0	5.2
VANADIUM	1	1	100	27.3	27.3	27.3	0.0	0.0	0	0	550
ZINC	1	1	100	41.5	41.5	41.5	0.0	0.0	0	0	23,000
Total Petroleum Hydrocarbons (mg/kg)											
DIESEL RANGE ORGANICS	1	1	100	2,000	2,000	2,000	0.0	0.0	--	--	NA
GASOLINE RANGE ORGANICS	1	1	100	45	45	45	0.0	0.0	--	--	NA
MOTOR OIL RANGE ORGANICS	1	0	0	--	--	--	1,500	1,500	--	--	NA
Volatile Organic Compounds (µg/kg)											
1,1,1-TRICHLOROETHANE	1	0	0	--	--	--	29	29	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	1	0	0	--	--	--	29	29	0	0	410
1,1,2-TRICHLOROETHANE	1	0	0	--	--	--	29	29	0	0	730
1,1-DICHLOROETHANE	1	0	0	--	--	--	29	29	0	0	2,800 (CAL-modified)
1,1-DICHLOROETHENE	1	0	0	--	--	--	29	29	0	0	120,000
1,2-DICHLOROETHANE	1	0	0	--	--	--	29	29	0	0	280
1,2-DICHLOROPROPANE	1	0	0	--	--	--	29	29	0	0	340
2-BUTANONE	1	0	0	--	--	--	59	59	--	--	NA
2-HEXANONE	1	0	0	--	--	--	59	59	--	--	NA
4-METHYL-2-PENTANONE	1	0	0	--	--	--	59	59	--	--	NA
ACETONE	1	0	0	--	--	--	120	120	0	0	1,600,000
BENZENE	1	0	0	--	--	--	29	29	0	0	600
BROMODICHLOROMETHANE	1	0	0	--	--	--	29	29	0	0	820
BROMOFORM	1	0	0	--	--	--	29	29	0	0	62,000
BROMOMETHANE	1	0	0	--	--	--	59	59	0	0	3,900
CARBON DISULFIDE	1	0	0	--	--	--	29	29	0	0	360,000
CARBON TETRACHLORIDE	1	0	0	--	--	--	29	29	0	0	250
CHLOROBENZENE	1	0	0	--	--	--	29	29	0	0	150,000
CHLOROETHANE	1	0	0	--	--	--	59	59	0	0	3,000
CHLOROFORM	1	0	0	--	--	--	29	29	0	0	940 (CAL-modified)
CHLOROMETHANE	1	0	0	--	--	--	59	59	0	0	1,200

TABLE 6-12 SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

Environmental Baseline Survey Phase 2A

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Volatile Organic Compounds (ug/kg)											
CIS-1,2-DICHLOROETHENE	1	0	0	--	--	--	29	29	0	0	43,000
CIS-1,3-DICHLOROPROPENE	1	0	0	--	--	--	29	29	0	0	780 (not cis)
DIBROMOCHLOROMETHANE	1	0	0	--	--	--	29	29	0	0	1,100
ETHYLBENZENE	1	0	0	--	--	--	29	29	0	0	8,900
HEXANE	1	0	0	--	--	--	29	29	0	0	110,000 (n-hexane)
METHYLENE CHLORIDE	1	0	0	--	--	--	120	120	0	0	9,100
O-XYLENE	1	0	0	--	--	--	29	29	0	0	270,000 (xylenes)
STYRENE	1	0	0	--	--	--	29	29	0	0	1,700,000
TETRACHLOROETHENE	1	0	0	--	--	--	29	29	0	0	1,500
TOLUENE	1	0	0	--	--	--	29	29	0	0	520,000
TRANS-1,2-DICHLOROETHENE	1	0	0	--	--	--	29	29	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	1	0	0	--	--	--	29	29	0	0	780 (not trans)
TRICHLOROETHENE	1	0	0	--	--	--	29	29	0	0	53
TRICHLOROFLUOROMETHANE	1	0	0	--	--	--	29	29	0	0	390,000
VINYL ACETATE	1	0	0	--	--	--	300	300	0	0	430,000
VINYL CHLORIDE	1	0	0	--	--	--	59	59	0	0	79 (child or adult)
XYLENE (TOTAL)	1	0	0	--	--	--	29	29	0	0	270,000

NOTES:

Bold denotes values elevated above the PRG

Polynuclear aromatic hydrocarbons compounds were analyzed under semivolatile organic compound method.

% Percent

-- Not detected

J Estimated value

mg/kg Milligram per kilogram

NA No PRG available

PCB Polychlorinated biphenyl

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

µg/kg Microgram per kilogram

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Percent Moisture (%MST)											
PERCENT MOISTURE	36	36	100	16	7	54	0.0	0.0	--	--	NA
PCBs/Pesticides (µg/kg)											
4,4'-DDD	3	0	0	--	--	--	4	19	0	0	2,400
4,4'-DDE	3	0	0	--	--	--	4	19	0	0	1,700
4,4'-DDT	3	0	0	--	--	--	4	19	0	0	1,700
ALDRIN	3	0	0	--	--	--	2	10	0	0	29
ALPHA-BHC	3	0	0	--	--	--	2	10	--	--	NA
ALPHA-CHLORDANE	3	0	0	--	--	--	2	10	0	0	1,600 (chlordane)
AROCLOR-1016	3	0	0	--	--	--	18	92	0	0	3,900
AROCLOR-1221	3	0	0	--	--	--	18	92	0	0	220
AROCLOR-1232	3	0	0	--	--	--	18	92	0	0	220
AROCLOR-1242	3	0	0	--	--	--	18	92	0	0	220
AROCLOR-1248	3	0	0	--	--	--	18	92	0	0	220
AROCLOR-1254	3	0	0	--	--	--	18	92	0	0	220
AROCLOR-1260	3	0	0	--	--	--	18	92	0	0	220
BETA-BHC	3	0	0	--	--	--	2	10	--	--	NA
DELTA-BHC	3	0	0	--	--	--	2	10	--	--	NA
DIELDRIN	3	0	0	--	--	--	4	19	0	0	30
ENDOSULFAN I	3	0	0	--	--	--	2	10	0	0	370,000
ENDOSULFAN II	3	0	0	--	--	--	4	19	0	0	370,000 (endosulfan)
ENDOSULFAN SULFATE	3	0	0	--	--	--	4	19	--	--	NA
ENDRIN	3	0	0	--	--	--	4	19	0	0	18,000
ENDRIN ALDEHYDE	3	0	0	--	--	--	4	19	--	--	NA
ENDRIN KETONE	3	0	0	--	--	--	4	19	--	--	NA
GAMMA-BHC (LINDANE)	3	0	0	--	--	--	2	10	--	--	NA
GAMMA-CHLORDANE	3	0	0	--	--	--	2	10	0	0	1,600 (chlordane)
HEPTACHLOR	3	0	0	--	--	--	0.3	2	0	0	110
HEPTACHLOR EPOXIDE	3	0	0	--	--	--	0.3	2	0	0	53
METHOXYCHLOR	3	0	0	--	--	--	19	97	0	0	310,000
TOXAPHENE	3	0	0	--	--	--	94	**490**	0	2	440

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
pH ()											
PH	3	3	100	8.5	8.1 J	8.9 J	0.0	0.0	--	--	NA
Polynuclear Aromatic Hydrocarbons (µg/kg)											
2-METHYLNAPHTHALENE	3	0	0	--	--	--	37	1,900	--	--	NA
ACENAPHTHENE	3	0	0	--	--	--	37	1,900	0	0	3,700,000
ACENAPHTHYLENE	3	0	0	--	--	--	37	1,900	--	--	NA
ANTHRACENE	3	1	33	220	220 J	220 J	37	1,900	0	0	22,000,000
BENZO(A)ANTHRACENE	3	1	33	390	390 J	390 J	37	**1,900**	0	1	620
BENZO(A)PYRENE	3	1	33	**300**	**300 J**	**300 J**	37	**1,900**	1	1	62
BENZO(B)FLUORANTHENE	3	1	33	320	320 J	320 J	37	**1,900**	0	1	620
BENZO(G,H,I)PERYLENE	3	0	0	--	--	--	37	1,900	--	--	NA
BENZO(K)FLUORANTHENE	3	0	0	--	--	--	37	**1,900**	0	2	380 (CAL-modified)
CHRYSENE	3	1	33	430	430 J	430 J	37	1,900	0	0	3,800 (CAL-modified)
DIBENZO(A,H)ANTHRACENE	3	0	0	--	--	--	37	**1,900**	0	2	62
FLUORANTHENE	3	1	33	770	770 J	770 J	37	1,900	0	0	2,300,000
FLUORENE	3	0	0	--	--	--	37	1,900	0	0	2,700,000
INDENO(1,2,3-CD)PYRENE	3	0	0	--	--	--	37	**1,900**	0	2	620
NAPHTHALENE	3	0	0	--	--	--	37	1,900	0	0	56,000
PHENANTHRENE	3	1	33	700	700 J	700 J	37	1,900	--	--	NA
PYRENE	3	1	33	980	980 J	980 J	37	1,900	0	0	2,300,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	3	0	0	--	--	--	37	1,900	0	0	650,000
1,2-DICHLOROBENZENE	3	0	0	--	--	--	18	920	0	0	370,000
1,3-DICHLOROBENZENE	3	0	0	--	--	--	18	920	0	0	16,000
1,4-DICHLOROBENZENE	3	0	0	--	--	--	18	920	0	0	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	3	0	0	--	--	--	37	1,900	--	--	NA
2,4,5-TRICHLOROPHENOL	3	0	0	--	--	--	89	4,600	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	3	0	0	--	--	--	37	1,900	0	0	6,900 (CAL-modified)
2,4-DICHLOROPHENOL	3	0	0	--	--	--	37	1,900	0	0	180,000
2,4-DIMETHYLPHENOL	3	0	0	--	--	--	37	1,900	0	0	1,200,000
2,4-DINITROPHENOL	1	0	0	--	--	--	89	89	0	0	120,000
2,4-DINITROTOLUENE	3	0	0	--	--	--	37	1,900	0	0	120,000

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
2,6-DINITROTOLUENE	3	0	0	--	--	--	37	1,900	0	0	61,000
2-CHLORONAPHTHALENE	3	0	0	--	--	--	37	1,900	--	--	NA
2-CHLOROPHENOL	3	0	0	--	--	--	37	1,900	0	0	63,000
2-METHYLPHENOL	3	0	0	--	--	--	37	1,900	--	--	NA
2-NITROANILINE	3	0	0	--	--	--	89	**4,600**	0	2	1,700
2-NITROPHENOL	3	0	0	--	--	--	37	1,900	--	--	NA
3,3'-DICHLOROBENZIDINE	3	0	0	--	--	--	37	**1,900**	0	2	1,100
3-NITROANILINE	3	0	0	--	--	--	89	4,600	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	1	0	0	--	--	--	89	89	--	--	NA
4-BROMOPHENYL-PHENYLETHER	3	0	0	--	--	--	37	1,900	--	--	NA
4-CHLORO-3-METHYLPHENOL	3	0	0	--	--	--	37	1,900	--	--	NA
4-CHLOROANILINE	3	0	0	--	--	--	37	1,900	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	3	0	0	--	--	--	37	1,900	--	--	NA
4-METHYLPHENOL	3	0	0	--	--	--	37	1,900	0	0	310,000
4-NITROANILINE	3	0	0	--	--	--	89	4,600	--	--	NA
4-NITROPHENOL	3	0	0	--	--	--	89	4,600	--	--	NA
BIS(2-CHLOROETHOXY)METHANE	3	0	0	--	--	--	37	1,900	--	--	NA
BIS(2-CHLOROETHYL)ETHER	3	0	0	--	--	--	37	**1,900**	0	2	210
BIS(2-ETHYLHEXYL)PHTHALATE	3	0	0	--	--	--	14	750	0	0	35,000
BUTYLBENZYLPHTHALATE	3	0	0	--	--	--	37	1,900	0	0	12,000,000
CARBAZOLE	3	0	0	--	--	--	37	1,900	0	0	24,000
DI-N-BUTYLPHTHALATE	3	0	0	--	--	--	37	1,900	--	--	NA
DI-N-OCTYLPHTHALATE	3	0	0	--	--	--	37	1,900	--	--	NA
DIBENZOFURAN	3	0	0	--	--	--	37	1,900	0	0	290,000
DIETHYLPHTHALATE	3	0	0	--	--	--	37	1,900	0	0	49,000,000
DIMETHYLPHTHALATE	3	0	0	--	--	--	37	1,900	0	0	100,000,000
HEXACHLOROBENZENE	3	0	0	--	--	--	37	**1,900**	0	2	300
HEXACHLOROBUTADIENE	3	0	0	--	--	--	37	1,900	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	3	0	0	--	--	--	37	1,900	0	0	370,000
HEXACHLOROETHANE	3	0	0	--	--	--	37	1,900	0	0	35,000
ISOPHORONE	3	0	0	--	--	--	37	1,900	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	3	0	0	--	--	--	37	**1,900**	0	2	69
N-NITROSODIPHENYLAMINE	3	0	0	--	--	--	37	1,900	0	0	99,000

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
NITROBENZENE	3	0	0	--	--	--	37	1,900	0	0	20,000
PENTACHLOROPHENOL	3	0	0	--	--	--	89	**4,600**	0	2	3,000
PHENOL	3	0	0	--	--	--	37	1,900	0	0	37,000,000
Metals (mg/kg)											
ALUMINUM	3	3	100	7,220	5,370	8,690	0.0	0.0	0	0	76,000
ANTIMONY	3	1	33	0.55	0.55 J	0.55 J	0.42	0.44	0	0	31.0
ARSENIC	3	2	67	**1.6**	**1.5 J**	**1.7 J**	**1.3**	**1.3**	2	1	0.39
BARIUM	3	3	100	45.3	25.3 J	55.8	0.0	0.0	0	0	5,400
BERYLLIUM	3	0	0	--	--	--	0.044	0.046	0	0	150
CADMIUM	3	0	0	--	--	--	0.044	0.046	0	0	37.0
CALCIUM	3	3	100	9,180	2,630	17,200	0.0	0.0	--	--	NA
CHROMIUM	3	3	100	31.5	28.2	34.0	0.0	0.0	0	0	210
COBALT	3	3	100	6.6	5.7 J	7.7 J	0.0	0.0	0	0	900
COPPER	3	2	67	11.5	9.9	13.1	6.1	6.1	0	0	3,100
IRON	3	3	100	11,800	9,430	13,800	0.0	0.0	0	0	23,000
LEAD	36	24	67	46.9	1.2	**280**	2.5	21.0	1	0	150 (CAL-modified)
MAGNESIUM	3	3	100	3,820	2,500	5,300	0.0	0.0	--	--	NA
MANGANESE	3	3	100	210	110	263	0.0	0.0	0	0	1,800
MERCURY	3	0	0	--	--	--	0.10	0.11	0	0	23.0
MOLYBDENUM	3	0	0	--	--	--	0.22	0.23	0	0	390
NICKEL	3	3	100	27.9	25.6	29.7	0.0	0.0	0	0	1,600
POTASSIUM	3	3	100	664	509 J	777 J	0.0	0.0	--	--	NA
SELENIUM	3	0	0	--	--	--	0.36	0.46	0	0	390
SILVER	3	0	0	--	--	--	0.088	0.092	0	0	390
SODIUM	3	0	0	--	--	--	26.2	546	--	--	NA
THALLIUM	3	0	0	--	--	--	0.39	0.41	0	0	5.2
VANADIUM	3	3	100	26.2	23.1	28.7	0.0	0.0	0	0	550
ZINC	3	3	100	27.4	19.8	32.4	0.0	0.0	0	0	23,000
Total Petroleum Hydrocarbons (mg/kg)											
DIESEL RANGE ORGANICS	36	25	69	6,100	5 J	36,000	1	110	--	--	NA
GASOLINE RANGE ORGANICS	36	17	47	5,200	3 J	40,000 J	0.5	500	--	--	NA

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Total Petroleum Hydrocarbons (mg/kg)											
JP5 RANGE ORGANICS	16	7	44	180	14	720	10	110	--	--	NA
MOTOR OIL RANGE ORGANICS	36	24	67	7,600	18	30,000	11	250	--	--	NA
Volatile Organic Compounds (µg/kg)											
1,1,1-TRICHLOROETHANE	16	0	0	--	--	--	10	200	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	16	0	0	--	--	--	10	200	0	0	410
1,1,2-TRICHLOROETHANE	16	0	0	--	--	--	10	200	0	0	730
1,1-DICHLOROETHANE	16	0	0	--	--	--	10	200	0	0	2,800 (CAL-modified)
1,1-DICHLOROETHENE	16	0	0	--	--	--	10	200	0	0	120,000
1,2,4-TRIMETHYLBENZENE	13	7	54	1,500	21	7,700	10	10	0	0	52,000
1,2-DICHLOROETHANE	16	0	0	--	--	--	10	200	0	0	280
1,2-DICHLOROETHENE (TOTAL)	3	0	0	--	--	--	11	11	0	0	43,000 (cis)
1,2-DICHLOROPROPANE	16	0	0	--	--	--	10	200	0	0	340
1,3,5-TRIMETHYLBENZENE	13	7	54	170	15	660	10	10	0	0	21,000
2-BUTANONE	3	0	0	--	--	--	11	11	--	--	NA
2-HEXANONE	3	0	0	--	--	--	11	11	--	--	NA
4-METHYL-2-PENTANONE	3	0	0	--	--	--	11	11	--	--	NA
ACETONE	3	0	0	--	--	--	11	11	0	0	1,600,000
BENZENE	36	10	28	100	7J	290	10	61	0	0	600
BROMODICHLOROMETHANE	16	0	0	--	--	--	10	200	0	0	820
BROMOFORM	16	0	0	--	--	--	10	200	0	0	62,000
BROMOMETHANE	16	0	0	--	--	--	10	200	0	0	3,900
CARBON DISULFIDE	3	0	0	--	--	--	11	11	0	0	360,000
CARBON TETRACHLORIDE	16	0	0	--	--	--	10	200	0	0	250
CHLOROBENZENE	36	0	0	--	--	--	10	200	0	0	150,000
CHLOROETHANE	16	0	0	--	--	--	10	200	0	0	3,000
CHLOROFORM	16	0	0	--	--	--	10	200	0	0	940 (CAL-modified)
CHLOROMETHANE	16	0	0	--	--	--	10	200	0	0	1,200
CIS-1,2-DICHLOROETHENE	13	0	0	--	--	--	10	200	0	0	43,000
CIS-1,3-DICHLOROPROPENE	16	0	0	--	--	--	10	200	0	0	780 (not cis)
DIBROMOCHLOROMETHANE	16	0	0	--	--	--	10	200	0	0	1,100
ETHYLBENZENE	36	14	39	110	9	400	10	22	0	0	8,900
M,P-XYLENE	20	9	45	220	8J	1,300	11	61	0	0	270,000 (xylenes)

TABLE 6-13: SITE 13 STATISTICAL SUMMARY OF SOIL (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
METHYL-T-BUTYL ETHER	33	0	0	--	--	--	10	200	0	0	17,000 (CAL-modified)
METHYLENE CHLORIDE	16	0	0	--	--	--	10	200	0	0	9,100
O-XYLENE	20	8	40	220	18J	650	11	22	0	0	270,000 (xylenes)
STYRENE	16	0	0	--	--	--	10	200	0	0	1,700,000
TETRACHLOROETHENE	16	0	0	--	--	--	10	200	0	0	1,500
TOLUENE	36	8	22	150	16	570	10	61	0	0	520,000
TRANS-1,2-DICHLOROETHENE	13	0	0	--	--	--	10	200	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	16	0	0	--	--	--	10	200	0	0	780 (not trans)
TRICHLOROETHENE	16	0	0	--	--	--	10	**200**	0	2	53
VINYL CHLORIDE	16	0	0	--	--	--	10	**200**	0	2	79 (child or adult)
XYLENE (TOTAL)	16	5	31	2,500	46	11,000	10	1,700	0	0	270,000

Bold denotes values elevated above the PRG

Polynuclear aromatic hydrocarbons compounds were analyzed under semivolatile organic compound method.

%	Percent
--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
J	Estimated value
mg/kg	Milligram per kilogram
NA	No PRG available
PCB	Polychlorinated biphenyl
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/kg	Microgram per kilogram

TABLE 6-14: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Tap Water PRG	MCL
Alkalinity (µg/l)												
BICARBONATE ALKALINITY	4	4	100	1,300,000	870,000	2,400,000	0.0	0.0	--	--	NA	NA
CARBONATE ALKALINITY	4	0	0	--	--	--	5,000	5,000	--	--	NA	NA
HYDROXIDE ALKALINITY	4	0	0	--	--	--	5,000	5,000	--	--	NA	NA
TOTAL ALKALINITY	4	4	100	1,300,000	870,000	2,400,000	0.0	0.0	--	--	NA	NA
Anions (µg/l)												
CHLORIDE	4	4	100	296,000	19,000	840,000	0.0	0.0	--	--	NA	NA
NITRATE	4	0	0	--	--	--	50.0	500	--	--	NA	NA
SULFATE	4	3	75	17,500	1,600	27,000	2,500	2,500	--	--	NA	NA
Dissolved Gases (µg/l)												
METHANE	4	4	100	2,600	42J	4,200 J	0.0	0.0	--	--	NA	NA
Metals (µg/l)												
Filtered												
LEAD	22	4	18	47.4	3.5J	86.0	3.0	3.0	--	--	NA	15.0
Total Petroleum Hydrocarbons (mg/l)												
DIESEL RANGE ORGANICS	22	20	91	32	0.3	510	0.1	0.1	--	--	NA	NA
GASOLINE RANGE ORGANICS	22	16	73	8	0.4J	72 J	0.05	0.3	--	--	NA	NA
JP5 RANGE ORGANICS	8	7	88	0.7	0.2	1	0.1	0.1	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	22	14	64	63	0.5	570	0.5	0.5	--	--	NA	NA
TOTAL PETROLEUM HYDROCARBONS				ND	ND	ND			--	--		
Volatile Organic Compounds (µg/l)												
1,1,1-TRICHLOROETHANE	13	0	0	--	--	--	1	20	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	13	0	0	--	--	--	1	20	0	13	0.06	1
1,1,2-TRICHLOROETHANE	13	0	0	--	--	--	1	20	0	13	0.2	5
1,1-DICHLOROETHANE	13	0	0	--	--	--	1	20	0	3	2 (CAL-modified)	5
1,1-DICHLOROETHENE	13	0	0	--	--	--	1	20	0	0	340	6
1,2,4-TRIMETHYLBENZENE	13	6	46	17	6	40	1	10	3	0	12	NA
1,2-DICHLOROETHANE	13	0	0	--	--	--	1	20	0	13	0.1	0.5
1,2-DICHLOROPROPANE	13	0	0	--	--	--	1	20	0	13	0.2	5
1,3,5-TRIMETHYLBENZENE	13	4	31	9	2	16	1	20	1	1	12	NA

TABLE 6-14: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Over PRG	Number of Detection Limits Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/l)												
BENZENE	23	12	52	**360**	**0.5**	**1,400**	**0.5**	**3**	12	11	0.3	1
BROMODICHLOROMETHANE	13	0	0	--	--	--	**1**	**20**	0	13	0.2	80
BROMOFORM	13	0	0	--	--	--	1	**20**	0	3	9	80
BROMOMETHANE	13	0	0	--	--	--	5	**100**	0	2	9	NA
CARBON TETRACHLORIDE	13	0	0	--	--	--	**1**	**20**	0	13	0.2	0.5
CHLOROBENZENE	23	1	4	25	25	25	1	20	0	0	110	70
CHLOROETHANE	13	0	0	--	--	--	**5**	**100**	0	13	5	NA
CHLOROFORM	13	0	0	--	--	--	**1**	**20**	0	13	0.5 (CAL-modified)	80
CHLOROMETHANE	13	0	0	--	--	--	**5**	**100**	0	13	2	NA
CIS-1,2-DICHLOROETHENE	13	0	0	--	--	--	1	20	0	0	61	6
CIS-1,3-DICHLOROPROPENE	13	0	0	--	--	--	**1**	**20**	0	13	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	13	0	0	--	--	--	**1**	**20**	0	13	0.1	80
ETHYLBENZENE	23	12	52	**28**	0.8J	**96**	1	**20**	10	2	3	300
M,P-XYLENE	14	8	57	43	0.5J	120	1	5	0	0	210 (xylenes)	NA
METHYL-T-BUTYL ETHER	23	0	0	--	--	--	2	**40**	0	8	6 (CAL-modified)	13
METHYLENE CHLORIDE	13	0	0	--	--	--	2	**100**	0	9	4	NA
O-XYLENE	14	8	57	30	0.6J	76	1	1	0	0	210 (xylenes)	NA
STYRENE	13	0	0	--	--	--	1	20	0	0	1,600	100
TETRACHLOROETHENE	13	0	0	--	--	--	**1**	**20**	0	13	0.7	5
TOLUENE	23	9	39	20	1	65	1	20	0	0	720	150
TRANS-1,2-DICHLOROETHENE	13	0	0	--	--	--	1	20	0	0	120	10
TRANS-1,3-DICHLOROPROPENE	13	0	0	--	--	--	**1**	**20**	0	13	0.4 (not trans)	0.5
TRICHLOROETHENE	13	1	8	**0.6**	**0.6J**	**0.6 J**	**1**	**20**	1	12	0.03	5
VINYL CHLORIDE	13	0	0	--	--	--	**0.5**	**10**	0	13	0.02 (child or adult)	0.5
XYLENE (TOTAL)	9	6	67	110	4	**450**	1	1	1	0	210	1,800

TABLE 6-14: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER

TPH Investigations

Remedial Investigation Report for CERCLA Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

NOTES:

Bold denotes values elevated above the PRG

--	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
mg/l	Milligram per liter
NA	No criteria available
ND	None detected
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/L	Microgram per liter

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (ug/kg)											
1,1,1-TRICHLOROETHANE	120	0	0	--	--	--	5	2,900	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	120	0	0	--	--	--	5	**5,900**	0	8	410
1,1,2-TRICHLOROETHANE	120	0	0	--	--	--	5	**2,900**	0	5	730
1,1-DICHLOROETHANE	120	0	0	--	--	--	5	**2,900**	0	1	2,800 (CAL-modified)
1,1-DICHLOROETHENE	123	0	0	--	--	--	3	2,900	0	0	120,000
1,2-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	370,000
1,2-DICHLOROETHANE	123	0	0	--	--	--	3	**2,900**	0	8	280
1,2-DICHLOROETHENE (TOTAL)	109	0	0	--	--	--	5	2,900	0	0	43,000 (cis)
1,2-DICHLOROPROPANE	120	0	0	--	--	--	5	**2,900**	0	8	340
1,3-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	16,000
1,4-DICHLOROBENZENE	56	0	0	--	--	--	5	2,900	0	0	3,400
2-BUTANONE	123	0	0	--	--	--	5	5,900	--	--	NA
2-CHLOROETHYLVINYLETHER	66	0	0	--	--	--	10	5,900	--	--	NA
2-HEXANONE	120	0	0	--	--	--	5	5,900	--	--	NA
4-METHYL-2-PENTANONE	120	1	1	41	41 J	41 J	5	5,900	--	--	NA
ACETONE	120	5	4	250	150 J	470 J	5	5,900	0	0	1,600,000
BENZENE	137	18	13	150	0.4 J	**1,000**	1	**2,900**	2	4	600
BROMODICHLOROMETHANE	120	0	0	--	--	--	5	**2,900**	0	1	820
BROMOFORM	120	0	0	--	--	--	5	2,900	0	0	62,000
BROMOMETHANE	120	0	0	--	--	--	10	**5,900**	0	1	3,900
CARBON DISULFIDE	120	3	3	2	1 J	2 J	5	2,900	0	0	360,000
CARBON TETRACHLORIDE	123	0	0	--	--	--	3	**2,900**	0	8	250
CHLOROBENZENE	123	1	1	2	2 J	2 J	1	2,900	0	0	150,000
CHLOROETHANE	120	0	0	--	--	--	10	**5,900**	0	1	3,000
CHLOROFORM	123	0	0	--	--	--	3	**2,900**	0	1	940 (CAL-modified)
CHLOROMETHANE	120	0	0	--	--	--	10	**5,900**	0	7	1,200
CIS-1,2-DICHLOROETHENE	1	0	0	--	--	--	29	29	0	0	43,000
CIS-1,2-DICHLOROPROPENE	10	0	0	--	--	--	5	500	--	--	NA
CIS-1,3-DICHLOROPROPENE	110	0	0	--	--	--	5	**2,900**	0	2	780 (not cis)
DIBROMOCHLOROMETHANE	120	0	0	--	--	--	5	**2,900**	0	1	1,100
ETHYLBENZENE	134	24	18	470	0.7 J	5,100	0.3	790	0	0	8,900

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Volatile Organic Compounds (µg/kg)											
ETHYLENE DIBROMIDE	6	0	0	--	--	--	6	14	--	--	NA
HEXANE	1	0	0	--	--	--	29	29	0	0	110,000 (n-hexane)
METHYLENE CHLORIDE	120	0	0	--	--	--	5	5,900	0	0	9,100
O-XYLENE	1	0	0	--	--	--	29	29	0	0	270,000 (xylenes)
STYRENE	120	0	0	--	--	--	5	2,900	0	0	1,700,000
TETRACHLOROETHENE	123	0	0	--	--	--	2	**2,900**	0	1	1,500
TOLUENE	134	77	57	210	1 J	9,100 J	5	2,900	0	0	520,000
TRANS-1,2-DICHLOROETHENE	11	0	0	--	--	--	5	500	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	120	0	0	--	--	--	5	**2,900**	0	2	780 (not trans)
TRICHLOROETHENE	123	0	0	--	--	--	3	**2,900**	0	12	53
TRICHLOROFLUOROMETHANE	67	0	0	--	--	--	5	2,900	0	0	390,000
VINYL ACETATE	85	0	0	--	--	--	5	5,900	0	0	430,000
VINYL CHLORIDE	123	0	0	--	--	--	5	**5,900**	0	9	79 (child or adult)
XYLENE (TOTAL)	134	23	17	3,900	1 J	38,000	5	2,900	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	157	0	0	--	--	--	330	62,000	0	0	650,000
1,2-DICHLOROBENZENE	157	0	0	--	--	--	330	62,000	0	0	370,000
1,2-DIPHENYLHYDRAZINE	81	0	0	--	--	--	340	**7,900**	0	11	610
1,3-DICHLOROBENZENE	157	0	0	--	--	--	330	**62,000**	0	2	16,000
1,4-DICHLOROBENZENE	160	0	0	--	--	--	10	**62,000**	0	11	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	62	0	0	--	--	--	330	62,000	--	--	NA
2,4,5-TRICHLOROPHENOL	160	0	0	--	--	--	30	170,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	160	0	0	--	--	--	45	**62,000**	0	7	6,900 (CAL-modified)
2,4-DICHLOROPHENOL	157	0	0	--	--	--	330	62,000	0	0	180,000
2,4-DIMETHYLPHENOL	157	3	2	4,400	140 J	12,000 J	330	34,000	0	0	1,200,000
2,4-DINITROPHENOL	144	0	0	--	--	--	870	**170,000**	0	1	120,000
2,4-DINITROTOLUENE	160	0	0	--	--	--	20	62,000	0	0	120,000
2,6-DINITROTOLUENE	157	0	0	--	--	--	330	**62,000**	0	1	61,000
2-CHLORONAPHTHALENE	157	0	0	--	--	--	330	62,000	--	--	NA
2-CHLOROPHENOL	157	0	0	--	--	--	330	62,000	0	0	63,000

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (ug/kg)											
2-METHYLPHENOL	160	1	1	10	10	10	20	62,000	--	--	NA
2-NITROANILINE	157	0	0	--	--	--	870	**170,000**	0	87	1,700
2-NITROPHENOL	157	0	0	--	--	--	340	62,000	--	--	NA
3,3'-DICHLOROBENZIDINE	157	0	0	--	--	--	350	**68,000**	0	39	1,100
3-METHYL PHENOL	3	1	33	19	19	19	20	20	--	--	NA
3-NITROANILINE	157	0	0	--	--	--	870	170,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	155	0	0	--	--	--	870	170,000	--	--	NA
4-BROMOPHENYL-PHENYLETHER	157	0	0	--	--	--	330	62,000	--	--	NA
4-CHLORO-3-METHYLPHENOL	157	0	0	--	--	--	340	62,000	--	--	NA
4-CHLOROANILINE	157	0	0	--	--	--	330	62,000	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	157	0	0	--	--	--	330	62,000	--	--	NA
4-METHYLPHENOL	160	1	1	14	14	14	20	62,000	0	0	310,000
4-NITROANILINE	157	0	0	--	--	--	870	170,000	--	--	NA
4-NITROPHENOL	156	0	0	--	--	--	390	170,000	--	--	NA
ANILINE	50	0	0	--	--	--	330	6,900	0	0	85,000
AZOBENZENE	10	0	0	--	--	--	330	1,000	0	0	4,400
BENZIDINE	10	0	0	--	--	--	**330**	**1,000**	0	10	2
BENZOIC ACID	105	0	0	--	--	--	1,600	170,000	0	0	100,000,000
BENZYL ALCOHOL	105	0	0	--	--	--	330	34,000	0	0	18,000,000
BIS(2-CHLOROETHOXY)METHANE	157	0	0	--	--	--	330	62,000	--	--	NA
BIS(2-CHLOROETHYL)ETHER	157	0	0	--	--	--	**330**	**62,000**	0	157	210
BIS(2-ETHYLHEXYL)PHTHALATE	157	0	0	--	--	--	330	**62,000**	0	1	35,000
BUTYLBENZYLPHTHALATE	157	0	0	--	--	--	330	62,000	0	0	12,000,000
CARBAZOLE	52	4	8	1,700	130 J	5,900 J	350	14,000	0	0	24,000
DI-N-BUTYLPHTHALATE	157	5	3	42	31 J	69 J	330	62,000	--	--	NA
DI-N-OCTYLPHTHALATE	157	1	1	25	25 J	25 J	330	62,000	--	--	NA
DIBENZOFURAN	157	4	3	2,200	23 J	6,900 J	330	34,000	0	0	290,000
DIETHYLPHTHALATE	157	0	0	--	--	--	330	62,000	0	0	49,000,000
DIMETHYLPHTHALATE	157	0	0	--	--	--	330	62,000	0	0	100,000,000
HEXACHLOROBENZENE	160	0	0	--	--	--	20	**62,000**	0	157	300
HEXACHLOROBUTADIENE	160	0	0	--	--	--	20	**62,000**	0	9	6,200

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
HEXACHLOROCYCLOPENTADIENE	155	0	0	--	--	--	330	62,000	0	0	370,000
HEXACHLOROETHANE	160	0	0	--	--	--	15	**62,000**	0	1	35,000
ISOPHORONE	157	0	0	--	--	--	330	62,000	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	156	0	0	--	--	--	**330**	**62,000**	0	156	69
N-NITROSODIMETHYLAMINE	50	0	0	--	--	--	**330**	**6,900**	0	50	10
N-NITROSODIPHENYLAMINE	156	33	21	310	42J	4,500 J	330	62,000	0	0	99,000
NITROBENZENE	159	0	0	--	--	--	10	**62,000**	0	2	20,000
PENTACHLOROPHENOL	160	4	3	520	170J	1,000 J	100	**170,000**	0	28	3,000
PHENOL	157	0	0	--	--	--	330	62,000	0	0	37,000,000
PYRIDINE	3	0	0	--	--	--	15	15	--	--	NA
Polynuclear Aromatic Hydrocarbons (mg/kg)											
2-METHYLNAPHTHALENE	323	160	50	38	0.001J	1,700	0.005	55	--	--	NA
ACENAPHTHENE	323	66	20	19	0.003J	350	0.01	110	0	0	3,700
ACENAPHTHYLENE	323	90	28	20	0.002J	720	0.01	110	--	--	NA
ANTHRACENE	323	122	38	36	0.001J	1,200	0.005	110	0	0	22,000
BENZ(A)ANTHRACENE	323	194	60	79	0.002J	4,300	0.005	55	--	--	NA
BENZO(A)PYRENE	323	187	58	**82**	0.002J	**5,200**	0.005	**110**	146	56	0.06
BENZO(B)FLUORANTHENE	323	182	56	**63**	0.002J	**3,200**	0.005	**55**	127	49	0.6
BENZO(G,H,I)PERYLENE	323	198	61	52	0.002J	2,900	0.005	55	--	--	NA
BENZO(K)FLUORANTHENE	323	146	45	**63**	0.003J	**3,500**	0.005	**55**	116	65	0.4 (CAL-modified)
CHRYSENE	323	199	62	**120**	0.002J	**4,900**	0.005	**55**	101	37	4 (CAL-modified)
DIBENZ(A,H)ANTHRACENE	323	132	41	25	0.002J	840	0.005	55	--	--	NA
FLUORANTHENE	323	185	57	100	0.002J	**7,400**	0.005	55	1	0	2,300
FLUORENE	323	105	33	54	0.002J	1,500	0.01	110	0	0	2,700
INDENO(1,2,3-CD)PYRENE	323	149	46	**59**	0.002J	**3,300**	0.005	**110**	102	72	0.6
NAPHTHALENE	323	141	44	20	0.001J	**600**	0.01	**110**	11	1	56
PHENANTHRENE	323	192	59	88	0.002J	3,700	0.005	55	--	--	NA
PYRENE	323	187	58	130	0.002J	**7,100**	0.005	55	3	0	2,300

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
PCBs/Pesticides (ug/kg)											
4,4'-DDD	96	2	2	7	5	9	2	470	0	0	2,400
4,4'-DDE	96	5	5	24	4	35	2	470	0	0	1,700
4,4'-DDT	96	7	7	30	2	160	2	470	0	0	1,700
ALDRIN	96	0	0	--	--	--	1	**240**	0	4	29
ALPHA-BHC	96	0	0	--	--	--	1	240	--	--	NA
ALPHA-CHLORDANE	36	0	0	--	--	--	4	**2,400**	0	1	1,600 (chlordane)
AROCLOR-1016	96	0	0	--	--	--	26	2,400	0	0	3,900
AROCLOR-1221	96	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1232	96	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1242	96	0	0	--	--	--	26	**2,400**	0	13	220
AROCLOR-1248	96	0	0	--	--	--	17	**2,400**	0	7	220
AROCLOR-1254	96	0	0	--	--	--	17	**4,700**	0	11	220
AROCLOR-1260	96	0	0	--	--	--	17	**4,700**	0	11	220
BETA-BHC	96	2	2	3	2	4	1	240	--	--	NA
CHLORDANE	59	0	0	--	--	--	10	530	0	0	1,600
DELTA-BHC	96	0	0	--	--	--	1	240	--	--	NA
DIELDRIN	96	0	0	--	--	--	1	**470**	0	5	30
ENDOSULFAN I	96	0	0	--	--	--	2	240	0	0	370,000
ENDOSULFAN II	96	0	0	--	--	--	2	470	0	0	370,000 (endosulfan)
ENDOSULFAN SULFATE	96	0	0	--	--	--	2	470	--	--	NA
ENDRIN	94	0	0	--	--	--	2	470	0	0	18,000
ENDRIN ALDEHYDE	60	0	0	--	--	--	2	100	--	--	NA
ENDRIN KETONE	36	0	0	--	--	--	8	470	--	--	NA
GAMMA-BHC (LINDANE)	95	0	0	--	--	--	1	240	--	--	NA
GAMMA-CHLORDANE	36	0	0	--	--	--	4	**2,400**	0	1	1,600 (chlordane)
HEPTACHLOR	94	0	0	--	--	--	1	**240**	0	1	110
HEPTACHLOR EPOXIDE	92	1	1	5	5	5	1	**240**	0	2	53
METHOXYCHLOR	96	0	0	--	--	--	5	2,400	0	0	310,000
TOXAPHENE	95	0	0	--	--	--	52	**4,700**	0	13	440

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Residential PRG
Metals (mg/kg)											
ALUMINUM	173	173	100	7,730	45.8	35,700	0.0	0.0	0	0	76,000
ANTIMONY	184	65	35	2.5	0.37J	8.2	0.15	7.8	0	0	31.0
ARSENIC	183	106	58	**4.3**	**1.1**	**20.0**	**1.2**	**13.0**	106	77	0.39
BARIUM	183	177	97	62.8	9.6	376	21.0	61.0	0	0	5,400
BERYLLIUM	184	74	40	0.48	0.080J	2.0	0.050	1.3	0	0	150
CADMIUM	184	91	49	0.60	0.020J	18.0	0.020	2.4	0	0	37.0
CALCIUM	173	173	100	3,150	363	26,500	0.0	0.0	--	--	NA
CHROMIUM	183	183	100	37.5	3.4J	**337**	0.0	0.0	1	0	210
COBALT	184	151	82	6.0	1.4	20.2	0.15	14.9	0	0	900
COPPER	183	169	92	15.2	1.2J	160	4.8	9.4	0	0	3,100
IRON	173	173	100	12,300	1,110J	**74,800**	0.0	0.0	8	0	23,000
LEAD	212	144	68	64.1	1.0	**2,240**	2.5	6.5	9	0	150 (CAL-modified)
MAGNESIUM	173	173	100	3,000	153J	14,400	0.0	0.0	--	--	NA
MANGANESE	173	173	100	156	7.5	702	0.0	0.0	0	0	1,800
MERCURY	89	41	46	0.11	0.010J	0.86	0.010	0.22	0	0	23.0
MOLYBDENUM	184	4	2	2.1	0.25J	5.9 J	0.15	6.5	0	0	390
NICKEL	183	181	99	36.3	1.2J	278	13.8	15.8	0	0	1,600
POTASSIUM	173	162	94	962	270	4,950	170	654	--	--	NA
SELENIUM	183	53	29	1.8	0.14J	15.0	0.29	13.0	0	0	390
SILVER	184	4	2	0.68	0.23J	1.6 J	0.14	6.5	0	0	390
SODIUM	173	136	79	566	69.6J	4,680	60.8	650	--	--	NA
THALLIUM	183	1	1	2.7	2.7	2.7	0.11	**13.0**	0	43	5.2
TITANIUM	94	94	100	413	42.6	655	0.0	0.0	--	--	NA
VANADIUM	183	183	100	34.1	2.0J	**1,780**	0.0	0.0	1	0	550
ZINC	183	183	100	78.1	5.6J	7,120	0.0	0.0	0	0	23,000

TABLE 6-15: SITE 13 STATISTICAL SUMMARY OF SOIL ANALYSES

All Soil Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

NOTES:

Bold denotes values elevated above the PRG

--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
J	Estimated value
mg/kg	Milligrams per kilogram
NA	No PRG available
PCB	Polychlorinated biphenyl
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (ug/L)												
1,1,1,2-TETRACHLOROETHANE	24	0	0	--	--	--	**0.5**	**1**	0	24	0.4	NA
1,1,1-TRICHLOROETHANE	108	4	4	14	1	37J	0.5	50	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	108	0	0	--	--	--	**0.5**	**50**	0	108	0.06	1
1,1,2-TRICHLOROETHANE	108	0	0	--	--	--	**0.5**	**50**	0	108	0.2	5
1,1-DICHLOROETHANE	108	0	0	--	--	--	0.5	**50**	0	7	2 (CAL-modified)	5
1,1-DICHLOROETHENE	108	2	2	5	1J	9	0.5	50	0	0	340	6
1,1-DICHLOROPROPENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,2,3-TRICHLOROBENZENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,2,3-TRICHLOROPROPANE	22	0	0	--	--	--	**0.5**	**0.5**	0	22	0.006	NA
1,2,4-TRICHLOROBENZENE	30	0	0	--	--	--	0.5	1	0	0	190	5
1,2,4-TRIMETHYLBENZENE	22	1	5	2	2	2	0.5	0.5	0	0	12	NA
1,2-DIBROMO-3-CHLOROPROPANE	30	0	0	--	--	--	**0.5**	**1**	0	30	0.002 (CAL-modified)	0.2
1,2-DICHLOROBENZENE	46	1	2	0.4	0.4J	0.4J	0.5	4	0	0	370	600
1,2-DICHLOROETHANE	108	3	3	**1**	**0.8**	**2**	**0.5**	**50**	3	105	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	75	0	0	--	--	--	1	25	0	0	61 (cis)	NA
1,2-DICHLOROPROPANE	106	0	0	--	--	--	**0.5**	**50**	0	106	0.2	5
1,3,5-TRIMETHYLBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	12	NA
1,3-DICHLOROBENZENE	46	0	0	--	--	--	0.5	4	0	0	6	NA
1,3-DICHLOROPROPANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
1,4-DICHLOROBENZENE	46	1	2	0.4	0.4J	0.4J	0.5	**4**	0	23	0.5	5
2,2-DICHLOROPROPANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
2-BUTANONE	45	0	0	--	--	--	1	100	--	--	NA	NA
2-CHLOROETHYLVINYLETHER	1	0	0	--	--	--	100	100	--	--	NA	NA
2-CHLOROTOLUENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
2-HEXANONE	99	0	0	--	--	--	2	100	--	--	NA	NA
4-CHLOROTOLUENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
4-METHYL-2-PENTANONE	106	1	1	1	1J	1J	2	100	--	--	NA	NA
ACETONE	50	11	22	24	0.7J	99J	0.4	100	0	0	610	NA
BENZENE	108	9	8	**130**	**0.7**	**440**	**0.5**	**5**	9	99	0.3	1
BROMOBENZENE	22	0	0	--	--	--	0.5	0.5	0	0	20	NA
BROMOCHLOROMETHANE	30	0	0	--	--	--	0.5	1	--	--	NA	NA

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (ug/L)												
BROMODICHLOROMETHANE	106	0	0	--	--	--	**0.5**	**50**	0	106	0.2	80
BROMOFORM	106	0	0	--	--	--	1	**50**	0	2	9	80
BROMOMETHANE	106	2	2	0.6	0.5J	0.6J	1	**100**	0	7	9	NA
CARBON DISULFIDE	106	3	3	0.7	0.3J	1	0.5	50	0	0	1,000	NA
CARBON TETRACHLORIDE	106	0	0	--	--	--	**0.5**	**50**	0	106	0.2	0.5
CHLOROBENZENE	108	2	2	0.4	0.2J	0.6J	0.5	50	0	0	110	70
CHLOROETHANE	108	0	0	--	--	--	1	**100**	0	7	5	NA
CHLOROFORM	106	0	0	--	--	--	0.5	**50**	0	84	0.5 (CAL-modified)	80
CHLOROMETHANE	108	1	1	0.3	0.3J	0.3J	1	**100**	0	76	2	NA
CIS-1,2-DICHLOROETHENE	32	0	0	--	--	--	0.5	1	0	0	61	6
CIS-1,2-DICHLOROPROPENE	1	0	0	--	--	--	50	50	--	--	NA	NA
CIS-1,3-DICHLOROPROPENE	83	0	0	--	--	--	**0.5**	**25**	0	83	0.4 (not cis)	0.5
DIBROMOCHLOROMETHANE	106	0	0	--	--	--	**0.5**	**50**	0	106	0.1	80
DIBROMOMETHANE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
DICHLORODIFLUOROMETHANE	22	0	0	--	--	--	1	1	0	0	390	NA
DIISOPROPYL ETHER	22	1	5	0.8	0.8J	0.8J	0.5	0.5	--	--	NA	NA
ETHYL TERT-BUTYL ETHER	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
ETHYLBENZENE	108	9	8	**28**	1	**130**	0.2	**50**	6	6	3	300
ETHYLENE DIBROMIDE	33	0	0	--	--	--	0.5	1	--	--	NA	0.05
HEXACHLOROBUTADIENE	22	0	0	--	--	--	0.5	0.5	0	0	0.9	NA
ISOPROPYLBENZENE	22	4	18	1	0.3J	3	0.5	0.5	--	--	NA	NA
M,P-XYLENE	24	1	4	2	2	2	0.5	1	0	0	210 (xylenes)	NA
METHYL-T-BUTYL ETHER	38	0	0	--	--	--	0.1	**10**	0	1	6 (CAL-modified)	13
METHYLENE CHLORIDE	108	0	0	--	--	--	0.1	**50**	0	25	4	NA
N-BUTYLBENZENE	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
N-PROPYLBENZENE	22	3	14	0.6	0.3J	0.8	0.5	0.5	0	0	240	NA
NAPHTHALENE	24	5	21	**83**	1J	**210**	1	2	3	0	6	NA
O-XYLENE	24	1	4	0.2	0.2J	0.2J	0.5	1	0	0	210 (xylenes)	NA
P-ISOPROPYLTOLUENE	22	3	14	0.3	0.2J	0.3J	0.5	0.5	--	--	NA	NA
SEC-BUTYLBENZENE	22	3	14	0.9	0.2J	1	0.5	0.5	0	0	240	NA
STYRENE	106	0	0	--	--	--	0.5	50	0	0	1,600	100

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Volatile Organic Compounds (µg/L)												
TERT-AMYL METHYL ETHER	22	0	0	--	--	--	0.5	0.5	--	--	NA	NA
TERT-BUTANOL	22	1	5	4	4J	4J	10	20	--	--	NA	NA
TERT-BUTYLBENZENE	22	2	9	0.7	0.5J	0.8	0.5	0.5	0	0	240	NA
TETRACHLOROETHENE	108	0	0	--	--	--	0.5	**50**	0	86	0.7	5
TOLUENE	108	3	3	6	0.9J	8	0.5	50	0	0	720	150
TRANS-1,2-DICHLOROETHENE	33	0	0	--	--	--	0.5	50	0	0	120	10
TRANS-1,3-DICHLOROPROPENE	84	0	0	--	--	--	**0.5**	**50**	0	84	0.4 (not trans)	0.5
TRICHLOROETHENE	108	4	4	**0.6**	**0.2J**	**1**	**0.5**	**50**	4	104	0.03	5
TRICHLOROFLUOROMETHANE	23	0	0	--	--	--	1	50	--	--	NA	NA
VINYL ACETATE	6	0	0	--	--	--	5	100	0	0	410	NA
VINYL CHLORIDE	108	0	0	--	--	--	**0.5**	**100**	0	108	0.02 (child or adult)	0.5
XYLENE (TOTAL)	84	8	10	110	0.3J	**530**	1	50	2	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	71	0	0	--	--	--	5	100	0	0	190	5
1,2-DICHLOROBENZENE	71	0	0	--	--	--	5	50	0	0	370	600
1,3-DICHLOROBENZENE	71	0	0	--	--	--	5	**50**	0	6	6	NA
1,4-DICHLOROBENZENE	71	0	0	--	--	--	**5**	**50**	0	71	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	66	0	0	--	--	--	5	100	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	71	0	0	--	--	--	25	250	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	71	0	0	--	--	--	**5**	**100**	0	71	1 (CAL-modified)	NA
2,4-DICHLOROPHENOL	71	1	1	7	7J	7J	5	100	0	0	110	NA
2,4-DIMETHYLPHENOL	71	0	0	--	--	--	5	100	0	0	730	NA
2,4-DINITROPHENOL	60	0	0	--	--	--	25	**250**	0	1	73	NA
2,4-DINITROTOLUENE	71	0	0	--	--	--	5	**100**	0	1	73	NA
2,6-DINITROTOLUENE	71	0	0	--	--	--	5	**100**	0	1	36	NA
2-CHLORONAPHTHALENE	71	0	0	--	--	--	5	100	--	--	NA	NA
2-CHLOROPHENOL	71	0	0	--	--	--	5	**100**	0	1	30	NA
2-METHYLNAPHTHALENE	71	9	13	23	0.9J	130	5	10	--	--	NA	NA
2-METHYLPHENOL	71	0	0	--	--	--	5	100	0	0	1,800	NA
2-NITROANILINE	71	0	0	--	--	--	**25**	**250**	0	71	1	NA

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (µg/L)												
2-NITROPHENOL	71	0	0	--	--	--	10	100	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	71	0	0	--	--	--	**10**	**100**	0	71	0.2	NA
3-NITROANILINE	71	0	0	--	--	--	25	250	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	71	0	0	--	--	--	25	250	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	71	0	0	--	--	--	5	100	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	71	1	1	0.7	0.7J	0.7J	10	100	--	--	NA	NA
4-CHLOROANILINE	71	0	0	--	--	--	5	100	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	71	0	0	--	--	--	5	100	--	--	NA	NA
4-METHYLPHENOL	71	0	0	--	--	--	5	100	0	0	180	NA
4-NITROANILINE	71	0	0	--	--	--	25	250	--	--	NA	NA
4-NITROPHENOL	71	0	0	--	--	--	25	250	--	--	NA	NA
ACENAPHTHENE	71	0	0	--	--	--	5	100	0	0	370	NA
ACENAPHTHYLENE	71	0	0	--	--	--	5	100	--	--	NA	NA
ANILINE	1	0	0	--	--	--	5	5	--	--	NA	NA
ANTHRACENE	71	0	0	--	--	--	5	100	0	0	1,800	NA
AZOBENZENE	1	0	0	--	--	--	5	5	--	--	NA	NA
BENZIDINE	1	0	0	--	--	--	5	5	--	--	NA	NA
BENZO(A)ANTHRACENE	71	0	0	--	--	--	**5**	**100**	0	71	0.09	0.1
BENZO(A)PYRENE	71	0	0	--	--	--	**0.2**	**100**	0	71	0.009	0.2
BENZO(B)FLUORANTHENE	71	0	0	--	--	--	**5**	**100**	0	71	0.09	NA
BENZO(G,H,I)PERYLENE	71	0	0	--	--	--	10	100	--	--	NA	NA
BENZO(K)FLUORANTHENE	71	0	0	--	--	--	**5**	**100**	0	71	0.06 (CAL-modified)	NA
BENZOIC ACID	6	0	0	--	--	--	25	50	0	0	150,000	NA
BENZYL ALCOHOL	6	0	0	--	--	--	5	10	0	0	11,000	NA
BIS(2-CHLOROETHOXY)METHANE	71	0	0	--	--	--	5	100	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	71	0	0	--	--	--	**5**	**100**	0	71	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	71	0	0	--	--	--	4	**40**	0	9	5	NA
BUTYLBENZYLPHTHALATE	71	0	0	--	--	--	5	100	0	0	7,300	NA
CARBAZOLE	65	1	2	0.6	0.6J	0.6J	**10**	**100**	0	64	3	NA
CHRYSENE	71	0	0	--	--	--	**5**	**100**	0	71	0.6 (CAL-modified)	NA
DI-N-BUTYLPHTHALATE	71	0	0	--	--	--	5	100	--	--	NA	NA

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

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Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Semivolatile Organic Compounds (ug/L)												
DI-N-OCTYLPHTHALATE	71	0	0	--	--	--	5	100	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	71	0	0	--	--	--	**10**	**100**	0	71	0.009	NA
DIBENZOFURAN	71	0	0	--	--	--	5	**100**	0	1	24	NA
DIETHYLPHTHALATE	71	0	0	--	--	--	5	100	0	0	29,000	NA
DIMETHYLPHTHALATE	71	0	0	--	--	--	5	100	0	0	360,000	NA
FLUORANTHENE	71	0	0	--	--	--	5	100	0	0	1,500	NA
FLUORENE	71	4	6	1	0.8J	2J	10	100	0	0	240	NA
HEXACHLOROBENZENE	71	0	0	--	--	--	**5**	**100**	0	71	0.04	1
HEXACHLOROBUTADIENE	71	0	0	--	--	--	**5**	**100**	0	71	0.9	NA
HEXACHLOROCYCLOPENTADIENE	71	0	0	--	--	--	5	100	0	0	220	NA
HEXACHLOROETHANE	71	0	0	--	--	--	**5**	**100**	0	71	5	NA
INDENO(1,2,3-CD)PYRENE	71	0	0	--	--	--	**10**	**100**	0	71	0.09	NA
ISOPHORONE	71	0	0	--	--	--	5	**100**	0	1	71	NA
N-NITROSO-DI-N-PROPYLAMINE	71	0	0	--	--	--	**5**	**100**	0	71	0.01	NA
N-NITROSODIMETHYLAMINE	1	0	0	--	--	--	5	5	--	--	NA	NA
N-NITROSODIPHENYLAMINE	71	1	1	0.7	0.7J	0.7J	5	**100**	0	10	14	NA
NAPHTHALENE	71	9	13	**40**	2J	**200**	5	**10**	7	61	6	NA
NITROBENZENE	71	0	0	--	--	--	**5**	**100**	0	71	3	NA
PENTACHLOROPHENOL	71	2	3	**4**	**0.6J**	**7J**	**25**	**250**	2	69	0.6	1
PHENANTHRENE	71	1	1	4	4J	4J	10	100	--	--	NA	NA
PHENOL	71	3	4	15	0.9J	37	10	10	0	0	22,000	NA
PYRENE	71	0	0	--	--	--	5	100	0	0	180	NA
Polynuclear Aromatic Hydrocarbons (µg/L)												
ACENAPHTHENE	13	1	8	61	61	61	5	5	0	0	370	NA
ACENAPHTHYLENE	13	0	0	--	--	--	2	10	--	--	NA	NA
ANTHRACENE	13	0	0	--	--	--	0.2	1	0	0	1,800	NA
BENZO(A)ANTHRACENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	0.1
BENZO(A)PYRENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.009	0.2
BENZO(B)FLUORANTHENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	NA
BENZO(G,H,I)PERYLENE	13	1	8	0.6	0.6	0.6	0.2	1	--	--	NA	NA

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Polynuclear Aromatic Hydrocarbons (µg/L)												
BENZO(K)FLUORANTHENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.06 (CAL-modified)	NA
CHRYSENE	13	1	8	0.5	0.5	0.5	0.2	**1**	0	1	0.6 (CAL-modified)	NA
DIBENZO(A,H)ANTHRACENE	13	1	8	**0.5**	**0.5J**	**0.5J**	**0.5**	**3**	1	12	0.009	NA
FLUORANTHENE	13	1	8	0.2	0.2J	0.2J	0.2	1	0	0	1,500	NA
FLUORENE	13	0	0	--	--	--	1	5	0	0	240	NA
INDENO(1,2,3-CD)PYRENE	13	0	0	--	--	--	**0.2**	**1**	0	13	0.09	NA
NAPHTHALENE	13	1	8	**60**	**60**	**60**	5	5	1	0	6	NA
PHENANTHRENE	13	0	0	--	--	--	1	5	--	--	NA	NA
PYRENE	13	1	8	0.1	0.1J	0.1J	0.2	1	0	0	180	NA
PCBs/Pesticides (µg/L)												
4,4'-DDD	42	0	0	--	--	--	0.02	0.2	0	0	0.3	NA
4,4'-DDE	42	0	0	--	--	--	0.02	0.2	0	0	0.2	NA
4,4'-DDT	42	1	2	0.08	0.08	0.08	0.02	0.2	0	0	0.2	NA
ALDRIN	42	0	0	--	--	--	**0.02**	**0.1**	0	42	0.004	NA
ALPHA-BHC	42	0	0	--	--	--	0.02	0.1	--	--	NA	NA
ALPHA-CHLORDANE	40	0	0	--	--	--	0.05	0.1	0	0	0.2 (chlordane)	NA
AROCLOR-1016	42	0	0	--	--	--	0.3	**1**	0	1	1	NA
AROCLOR-1221	42	0	0	--	--	--	**0.3**	**1**	0	42	0.03	NA
AROCLOR-1232	42	0	0	--	--	--	**0.3**	**1**	0	42	0.03	NA
AROCLOR-1242	42	0	0	--	--	--	**0.3**	**1**	0	42	0.03	NA
AROCLOR-1248	42	0	0	--	--	--	**0.3**	**1**	0	42	0.03	NA
AROCLOR-1254	42	0	0	--	--	--	**0.5**	**1**	0	42	0.03	NA
AROCLOR-1260	42	0	0	--	--	--	**0.5**	**1**	0	42	0.03	NA
BETA-BHC	42	0	0	--	--	--	0.02	0.1	--	--	NA	NA
CHLORDANE	2	0	0	--	--	--	**0.3**	**0.3**	0	2	0.2	NA
DELTA-BHC	42	0	0	--	--	--	0.02	0.1	--	--	NA	NA
DIELDRIN	42	0	0	--	--	--	**0.02**	**0.2**	0	42	0.004	NA
ENDOSULFAN I	42	0	0	--	--	--	0.02	0.1	0	0	220	NA
ENDOSULFAN II	45	0	0	--	--	--	0.02	0.2	--	--	NA	NA
ENDOSULFAN SULFATE	42	0	0	--	--	--	0.02	0.2	--	--	NA	NA

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
PCBs/Pesticides (µg/L)												
ENDRIN	42	0	0	--	--	--	0.02	0.2	0	0	11	2
ENDRIN ALDEHYDE	45	0	0	--	--	--	0.02	0.2	--	--	NA	NA
ENDRIN KETONE	40	0	0	--	--	--	0.1	0.2	--	--	NA	NA
GAMMA-BHC (LINDANE)	42	0	0	--	--	--	0.02	0.1	--	--	NA	NA
GAMMA-CHLORDANE	40	0	0	--	--	--	0.05	0.1	0	0	0.2 (chlordane)	NA
HEPTACHLOR	42	0	0	--	--	--	**0.02**	**0.1**	0	42	0.02	0.01
HEPTACHLOR EPOXIDE	45	0	0	--	--	--	**0.01**	**0.02**	0	45	0.007	0.01
METHOXYCHLOR	42	0	0	--	--	--	0.05	1	0	0	180	30
TOXAPHENE	42	0	0	--	--	--	**1**	**6**	0	42	0.06	3
Metals (µg/L)												
Filtered												
ALUMINUM	85	25	29	11,800	4.6J	**244,000**	8.4	1,230	2	0	36,000	NA
ANTIMONY	79	19	24	3.2	0.051J	**30.0**	0.093	**60.0**	1	4	15.0	6.0
ARSENIC	79	40	51	**12.8**	**0.21J**	**96.0**	**0.80**	**200**	40	39	0.045	10.0
BARIUM	86	76	88	150	7.6J	1,700	6.7	49.5	0	0	2,600	1,000
BERYLLIUM	79	16	20	1.7	0.14J	6.0	0.10	10.0	0	0	73.0	4.0
CADMIUM	79	10	13	0.61	0.065J	1.7J	0.069	10.0	0	0	18.0	5.0
CALCIUM	85	84	99	79,800	9,590	253,000	89.8	89.8	--	--	NA	NA
CHROMIUM	79	25	32	36.8	0.090J	720	0.30	10.0	--	--	NA	50.0
COBALT	79	18	23	12.0	0.10J	170	0.093	50.0	0	0	730	NA
COPPER	86	21	24	15.4	0.57J	190	0.65	42.5	0	0	1,500	1,300
IRON	85	48	56	13,600	7.4J	**300,000**	3.2	429	7	0	11,000	NA
LEAD	83	12	14	167	0.13J	1,770	0.022	50.0	--	--	NA	15.0
MAGNESIUM	85	84	99	44,700	110J	322,000	32.4	32.4	--	--	NA	NA
MANGANESE	85	82	96	1,700	1.4J	**11,000**	1.2	2.8	37	0	880	NA
MERCURY	77	3	4	0.11	0.046J	0.22J	0.10	1.0	0	0	11.0	2.0
MOLYBDENUM	78	13	17	13.3	0.41J	106J	0.25	50.0	0	0	180	NA
NICKEL	79	17	22	72.6	1.6J	**920**	1.3	20.0	1	0	730	100
POTASSIUM	85	80	94	10,000	680	115,000	763	2,340	--	--	NA	NA
SELENIUM	78	9	12	14.3	0.36J	120	0.80	100	0	0	180	50.0
SILVER	78	4	5	0.28	0.037J	0.68J	0.10	20.0	0	0	180	NA

TABLE 6-16: SITE 13 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

All Groundwater Investigations

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentration	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Non-detected Concentration	Maximum Non-detected Concentration	Number of Detections Over PRG	Number of Non-detects Over PRG	Tap Water PRG	MCL
Metals (µg/L)												
Filtered												
SODIUM	85	85	100	194,000.	351J	3,060,000	0.0	0.0	--	--	NA	NA
THALLIUM	79	2	3	**7.0**	**4.0J**	**10.0J**	0.037	**100**	2	47	2.4	2.0
TITANIUM	2	2	100	3,450	1,300	5,600	0.0	0.0	--	--	NA	NA
VANADIUM	79	24	30	34.1	0.33J	**550**	0.30	13.9	1	0	260	NA
ZINC	86	26	30	47.4	0.84J	560	2.2	42.4	0	0	11,000	NA

NOTES:

Bold denotes values elevated above the PRG

--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
J	Estimated value
MCL	Maximum Contaminant Level
NA	No criteria available
PCB	Polychlorinated biphenyl
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified
µg/L	Micrograms per liter

TABLE 6-17: SITE 13 STATISTICAL SUMMARY OF SOIL GAS

Supplemental RI Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 6, 7, 8, and 16, Alameda Point, Alameda, California

Analyte	Number of Samples Analyzed	Number of Detections	Percent of Detections	Average of Detected Concentrations	Minimum Detected Concentration	Maximum Detected Concentration	Minimum Detection Limit	Maximum Detection Limit	Number of Detection Limits Over PRG	Ambient Air PRG
Volatile Organic Compounds (µg/m³)										
1,1,1-TRICHLOROETHANE	2	0	0	--	--	--	17.75	18.31	0	2,300
1,1,2,2-TETRACHLOROETHANE	2	1	50	**70.79**	**70.79**	**70.79**	**22.33**	**22.33**	1	0.033
1,1,2-TRICHLOROETHANE	2	1	50	**222.67**	**222.67**	**222.67**	**17.75**	**17.75**	1	0.12
1,1-DICHLOROETHANE	2	0	0	--	--	--	**13.16**	**13.58**	2	1.2 (CAL-modified)
1,1-DICHLOROETHENE	2	0	0	--	--	--	12.9	13.3	0	210
1,2-DICHLOROBENZENE	2	0	0	--	--	--	19.55	20.18	0	210
1,2-DICHLOROETHANE	2	1	50	**27.61**	**27.61**	**27.61**	**13.16**	**13.16**	1	0.074
1,3-DICHLOROBENZENE	2	0	0	--	--	--	**19.55**	**20.18**	2	3.3
1,4-DICHLOROBENZENE	2	0	0	--	--	--	**19.55**	**20.18**	2	0.31
BENZENE	2	2	100	**41.36**	**30.72**	**52**	--	--	--	0.23
CHLOROETHANE	2	0	0	--	--	--	**8.58**	**8.86**	2	2.3
CHLOROMETHANE	2	0	0	--	--	--	**6.72**	**6.93**	2	1.1
CIS-1,2-DICHLOROETHENE	2	0	0	--	--	--	12.9	13.3	0	37
ETHYLBENZENE	2	2	100	**33.09**	**17.91**	**48.27**	--	--	--	1.7
M-XYLENE	2	2	100	**142.09**	74.56	**209.61**	--	--	--	110
NAPHTHALENE	2	0	0	--	--	--	170.5	175.91	--	NA
O-XYLENE	2	2	100	25.19	14.75	35.62	--	--	--	110
TETRACHLOROETHENE	2	2	100	**31.35**	**28.83**	**33.86**	--	--	--	0.67
TOLUENE	2	2	100	**621.49**	304.82	**938.15**	--	--	--	400
TRANS-1,2-DICHLOROETHENE	2	0	0	--	--	--	12.9	13.3	0	73
TRICHLOROETHENE	2	0	0	--	--	--	**17.48**	**18.03**	2	0.017
VINYL CHLORIDE	2	0	0	--	--	--	**8.31**	**8.58**	2	0.11

NOTES:

Bold denotes value elevated above the PRG

-- Not detected

PRG Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified

µg/m³ Micrograms per cubic meter

TABLE 6-18: SITE 13 SUMMARY OF HUMAN HEALTH RISKS; REASONABLE MAXIMUM EXPOSURE

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

	CANCER RISK					NONCANCER HAZARD				
EXPOSURE PATHWAY	Current/ Future Industrial Worker (0-2 ft)	Future Construction Worker (0-2 ft)	Future Resident (Adult + Child) (0-2 ft)	Future Construction Worker (0-8 ft)	Future Resident (Adult + Child) (0-8 ft)	Current/ Future Industrial Worker (0-2 ft)	Future Construction Worker (0-2 ft)	Future Resident (Child) (0-2 ft)	Future Construction Worker (0-8 ft)	Future Resident (Child) (0-8 ft)
Soil Exposure Pathways										
Soil Ingestion	6.E-06	7.E-07	2.E-05	5.E-07	2.E-05	0.03	0.1	0.4	0.08	0.3
Dermal Contact with Soil	1.E-06	9.E-08	3.E-06	7.E-08	2.E-06	0.01	0.01	0.03	0.01	0.02
Inhalation of Particulates and Volatiles Released from Soil to Outdoor Air	8.E-09	3.E-10	2.E-08	3.E-09	1.E-07	--	--	--	0.06	0.2
Ingestion of Homegrown Produce	--	--	3.E-05	--	2.E-05	--	--	0.2	--	0.1
Soil Total	**7.E-06**	**8.E-07**	**6.E-05**	**6.E-07**	**4.E-05**	**0.04**	**0.1**	**0.6**	**0.2**	**0.7**
Groundwater Exposure Pathways										
Inhalation of Volatiles Released from Groundwater to Indoor Air	--	--	--	--	--	--	--	--	--	--
Groundwater Ingestion	--	--	7.E-04	--	7.E-04	--	--	30	--	30
Dermal Contact with Groundwater	--	--	3.E-05	--	3.E-05	--	--	0.3	--	0.3
Inhalation of Volatiles Released from Household Use of Groundwater	--	--	1.E-06	--	1.E-06	--	--	0.7	--	0.7
Groundwater Total	--	--	**7.E-04**	--	**7.E-04**	--	--	**31**	--	**31**
Multipathway Total	**7E-06**	**8E-07**	**8.E-04**	**6E-07**	**7.E-04**	**0.04**	**0.1**	**32**	**0.2**	**32**

Notes:

-- Not applicable; exposure pathway is not complete for this receptor.

(0-2 ft) Interval of soil below ground surface evaluated in this exposure scenario

(0-8 ft) Interval of soil below ground surface evaluated in this exposure scenario

TABLE 6-19: SITE 13 SUMMARY OF HUMAN HEALTH RISKS; CENTRAL TENDENCY EXPOSURE

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

EXPOSURE PATHWAY	CANCER RISK					NONCANCER HAZARD				
	Current/ Future Industrial Worker (0-2 ft)	Future Construction Worker (0-2 ft)	Future Resident (Adult + Child) (0-2 ft)	Future Construction Worker (0-8 ft)	Future Resident (Adult + Child) (0-8 ft)	Current/ Future Industrial Worker (0-2 ft)	Future Construction Worker (0-2 ft)	Future Resident (Child) (0-2 ft)	Future Construction Worker (0-8 ft)	Future Resident (Child) (0-8 ft)
Soil Exposure Pathways										
Soil Ingestion	2.E-07	3.E-08	6.E-06	2.E-08	5.E-06	0.008	0.004	0.1	0.004	0.1
Dermal Contact with Soil	1.E-08	3.E-09	2.E-07	3.E-09	2.E-07	0.0003	0.0004	0.004	0.0003	0.003
Inhalation of Particulates and Volatiles Released from Soil to Outdoor Air	9.E-11	4.E-11	2.E-10	2.E-10	1.E-09	--	--	--	0.001	0.0006
Ingestion of Homegrown Produce	--		2.E-06	--	1.E-06	--	--	0.02	--	0.01
Soil Total	**3.E-07**	**3.E-08**	**7.E-06**	**3.E-08**	**6.E-06**	**0.008**	**0.005**	**0.1**	**0.006**	**0.1**
Groundwater Exposure Pathways										
Inhalation of Volatiles Released from Groundwater to Indoor Air	--	--	--	--	--	--	--	--	--	--
Groundwater Ingestion	--	--	1.E-04	--	1.E-04	--	--	24	--	24
Dermal Contact with Groundwater	--	--	7.E-06	--	7.E-06	--	--	0.08	--	0.08
Inhalation of Volatiles Released from Household Use of Groundwater	--	--	6.E-09	--	6.E-09	--	--	0.004	--	0.004
Groundwater Total	--	--	**1.E-04**	--	**1.E-04**	--	--	**24**	--	**24**
Multipathway Total	**3E-07**	**3E-08**	**1.E-04**	**3E-08**	**1.E-04**	**0.008**	**0.005**	**24**	**0.006**	**24**

Notes:

-- Not applicable; exposure pathway is not complete for this receptor.

(0-2 ft) Interval of soil below ground surface evaluated in this exposure scenario

(0-8 ft) Interval of soil below ground surface evaluated in this exposure scenario

TABLE 6-20: RESULTS OF CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN SCREENING FOR SOIL AT SITE 13

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	SCREENING EVALUATION	
	Rejected	Retained
Metals		
Aluminum	CSB	--
Antimony	--	X
Arsenic	--	X
Barium	CSB	--
Beryllium	CSB	--
Cadmium	CSB	--
Chromium	CSB	--
Cobalt	CSB	--
Copper	CSB	--
Iron	EN	--
Lead	--	X
Manganese	CSB	--
Mercury	--	X
Molybdenum	FOD	--
Nickel	CSB	--
Selenium	--	X
Silver	FOD	--
Thallium	FOD	--
Titanium	CSB	--
Vanadium	CSB	--
Zinc	--	X
Pesticides and Polychlorinated Biphenyls		
alpha-Chlordane	--	--
Aroclor-1260	--	--
4,4'-Dichlorodiphenyldichloroethane	--	--
4,4'-Dichlorodiphenyldichloroethene	--	X
4,4'-Dichlorodiphenyltrichloroethane	--	X
gamma-Chlordane	--	--
Heptachlor epoxide	--	X
Semivolatile Organic Compounds		
1,2,4-Trichlorobenzene	--	--
2,4-Dimethylphenol	FOD-NB	--
2-Chlorophenol	--	--
2-Methylnaphthalene	--	X
2-Methylphenol	--	--
4-Chloro-3-Methylphenol	--	--
4-Methylphenol	--	--
Acenaphthene	--	X
Acenaphthylene	--	X
Anthracene	--	X
Benzo(a)anthracene	--	X
Benzo(a)pyrene	--	X
Benzo(b)fluoranthene	--	X
Benzo(g,h,i)perylene	--	X
Benzo(k)fluoranthene	--	X
Bis(2-ethylhexyl)phthalate	--	--
Carbazole	--	X

TABLE 6-20: RESULTS OF CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN SCREENING FOR SOIL AT SITE 13

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23, Alameda Point, Alameda, California

CHEMICAL OF POTENTIAL ECOLOGICAL CONCERN	SCREENING EVALUATION	
	Rejected	Retained
Semivolatile Organic Compounds (Continued)		
Chrysene	--	X
Dibenzo(a,h)anthracene	--	X
Di-n-butylphthalate	--	X
Fluoranthene	--	X
Fluorene	--	X
Indeno(1,2,3-cd)pyrene	--	X
Naphthalene	--	X
n-Nitroso-diphenylamine	--	X
Pentachlorphenol	--	X
Phenanthrene	--	X
Pyrene	--	X
Volatile Organic Compounds		
1,2-Dichloroethene	--	--
1,3-Dichlorobenzene	--	--
2-Butanone	--	--
4-Methyl-2-Pentanone	--	--
Acetone	--	X
Benzene	--	X
Carbon Disulfide	--	X
Ethylbenzene	--	X
Methylene Chloride	--	--
Tetrachloroethene	--	--
Toluene	--	X
Trichloroethene	--	--
Xylene	--	X

Notes:

--	These analyses were not performed.
CSB	Concentrations within statistical background
EN	Essential nutrient
FOD	Frequency of detection five percent or lower
NB	Non-bioaccumulating
X	These analyses were performed.

TABLE 6-21: SITE 13 ECOLOGICAL RISK ASSESSMENT SOIL HAZARD QUOTIENTS

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23 Alameda Point, Alameda, California

	MEASUREMENT ENDPOINTS							
	Reproductive or physiological impacts to the California ground squirrel		Reproductive or physiological impacts to the Alameda song sparrow		Reproductive or physiological impacts to the American robin		Reproductive or physiological impacts to the Red-tailed hawk	
	HAZARD QUOTIENT							
Ecological COPC	**High TRV**	**Low TRV**	**High TRV**	**Low TRV**	**High TRV**	**Low TRV**	**High TRV**	**Low TRV**
Antimony	3.52E-02[a]	1.82E-01[a]	9.52E-05[b]	3.81E-04[b]	3.02E-04[b]	1.21E-03[b]	1.40E-03[b]	5.62E-03[b]
Arsenic	5.29E-02[a]	2.74E-01[a]	1.50E-04[b]	6.02E-04[b]	4.86E-04[b]	1.94E-03[b]	2.01E-03[b]	8.05E-03[b]
Lead	4.55E-02[a]	1.14E+00[b]	4.12E-03[b]	3.00E+01[b]	1.37E-02[b]	1.01E+02[b]	3.32E-02[b]	2.43E+02[b]
Lead alternate low TRV[c]	NA	NA	NA	8.29E-02[b]	NA	2.77E-01[b]	NA	6.68E-01[b]
Mercury	3.72E-03[a]	5.97E-02[a]	2.75E-03[b]	1.27E-02[b]	8.61E-03[b]	3.97E-02[b]	5.15E-02[b]	2.37E-01[b]
Selenium	5.90E-01[b]	1.43E+01[a]	3.00E-03[b]	1.22E-02[b]	9.57E-03[b]	3.88E-02[b]	4.79E-02[b]	1.94E-01[b]
Zinc	5.08E-02[b]	1.33E+01[a]	3.92E-03[a]	3.92E-02[a]	1.23E-02[a]	1.23E-01[a]	7.03E-02[a]	7.03E-01[a]
DDTt	2.44E-04[b]	4.88E-03[b]	1.45E-04[b]	5.37E-03[b]	4.52E-04[b]	1.67E-02[b]	3.77E-02[b]	1.41E+00[b]
Heptachlor epoxide	1.10E-04[b]	5.76E-03[b]	1.81E-05[b]	6.70E-04[b]	5.64E-05[b]	2.09E-03[b]	1.85E-03[b]	6.90E-02[b]
HMW PAHs	3.52E-03[a]	8.78E-02[a]	QE	QE	QE	QE	QE	QE
LMW PAHs	1.61E-04[b]	4.71E-04[b]	QE	QE	QE	QE	QE	QE
Carbazole	QE	QE	QE	QE	QE	QE	QE	QE
Di-n-butylphthalate	6.84E-03[b]	2.29E-02[b]	6.66E-01[b]	6.66E+00[b]	2.06E+00[b]	2.06E+01[b]	1.54E+00[b]	3.66E+02[b]
n-Nitroso-diphenylamine	QE	QE	QE	QE	QE	QE	QE	QE
Pentachlorophenol	2.35E+01[a]	2.35E+02[a]	QE	QE	QE	QE	QE	QE
Acetone	2.83E-04[a]	1.41E-03[a]	QE	QE	QE	QE	QE	QE
Benzene	4.31E-04[b]	4.31E-03[b]	QE	QE	QE	QE	QE	QE
Carbon disulfide	QE	QE	QE	QE	QE	QE	QE	QE
Ethylbenzene	QE	QE	QE	QE	QE	QE	QE	QE
Toluene	6.02E-03[b]	6.02E-02[b]	QE	QE	QE	QE	QE	QE
Xylene	1.93E+00[b]	2.37E+00[b]	QE	QE	QE	QE	QE	QE

Notes:

[a] TRV based on an physiological effect.

[b] TRV based on an reproductive effect.

TABLE 6-21: SITE 13 ECOLOGICAL RISK ASSESSMENT SOIL HAZARD QUOTIENTS

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23 Alameda Point, Alameda, California

Notes (Continued):

c	The Navy established avian low TRV of 0.014 mg/kg-day is considered highly conservative. For comparison purposes, an alternate, less conservative, low TRV of 3.85 mg/kg-day as referenced by Sample and others (1996) was used.
COPC	Chemical of potential concern
DDTt	Summed concentration of 4,4'-dichlorodiphenyldichloroethane, 4,4'-dichlorodiphenyldichloroethene, and 4,4,-dichlorodiphenyltrichloroethane
HMW	High molecular weight
LMW	Low molecular weight
mg/kg-day	Milligram per kilogram per day
NA	Not applicable
PAH	Polynuclear aromatic hydrocarbon
QE	No TRV developed for COPEC and endpoint-qualitative evaluation only
TRV	Toxicity reference value

Reference: Sample, B.E., D.M. Opresko, and G.W. Suter, II. 1996. "Toxicological Benchmarks for Wildlife: 1996 Revision." ES/ER/TM-86/R3. Oak Ridge National Laboratory. Oak Ridge, Tennessee.

Continue

TABLE 6-22: ECOLOGICAL RISK ASSESSMENT HAZARD QUOTIENTS FOR SOIL BACKGROUND

Remedial Investigation Report for Sites 9, 13, 19, 22, and 23 Alameda Point, Alameda, California

	MEASUREMENT ENDPOINTS							
	Reproductive or physiological impacts to the California ground squirrel		Reproductive or physiological impacts to the Alameda song sparrow		Reproductive or physiological impacts to the American robin		Reproductive or physiological impacts to the Red-tailed hawk	
	HAZARD QUOTIENT							
COPEC	High TRV	Low TRV	High TRV	Low TRV	High TRV	Low TRV	High TRV	Low TRV
Antimony	0.042	0.218	0.000114	0.000455	0.000361	0.00144	0.00168	0.0067
Arsenic	5.06E-02	2.62E-01	1.44E-04	5.76E-04	4.65E-04	1.86E-03	1.92E-03	7.70E-03
Barium	0.0687	0.217	0.0196	0.0393	0.0622	0.125	0.294	0.592
Beryllium	0.00132	0.0132	NV	NV	NV	NV	NV	NV
Cadmium	0.0553	2.37	0.000554	0.00484	0.00179	0.0156	0.0596	0.522
Chromium	0.0171	0.0684	0.00135	0.00672	0.00462	0.023	0.00722	0.036
Copper	0.00531	1.05	0.000434	0.00577	0.00141	0.0188	0.00286	0.0379
Lead	0.0041	0.103	0.000372	2.71	0.00124	9.07	0.00299	21.9
Lead, alternate TRV	NA	NA	NA	0.0075	NA	0.025	NA	0.0603
Mercury	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	0.842	20.4	0.00429	0.0174	0.0137	0.0554	0.0684	0.277
Zinc	0.00523	1.37	0.000404	0.00404	0.00127	0.0127	0.00723	0.0723

Notes:

COPEC	*Chemical of potential ecological concern*
NA	Not applicable
ND	Not detected in background samples
NV	Reference value not available, HQ could not be calculated
TRV	Toxicity reference value