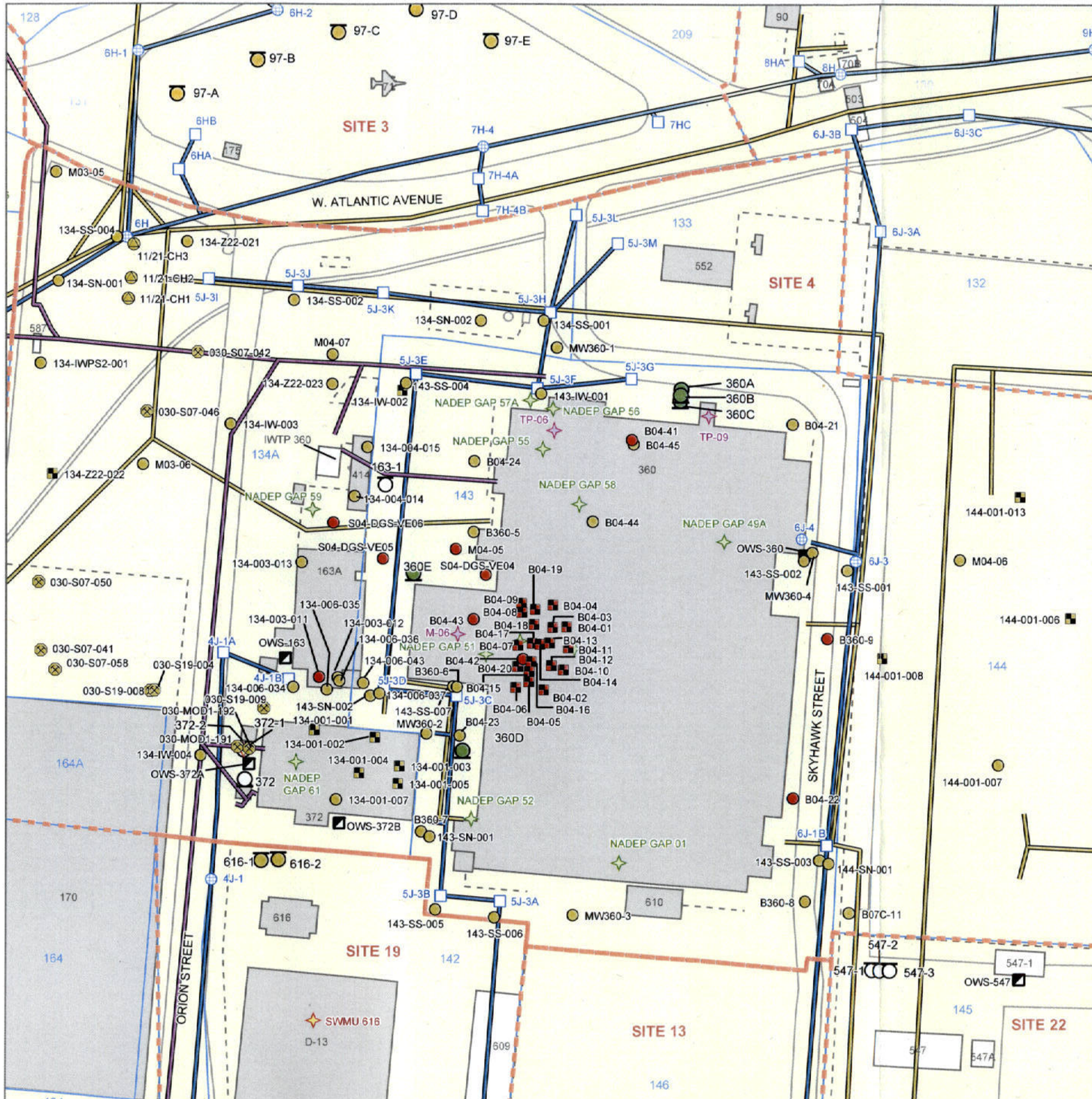
Previous



Sample Location	Sample Depth (feet)	Concentration[1] (mg/kg)	Qualifier
030-MOD1-191	0 - 5	0.11	U
030-MOD1-192	0 - 5.5	0.13	UJ
030-S07-041	0 - 4.5	0.11	U
030-S07-042	0 - 4	0.086	U
030-S07-046	0 - 4.5	0.085	U
030-S07-050	0 - 3.5	0.084	U
030-S07-058	0 - 8	0.059	U
030-S19-004	0 - 7	0.098	U
030-S19-008	0 - 8	0.063	U
030-S19-009	0 - 4.5	0.062	U
11/21-CH1	5 - 15	0.2	U
11/21-CH1	22 - 42	0.22	U
11/21-CH2	5 - 15	0.29	B
11/21-CH2	22 - 42	0.07	B
11/21-CH3	5 - 15	0.43	
11/21-CH3	22 - 42	0.08	B
134-001-001	0 - 0.5	0.54	U
134-001-001	3 - 3.5	0.55	U
134-001-002	0 - 0.5	0.19	U
134-001-002	0 - 0.5	0.54	U
134-001-002	3 - 3.5	0.2	U
134-001-002	3 - 3.5	0.55	U
134-001-003	0 - 0.5	0.54	U
134-001-003	3 - 3.5	0.56	U
134-001-004	0 - 0.5	0.2	U
134-001-004	0 - 0.5	0.56	U
134-001-004	3 - 3.5	0.44	U
134-001-004	3 - 3.5	0.55	U
134-001-005	0 - 0.5	0.53	U
134-001-005	3 - 3.5	0.55	U
134-001-007	0 - 0.5	0.54	U
134-001-007	3 - 3.5	0.58	U
134-003-011	0 - 0.5	0.54	U
134-003-011	0 - 1	**0.62**	B
134-003-011	3 - 3.5	0.19	U
134-003-011	3 - 4	0.54	U
134-003-012	0 - 0.5	0.52	U
134-003-012	3 - 3.5	0.58	U
134-003-013	0 - 1	0.53	U
134-003-013	3 - 3.5	0.55	U
134-004-014	3 - 4.5	0.2	U
134-004-014	3.5 - 4	0.52	U
134-004-015	2.5 - 3	0.54	U
134-006-034	1 - 2	1.3	U
134-006-034	5.5 - 6.5	1.3	U
134-006-035	0.5 - 1.5	1.3	U
134-006-036	1 - 1.5	1.3	U
134-006-037	0.5 - 1.5	1.3	U
134-006-037	6 - 7	1.4	U
134-006-043	0.5 - 1.5	1.3	U
134-006-043	3 - 4	1.3	U
134-IW-002	0.5 - 1	25	U
134-IW-002	7 - 8	0.32	U
134-IW-003	7 - 7.5	0.31	U
134-IW-003	7 - 7.5	25	U
134-IW-004	5 - 5.5	0.47	JU
134-IW-004	5 - 5.5	25	U
134-IWPS2-001	2 - 3	0.45	B
134-IWPS2-001	2 - 3	25	U
134-SN-001	5 - 5.5	0.56	U
134-SN-002	6.5 - 7	25	U
134-SS-001	3.5 - 4	25	U
134-SS-002	2.5 - 3	25	U
134-SS-004	13.5 - 14	25	U
134-Z22-021	2 - 2.5	0.51	U
134-Z22-022	0.5 - 1	0.54	U
134-Z22-023	1 - 1.5	0.51	U
143-IW-001	5 - 6	0.32	U
143-IW-001	5 - 6	25	U
143-SN-001	5 - 6	25	U
143-SN-002	5.5 - 6.5	25	U
143-SS-001	5 - 6	25	U
143-SS-002	3.5 - 4	25	U
143-SS-003	6 - 6.5	25	U
143-SS-004	5 - 5.5	25	U
143-SS-005	7 - 7.5	25	U
143-SS-006	5.5 - 6	25	U

SAMPLING LOCATION
Red = Exceeds Screening Level[2]

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

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- RCRA UNIT
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- INDUSTRIAL WASTE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
B = Compound detected in an associate blank as well as the sample
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
J = Estimated
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
U = Not detected
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes "exceeds screening level."
[2]Screening level based on maximum ambient concentration of 0.61 mg/kg for silver.

60 0 60 120 Feet

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FIGURE 6-26 (1 OF 3)
SITE 4 CONCENTRATIONS OF SILVER IN SOIL

Operable Unit 2B
Remedial Investigation Report

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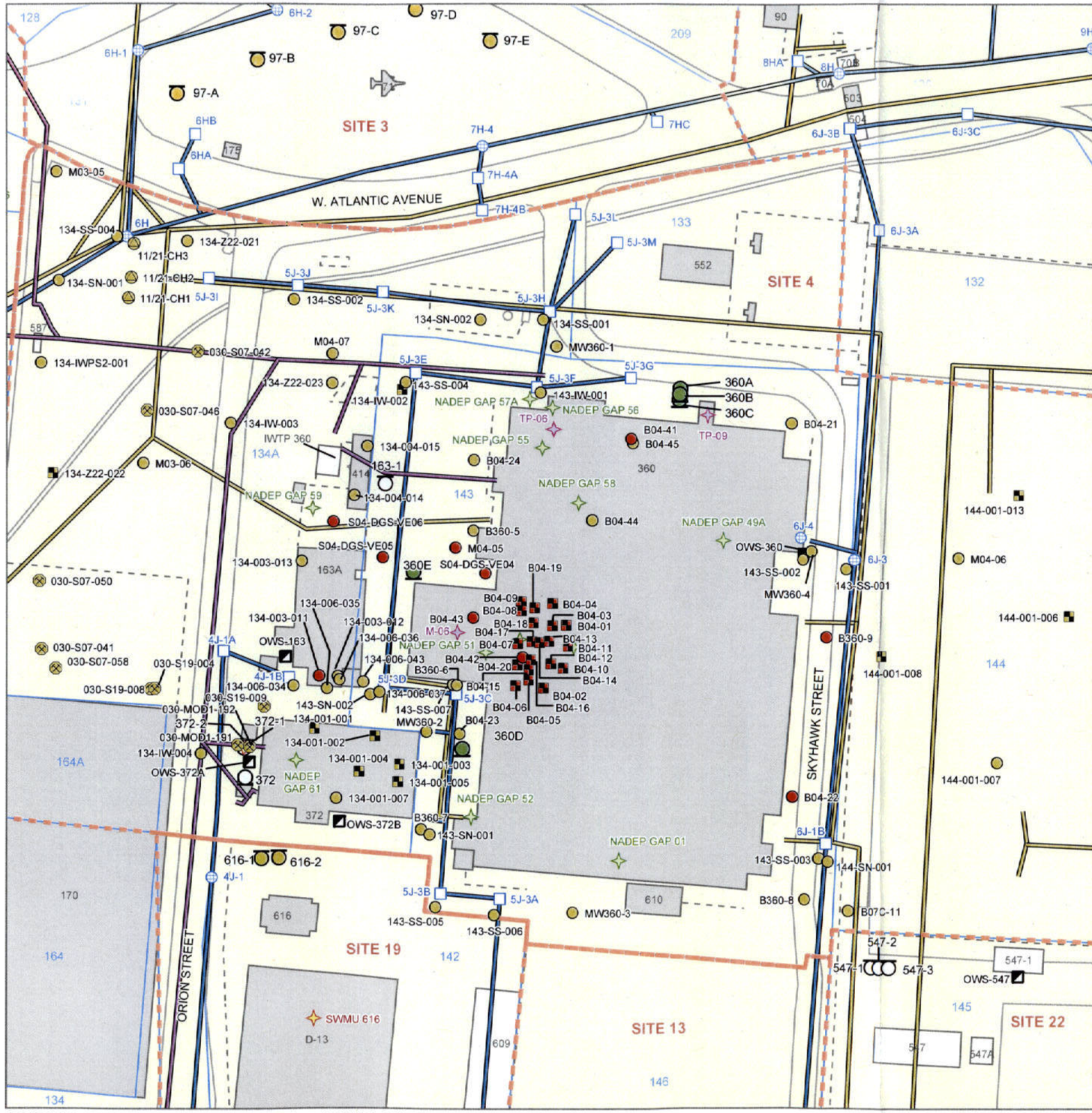

Sample Location	Sample Depth (feet)	Concentration[1] (mg/kg)	Qualifier
143-SS-007	6.5 - 7	25	U
144-001-006	0.5 - 1	25	U
144-001-006	3.2 - 4	25	U
144-001-007	0.5 - 1	25	U
144-001-007	4 - 4.5	25	U
144-001-008	0.5 - 1	25	U
144-001-008	3 - 3.5	25	U
144-001-013	0.5 - 1	0.3	U
144-001-013	0.5 - 1	25	U
144-001-013	3 - 3.5	0.33	U
144-001-013	3 - 3.5	25	U
144-SN-001	4.5 - 5	25	U
B04-01	0 -	**2.12**	
B04-02	0 -	**1.79**	
B04-03	0 -	**9.76**	
B04-04	0 -	**1.57**	
B04-05	0 -	**2.79**	
B04-06	0 -	**2.69**	
B04-07	0 -	**1.01**	
B04-08	0 -	**0.795**	
B04-09	0 -	**10.3**	
B04-10	0 -	**1.62**	
B04-11	0 -	**1.44**	
B04-12	0 -	**7.31**	
B04-13	0 -	**7.86**	
B04-14	0 -	**3.84**	
B04-15	0 -	**1.33**	
B04-16	0 -	**70.5**	
B04-17	0 -	**2.12**	
B04-18	0 -	**1.68**	
B04-19	0 -	**15**	
B04-20	0 -	**1.88**	
B04-21	0.5 - 1	0.43	U
B04-21	2.5 - 3	0.44	U
B04-21	5 - 5.5	0.54	U
B04-22	0.5 - 1	0.45	U
B04-22	2.5 - 3	**1.7**	
B04-22	4.5 - 5.5	0.46	U
B04-23	0.5 - 1.5	0.45	U
B04-23	3.5 - 4	0.44	U
B04-23	5 - 5.5	0.47	U
B04-24	0.5 - 1	0.43	U
B04-24	2.5 - 3	0.45	U
B04-24	5 - 5.5	0.48	U
B04-41	0 - 1	**81.1**	J
B04-41	2.5 - 3.5	**32.7**	J
B04-41	4.5 - 5.5	**5.8**	J
B04-42	0.5 - 1	**15.1**	
B04-42	2.5 - 3	**1.1**	
B04-42	5 - 5.5	0.5	U
B04-43	0 - 1	**3**	
B04-43	2.5 - 3.5	**2.8**	
B04-43	5 - 6	0.21	U
B04-44	0 - 0.5	0.19	U
B04-44	3 - 4	0.19	U
B04-44	5.5 - 6	0.21	U
B04-45	0 - 1	0.22	U
B04-45	2.5 - 3.5	0.21	U
B04-45	4.5 - 5.5	2.4	UJ
B07C-11	0.5 - 1.5	0.18	U
B07C-11	2.5 - 3.5	0.2	U
B07C-11	5 - 6	0.21	U
B360-5	1 - 1.5	0.6	U
B360-5	3 - 3.5	0.6	U
B360-5	6 - 6.5	0.7	U
B360-5	10 - 10.5	0.7	U
B360-5	11.5 - 12	0.7	U
B360-5	15 - 15.5	0.7	U
B360-6	0.5 - 1	5.8	U
B360-6	2.5 - 3	5.5	U
B360-6	5.5 - 6	5.8	U
B360-6	9 - 9.5	6	U
B360-6	12 - 12.5	6	U
B360-6	13.5 - 14	5.9	U
B360-7	1 - 1.5	5.4	U
B360-7	3 - 3.5	5.5	U
B360-7	5.5 - 6	6.5	U
B360-7	9 - 9.5	5.9	U

Notes:
B = Compound detected in an associate blank as well as the sample
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
J = Estimated
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
U = Not detected
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes "exceeds screening level."
[2]Screening level based on maximum ambient concentration of 0.61 mg/kg for silver.

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FIGURE 6-26 (2 OF 3)
SITE 4 CONCENTRATIONS OF SILVER IN SOIL

Operable Unit 2B
Remedial Investigation Report

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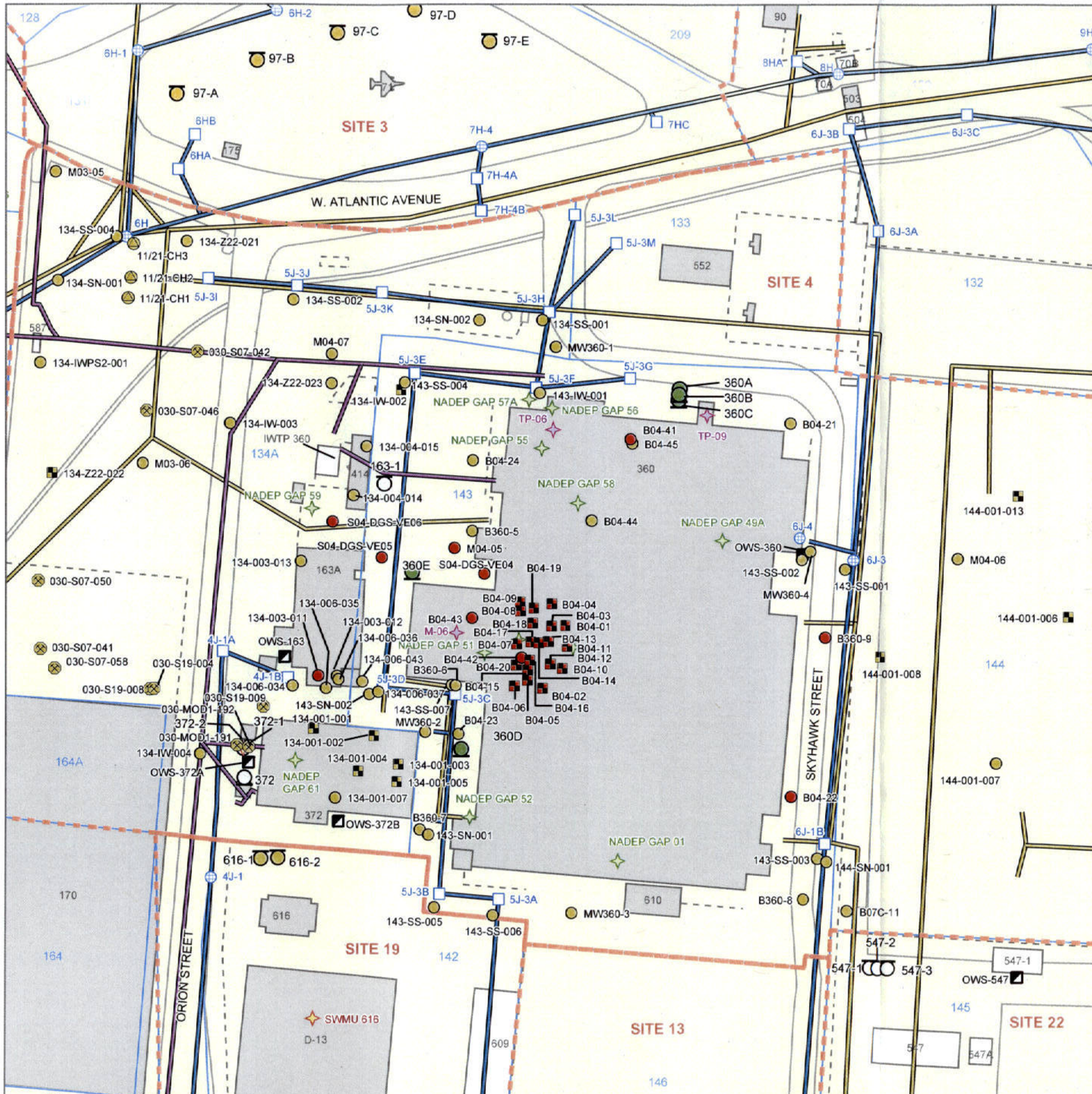

Sample Location	Sample Depth (feet)	Concentration[1] (mg/kg)	Qualifier
B360-7	9.5 - 10	6.2	U
B360-7	11.5 - 12	6.2	U
B360-7	15 - 15.5	6.1	U
B360-8	1 - 1.5	0.7	U
B360-8	3 - 3.5	0.7	U
B360-8	5.5 - 6	0.7	U
B360-8	9 - 9.5	0.7	U
B360-8	12 - 12.5	0.7	U
B360-8	15 - 15.5	0.7	U
B360-9	0.5 - 1	0.7	U
B360-9	2.5 - 3	0.7	U
B360-9	5.5 - 6	0.7	U
B360-9	9.5 - 10	0.7	U
B360-9	12 - 12.5	**0.7**	
B360-9	15.5 - 16	0.7	U
M03-05	1 - 2	0.3	U
M03-05	2.5 - 3.5	0.3	U
M03-05	5 - 6	0.33	U
M03-06	0.5 - 1.5	0.3	U
M03-06	2.5 - 3.5	0.31	U
M03-06	5 - 6	0.37	U
M04-05	1 - 1.5	0.44	U
M04-05	2.5 - 3	0.44	U
M04-05	5 - 5.5	**0.68**	
M04-06	1 - 1.5	0.43	U
M04-06	2 - 2.5	0.48	U
M04-06	5 - 5.5	0.59	U
M04-07	0.5 - 1	0.42	U
M04-07	2.5 - 3	0.44	U
M04-07	5 - 5.5	0.58	U
MW360-1	0.5 - 1	0.7	U
MW360-1	3 - 3.5	0.6	U
MW360-1	5.5 - 6	0.8	U
MW360-1	9 - 9.5	0.7	U
MW360-1	12 - 12.5	0.7	U
MW360-1	15 - 15.5	0.7	U
MW360-2	1 - 1.5	0.7	U
MW360-2	3 - 3.5	0.7	U
MW360-2	7.5 - 8	0.7	U
MW360-2	9 - 9.5	0.7	U
MW360-2	12 - 12.5	0.7	U
MW360-2	15 - 15.5	0.8	U
MW360-3	1 - 1.5	5.3	U
MW360-3	3 - 3.5	6.4	U
MW360-3	5.5 - 6	6.1	U
MW360-3	9 - 9.5	6	U
MW360-3	12 - 12.5	6.2	U
MW360-3	15 - 15.5	6.1	U
MW360-4	1 - 1.5	5.2	U
MW360-4	3 - 3.5	5.5	U
MW360-4	4.5 - 5	6	U
MW360-4	5.5 - 6	5.8	U
MW360-4	9 - 9.5	6.1	U
MW360-4	12 - 12.5	6.2	U
MW360-4	14.5 - 15	6.1	U
S04-DGS-VE04	3 - 3.5	**1.4**	J
S04-DGS-VE04	5 - 5.5	**2.7**	
S04-DGS-VE05	3 - 3.5	**10**	
S04-DGS-VE05	5 - 5.5	**1.6**	J
S04-DGS-VE06	3 - 3.5	**3.3**	

SAMPLING LOCATION
Red = Exceeds Screening Level[2]

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

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- RCRA UNIT
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- INDUSTRIAL WASTE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
B = Compound detected in an associate blank as well as the sample
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
J = Estimated
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
U = Not detected
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes "exceeds screening level."
[2]Screening level based on maximum ambient concentration of 0.61 mg/kg for silver.

60 0 60 120 Feet

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FIGURE 6-26 (3 OF 3)
SITE 4 CONCENTRATIONS OF SILVER IN SOIL

Operable Unit 2B
Remedial Investigation Report

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Sample Location	Sample Depth (feet)	Concentration (µg/kg) 1	Qualifier
B04-45	0.0-1.0	**180**	J
B04-45	2.5-3.5	64	J

All remaining samples were non-detect

SAMPLING INVESTIGATION
Red = Exceeds Screening Level[2]

- Excavation
- Soil Boring
- Surface Location

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- RCRA UNIT
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- INDUSTRIAL WASTE LINE
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

60 0 60 120 Feet

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Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conversation and Recovery Act
SWMU = Solid Waste Management Unit
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1] Bold denotes "exceeds screening level"
[2] Risk Based Screening Level is 69 µg/kg

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FIGURE 6-27
SITE 4 CONCENTRATIONS OF N-NITROSO-DI-N-PROPYLAMINE IN SOIL

Operable Unit 2B
Remedial Investigation Report

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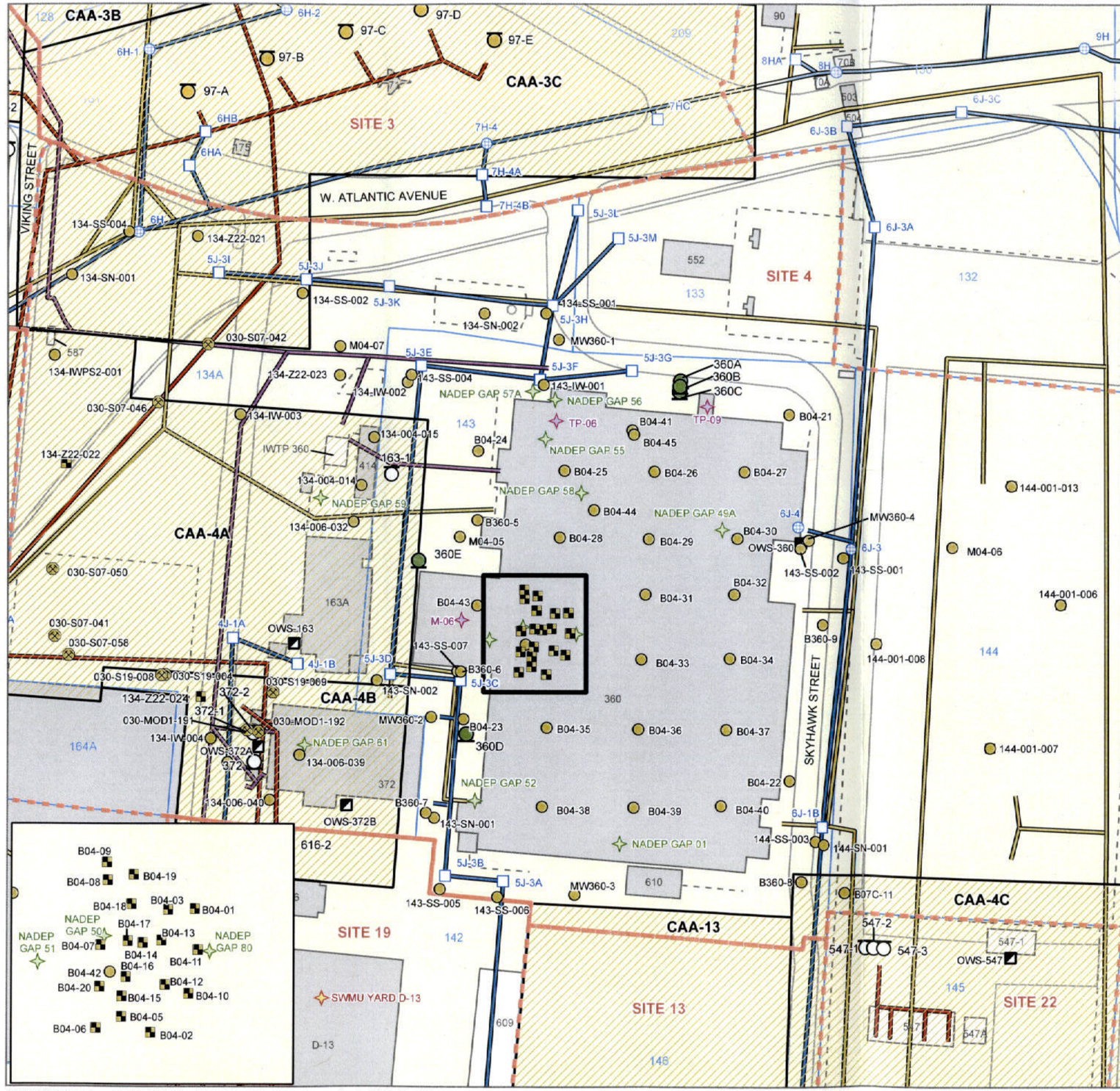

Sample Location	Sample Depth (feet)	Concentration (µg/kg)[1]	Qualifier
030-S07-041	0.0-4.5	60	J

Note: All remaining samples were non-detect

SAMPLING INVESTIGATION
- Excavation
- Soil Boring
- Surface Location

ABOVEGROUND STORAGE TANK (AST)
- Present
- Removed

UNDERGROUND STORAGE TANK (UST)
- Present
- Removed
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- RCRA UNIT
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- INDUSTRIAL WASTE LINE
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING
- Present
- Removed

60 0 60 120 Feet

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Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conservation and Recovery Act
SWMU = Solid Waste Management Unit
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Risk based screening level is 120,000 µg/kg

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FIGURE 6-28
SITE 4 CONCENTRATIONS OF 2,4-DINITROTOLUENE IN SOIL

Operable Unit 2B
Remedial Investigation Report

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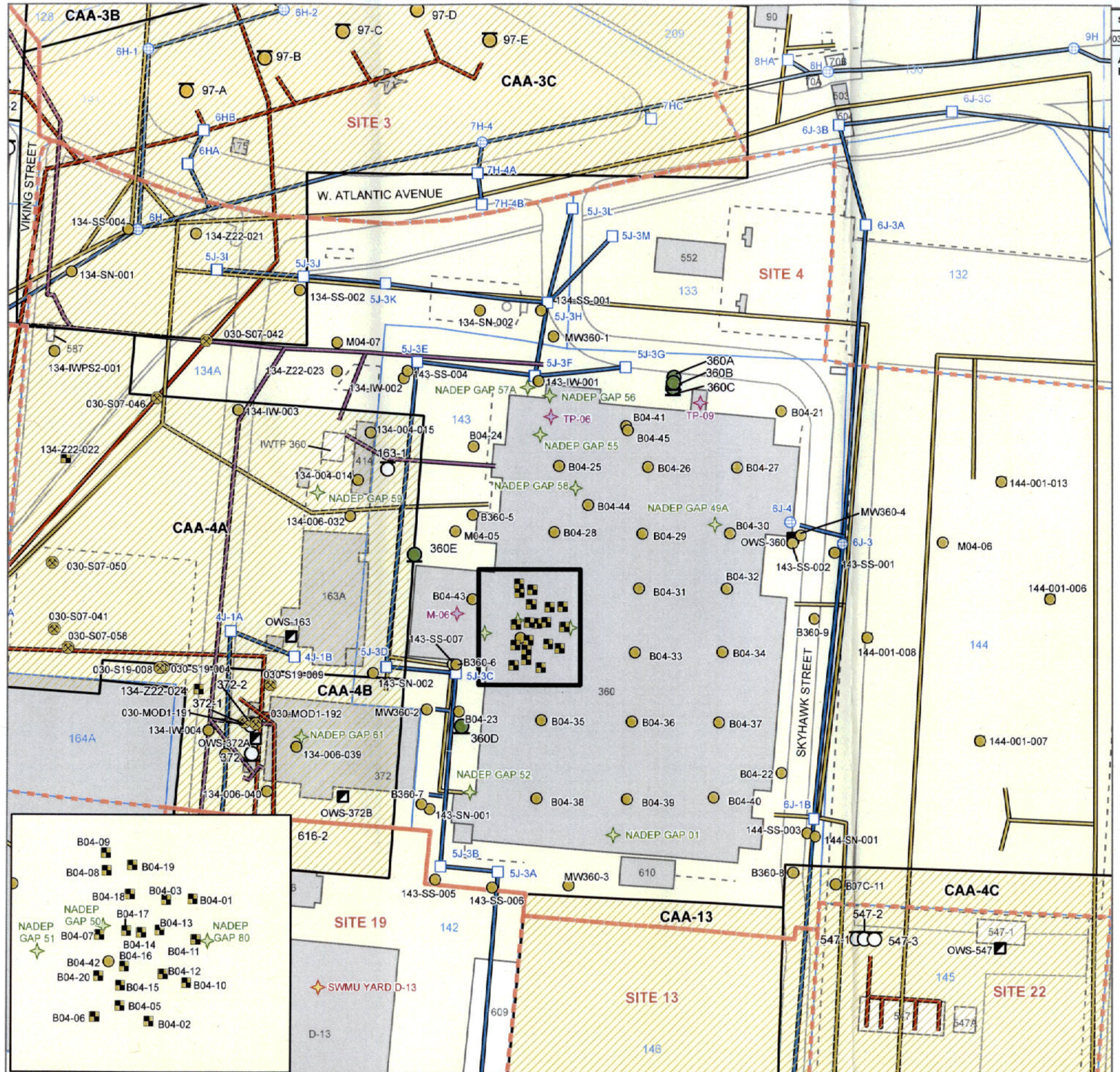

Sample Location	Sample Depth (feet)	Concentration (µg/kg)	Qualifier
030-S19-006	0.0-8.0	890	J

All remaining samples were non-detect
Risk Based Screening Level is 1,100 µg/kg

SAMPLING INVESTIGATION
- Excavation
- Soil Boring
- Surface Location

ABOVEGROUND STORAGE TANK (AST)
- Present
- Removed

UNDERGROUND STORAGE TANK (UST)
- Present
- Removed
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- RCRA UNIT
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- INDUSTRIAL WASTE LINE
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING
- Present
- Removed

60 0 60 120 Feet

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Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conservation and Recovery Act
SWMU = Solid Waste Management Unit
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

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FIGURE 6-29
SITE 4 CONCENTRATIONS OF 3,3-DICHLOROBENZIDINE IN SOIL

Operable Unit 2B
Remedial Investigation Report

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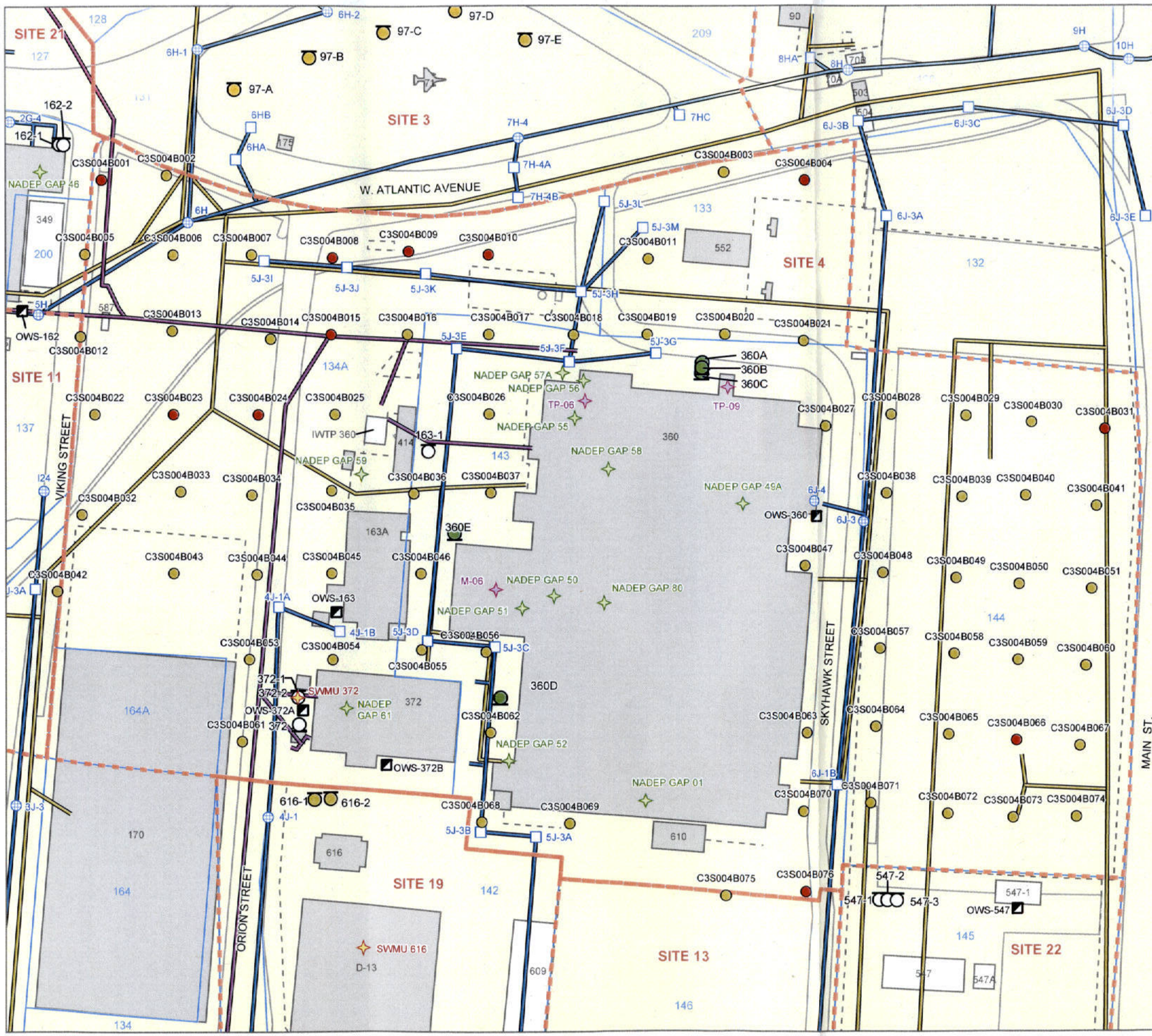

Point Name	Sample Depth (feet)	B(a)P EQ[1] (mg/kg)
C3S004B001	0 - 0.5	0.480
	0.5 - 2	**0.883**
	2 - 4	0.545
	4 - 8	0.005
C3S004B002	0 - 0.5	0.072
	0.5 - 2	0.011
	2 - 4	0.049
	4 - 5	0.002
C3S004B003	0 - 0.5	0.096
	0.5 - 2	0.033
	2 - 4	ND
C3S004B004	0 - 0.5	**0.788**
	0.5 - 2	**2.100**
	2 - 4	0.405
	4 - 8	0.064
C3S004B005	0 - 0.5	0.001
	0.5 - 2	0.002
	2 - 4	0.072
	4 - 8	0.016
C3S004B006	0 - 0.5	0.003
	0.5 - 2	0.056
	2 - 4	0.009
	4 - 8	0.005
C3S004B007	0 - 0.5	0.389
	0.5 - 2	0.016
	2 - 4	0.020
	4 - 8	0.129
C3S004B008	0 - 0.5	0.059
	0.5 - 2	0.006
	2 - 4	0.005
	4 - 8	**1.093**
C3S004B009	0 - 0.5	0.002
	0.5 - 2	0.005
	2 - 4	**2.714**
	4 - 8	0.221
C3S004B010	0 - 0.5	0.006
	0.5 - 2	ND
	2 - 4	0.002
	4 - 8	**1.807**
C3S004B011	0 - 0.5	0.033
	0.5 - 2	0.076
	2 - 4	0.027
	4 - 5	0.158
C3S004B012	0 - 0.5	0.017
	0.5 - 2	0.010
	2 - 4	0.013
	4 - 5	0.421
C3S004B013	0 - 0.5	0.013
	0.5 - 2	0.001
	2 - 4	0.472
	4 - 8	0.007
C3S004B014	0 - 0.5	0.011
	0.5 - 2	0.005
	2 - 4	0.002
C3S004B015	0 - 0.5	0.008
	0.5 - 2	0.007
	2 - 4	0.005
	4 - 8	**3.517**
C3S004B016	0 - 0.5	0.015
	0.5 - 2	0.005
	2 - 4	0.001
	4 - 8	0.002
C3S004B017	0 - 0.5	0.300
	0.5 - 2	0.048
	2 - 4	0.004
	4 - 8	0.021
C3S004B018	0 - 0.5	0.157
	0.5 - 2	0.046
	2 - 4	0.034
	4 - 8	0.018
C3S004B019	0 - 0.5	0.373
	0.5 - 2	0.010
	2 - 4	ND
	4 - 8	0.029
C3S004B020	0 - 0.5	0.007
	0.5 - 2	0.001
	2 - 4	0.001
	4 - 8	0.017
C3S004B021	0 - 0.5	0.006
	0.5 - 2	ND
	2 - 4	0.013
	4 - 8	0.080
C3S004B022	0 - 0.5	0.004
	0.5 - 2	0.029
	2 - 4	0.002
	4 - 8	ND
C3S004B023	0 - 0.5	0.054
	0.5 - 2	0.012
	2 - 4	0.005
	4 - 8	**4.021**
C3S004B024	0 - 0.5	0.003
	0.5 - 2	0.017
	2 - 4	0.205
	4 - 8	**0.767**
C3S004B025	0 - 0.5	0.008
	0.5 - 2	0.000
	2 - 4	0.163
C3S004B026	0 - 0.5	0.045
	0.5 - 2	0.014
	2 - 4	0.064
	4 - 8	0.135
C3S004B027	0 - 0.5	0.004
	0.5 - 2	0.000
	2 - 4	0.002
	4 - 8	0.018
C3S004B028	0 - 0.5	0.016
	0.5 - 2	0.004
	2 - 4	0.024
	4 - 8	0.007
C3S004B029	0 - 0.5	0.033
	0.5 - 2	0.003
	2 - 4	0.005
	4 - 8	0.006

SAMPLING LOCATION
Red = Exceeds Screening Level[2]

- Soil Boring

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- RCRA UNIT
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- INDUSTRIAL WASTE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
B(a)P EQ = Benzo(a)pyrene Equivalent
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
ND = Not detected
PAH = Polynuclear Aromatic Hydrocarbon
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes "exceeds screening level."
[2]Exceeds action level of 0.62 mg/kg.

60 0 60 120 Feet

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

FIGURE 6-30 (1 OF 3)
SITE 4 CONCENTRATIONS OF PAHs (EXPRESSED AS BENZO(a)PYRENE EQUIVALENT) IN SOIL

Operable Unit 2B
Remedial Investigation Report

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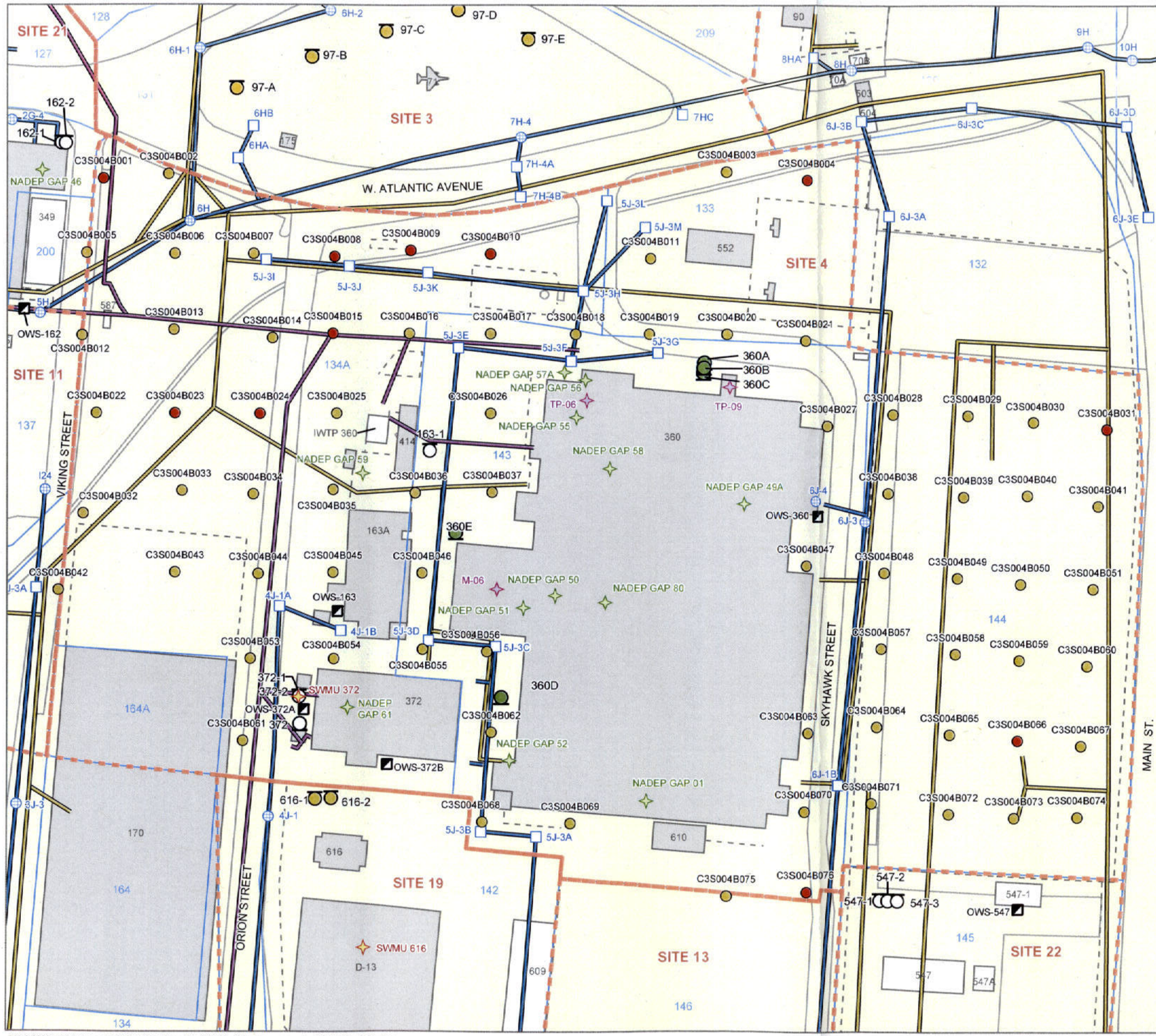

Point Name	Sample Depth (feet)	B(a)P EQ[1] (mg/kg)
C3S004B030	0 - 0.5	0.048
	0.5 - 2	0.021
	2 - 4	0.029
	4 - 8	0.017
C3S004B031	0 - 0.5	0.045
	0.5 - 2	0.103
	2 - 4	**1.152**
	4 - 8	0.004
C3S004B032	0 - 0.5	0.008
	0.5 - 2	0.011
	2 - 4	0.000
	4 - 8	ND
C3S004B033	0 - 0.5	0.000
	0.5 - 2	0.021
	2 - 4	0.005
	4 - 8	0.012
C3S004B034	0 - 0.5	0.019
	0.5 - 2	0.001
	2 - 4	0.268
	4 - 8	0.029
C3S004B035	0 - 0.5	0.014
	0.5 - 2	0.006
	2 - 4	0.001
	4 - 8	0.006
C3S004B036	0 - 0.5	0.012
	0.5 - 2	0.006
	2 - 4	0.001
	4 - 8	0.000
C3S004B037	0 - 0.5	0.001
	0.5 - 2	ND
	2 - 4	0.001
	4 - 8	0.001
C3S004B038	0 - 0.5	0.002
	0.5 - 2	0.007
	2 - 4	0.002
	4 - 8	0.041
C3S004B039	0 - 0.5	0.018
	0.5 - 2	0.011
	2 - 4	0.014
	4 - 8	0.093
C3S004B040	0 - 0.5	0.145
	0.5 - 2	0.050
	2 - 4	0.015
	4 - 8	0.487
C3S004B041	0 - 0.5	0.017
	0.5 - 2	0.026
	2 - 4	0.202
	4 - 8	0.002
C3S004B042	0 - 0.5	0.609
	0.5 - 2	0.047
	2 - 4	0.208
	4 - 8	0.026
C3S004B043	0 - 0.5	0.003
	0.5 - 2	0.008
	2 - 4	0.014
	4 - 8	0.020
C3S004B044	0 - 0.5	0.004
	0.5 - 2	0.001
	2 - 4	0.001
C3S004B045	0 - 0.5	0.001
	0.5 - 2	0.000
	2 - 4	0.002
	4 - 8	0.290
C3S004B046	0 - 0.5	0.248
	0.5 - 2	0.249
	2 - 4	0.368
	4 - 8	0.095
C3S004B047	0 - 0.5	0.001
	0.5 - 2	ND
	2 - 4	0.130
	4 - 8	0.020
C3S004B048	0 - 0.5	0.003
	0.5 - 2	ND
	2 - 4	0.013
	4 - 8	0.043
C3S004B049	0 - 0.5	0.019
	0.5 - 2	0.015
	2 - 4	0.010
	4 - 8	0.007
C3S004B050	0 - 0.5	0.081
	0.5 - 2	0.023
	2 - 4	ND
	4 - 8	0.444
C3S004B051	0 - 0.5	0.050
	0.5 - 2	0.010
	2 - 4	0.181
	4 - 8	0.007
C3S004B053	0 - 0.5	0.006
	0.5 - 2	0.024
	2 - 4	0.043
	4 - 8	0.222
C3S004B054	0 - 0.5	ND
	0.5 - 2	ND
	2 - 4	0.006
	4 - 8	0.020
C3S004B055	0 - 0.5	0.032
	0.5 - 2	0.022
	2 - 4	0.024
	4 - 8	0.030
C3S004B056	0 - 0.5	0.007
	0.5 - 2	0.009
	2 - 4	0.056
	4 - 8	0.025
C3S004B057	0 - 0.5	0.003
	0.5 - 2	0.006
	2 - 4	0.013
	4 - 8	ND
C3S004B058	0 - 0.5	0.003
	0.5 - 2	ND
	2 - 4	0.021
	4 - 8	0.147
C3S004B059	0 - 0.5	0.002
	0.5 - 2	0.005
	2 - 4	0.025
	4 - 8	0.012
C3S004B060	0 - 0.5	0.006
	0.5 - 2	0.004
	2 - 4	0.144
	4 - 8	0.000

SAMPLING LOCATION
Red = Exceeds Screening Level[2]

- Soil Boring

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- RCRA UNIT
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- INDUSTRIAL WASTE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
B(a)P EQ = Benzo(a)pyrene Equivalent
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
ND = Not detected
PAH = Polynuclear Aromatic Hydrocarbon
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1] Bold denotes "exceeds screening level."
[2] Exceeds action level of 0.62 mg/kg.

60 0 60 120 Feet

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

FIGURE 6-30 (2 OF 3)
SITE 4 CONCENTRATIONS OF PAHs (EXPRESSED AS BENZO(a)PYRENE EQUIVALENT) IN SOIL

Operable Unit 2B
Remedial Investigation Report

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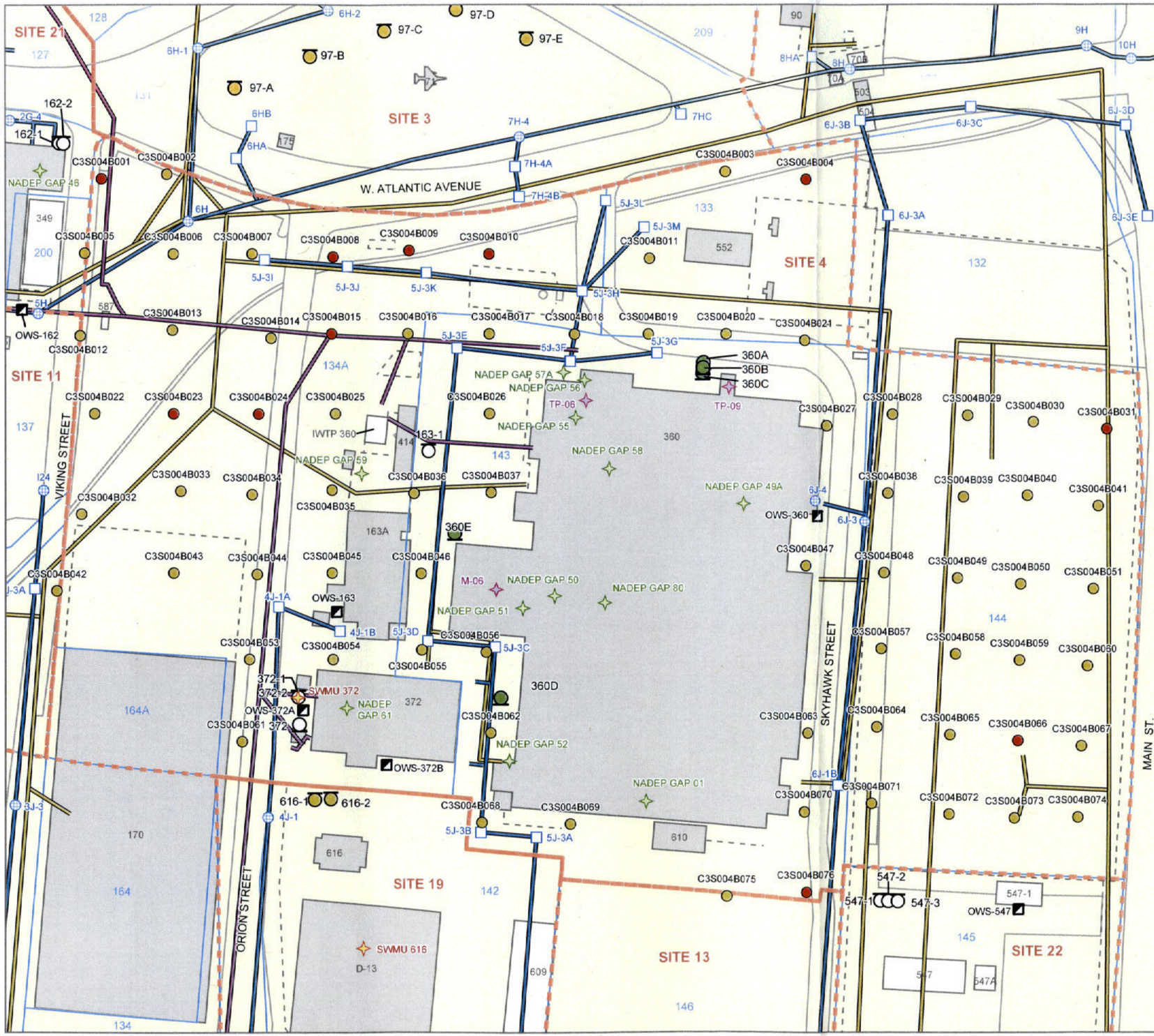

Point Name	Sample Depth (feet)	B(a)P EQ[1] (mg/kg)
C3S004B061	0 - 0.5	0.002
	0.5 - 2	0.003
	2 - 4	0.002
	4 - 8	0.004
C3S004B062	0 - 0.5	0.015
	0.5 - 2	0.004
	2 - 4	0.000
	4 - 8	0.002
C3S004B063	0 - 0.5	0.024
	0.5 - 2	0.069
	2 - 4	0.098
	4 - 8	0.000
C3S004B064	0 - 0.5	0.005
	0.5 - 2	0.004
	2 - 4	0.051
	4 - 8	0.055
C3S004B065	0 - 0.5	0.002
	0.5 - 2	0.002
	2 - 4	ND
	4 - 8	0.345
C3S004B066	0 - 0.5	0.005
	0.5 - 2	0.002
	2 - 4	ND
	4 - 8	**0.835**
C3S004B067	0 - 0.5	0.011
	0.5 - 2	0.008
	2 - 4	0.002
	4 - 8	0.006
C3S004B068	0 - 0.5	0.023
	0.5 - 2	0.020
	2 - 4	0.001
	4 - 8	0.004
C3S004B069	0 - 0.5	ND
	0.5 - 2	ND
	2 - 4	0.000
	4 - 8	0.003
C3S004B070	0 - 0.5	0.005
	0.5 - 2	0.002
	2 - 4	0.010
	4 - 8	0.006
C3S004B071	0 - 0.5	ND
	0.5 - 2	ND
	2 - 4	0.002
	4 - 8	ND
C3S004B072	0 - 0.5	0.187
	0.5 - 2	ND
	2 - 4	ND
	4 - 8	0.040
C3S004B073	0 - 0.5	0.271
	0.5 - 2	0.012
	2 - 4	ND
	4 - 8	0.006
C3S004B074	0 - 0.5	0.007
	0.5 - 2	0.006
	2 - 4	0.001
	4 - 8	ND
C3S004B075	0 - 0.5	0.002
	0.5 - 2	0.021
	2 - 4	ND
	4 - 8	0.070
C3S004B076	0 - 0.5	ND
	0.5 - 2	**0.651**
	2 - 4	0.043
	4 - 8	0.004

SAMPLING LOCATION
Red = Exceeds Screening Level[2]

- Soil Boring

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- RCRA UNIT
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- INDUSTRIAL WASTE LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

Notes:
B(a)P EQ = Benzo(a)pyrene Equivalent
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
mg/kg = Milligrams per kilogram
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
ND = Not detected
PAH = Polynuclear Aromatic Hydrocarbon
RCRA = Resource Conservation and Recovery Act
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes "exceeds screening level."
[2]Exceeds action level of 0.62 mg/kg.

60 0 60 120 Feet

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

FIGURE 6-30 (3 OF 3)
SITE 4 CONCENTRATIONS OF PAHs (EXPRESSED AS BENZO(a)PYRENE EQUIVALENT) IN SOIL

Operable Unit 2B
Remedial Investigation Report

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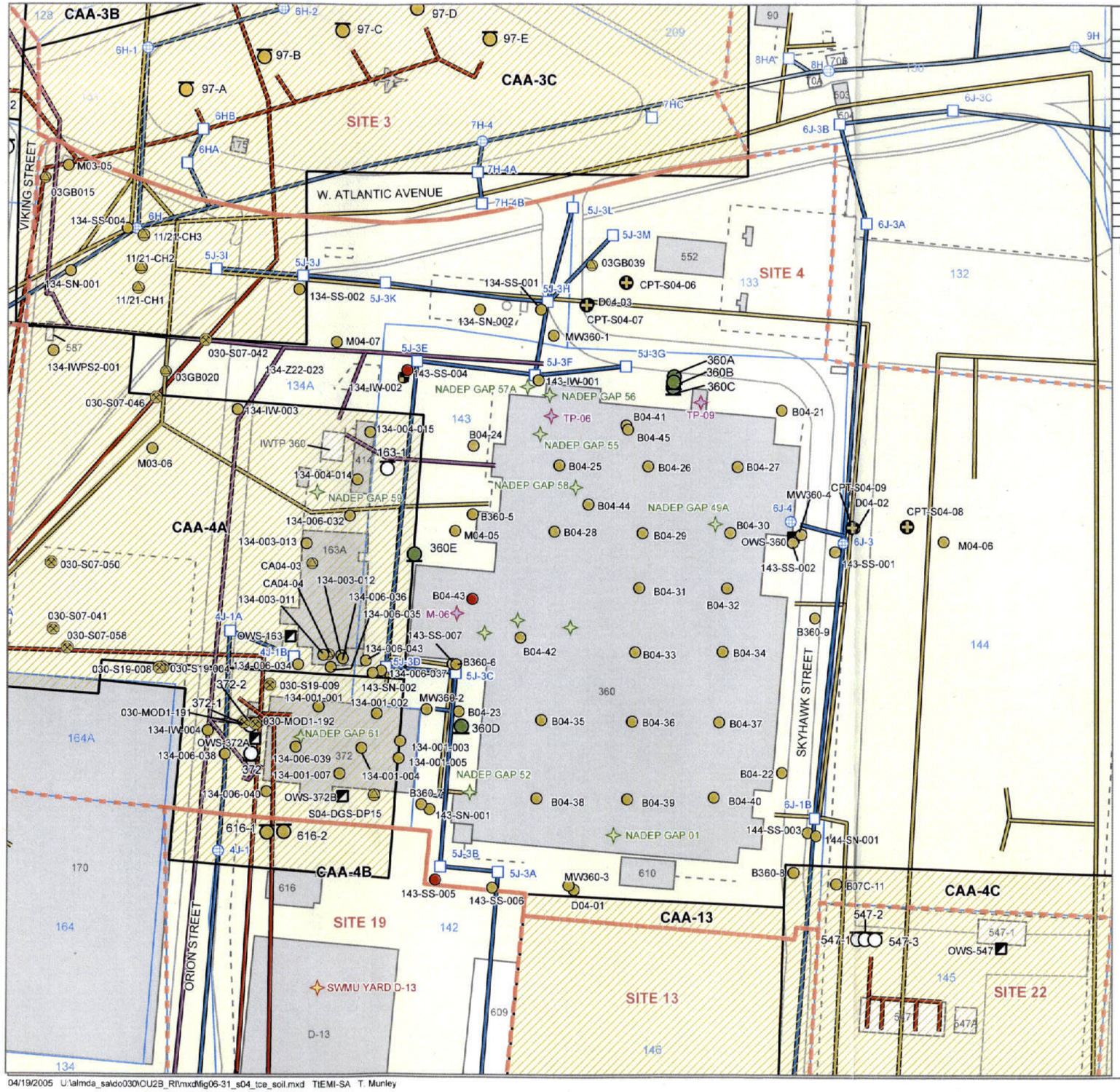

Point Name	Sample Depth (feet)	Concentration (µg/kg)[1]	Qualifier
11/21-CH3	22.0-42.0	2.5	J
134-003-011	3.0-3.5	5	J
134-003-012	3.0-3.5	25	
134-006-034	1.0-2.0	2	J
134-006-036	1.0-1.5	6	J
143-IW-001	5.0-6.0	38	J
143-SS-004	5.0-5.5	**6300**	
143-SS-005	7.0-7.5	**59**	
B04-43	2.5-3.5	**59**	
B04-43	5.0-6.0	**77**	
D04-03	20.0-21.0	47	
MW360-1	8.5-9.0	9	
MW360-2	11.5-12.0	4	J
MW360-2	14.5-15.0	1	J
MW360-2	7.0-7.5	4	J
MW360-2	8.5-9.0	23	
MW360-4	11.5-12.0	43	
MW360-4	14.0-14.5	11	

Note: All remaining samples were non-detect

SAMPLING INVESTIGATION
Red= Exceeds Screening Level[2]

- Direct Push
- Excavation
- Soil Boring
- Soil Punch

ABOVEGROUND STORAGE TANK (AST)

- Present
- Removed

UNDERGROUND STORAGE TANK (UST)

- Present
- Removed
- GENERATOR ACCUMULATION POINT (GAP)
- SOLID WASTE MANAGEMENT UNIT (SWMU)
- RCRA UNIT
- CATCH BASIN
- MANHOLE
- OIL WATER SEPARATOR (OWS)
- FENCE
- FUEL LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- INDUSTRIAL WASTE LINE
- CORRECTIVE ACTION AREA (CAA)
- CERCLA SITE BOUNDARY
- ENVIRONMENTAL BASELINE SURVEY (EBS) PARCEL BOUNDARY AND NUMBER
- LAND COVER

BUILDING

- Present
- Removed

60 0 60 120 Feet

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Notes:
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
GAP = Generator accumulation point
IWTP = Industrial Waste Treatment Plant
NADEP = Naval Aviation Depot Alameda
NAS = Naval Air Station
RCRA = Resource Conversation and Recovery Act
SWMU = Solid Waste Management Unit
TP = Tiered Permit
Buildings 107, 201-223, 226, 227, 230-232, 236, 237, 240-260, 360A through D, OWS 414 and associated washdown area could not be located and are not included on this figure.

[1]Bold denotes exceeds screening level
[2]Risk based screening level is 53 µg/kg

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

FIGURE 6-31
SITE 4 CONCENTRATIONS OF TRICHLOROETHENE IN SOIL

Operable Unit 2B
Remedial Investigation Report

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N00236.002042
ALAMEDA POINT
SSIC NO. 5090.3

TABLES

FINAL OPERABLE UNIT 2B
REMEDIAL INVESTIGATION REPORT
SITES 3, 4, 11, AND 21

DATED 05 AUGUST 2005

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
CERCLA INVESTIGATIONS																			
Phases 1 & 2A, 1991																			
B360-5	B360-5 [1.0-1.5]	6/25/1990	1 - 1.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-5 [1.5-2.0]	6/25/1990	1.5 - 2	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	B360-5 [10.0-10.5]	6/25/1990	10 - 10.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-5 [11.0-11.5]	6/26/1990	11 - 11.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-5 [11.5-12.0]	6/26/1990	11.5 - 12	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-5 [14.5-15.0]	6/25/1990	14.5 - 15	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-5 [15.0-15.5]	6/25/1990	15 - 15.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-5 [2.5-3.0]	6/25/1990	2.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-5 [3.0-3.5]	6/25/1990	3 - 3.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	B360-5 [5.5-6.0]	6/26/1990	5.5 - 6	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-5 [6.0-6.5]	6/25/1990	6 - 6.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-5 [9.5-10.0]	6/25/1990	9.5 - 10	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B360-6	B360-6 [0.5-1.0]	6/25/1990	0.5 - 1	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-6 [11.5-12.0]	6/25/1990	11.5 - 12	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-6 [12.0-12.5]	6/25/1990	12 - 12.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-6 [13.0-13.5]	6/25/1990	13 - 13.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-6 [13.5-14.0]	6/25/1990	13.5 - 14	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-6 [2.0-2.5]	6/25/1990	2 - 2.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-6 [2.5-3.0]	6/25/1990	2.5 - 3	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	B360-6 [3.5-4.0]	6/25/1990	3.5 - 4	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	B360-6 [5.0-5.5]	6/25/1990	5 - 5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-6 [5.5-6.0]	6/25/1990	5.5 - 6	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-6 [8.5-9.0]	6/25/1990	8.5 - 9	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-6 [9.0-9.5]	6/25/1990	9 - 9.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
B360-7	B360-7 [1.0-1.5]	6/26/1990	1 - 1.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-7 [1.5-2.0]	6/26/1990	1.5 - 2	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	B360-7 [11.0-11.5]	6/26/1990	11 - 11.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-7 [11.5-12.0]	6/26/1990	11.5 - 12	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-7 [14.5-15.0]	6/26/1990	14.5 - 15	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-7 [15.0-15.5]	6/26/1990	15 - 15.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-7 [2.5-3.0]	6/26/1990	2.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-7 [3.0-3.5]	6/26/1990	3 - 3.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	B360-7 [5.0-5.5]	6/26/1990	5 - 5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-7 [5.5-6.0]	6/26/1990	5.5 - 6	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-7 [8.5-9.0]	6/26/1990	8.5 - 9	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-7 [9.0-9.5]	6/26/1990	9 - 9.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-7 [9.5-10.0]	6/26/1990	9.5 - 10	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
B360-8	B360-8 [1.0-1.5]	7/8/1990	1 - 1.5	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-8 [1.5-2.0]	7/8/1990	1.5 - 2	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	B360-8 [11.5-12.0]	7/8/1990	11.5 - 12	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-8 [12.0-12.5]	6/26/1990	12 - 12.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	B360-8 [14.5-15.0]	6/26/1990	14.5 - 15	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-8 [15.0-15.5]	7/8/1990	15 - 15.5	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-8 [2.5-3.0]	7/8/1990	2.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B360-8	B360-8 [3.0-3.5]	7/8/1990	3 - 3.5	X	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	B360-8 [5.0-5.5]	6/26/1990	5 - 5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-8 [5.5-6.0]	7/8/1990	5.5 - 6	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-8 [8.5-9.0]	6/26/1990	8.5 - 9	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-8 [9.0-9.5]	7/8/1990	9 - 9.5	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
B360-9	B360-9 [0.5-1.0]	7/8/1990	0.5 - 1	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-9 [1.5-2.0]	7/8/1990	1.5 - 2	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	B360-9 [11.5-12.0]	6/26/1990	11.5 - 12	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-9 [12.0-12.5]	7/8/1990	12 - 12.5	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-9 [15.0-15.5]	6/26/1990	15 - 15.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
'B360-9 (Continued)	B360-9 [15.5-16.0]	7/8/1990	15.5 - 16	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-9 [2.0-2.5]	6/26/1990	2 - 2.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-9 [2.5-3.0]	7/8/1990	2.5 - 3	X	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	B360-9 [5.0-5.5]	6/26/1990	5 - 5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-9 [5.5-6.0]	7/8/1990	5.5 - 6	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	B360-9 [9.0-9.5]	7/8/1990	9 - 9.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	B360-9 [9.5-10.0]	7/8/1990	9.5 - 10	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
MW360-1	MW360-1 [0.5-1.0]	6/28/1990	0.5 - 1	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-1 [1.0-1.5]	6/28/1990	1 - 1.5	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	MW360-1 [2.5-3.0]	6/28/1990	2.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-1 [3.0-3.5]	6/28/1990	3 - 3.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-1 [5.0-5.5]	6/28/1990	5 - 5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-1 [5.5-6.0]	6/28/1990	5.5 - 6	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-1 [8.5-9.0]	6/27/1990	8.5 - 9	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-1 [9.0-9.5]	6/28/1990	9 - 9.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-1 [11.5-12.0]	6/28/1990	11.5 - 12	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-1 [12.0-12.5]	6/28/1990	12 - 12.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-1 [14.5-15.0]	6/28/1990	14.5 - 15	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-1 [15.0-15.5]	6/28/1990	15 - 15.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
MW360-2	MW360-2 [1.0-1.5]	6/28/1990	1 - 1.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-2 [1.5-2.0]	6/28/1990	1.5 - 2	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	MW360-2 [2.5-3.0]	6/27/1990	2.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-2 [3.0-3.5]	6/28/1990	3 - 3.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-2 [7.0-7.5]	6/28/1990	7 - 7.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-2 [7.5-8.0]	6/28/1990	7.5 - 8	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-2 [8.5-9.0]	6/27/1990	8.5 - 9	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-2 [9.0-9.5]	6/28/1990	9 - 9.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-2 [11.5-12.0]	6/27/1990	11.5 - 12	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-2 [12.0-12.5]	6/27/1990	12 - 12.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-2 [14.5-15.0]	6/28/1990	14.5 - 15	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-2 [15.0-15.5]	6/28/1990	15 - 15.5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
MW360-3	MW360-3 [1.0-1.5]	6/27/1990	1 - 1.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-3 [2.5-3.0]	6/27/1990	2.5 - 3	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-3 [3.0-3.5]	6/27/1990	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-3 [5.0-5.5]	6/27/1990	5 - 5.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-3 [5.5-6.0]	6/27/1990	5.5 - 6	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-3 [8.5-9.0]	6/27/1990	8.5 - 9	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-3 [9.0-9.5]	6/27/1990	9 - 9.5	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-3 [11.5-12.0]	6/27/1990	11.5 - 12	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-3 [12.0-12.5]	6/27/1990	12 - 12.5	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-3 [14.5-15.0]	6/27/1990	14.5 - 15	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-3 [15.0-15.5]	6/27/1990	15 - 15.5	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
MW360-4	MW360-4 [1.0-1.5]	6/27/1990	1 - 1.5	X	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-4 [2.5-3.0]	6/27/1990	2.5 - 3	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-4 [3.0-3.5]	6/27/1990	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--
	MW360-4 [4.5-5.0]	6/27/1990	4.5 - 5	X	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-4 [5.0-5.5]	6/27/1990	5 - 5.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-4 [5.5-6.0]	6/27/1990	5.5 - 6	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-4 [8.5-9.0]	6/27/1990	8.5 - 9	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-4 [9.0-9.5]	6/27/1990	9 - 9.5	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-4 [11.5-12.0]	6/27/1990	11.5 - 12	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-4 [12.0-12.5]	6/27/1990	12 - 12.5	X	X	--	--	--	--	X	--	--	--	--	X	--	--	--	--
	MW360-4 [14.0-14.5]	6/27/1990	14 - 14.5	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MW360-4 [14.5-15.0]	6/27/1990	14.5 - 15	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
Phases 2B & 3, 1991																			
B04-01	B04-01	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-02	B04-02	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-03	B04-03	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-04	B04-04	9/5/1991		--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-05	B04-05	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-06	B04-06	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-07	B04-07	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-08	B04-08	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-09	B04-09	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-10	B04-10	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-11	B04-11	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-12	B04-12	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-13	B04-13	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-14	B04-14	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-15	B04-15	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-16	B04-16	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-17	B04-17	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-18	B04-18	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-19	B04-19	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
B04-20	B04-20	9/5/1991		X	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
Follow-on Investigation, 1994																			
03GB015	GPS03-015-1.0	8/16/1994	0.5 - 1	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	GPS03-015-3.0	8/16/1994	2.5 - 3	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	GPS03-015-5.0	8/16/1994	4.5 - 5	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
03GB020	GPS03-020-1.0	8/17/1994	0.5 - 1	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	GPS03-020-3.0	8/17/1994	2.5 - 3	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	GPS03-020-5.5	8/17/1994	4.5 - 5.5	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
03GB039	03GPS039-1.25	9/9/1994	0.8 - 1.3	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	03GPS039-3.0	9/9/1994	2.5 - 3	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	03GPS039-6.5	9/9/1994	6 - 6.5	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
B04-43	280-S04-001	9/1/1994	0 - 1	X	--	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-002	9/1/1994	2.5 - 3.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-003	9/1/1994	5 - 6	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-44	280-S04-004	9/1/1994	0 - 0.5	X	--	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-005	9/1/1994	3 - 4	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-006	9/1/1994	5.5 - 6	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-45	280-S04-007	9/15/1994	0 - 1	X	--	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-008	9/15/1994	2.5 - 3.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	280-S04-009	9/15/1994	4.5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B07C-11	280-S7C-001	8/17/1994	0.5 - 1.5	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S7C-002	8/17/1994	2.5 - 3.5	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S7C-003	8/17/1994	5 - 6	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
M03-05	280-S03-031	11/20/1994	1 - 2	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S03-032	11/20/1994	2.5 - 3.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S03-033	11/20/1994	5 - 6	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
M03-06	280-S03-034	11/19/1994	0.5 - 1.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S03-035	11/19/1994	2.5 - 3.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	280-S03-036	11/19/1994	5 - 6	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
B04-21	260-S04-001	3/30/1994	0.5 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-002	3/30/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-003	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-22	260-S04-004	3/30/1994	0.5 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-005	3/30/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-006	3/30/1994	4.5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
B04-23	260-S04-007	3/30/1994	0.5 - 1.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-009	3/30/1994	3.5 - 4	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-010	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-24	260-S04-011	3/30/1994	0.5 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-012	3/30/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-013	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-25	260-S04-015	3/16/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-016	3/16/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-26	260-S04-017	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-019	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-27	260-S04-020	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-021	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-28	260-S04-022	3/16/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-023	3/16/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-29	260-S04-024	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-025	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-30	260-S04-026	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-027	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-31	260-S04-028	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-029	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-32	260-S04-030	3/17/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-031	3/17/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-33	260-S04-033	3/18/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-034	3/18/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-34	260-S04-035	3/18/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-036	3/18/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-35	260-S04-037	3/16/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-038	3/16/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-36	260-S04-039	3/18/1994	0 - 1	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-040	3/18/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-37	260-S04-041	3/18/1994	0 - 1	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-042	3/18/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-38	260-S04-043	3/16/1994	0 - 1	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-044	3/16/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-39	260-S04-045	3/18/1994	0 - 1	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-046	3/18/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-40	260-S04-047	3/16/1994	0 - 1	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
	260-S04-048	3/16/1994	2.5 - 3.5	X	X	--	--	--	--	--	--	X	X	--	X	--	--	--	--
B04-41	260-S04-049	9/1/1994	0 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-050	9/1/1994	2.5 - 3.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-051	9/1/1994	4.5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
B04-42	260-S04-053	4/1/1994	0.5 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-054	4/1/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-055	4/1/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
CPT-S04-06	260-S04-232	1/24/1995	10	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-233	1/24/1995	30	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-234	1/24/1995	50	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CPT-S04-07	260-S04-235	1/19/1995	10	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-237	1/19/1995	30	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-238	1/19/1995	50	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CPT-S04-08	260-S04-239	1/23/1995	10	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-240	1/23/1995	30	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CPT-S04-09	260-S04-242	1/25/1995	10	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-244	1/25/1995	30	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-245	1/25/1995	50	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
D04-01	260-S04-132	5/12/1994	75 - 76	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-133	5/12/1994	89 - 89.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-134	5/12/1994	91 - 91.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-135	5/12/1994	100 - 100.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
D04-02	260-S04-210	2/9/1995	10 - 11	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-211	2/9/1995	20 - 21	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-212	2/9/1995	30 - 31	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-214	2/9/1995	40 - 41	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-215	2/9/1995	50 - 51	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-216	2/9/1995	60 - 61	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-217	3/1/1995	70 - 71	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-218	3/1/1995	80 - 81	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-219	3/2/1995	90 - 91	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	260-S04-220	3/2/1995	100 - 101	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
D04-03	260-S04-221	2/8/1995	10 - 11	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-222	2/8/1995	20 - 21	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-223	2/8/1995	30 - 31	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-224	2/8/1995	40 - 41	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-225	2/8/1995	50 - 51	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-226	2/8/1995	60 - 61	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-227	2/16/1995	70 - 71	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-229	2/16/1995	80 - 82	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-230	2/16/1995	90 - 91	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	260-S04-231	2/17/1995	100 - 101	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M04-05	260-S04-056	3/30/1994	1 - 1.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-058	3/30/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-059	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
M04-06	260-S04-060	3/30/1994	1 - 1.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-061	3/30/1994	2 - 2.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-062	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
M04-07	260-S04-063	3/30/1994	0.5 - 1	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-064	3/30/1994	2.5 - 3	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
	260-S04-065	3/30/1994	5 - 5.5	X	X	--	--	--	--	X	--	X	X	--	X	--	--	--	--
Geochemical Profiling Investigation, 1997																			
S04-1D-A	BERC-S04-1D-A-7	4/8/1997	7		X														
	BERC-S04-1D-A-9	4/8/1997	9		X														
S04-2D-A	BERC-S04-2D-A-5.5	4/7/1997	5.5		X														
	BERC-S04-2D-A-9	4/7/1997	9		X														
S04-2D-B	BERC-S04-2D-B-3	4/7/1997	3		X														
S04-2D-C	BERC-S04-2D-C-7.5	4/8/1997	7.5		X														
	BERC-S04-2D-C-9.5	4/8/1997	9.5		X														
	BERC-S04-2D-C-15	4/8/1997	15		X														
S04-3C-A	BERC-S04-3C-A-9	4/8/1997	9		X														
	BERC-S04-3C-A-15	4/8/1997	15		X														
S04-3C-B	BERC-S04-3C-B-20	4/9/1997	20		X														
S04-3D-A	BERC-S04-3D-A-8	4/9/1997	8		X														
S04-3D-B	BERC-S04-3D-B-10	4/9/1997	10		X														
	BERC-S04-3D-B-23	4/9/1997	23		X														
S04-4C-A	BERC-S04-4C-A-8.5	4/9/1997	8.5		X														
	BERC-S04-4C-A-23	4/9/1997	23		X														
S04-5C-A	BERC-S04-5C-A-11	4/7/1997	11		X														
	BERC-S04-5C-A-15	4/8/1997	15		X														
S04-5C-B	BERC-S04-5C-B-7	4/9/1997	7		X														
	BERC-S04-5C-B-10	4/9/1997	10		X														
	BERC-S04-5C-B-25	4/9/1997	25		X														

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				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
Supplemental Remedial Investigation Data Gap Sampling, 2001																			
S04-DGS-DP06	385-S04-021	4/27/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
	385-S04-022	4/27/2002	5 - 5.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
S04-DGS-DP15	385-S04-057	8/7/2001	4.5 - 5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
	385-S04-057A	8/7/2001	4.5 - 5	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
S04-DGS-DP16	385-S04-059	6/20/2001	1 - 1.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	385-S04-060	6/20/2001	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	385-S04-061	6/20/2001	4.5 - 5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
S04-DGS-DP17	385-S04-063	6/20/2001	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
	385-S04-064	6/20/2001	5 - 5.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
S04-DGS-DP18	385-S04-066	6/19/2001	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
S04-DGS-DP19	385-S04-069	6/19/2001	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
	385-S04-070	6/19/2001	4 - 4.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
S04-DGS-DP20	385-S04-072	6/19/2001	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
	385-S04-073	6/19/2001	5 - 5.5	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
S04-DGS-VE04	385-S04-305	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
	385-S04-305A	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	385-S04-306	4/26/2002	5 - 5.5	--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
	385-S04-306A	4/26/2002	5 - 5.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
S04-DGS-VE05	385-S04-308	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
	385-S04-308A	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	385-S04-309	4/26/2002	5 - 5.5	--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
	385-S04-309A	4/26/2002	5 - 5.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
S04-DGS-VE06	385-S04-311	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	X	X	--	--	--	--
	385-S04-311A	4/26/2002	3 - 3.5	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--	--
Supplemental Remedial Investigation Data Gap Sampling, Soil Gas, 2001																			
S03-DGS-SG09	385-S03-061	8/2/2001	1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG20	385-S04-302	9/13/2001	4	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S03-DGS-SG09	385-S03-062	8/2/2001	3.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG18	385-S04-172	8/2/2001	5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG03	385-S04-145	7/31/2001	0.7 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG18	385-S04-169	8/1/2001	1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG03	385-S04-144	7/31/2001	0.7 - 1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG15	385-S04-164	8/1/2001	1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG20	385-S04-301	9/13/2001	1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG18	385-S04-170	8/2/2001	4	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG15	385-S04-165	8/1/2001	4	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG09	385-S04-154	7/31/2001	0.5 - 1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG12	385-S04-159	8/1/2001	1.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG12	385-S04-160	8/1/2001	3.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG09	385-S04-155	7/31/2001	0.5 - 3	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG06	385-S04-149	7/31/2001	0.5 - 3.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG15	385-S04-166	8/1/2001	5.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
S04-DGS-SG06	385-S04-150	7/31/2001	0.5 - 3.5	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polynuclear Aromatic Hydrocarbons Study, 2003																			
C3S004B001	C0591641	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591642	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591643	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591644	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B002	C0591645	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591646	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591647	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591648	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B003	C0591649	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591653	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591652	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
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SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B004	C0591654	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591655	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591656	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591657	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B005	C0591658	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591659	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591661	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591662	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B006	C0591663	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591664	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591665	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591666	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B007	C0591667	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591668	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591669	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591670	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B008	C0591672	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591673	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591674	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591675	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B009	C0591676	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591677	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591678	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591679	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B010	C0591681	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591682	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591683	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591684	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B011	C0591685	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591686	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591687	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591688	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B012	C0591689	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591691	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591692	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591693	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B013	C0591694	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591695	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591696	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591697	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B014	C0591698	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591699	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591701	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B015	C0591703	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591704	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591705	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591706	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B016	C0591707	8/20/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591708	8/20/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591709	8/20/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591710	8/20/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B017	C0591711	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591713	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591714	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591715	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

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				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B018	C0591716	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591717	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591718	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591719	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B019	C0591721	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591722	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591723	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591724	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B020	C0591725	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591726	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591727	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591728	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B021	C0591729	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591731	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591732	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591733	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B022	C0591734	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591735	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591736	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591737	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B023	C0591738	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591739	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591741	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591742	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B024	C0591743	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591744	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591745	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591746	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B025	C0591747	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591748	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591749	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B026	C0591752	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591753	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591754	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591755	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B027	C0591756	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591757	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591758	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591759	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B028	C0591761	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591762	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591763	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591764	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B029	C0591765	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591766	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591767	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591768	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B030	C0591769	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591771	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591772	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591773	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B031	C0591774	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591775	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591776	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591777	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B032	C0591778	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591779	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591781	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591782	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

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				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B033	C0591783	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591784	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591785	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591786	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B034	C0591787	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591788	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591789	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591791	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B035	C0591792	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591793	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591794	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591795	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B036	C0591796	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591797	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591798	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591799	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B037	C0591801	8/21/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591802	8/21/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591803	8/21/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591804	8/21/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B038	C0591805	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591806	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591807	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591808	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B039	C0591809	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591811	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591812	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591813	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B040	C0591814	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591815	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591816	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591817	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B041	C0591818	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591819	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591821	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591822	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B042	C0591823	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591824	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591825	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591826	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B043	C0591827	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591828	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591829	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591831	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B044	C0591832	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591833	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591834	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B045	C0591836	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591837	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591838	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591839	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B046	C0591841	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591842	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591843	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591844	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B047	C0591845	8/26/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591846	8/26/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591847	8/26/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591848	8/26/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B048	C0591849	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591851	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591852	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591853	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B049	C0591854	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591855	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591856	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591857	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B050	C0591858	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591859	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591861	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591862	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B051	C0591863	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591864	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591865	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591866	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B053	C0591867	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591868	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591869	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591871	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B054	C0591876	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591877	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591878	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591879	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B055	C0591881	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591882	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591883	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591884	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B056	C0591885	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591886	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591887	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591888	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B057	C0591889	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591891	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591892	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591893	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B058	C0591894	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591895	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591896	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591897	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B059	C0591898	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591899	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591901	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591902	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B060	C0591903	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591904	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591905	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591906	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B061	C0591907	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591908	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591909	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591911	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B062	C0591912	8/22/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591913	8/22/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591914	8/22/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591915	8/22/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B063	C0591916	8/26/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591917	8/26/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591918	8/26/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591919	8/26/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B064	C0591921	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591922	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591923	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591924	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B065	C0591925	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591926	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591927	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591928	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B066	C0591929	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591931	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591932	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591933	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B067	C0591934	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591935	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591936	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591937	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B068	C0591938	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591939	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591941	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591942	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B069	C0591943	8/25/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591944	8/25/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591945	8/25/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591946	8/25/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B070	C0591947	8/26/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591948	8/26/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591949	8/26/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591951	8/26/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B071	C0591952	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591953	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591954	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591955	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B072	C0591956	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591957	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591958	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591959	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B073	C0591961	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591962	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591963	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591964	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B074	C0591965	8/4/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591966	8/4/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591967	8/4/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591968	8/4/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
C3S004B075	C0591969	8/26/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591971	8/26/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591972	8/26/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591973	8/26/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
C3S004B076	C0591974	8/26/2003	0 - 0.5	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591975	8/26/2003	0.5 - 2	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591976	8/26/2003	2 - 4	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
	C0591977	8/26/2003	4 - 8	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
Environmental Baseline Survey																			
144-001-006	144-0006	12/8/1994	0.5 - 1	X	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0006M	12/8/1994	0.5 - 1	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
	144-0010	12/8/1994	3.2 - 4	X	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0010M	12/8/1994	3.2 - 4	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
144-001-007	144-0007	12/8/1994	0.5 - 1	X	X	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0007M	12/8/1994	0.5 - 1	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
	144-0011	12/8/1994	4 - 4.5	X	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0011M	12/8/1994	4 - 4.5	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
144-001-008	144-0008	12/8/1994	0.5 - 1	X	X	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0008M	12/8/1994	0.5 - 1	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
	144-0012	12/8/1994	3 - 3.5	X	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	144-0012M	12/8/1994	3 - 3.5	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
144-001-013	144-0009	12/8/1994	0.5 - 1	X	--	--	X	--	--	X	--	X	X	--	--	--	--	--	--
	144-0009M	12/8/1994	0.5 - 1	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
	144-0013	12/8/1994	3 - 3.5	X	--	--	X	--	--	X	--	X	X	--	--	--	--	--	--
	144-0013M	12/8/1994	3 - 3.5	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--
Environmental Baseline Survey, Phase 2A																			
134-001-001	134-0001	4/3/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0001M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0026M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-001-002	134-0002	4/3/1995	3 - 3.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0002M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0027	4/3/1995	0 - 0.5	--	--	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0027M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-001-003	134-0003	4/3/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0003M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0028M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-001-004	134-0004	4/3/1995	3 - 3.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0004M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0029	4/3/1995	0 - 0.5	--	--	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0029M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-001-005	134-0005	4/3/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0005M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0030M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-001-007	134-0007	4/3/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0007M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0032M	4/3/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0038	4/3/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
134-002-008	134-0008M	4/3/1995	3 - 3.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-002-009	134-0009M	4/10/1995	2.5 - 3	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-002-010	134-0010	4/10/1995	2 - 2.5	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	134-0010M	4/10/1995	2 - 2.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-003-011	134-0011	4/5/1995	3 - 3.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0011M	4/5/1995	3 - 4	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0033	4/5/1995	0 - 1	--	--	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0033M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-003-012	134-0012	4/5/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0012M	4/5/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0034M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY
Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
134-003-013	134-0013	4/6/1995	3 - 3.5	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0013M	4/6/1995	3 - 3.5	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
	134-0035M	4/5/1995	0 - 1	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-004-014	134-0014	4/4/1995	3 - 4.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0014M	4/4/1995	3.5 - 4	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-004-015	134-0015	4/11/1995	2 - 2.5	X	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0015M	4/11/1995	2.5 - 3	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-005-016	134-0016M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-005-017	134-0017M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-005-018	134-0018	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
	134-0018M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-005-019	134-0019M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-005-020	134-0020M	4/5/1995	0 - 0.5	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
134-IW-002	134I-002	12/15/1994	7 - 8	X	X	--	X	X	--	X	--	X	X	--	--	X	X	X	X
	134I-002M	12/15/1994	0.5 - 1	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--
134-IW-003	134I-003	12/15/1994	7 - 8	X	X	--	X	X	--	X	--	X	X	--	--	X	X	X	X
	134I-003M	12/15/1994	7 - 7.5	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--
134-IW-004	134I-004	1/24/1995	5 - 5.5	X	X	--	X	X	--	X	--	X	X	--	--	X	X	X	X
	134I-004M	1/24/1995	5 - 5.5	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--
134-IWPS2-001	134P-001	12/15/1994	2 - 3	X	X	--	X	X	--	X	--	X	X	--	--	X	X	X	X
	134P-001M	12/15/1994	2 - 3	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--
134-SN-001	134S-001	5/31/1995	5 - 5.5	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134S-001M	5/31/1995	5 - 5.5	--	X	--	--	--	--	--	X	--	X	--	--	--	--	--	--
134-SN-002	134S-002	12/21/1994	6.5 - 7	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134S-002M	12/21/1994	6.5 - 7	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
134-Z22-021	134-0021	4/4/1995	2 - 2.5	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0021M	4/4/1995	2 - 2.5	--	--	--	--	--	X	X	X	--	X	--	--	--	--	--	--
134-Z22-022	134-0022	4/4/1995	0.5 - 1	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0022M	4/4/1995	0.5 - 1	--	--	--	--	--	X	X	X	--	X	--	--	--	--	--	--
134-Z22-023	134-0023	4/4/1995	1 - 1.5	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	134-0023M	4/4/1995	1 - 1.5	--	--	--	--	--	X	X	X	--	X	--	--	--	--	--	--
134-Z22-024	134-0024	4/10/1995	0 - 0.5	X	--	--	X	--	--	X	--	X	X	--	--	--	--	--	--
	134-0024M	4/10/1995	0 - 0.5	--	--	--	--	--	X	X	--	--	X	--	--	--	--	--	--
143-IW-001	143I-001	12/22/1994	5 - 6	X	X	--	X	X	--	X	--	X	X	--	--	X	X	X	X
	143I-001M	12/22/1994	5 - 6	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--
143-SN-001	143S-001	2/13/1995	5 - 6	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	143S-001M	2/13/1995	5 - 6	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SN-002	143S-002	1/25/1995	5.5 - 6.5	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	143S-002M	1/25/1995	5.5 - 6.5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
144-001-010	144-0017A	3/2/1995	0.5 - 1	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
144-001-011	144-0018A	3/2/1995	0.5 - 1	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
144-001-012	144-0019A	3/2/1995	0.5 - 1	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
144-001-013	144-0016A	3/2/1995	0.5 - 1	--	--	--	--	--	--	X	--	X	--	X	--	--	--	--	--
144-001-014	144-0020	4/28/1995	0.5 - 1	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
144-001-015	144-0021	4/28/1995	0.5 - 1	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
144-001-016	144-0022	4/28/1995	0.5 - 1	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
144-SN-001	144S-001	1/27/1995	4.5 - 5	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
	144S-001M	1/27/1995	4.5 - 5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
Environmental Baseline Survey, Storm Sewer Investigation																			
134-SS-001	134M-001	2/9/1995	3.5 - 4	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	134M-001M	2/9/1995	3.5 - 4	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
134-SS-002	134M-002	2/9/1995	2.5 - 3	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	134M-002M	2/9/1995	2.5 - 3	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
134-SS-004	134M-004	2/23/1995	13.5 - 14	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	134M-004M	2/23/1995	13.5 - 14	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--

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Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
143-SS-001	143M-001	2/9/1995	5 - 6	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	143M-001M	2/9/1995	5 - 6	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-002	143M-002	2/9/1995	3.5 - 4	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	143M-002M	2/9/1995	3.5 - 4	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-003	143M-003	2/9/1995	6 - 6.5	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	143M-003M	2/9/1995	6 - 6.5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-004	143M-004	2/9/1995	5 - 5.5	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	143M-004M	2/9/1995	5 - 5.5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-005	143M-005	2/10/1995	7 - 7.5	X	--	--	--	--	--	--	--	X	--	--	--	--	X	X	X
	143M-005M	2/10/1995	7 - 7.5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-006	143M-006	2/10/1995	5.5 - 6	X	--	--	--	--	--	--	--	X	--	--	--	--	X	X	X
	143M-006M	2/10/1995	5.5 - 6	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
143-SS-007	143M-007	2/10/1995	6.5 - 7	X	--	--	X	--	--	--	--	X	--	--	--	--	X	X	X
	143M-007M	2/10/1995	6.5 - 7	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
Environmental Baseline Survey, Phase 2B																			
134-006-026	134-0042	10/12/1995	5.5 - 6	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-027	134-0044	10/16/1995	5.5 - 6	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-028	134-0046	10/11/1995	4 - 4.5	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-029	134-0047	10/11/1995	0.5 - 1	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
	134-0048	10/11/1995	3.5 - 4	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--
134-006-030	134-0050	10/11/1995	6 - 6.5	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-031	134-0052	10/12/1995	6 - 6.5	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-032	134-0053	10/12/1995	0.5 - 1.5	X	X	--	X	--	--	--	--	X	X	--	--	--	--	--	--
	134-0054	10/12/1995	6 - 7	X	X	--	X	--	--	--	--	X	X	--	--	--	--	--	--
134-006-033	134-0056	10/12/1995	6.5 - 7	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-034	134-0058	10/12/1995	1 - 2	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0059	10/12/1995	5.5 - 6.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
134-006-035	134-0060	10/12/1995	0.5 - 1.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
134-006-036	134-0061	10/23/1995	1 - 1.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
134-006-037	134-0063	10/12/1995	0.5 - 1.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0064	10/12/1995	6 - 7	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
134-006-038	134-0066	10/13/1995	5.5 - 6.5	X	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-039	134-0067	10/23/1995	4 - 4.5	X	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-040	134-0069	10/13/1995	2 - 3	X	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
134-006-042	134-0074	10/13/1995	3.5 - 4.5	--	--	--	--	--	--	--	--	X	X	--	--	--	X	--	--
134-006-043	134-0078	11/10/1995	0.5 - 1.5	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
	134-0079	11/10/1995	3 - 4	--	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
TOTAL PETROLEUM HYDROCARBON INVESTIGATIONS																			
Other TPH (Moju)																			
163-001	163-0014	8/19/1999	3.5 - 4.5	--	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
163-E1	163-E1	3/24/1995	9	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
163-NE	163-NE	8/11/1995	9	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
163-W1	163-W1	3/24/1995	9	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
163-W2	163-W2	3/24/1995	9	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-1E	372-1E	4/1/1995	4	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-1W	372-1W	4/1/1995	4	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-2-ERM	372-S2	1/9/1995	5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-3-ERM	372-S3	1/8/1995	5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-3-MOJ	372-P3	9/4/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-4-ERM	372-S4	1/9/1995	5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-4-MOJ	372-P4	9/4/1997	3.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-5-ERM	372-S5	1/9/1995	5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-5-MOJ	372-P5	9/4/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-6-MOJ	372-P6	9/2/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-7-MOJ	372-P7	9/2/1997	9.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-8-MOJ	372-P8	9/2/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--

TABLE 6-1 : SITE 4 SOIL AND SOIL GAS SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

SAMPLE LOCATION	SAMPLE IDENTIFICATION	DATE SAMPLED	DEPTH (ft bgs)	ANALYSES PERFORMED															
				SVOCs	VOCs	PAHs	Pesticides	o-Pest	PCB	Total Metals	Title 26 Metals	General Chemistry	TPH	Hexavalent Chromium	Cyanide	Herb.	O&G	Organic Metals	Organic Lead
372-9-MOJ	372-P9	9/2/1997	6.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-10-MOJ	372-P10	9/3/1997	6.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-11-MOJ	372-P11	9/3/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-14-MOJ	372-P14	9/22/1997	7	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-15-MOJ	372-P15	9/22/1997	6.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-16-MOJ	372-P16	10/6/1997	6.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-17-MOJ	372-P17	10/6/1997	6	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
372-MW1	372-MW1	1/20/1995	4	--	X	X	--	--	--	--	--	--	X	--	--	--	--	--	--
	372-MW3	1/20/1995	3.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
Fuel Line and Underground Storage Tank Investigations																			
030-FLI-077	030-FLI-077	10/28/1998	5.5	--	X	--	--	--	--	--	--	X	X	--	--	--	--	--	--
030-MOD1-191	030-MOD1-191	12/17/1998	5	X	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
030-MOD1-192	030-MOD1-192	12/17/1998	5.5	X	X	--	--	--	--	X	--	--	X	--	--	--	--	--	--
030-S07-041	030-S07-041	10/7/1998	4.5	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
030-S07-042	030-S07-042	10/7/1998	4	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
030-S07-046	030-S07-046	10/8/1998	4.5	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
030-S07-050	030-S07-050	10/10/1998	3.5	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
030-S07-058	030-S07-058	10/23/1998	8	X	X	--	--	--	--	X	--	X	X	--	--	--	--	--	--
030-S19-004	030-S19-004	10/21/1998	7	X	X	--	X	--	--	X	--	X	X	--	--	--	--	--	--
030-S19-008	030-S19-008	10/23/1998	8	X	X	--	X	--	--	X	--	X	X	--	--	--	--	--	--
030-S19-009	030-S19-009	10/28/1998	4.5	X	X	--	X	--	--	X	--	X	X	--	--	--	--	--	--
Data Gap Investigation, 2000																			
CA04-03	030-CAP-038	5/4/2000	4 - 5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	030-CAP-038	5/4/2000	4 - 5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
CA04-04	030-CAP-040	5/4/2000	0.5 - 1.5	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	030-CAP-040	5/4/2000	0.5 - 1.5	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
	030-CAP-041	5/4/2000	3 - 4	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
	030-CAP-041	5/4/2000	3 - 4	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--
REMOVAL ACTIONS																			
Chemical Oxidation Removal Action, 2002																			
11/21-CH1	11/21-CH1	6/18/2002	5 - 15	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	11/21-CH1B	6/25/2002	22 - 42	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--
11/21-CH2	11/21-CH2	6/18/2002	5 - 15	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	11/21-CH2B	6/25/2002	22 - 42	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--
11/21-CH3	11/21-CH3	6/18/2002	5 - 15	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--
	11/21-CH3B	6/25/2002	22 - 42	--	X	--	--	--	--	X	--	X	--	--	--	--	--	--	--

Notes:

--	Not analyzed
bgs	Below ground surface
ft	Foot
General chemistry	Any combination of the following: percent moisture, pH, reactivity and/or TOC.
o-Pest	Organic pesticide
O & G	Oil and Grease
PAH	Polynuclear aromatic hydrocarbon
PCB	Polychlorinated hydrocarbon
SVOC	Semivolatile organic compound
TPH	Total petroleum hydrocarbon
VOC	Volatile organic compound
CMPL	Complete

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
CERCLA INVESTIGATIONS					--	--	--	--	--	--	--	--	--	--	--
Phases 1 & 2A Investigation, 1991					--	--	--	--	--	--	--	--	--	--	--
MW360-1	MW360-1 [07/11/90]	7/11/1990		5 - 15	X	X	--	--	X	--	X	X	--	--	X
MW360-2	MW360-2 [07/11/90]	7/11/1990		5 - 15	X	X	--	--	X	--	X	X	--	--	X
MW360-3	MW360-3 [07/10/90]	7/10/1990		5 - 15	X	X	--	--	X	--	X	X	--	--	--
MW360-4	MW360-4 [08/03/90]	8/3/1990		5 - 15	X	X	--	--	X	--	X	X	--	--	--
Phases 2B & 3 Investigation, 1991															
G04-01	G04-01	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-02	G04-02	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-03	G04-03	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-04	G04-04	9/6/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-05	G04-05	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-06	G04-06	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-07	G04-07	9/10/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-08	G04-08	9/10/1991		0	X	X	--	--	X	--	X	X	--	X	X
G04-09	G04-09	9/9/1991		0	X	X	--	--	X	--	X	X	--	X	X
Follow-on Investigation, 1994															
03GB015	GPW03-150	8/16/1994	5 - 5		--	X	--	--	--	--	--	X	--	--	--
03GB039	03GPW039	9/9/1994	7 - 9		--	X	--	--	--	--	--	X	--	--	--
D04-01	260-S04-137	7/1/1994		86 - 96	--	X	--	--	X	--	X	X	--	--	X
	260-S04-139	9/27/1994		86 - 96	X	X	--	--	X	--	X	X	--	--	--
	260-S04-140	1/24/1995		86 - 96	--	X	--	--	X	--	X	X	--	--	X
	260-S04-141	5/3/1995		86 - 96	--	X	--	--	X	--	X	X	--	--	--
D04-02	260-S04-190	3/9/1995		86.5 - 96.5	--	X	--	--	X	--	X	X	--	--	X
	260-S04-192	3/9/1995		86.5 - 96.5	--	X	--	--	--	--	--	--	--	--	--
	260-S04-195	5/3/1995		86.5 - 96.5	--	X	--	--	X	--	X	X	--	--	X
D04-03	260-S04-191	3/9/1995		84 - 94	--	X	--	--	X	--	X	X	--	--	X
	260-S04-193	3/9/1995		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	260-S04-196	5/10/1995		84 - 94	--	X	--	--	X	--	X	X	--	--	X
DHP-S04-03	260-S04-105	2/10/1994	19		X	X	--	--	X	--	X	X	--	--	--
DHP-S04-04	260-S04-106	1/27/1995	36.5		X	X	--	--	--	--	--	X	--	--	--
DHP-S04-06	260-S04-249	1/24/1995	49		--	X	--	--	--	--	--	--	--	--	--
DHP-S04-07	260-S04-253	1/18/1995	50		--	X	--	--	--	--	--	--	--	--	--
DHP-S04-08	260-S04-256	1/23/1995	43.5		--	X	--	--	--	--	--	--	--	--	--
DHP-S04-09	260-S04-260	1/25/1995	50		--	X	--	--	--	--	--	--	--	--	--
HP-S04-01	260-S04-102	2/14/1994	20		X	X	--	--	X	--	X	X	--	--	--
HP-S04-02	260-S04-104	2/14/1994	20		X	X	--	--	X	--	X	X	--	--	--
HP-S04-06	260-S04-248	1/24/1995	34		--	X	--	--	--	--	--	--	--	--	--
HP-S04-07	260-S04-252	1/18/1995	30		--	X	--	--	--	--	--	--	--	--	--
HP-S04-08	260-S04-255	1/20/1995	30		--	X	--	--	--	--	--	--	--	--	--
HP-S04-09	260-S04-259	1/25/1995	32		--	X	--	--	--	--	--	--	--	--	--
M03-05	280-S03-063	12/8/1994		3 - 13	X	X	--	--	X	--	X	X	--	--	--
	280-S03-064	2/7/1995		3 - 13	X	X	--	--	X	--	X	X	--	--	--
	280-S03-065	6/7/1995		3 - 13	X	X	--	--	X	--	X	X	--	--	--
	280-S03-066	8/1/1995		3 - 13	X	X	--	--	X	--	X	X	--	--	--
M03-06	280-S03-068	12/8/1994		3 - 12	X	X	--	--	X	--	X	X	--	--	--
	280-S03-069	2/7/1995		3 - 12	X	X	--	--	X	--	X	X	--	--	--
	280-S03-070	6/5/1995		3 - 12	X	X	--	--	X	--	X	X	--	--	--
	280-S03-071	8/2/1995		3 - 12	X	X	--	--	X	--	X	X	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
M04-05	260-S04-089	7/5/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-090	9/26/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-091	1/24/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-092	4/25/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
M04-06	260-S04-094	6/30/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-095	9/23/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-096	1/23/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-097	4/26/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
M04-07	260-S04-098	7/6/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-099	9/27/1994		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	--
	260-S04-100	1/25/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
	260-S04-101	4/24/1995		3.5 - 13.5	X	X	--	--	X	--	X	X	--	--	X
MW360-1	260-S04-070	7/6/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-072	9/22/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-073	1/23/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-074	4/24/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
MW360-2	260-S04-075	7/5/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-076	9/27/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-078	1/24/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-079	4/24/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
MW360-3	260-S04-080	7/1/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-081	9/27/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-082	1/24/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-084	4/21/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
MW360-4	260-S04-085	7/1/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-086	9/23/1994		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-087	1/23/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
	260-S04-088	4/25/1995		5 - 15	X	X	--	--	X	--	X	X	--	--	X
SHP-S04-06	260-S04-247	1/24/1995	10		--	X	--	--	--	--	--	--	--	--	--
SHP-S04-07	260-S04-250	1/18/1995	10		--	X	--	--	--	--	--	--	--	--	--
SHP-S04-08	260-S04-254	1/20/1995	17		--	X	--	--	--	--	--	--	--	--	--
SHP-S04-09	260-S04-257	1/25/1995	16		--	X	--	--	--	--	--	--	--	--	--
Geochemical Profiling, 1997															
S04-1D-A	BERC-S04-1D-A-7	4/8/1997	7		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-1D-A-9	4/8/1997	9		--	X	--	--	--	--	--	--	--	--	--
S04-2D-A	BERC-S04-2D-A-5.5	4/7/1997	5.5		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-2D-A-9	4/7/1997	9		--	X	--	--	--	--	--	--	--	--	--
S04-2D-B	BERC-S04-2D-B-3	4/7/1997	3		--	X	--	--	--	--	--	--	--	--	--
S04-2D-C	BERC-S04-2D-C-15	4/8/1997	15		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-2D-C-7.5	4/8/1997	7.5		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-2D-C-9.5	4/8/1997	9.5		--	X	--	--	--	--	--	--	--	--	--
S04-3C-A	BERC-S04-3C-A-15	4/8/1997	15		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-3C-A-9	4/8/1997	9		--	X	--	--	--	--	--	--	--	--	--
S04-3C-B	BERC-S04-3C-B-20	4/9/1997	20		--	X	--	--	--	--	--	--	--	--	--
S04-3D-A	BERC-S04-3D-A-8	4/9/1997	8		--	X	--	--	--	--	--	--	--	--	--
S04-3D-B	BERC-S04-3D-B-10	4/9/1997	10		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-3D-B-23	4/9/1997	23		--	X	--	--	--	--	--	--	--	--	--
S04-4C-A	BERC-S04-4C-A-23	4/9/1997	23		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-4C-A-8.5	4/9/1997	8.5		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-5C-A	BERC-S04-5C-A-11	4/7/1997	11		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-5C-A-15	4/8/1997	15		--	X	--	--	--	--	--	--	--	--	--
S04-5C-B	BERC-S04-5C-B-10	4/9/1997	10		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-5C-B-25	4/9/1997	25		--	X	--	--	--	--	--	--	--	--	--
	BERC-S04-5C-B-7	4/9/1997	7		--	X	--	--	--	--	--	--	--	--	--
Follow-on Investigation, 1998															
D04-01	108-S04-030	8/5/1998		86 - 96	--	X	--	--	X	--	X	X	--	--	--
	108-S04-043	5/13/1998		86 - 96	--	X	--	--	X	--	X	X	--	--	--
D04-02	108-S01-014	11/14/1997		86.5 - 96.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-010	2/4/1998		86.5 - 96.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-020	5/8/1998		86.5 - 96.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-031	8/5/1998		86.5 - 96.5	--	X	--	--	X	--	X	--	--	--	--
D04-03	108-S04-004	11/14/1997		84 - 94	--	X	--	--	X	--	X	--	--	--	--
	108-S04-011	2/4/1998		84 - 94	--	X	--	--	X	--	X	--	--	--	--
	108-S04-021	5/6/1998		84 - 94	--	X	--	--	X	--	X	--	--	--	--
	108-S04-032	8/5/1998		84 - 94	--	X	--	--	X	--	X	--	--	--	--
M03-05	108-S03-002	11/3/1997		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S03-005	2/6/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S03-008	5/11/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S03-011	8/4/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-001	11/3/1997		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-013	2/9/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-022	5/5/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-033	8/4/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
M04-06	108-S04-002	11/3/1997		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-014	2/9/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-023	5/6/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-034	8/4/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
M04-07	108-S04-003	11/3/1997		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-015	2/9/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-024	5/5/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
	108-S04-035	8/4/1998		3.5 - 13.5	--	X	--	--	X	--	X	--	--	--	--
MW360-1	108-S04-005	11/7/1997		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-016	2/9/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-025	5/6/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-036	8/4/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
MW360-2	108-S04-006	11/6/1997		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-017	2/9/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-026	5/6/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-037	8/4/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
MW360-3	108-S04-007	11/3/1997		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-018	2/9/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-027	5/14/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-038	8/5/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
MW360-4	108-S04-008	11/6/1997		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-019	2/9/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-029	5/6/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--
	108-S04-040	8/5/1998		5 - 15	--	X	--	--	X	--	X	--	--	--	--

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Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-0-4	122-S04-130	2/12/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-131	2/12/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-132	2/12/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-134	2/12/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-136	2/12/1998	45 - 50		--	X	--	--	--	--	--	--	--	--	--
	122-S04-155	2/17/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-156	2/17/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
S04-1-2	122-S04-070	1/28/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
S04-1-3	122-S04-071	1/28/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-072	1/28/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-073	1/28/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
S04-1-4	122-S04-074	1/29/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-075	1/29/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-076	1/29/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-092	1/30/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-094	1/30/1998	45 - 50		--	X	--	--	--	--	--	--	--	--	--
	122-S04-122	2/11/1998	55 - 60		--	X	--	--	--	--	--	--	--	--	--
	122-S04-144	2/16/1998	9.5 - 11.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-145	2/16/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-146	2/16/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
S04-1-6	122-S04-103	2/2/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-105	2/2/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-107	2/2/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-141	2/13/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-142	2/13/1998	45 - 50		--	X	--	--	--	--	--	--	--	--	--
	122-S04-153	2/17/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
S04-2-1	122-S04-003	1/21/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
S04-2-2	122-S04-106	2/2/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
S04-2-3	122-S04-005	1/27/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
S04-2-3	122-S04-007	1/27/1998	9.5 - 11.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-061	1/27/1998	11 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-069	1/28/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
S04-2-4	122-S04-008	1/23/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-009	1/23/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-010	1/23/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-011	1/23/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-060	1/26/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	M03-13-A1737	1/23/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
S04-2-5	122-S04-077	1/29/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-078	1/29/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-079	1/29/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-109	2/2/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-168	3/2/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-170	3/2/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
S04-2-6	122-S04-086	1/30/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-087	1/30/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-090	1/30/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-173	3/3/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-174	3/3/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-175	3/3/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--

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Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-2-7	122-S04-127	2/11/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-150	2/17/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-151	2/17/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-152	2/17/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-197	3/10/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-202	3/10/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
S04-3-1	122-S04-012	1/22/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-013	1/22/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-014	1/22/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-101	2/2/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-108	2/2/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
S04-3-2	122-S04-015	1/21/1998	7.5 - 9.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-016	1/21/1998	9.5 - 11.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-017	1/21/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-018	1/21/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-019	1/21/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-020	1/21/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
S04-3-3	122-S04-021	1/22/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-022	1/22/1998	7.5 - 9.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-023	1/22/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-024	1/22/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-025	1/22/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-026	1/22/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-093	1/29/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-093	1/30/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
S04-3-4	122-S04-027	1/23/1998	9.5 - 11.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-030	1/23/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-054	1/23/1998	5.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-056	1/23/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-057	1/23/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-058	1/26/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
S04-3-5	122-S04-032	1/29/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-081	1/29/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-082	1/29/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-083	1/29/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
S04-3-6	122-S04-102	2/2/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-111	2/2/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-128	2/11/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-147	2/16/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-179	3/4/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-181	3/4/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-182	3/4/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--
S04-3-7	122-S04-124	2/11/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-125	2/11/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-144	2/13/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-148	2/17/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
	122-S04-177	3/3/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-178	3/3/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-184	3/4/1998	15.5 - 20		--	X	--	--	--	--	--	--	--	--	--

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S04-4-4	122-S04-095	1/30/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-097	1/30/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-112	2/4/1998	40 - 45		--	X	--	--	--	--	--	--	--	--	--
S04-4-5	122-S04-085	1/30/1998	9.5 - 11.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-088	1/30/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-091	1/30/1998	13.5 - 15.5		--	X	--	--	--	--	--	--	--	--	--
	122-S04-121	2/5/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
S04-4-6	122-S04-113	2/4/1998	20 - 25		--	X	--	--	--	--	--	--	--	--	--
	122-S04-115	2/4/1998	25 - 30		--	X	--	--	--	--	--	--	--	--	--
	122-S04-116	2/4/1998	30 - 35		--	X	--	--	--	--	--	--	--	--	--
	122-S04-192	3/9/1998	15.2 - 20		--	X	--	--	--	--	--	--	--	--	--
	122-S04-208	3/11/1998	11.5 - 13.5		--	X	--	--	--	--	--	--	--	--	--
Supplemental Data Gap Sampling, 2001															
372-MW1	385-S04-133	6/29/2001		2.5 - 12.5	X	X	--	--	--	X	--	X	--	--	--
372-MW3	385-S04-134	6/29/2001		2.7 - 12.7	X	X	--	--	--	X	--	X	--	--	--
6H	385-S21-046	7/23/2001			--	X	--	--	--	--	--	X	--	--	--
D04-01	385-S04-130	7/3/2001		86 - 96	X	X	--	--	--	X	--	X	--	--	--
D04-02	385-S04-106	6/27/2001		86.5 - 96.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-107	6/27/2001		86.5 - 96.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-108	6/27/2001		86.5 - 96.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-109	6/27/2001		86.5 - 96.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-131	7/3/2001		86.5 - 96.5	X	X	--	--	--	X	--	X	--	--	--
D04-03	385-S04-111	7/9/2001		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	385-S04-112	7/9/2001		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	385-S04-113	7/9/2001		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	385-S04-114	7/9/2001		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	385-S04-115	7/9/2001		84 - 94	--	X	--	--	--	--	--	--	--	--	--
	385-S04-132	7/10/2001		84 - 94	X	X	--	--	--	X	--	X	--	--	--
M03-05	385-S03-044	6/27/2001		3 - 13	X	X	--	--	--	X	--	X	--	--	--
M03-06	385-S03-045	6/27/2001		3 - 12	X	X	--	--	--	X	--	X	--	--	--
M04-05	385-S04-101	7/10/2001		3.5 - 13.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-102	7/10/2001		3.5 - 13.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-103	7/10/2001		3.5 - 13.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-104	7/10/2001		3.5 - 13.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-127	7/16/2001		3.5 - 13.5	X	X	--	--	--	X	--	X	--	--	--
M04-06	385-S04-128	7/2/2001		3.5 - 13.5	X	X	--	--	--	X	--	X	--	--	--
M04-07	385-S04-129	7/2/2001		3.5 - 13.5	--	X	--	--	--	--	--	--	--	--	--
	385-S04-129A	7/25/2001		3.5 - 13.5	X	--	--	--	--	X	--	X	--	--	--
MW360-1	385-S04-077	7/9/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-078	7/9/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-079	7/9/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-080	7/9/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-081	7/9/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-123	7/10/2001		5 - 15	X	X	--	--	--	X	--	X	--	--	--
MW360-2	385-S04-083	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-083A	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-084	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-085	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-086	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-087	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-087A	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-124	7/16/2001		5 - 15	X	X	--	--	--	X	--	X	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

					Analyses Performed										
Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
MW360-3	385-S04-088	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-089	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-090	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-091	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-092	7/10/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-125	7/16/2001		5 - 15	X	X	--	--	--	X	--	X	--	--	--
MW360-4	385-S04-095	6/27/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-096	6/27/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-097	6/27/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-098	6/27/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-099	6/27/2001		5 - 15	--	X	--	--	--	--	--	--	--	--	--
	385-S04-126	6/29/2001		5 - 15	X	X	--	--	--	X	--	X	--	--	--
S04-DGS-DP01	385-S04-209	8/20/2001	8 - 10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-210	8/20/2001	15 - 17		--	X	--	--	--	--	--	--	--	--	--
	385-S04-211	8/20/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP03	385-S04-001	7/3/2001	13		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP05	385-S04-002	8/3/2001	13		--	X	--	--	--	--	--	--	--	--	--
	385-S04-003	8/3/2001	25		--	X	--	--	--	--	--	--	--	--	--
	385-S04-004	8/3/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-004A	8/3/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-005	8/3/2001	35		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP06	385-S04-023	4/27/2002	8		--	X	--	--	X	--	X	--	--	X	--
S04-DGS-DP09	385-S04-024	7/19/2001	12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-024A	7/19/2001	12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-025	7/19/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-026	7/19/2001	35		--	X	--	--	--	--	--	--	--	--	--
	385-S04-027	7/19/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-028	7/19/2001	48		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP10	385-S04-029	7/31/2001	7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-030	7/31/2001	12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-030A	7/31/2001	12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-031	7/31/2001	15		--	X	--	--	--	--	--	--	--	--	--
	385-S04-032	7/31/2001	25		--	X	--	--	--	--	--	--	--	--	--
	385-S04-240	8/30/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-242	8/31/2001	75 - 77		--	X	--	--	--	--	--	--	--	--	--
	385-S04-245	9/6/2001	48		--	X	--	--	--	--	--	--	--	--	--
	385-S04-246	9/6/2001	60		--	X	--	--	--	--	--	--	--	--	--
	385-S04-262	9/20/2001	75 - 77		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP11	385-S04-033	7/31/2001	6		--	X	--	--	--	--	--	--	--	--	--
	385-S04-034	7/31/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-035	7/31/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-036	7/31/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-037	7/31/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-038	8/1/2001	50		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP12	385-S04-039	8/1/2001	6		--	X	--	--	--	--	--	--	--	--	--
	385-S04-040	8/1/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-041	8/1/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-042	8/1/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-043	8/1/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-044	8/1/2001	50		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-DGS-DP13	385-S04-045	8/1/2001	6		--	X	--	--	--	--	--	--	--	--	--
	385-S04-045A	8/1/2001	6		--	X	--	--	--	--	--	--	--	--	--
	385-S04-046	8/2/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-047	8/2/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-048	8/2/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-049	8/2/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-050	8/2/2001	50		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP14	385-S04-052	7/24/2001	10		--	X	--	--	--	--	--	X	--	--	--
	385-S04-052A	7/24/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-053	7/24/2001	25		--	X	--	--	--	--	--	X	--	--	--
	385-S04-054	7/24/2001	35		--	X	--	--	--	--	--	X	--	--	--
	385-S04-055	7/24/2001	45		--	X	--	--	--	--	--	X	--	--	--
	385-S04-056	7/24/2001	55		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-DP15	385-S04-058	8/8/2001	8		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-DP16	385-S04-062	6/20/2001	6 - 9		--	--	--	--	X	--	X	--	--	--	--
S04-DGS-DP17	385-S04-065	6/20/2001	6 - 8		--	--	--	--	X	--	--	--	--	--	--
	385-S04-065A	6/21/2001	6		--	--	--	--	--	--	X	--	--	X	--
S04-DGS-DP18	385-S04-068	6/19/2001	5 - 5.5		--	--	--	--	X	--	--	--	--	--	--
	385-S04-068A	6/21/2001	7		--	--	--	--	--	--	X	--	--	X	--
S04-DGS-DP19	385-S04-071	6/19/2001	8 - 8.5		--	--	--	--	X	--	--	--	--	--	--
	385-S04-071A	6/21/2001	8		--	--	--	--	--	--	X	--	--	X	--
S04-DGS-DP20	385-S04-074	6/19/2001	8 - 8.5		--	--	--	--	X	--	--	--	--	--	--
	385-S04-074A	6/21/2001	7		--	--	--	--	--	--	X	--	--	X	--
S04-DGS-DP21	385-S04-075	7/9/2001	7		--	--	--	--	X	--	X	--	--	X	--
	385-S04-076	7/10/2001	12		--	--	--	--	X	--	--	--	--	--	--
	385-S04-076A	7/10/2001	12		--	--	--	--	--	--	X	--	--	X	--
S04-DGS-DP24	385-S04-177	8/10/2001	7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-178	8/10/2001	14		--	X	--	--	--	--	--	--	--	--	--
	385-S04-179	8/10/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-180	8/10/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-207	8/20/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-208	8/20/2001	50		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP25	385-S04-193	8/14/2001	7 - 9		--	X	--	--	--	--	--	--	--	--	--
	385-S04-194	8/14/2001	15 - 17		--	X	--	--	--	--	--	--	--	--	--
	385-S04-195	8/14/2001	25 - 27		--	X	--	--	--	--	--	--	--	--	--
	385-S04-196	8/14/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-249	9/7/2001	48		--	X	--	--	--	--	--	--	--	--	--
	385-S04-250	9/7/2001	60		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP26	385-S04-197	8/14/2001	7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-198	8/14/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-198A	8/14/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-199	8/14/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-200	8/14/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-201	8/15/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-202	8/15/2001	50		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP27	385-S04-187	8/13/2001	7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-188	8/13/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-189	8/13/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-190	8/14/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-191	8/14/2001	38		--	X	--	--	--	--	--	--	--	--	--
	385-S04-192	8/14/2001	50		--	X	--	--	--	--	--	--	--	--	--

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Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-DGS-DP28	385-S04-181	8/13/2001	7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-182	8/13/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S04-183	8/13/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-184	8/13/2001	30		--	X	--	--	--	--	--	--	--	--	--
	385-S04-185	8/13/2001	40		--	X	--	--	--	--	--	--	--	--	--
	385-S04-186	8/13/2001	50		--	X	--	--	--	--	--	--	--	--	--
	385-S04-186A	8/13/2001	50		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP29	385-S04-203	8/15/2001	15		--	X	--	--	--	--	--	X	--	--	--
	385-S04-203A	8/15/2001	15		--	X	--	--	--	--	--	X	--	--	--
	385-S04-204	8/15/2001	25		--	X	--	--	--	--	--	X	--	--	--
	385-S04-205	8/16/2001	35		--	X	--	--	--	--	--	X	--	--	--
	385-S04-206	8/16/2001	45		--	X	--	--	--	--	--	X	--	--	--
	385-S04-261	9/17/2001	8 - 10		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-DP30	385-S04-212	8/20/2001	14		--	X	--	--	--	--	--	--	--	--	--
	385-S04-213	8/20/2001	20		--	X	--	--	--	--	--	--	--	--	--
	385-S04-214	8/20/2001	35		--	X	--	--	--	--	--	--	--	--	--
	385-S04-215	8/20/2001	45		--	X	--	--	--	--	--	--	--	--	--
	385-S04-216	8/20/2001	55		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP31	385-S04-217	8/21/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-232	8/21/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-233	8/21/2001	15 - 17		--	X	--	--	--	--	--	--	--	--	--
	385-S04-234	8/21/2001	25 - 27		--	X	--	--	--	--	--	--	--	--	--
	385-S04-244	8/31/2001	45 - 47		--	X	--	--	--	--	--	--	--	--	--
	385-S04-247	9/6/2001	60		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP32	385-S04-222	8/21/2001	6 - 8		--	X	--	--	--	--	--	--	--	--	--
	385-S04-223	8/21/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-224	8/21/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-225	8/21/2001	5 - 7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-226	8/21/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-226A	8/21/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-227	8/21/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-228	8/21/2001	30 - 32		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP34	385-S04-218	8/21/2001	6 - 8		--	X	--	--	--	--	--	--	--	--	--
	385-S04-219	8/21/2001	12 - 14		--	X	--	--	--	--	--	--	--	--	--
	385-S04-220	8/21/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-221	8/21/2001	30 - 32		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP35	385-S04-229	8/22/2001	15 - 17		--	X	--	--	--	--	--	X	--	--	--
	385-S04-230	8/22/2001	25 - 27		--	X	--	--	--	--	--	X	--	--	--
	385-S04-231	8/23/2001	8 - 10		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-DP36	385-S04-232C	8/28/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-233C	8/28/2001	25 - 27		--	X	--	--	--	--	--	--	--	--	--
	385-S04-243	8/31/2001	75 - 77		--	X	--	--	--	--	--	--	--	--	--
	385-S04-251	9/7/2001	48		--	X	--	--	--	--	--	--	--	--	--
	385-S04-252	9/7/2001	60		--	X	--	--	--	--	--	--	--	--	--
	385-S04-263	9/20/2001	75 - 77		--	X	--	--	--	--	--	--	--	--	--
	385-S04-264	9/26/2001	12 - 14		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP37	385-S04-237	8/29/2001	6 - 8		--	X	--	--	--	--	--	--	--	--	--
	385-S04-238	8/29/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP38	385-S04-234C	8/29/2001	5 - 7		--	X	--	--	--	--	--	--	--	--	--
	385-S04-235C	8/29/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-235CA	8/29/2001	10 - 12		--	X	--	--	--	--	--	--	--	--	--
	385-S04-236C	8/29/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP39	385-S04-239	8/29/2001	6 - 8		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
S04-DGS-DP40	385-S04-241	8/31/2001	25 - 27		--	X	--	--	--	--	--	--	--	--	--
	385-S04-248	9/6/2001	60		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP41	385-S04-256	9/17/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-257	9/17/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-258	9/17/2001	48 - 50		--	X	--	--	--	--	--	--	--	--	--
	385-S04-259	9/17/2001	60 - 62		--	X	--	--	--	--	--	--	--	--	--
	385-S04-265	9/26/2001	12 - 14		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP42	385-S04-253	9/11/2001	5		--	X	--	--	--	--	--	--	--	--	--
	385-S04-254	9/11/2001	10		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP43	385-S04-255	9/11/2001	6		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP44	385-S04-260	9/17/2001	25 - 27		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-DP45	385-S04-266	9/26/2001	12 - 14		--	X	--	--	--	--	--	--	--	--	--
	385-S04-267	9/26/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-268	9/26/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-269	10/5/2001	48 - 50		--	X	--	--	--	--	--	--	--	--	--
	385-S04-270	10/5/2001	60 - 62		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP47	385-S04-275	10/8/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-276	10/8/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-277	10/8/2001	48 - 50		--	X	--	--	--	--	--	--	--	--	--
	385-S04-278	10/8/2001	60 - 62		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-DP48	385-S04-279	10/8/2001	20 - 22		--	X	--	--	--	--	--	--	--	--	--
	385-S04-280	10/8/2001	35 - 37		--	X	--	--	--	--	--	--	--	--	--
	385-S04-281	10/8/2001	48 - 50		--	X	--	--	--	--	--	--	--	--	--
	385-S04-282	10/8/2001	60 - 62		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-VE01	385-S04-138	8/6/2001	8 - 10		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-VE02	385-S04-141	8/7/2001	5 - 6		--	X	--	--	--	--	--	X	--	--	--
S04-DGS-VE03	385-S04-236	8/21/2001	7		--	X	--	--	--	--	--	--	--	--	--
S04-DGS-VE04	385-S04-307	4/26/2002	7		--	--	--	--	X	--	--	--	--	X	X
	385-S04-307A	4/26/2002	7		--	--	--	--	X	--	--	--	--	--	--
S04-DGS-VE05	385-S04-310	4/26/2002	7		--	--	--	--	X	--	--	--	--	X	X
	385-S04-310A	4/26/2002	7		--	--	--	--	X	--	--	--	--	--	--
S11-DGS-DP107	385-S11-128	8/24/2001	10		X	X	--	--	--	--	X	--	X	--	--
	385-S11-128A	8/24/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S11-129	8/24/2001	25		X	--	--	--	--	--	X	--	X	--	--
	385-S11-129A	8/24/2001	25		--	X	--	--	--	--	--	--	--	--	--
	385-S11-130	8/24/2001	50		X	--	--	--	--	--	X	--	X	--	--
	385-S11-130A	8/24/2001	50		--	X	--	--	--	--	--	--	--	--	--
S11-DGS-DP108	385-S11-131	8/30/2001	10		X	--	--	--	--	--	X	--	X	--	--
	385-S11-131A	8/30/2001	10		--	X	--	--	--	--	--	--	--	--	--
	385-S11-132	8/30/2001	25		X	--	--	--	--	--	X	--	X	--	--
	385-S11-132A	8/30/2001	25		--	X	--	--	--	--	--	--	--	--	--
	385-S11-133	8/30/2001	50		X	--	--	--	--	--	X	--	X	--	--
	385-S11-133A	8/30/2001	50		--	X	--	--	--	--	--	--	--	--	--
S11-DGS-DP109	385-S11-117	9/18/2001	10 - 12		X	X	--	--	--	--	X	--	X	--	--
	385-S11-121	9/18/2001	25 - 27		X	X	--	--	--	--	X	--	X	--	--
	385-S11-124	9/18/2001	50 - 52		X	X	--	--	--	--	X	--	X	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
Basewide Groundwater Monitoring, 2003															
372-MW1	372-MW1-A1300	7/11/2002		2.5 - 12.5	--	X	--	--	X	--	X	X	X	--	--
D04-01	D04-01-A1081	7/3/2002		86 - 96	--	X	--	--	X	--	X	X	X	--	--
	D04-01-A1582	12/10/2002		86 - 96	--	X	--	--	X	--	X	X	X	--	--
D04-02	D04-02-A1082	7/3/2002		86.5 - 96.5	--	X	--	--	X	--	X	X	X	--	--
	D04-02-A1583	12/10/2002		86.5 - 96.5	--	X	--	--	X	--	X	X	X	--	--
D04-03	D04-03-A1083	7/3/2002		84 - 94	--	X	--	--	X	--	X	X	--	--	--
	D04-03-A1584	12/10/2002		84 - 94	--	X	--	--	X	--	X	X	--	--	--
M03-05	M03-05-A1088	7/3/2002		3 - 13	--	X	--	--	X	--	X	X	X	--	--
	M03-05-A1589	12/9/2002		3 - 13	--	X	--	--	X	--	X	X	X	--	--
M03-06	M03-06-A1089	7/3/2002		3 - 12	--	X	--	--	X	--	X	X	X	--	--
	M03-06-A1300	9/6/2002		3 - 12	--	X	--	--	X	--	--	X	--	--	--
	M03-06-A1590	12/11/2002		3 - 12	--	X	--	--	X	--	X	X	X	--	--
M03-10	M03-10-A1302	9/6/2002		28 - 38	--	X	--	--	X	--	--	X	--	--	--
	M03-10-A1734	12/13/2002		28 - 38	--	X	--	--	X	--	--	X	--	--	--
M03-11	M03-11-A1303	9/9/2002		26 - 36	--	X	--	--	X	--	--	X		--	--
	M03-11-A1735	12/13/2002		26 - 36	--	X	--	--	X	--	--	X	--	--	--
	M03-11-A1956	4/11/2003		26 - 36	--	X	--	--	--	--	--	X	--	--	--
M03-12	M03-12-A1304	9/9/2002		26 - 36	--	X	--	--	X	--	--	X	--	--	--
	M03-12-A1736	12/13/2002		26 - 36	--	X	--	--	X	--	--	X	--	--	--
M03-13	M03-13-A1305	9/9/2002		26.5 - 36.5	--	X	--	--	X	--	--	X	--	--	--
	M03-13-A1737	12/13/2002		26.5 - 36.5	--	X	--	--	X	--	--	X	--	--	--
M04-05	M04-05-A1091	6/21/2002		3.5 - 13.5	--	X	--	--	X	--	X	X	X	--	--
	M04-05-A1306	9/9/2002		3.5 - 13.5	--	X	--	--	X	--	--	X	--	--	--
	M04-05-A1592	12/9/2002		3.5 - 13.5	--	X	--	--	X	--	X	X	X	--	--
M04-06	M04-06-A1092	6/21/2002		3.5 - 13.5	--	X	--	--	X	--	X	X	--	--	--
	M04-06-A1593	12/11/2002		3.5 - 13.5	--	X	--	--	X	--	X	X	--	--	--
	M04-06-A1593A	1/8/2003		3.5 - 13.5	--	--	--	--	--	--	X		--	--	--
MW360-1	MW-360-01-A1100	6/19/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
	MW360-1-A1314	9/9/2002		5 - 15	--	X	--	--	X	--	--	X	--	--	--
	MW360-1-A1601	12/10/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
MW360-2	MW-360-02-A1101	6/19/2002		5 - 15	--	X	--	--	X	--	X	X	X	--	--
	MW360-2-A1315	9/9/2002		5 - 15	--	X	--	--	X	--	--	X	--	--	--
	MW360-2-A1602	12/9/2002		5 - 15	--	X	--	--	X	--	X	X	X	--	--
MW360-3	MW360-3-A1102	6/19/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
	MW360-3-A1316	9/9/2002		5 - 15	--	X	--	--	X	--	--	X	--	--	--
	MW360-3-A1603	12/9/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
MW360-4	MW360-4-A1103	6/19/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
	MW360-4-A1317	9/9/2002		5 - 15	--	X	--	--	X	--	--	X	--	--	--
	MW360-4-A1604	12/10/2002		5 - 15	--	X	--	--	X	--	X	X	--	--	--
TOTAL PETROLEUM HYDROCARBON INVESTIGATIONS															
Fuel Line and Underground Storage Tank Investigation															
030-S07-016	030-S07-016	10/9/1998	7.5 - 8.5		X	X	--	X	--	--	--	X	--	--	--
030-S19-011	030-S19-011	11/2/1998	7.5		X	X	X	X	--	--	--	X	--	--	--
163-001	163-0015	8/19/1999	5 - 12	0 - 0	--	X	--	X	--	--	--	X	--	--	--
372-10-ERM	372-W10	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-10-MOJ	372-P10	9/3/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-11-ERM	372-W11	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-11-MOJ	372-P11	9/3/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-12-ERM	372-W12	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--

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Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
372-13-ERM	372-W13	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-14-ERM	372-W14	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-14-MOJ	372-P14	9/22/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-15-ERM	372-W15	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-15-MOJ	372-P15	9/22/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-16-ERM	372-W16	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-16-MOJ	372-P16	10/6/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-17-ERM	372-W17	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-17-MOJ	372-P17	10/6/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-18-ERM	372-W18	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-19-ERM	372-W19	8/22/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-1-ERM	372-W1	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-20-ERM	372-W20	8/22/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-2-ERM	372-W2	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-3-ERM	372-W3	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-3-MOJ	372-P3	9/4/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-4-ERM	372-W4	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-4-MOJ	372-P4	9/4/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-5-ERM	372-W5	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-5-MOJ	372-P5	9/4/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-6-ERM	372-W6	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-6-MOJ	372-P6	9/2/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-7-ERM	372-W7	1/9/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-7-MOJ	372-P7	9/2/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-8-ERM	372-W8	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-8-MOJ	372-P8	9/2/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-9-ERM	372-W9	1/10/1995		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-9-MOJ	372-P9	9/3/1997		0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-MW1	372-MW1	2/7/1995	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW1	12/17/1997	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW1	3/17/1998	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW1	9/28/1998	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
372-MW3	372-MW3	2/7/1995	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW3	12/17/1997	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW3	3/17/1998	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW3	9/28/1998	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
	372-MW3	4/2/1999	2.5 - 12.5	0 - 0	--	X	--	--	--	--	--	X	--	--	--
CA04-01	030-CAP-036	4/27/2000	10		--	X	--	--	X	--	X	X	X	--	--
CA04-02	030-CAP-037	4/27/2000	10		--	X	--	--	X	--	X	X	X	--	--
CA04-05	030-CAP-058	4/27/2000	10		--	X	--	--	--	--	--	--	--	--	--
	030-CAP-059	4/27/2000	46 - 50		--	X	--	--	--	--	--	--	--	--	--
CA04-06	030-CAP-060	4/27/2000	6 - 10		--	X	--	--	--	--	--	--	--	--	--
	030-CAP-061	4/27/2000	46 - 50		--	X	--	--	--	--	--	--	--	--	--
ENVIRONMENTAL BASELINE SURVEY															
Environmental Baseline Survey Phase 2B, 1995															
134-006-026	134-0041	10/12/1995	8.5 - 9.5		--	--	--	--	--	--	--	X	--	--	--
134-006-027	134-0043	10/16/1995	10 - 10		--	--	--	--	--	--	--	X	--	--	--
134-006-028	134-0045	10/11/1995	7.5 - 8.5		--	--	--	--	--	--	--	X	--	--	--
	134-0045RS	11/6/1995	8 - 9		--	--	--	--	--	--	--	X	--	--	--

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					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
134-006-030	134-0049	10/11/1995	7.5 - 8.5		--	--	--	--	--	--	--	X	--	--	--
	134-0049RS	11/6/1995	8 - 9		--	--	--	--	--	--	--	X	--	--	--
134-006-031	134-0051	10/12/1995	8.5 - 9.5		--	--	--	--	--	--	--	X	--	--	--
134-006-033	134-0055	10/12/1995	9 - 10		--	--	--	--	--	--	--	X	--	--	--
134-006-034	134-0057	10/12/1995	9 - 10		--	X	--	--	--	--	--	X	--	--	--
134-006-037	134-0062	10/12/1995	10 - 12		--	X	--	X	--	--	--	X	--	--	--
134-006-038	134-0065	10/13/1995	8 - 9		X	X	--	--	--	--	--	X	--	--	--
134-006-040	134-0068	10/13/1995	8 - 9		X	X	--	--	--	--	--	X	--	--	--
134-006-042	134-0073	10/13/1995	7 - 8		--	--	--	--	--	--	--	X	--	--	--
REMOVAL ACTIONS															
Chemical Oxidation Removal Action, 2002															
11/21-CH1	11/21-CH1-10	7/9/2002	8 - 12		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH1-20	7/9/2002	18 - 22		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH1-30	7/10/2002	28 - 32		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH1-40	7/10/2002	38 - 40		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH1-50	7/10/2002	48 - 52		--	X	--	--	--	--	--	--	--	--	--
11/21-CH2	11/21-CH2-10	7/10/2002	8 - 12		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH2-20	7/10/2002	18 - 22		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH2-30	7/10/2002	28 - 32		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH2-40	7/10/2002	38 - 42		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH2-50	7/10/2002	48 - 52		--	X	--	--	--	--	--	--	--	--	--
11/21-CH3	11/21-CH3-10	7/10/2002	8 - 12		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH3-10D	7/10/2002	8 - 12		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH3-20	7/10/2002	18 - 22		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH3-30	7/10/2002	28 - 32		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH3-40	7/10/2002	38 - 42		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH3-50	7/11/2002	48 - 52		--	X	--	--	--	--	--	--	--	--	--
11/21-CH4	11/21-CH4-10	7/11/2002	8 - 12		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH4-20	7/11/2002	18 - 22		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH4-30	7/11/2002	28 - 32		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH4-40	7/11/2002	38 - 42		--	X	--	--	--	--	--	--	--	--	--
	11/21-CH4-50	7/11/2002	48 - 52		--	X	--	--	--	--	--	--	--	--	--
IW-01	SITE11-21-036	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
MW-01	SITE11-21-037	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
MW-02	SITE11-21-038	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
MW-03	SITE11-21-039	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
MW-04	SITE11-21-040	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
P-11-MWI-03	SITE11-032	9/11/2002			--	X	--	X	--	--	X	--	--	--	--
P-11-MWI-07	SITE11-035	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
P-11-MWI-11	SITE11-034	9/12/2002			--	X	--	X	--	--	X	--	--	--	--
Pilot Studies, 2002															
4-1-ADD1	4-1-ADD1-10	10/29/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD1	4-1-ADD1-15	10/29/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD1	4-1-ADD1-19	10/29/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD1	4-1-ADD1-25	10/29/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD1	4-1-ADD1-30	10/29/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD1	4-1-ADD1-34	10/29/2001	31 - 34		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-10	10/22/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-14	10/22/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-19	10/22/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-1-ADD2	4-1-ADD2-25	10/22/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-30	10/22/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-34	10/22/2001	31 - 34		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-39	10/22/2001	36 - 39		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD2	4-1-ADD2-45	10/22/2001	41 - 45		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-10	10/29/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-15	10/29/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-19	10/29/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-25	10/29/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-30	10/29/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-34	10/29/2001	31 - 34		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD3	4-1-ADD3-45	10/29/2001	41 - 45		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-10	11/13/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-15	11/13/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-19	11/13/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-25	11/13/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-30	11/13/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-34	12/7/2001	31 - 34		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD4	4-1-ADD4-40	12/7/2001	36 - 40		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-10	10/23/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-15	10/23/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-20	10/23/2001	17 - 20		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-25	10/23/2001	22 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-30	10/23/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-35	10/23/2001	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-40	10/23/2001	36 - 40		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD5	4-1-ADD5-45	10/23/2001	41 - 45		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-10	11/15/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-15	11/15/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-20	11/15/2001	17 - 20		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-25	11/15/2001	22 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-30	11/15/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-35	11/15/2001	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD6	4-1-ADD6-40	11/15/2001	36 - 40		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-10	10/22/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-15	10/22/2001	11 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-19	10/22/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-24	10/22/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-29	10/22/2001	26 - 29		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD7	4-1-ADD7-39	10/22/2001	36 - 39		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD37	4-1-ADD37-09	12/7/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD37	4-1-ADD37-15	12/7/2001	11 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD37	4-1-ADD37-20	12/7/2001	17 - 20		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD37	4-1-ADD37-25	12/7/2001	22 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD37	4-1-ADD37-31	12/7/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-10	12/5/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-15	12/5/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-19	12/5/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-24	12/5/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-30	12/5/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD53	4-1-ADD53-35	12/5/2001	31 - 35		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-1-ADD53	4-1-ADD53-40	12/5/2001	37 - 40		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD54	4-1-ADD54-09	12/6/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD54	4-1-ADD54-15	12/6/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD54	4-1-ADD54-19	12/6/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD54	4-1-ADD54-25	12/6/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD55	4-1-ADD55-10	12/6/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD55	4-1-ADD55-25	12/6/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD56	4-1-ADD56-09	12/5/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD56	4-1-ADD56-15	12/5/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD56	4-1-ADD56-19	12/5/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD56	4-1-ADD56-24	12/5/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD62	4-1-ADD62-10	12/27/2001	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD62	4-1-ADD62-15	12/27/2001	11 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD62	4-1-ADD62-19	12/27/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD62	4-1-ADD62-24.5	12/27/2001	21 - 24.5		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD62	4-1-ADD62-30	12/27/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-09	1/15/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-15	1/15/2002	11 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-19	1/15/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-24	1/15/2002	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-29	1/16/2002	26 - 29		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD63	4-1-ADD63-34.5	1/16/2002	31 - 34.5		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-10.5	12/26/2001	7 - 10.5		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-15	12/26/2001	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-19	12/26/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-24	12/26/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-30	12/26/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD71	4-1-ADD71-36	12/26/2001	33 - 36		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD80	4-1-ADD80-9	1/9/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD80	4-1-ADD80-21	1/9/2002	13.5 - 17		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD80	4-1-ADD80-17	1/9/2002	18 - 21		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD81	4-1-ADD81-9	1/7/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD81	4-1-ADD81-17	1/7/2002	13.5 - 17		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD81	4-1-ADD81-21	1/7/2002	18 - 21		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD81	4-1-ADD81-24	1/7/2002	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD82	4-1-ADD82-9	1/9/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD82	4-1-ADD82-17	1/9/2002	13.5 - 17		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD82	4-1-ADD82-21	1/9/2002	18 - 21		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD82	4-1-ADD82-24	1/9/2002	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-10.5	1/10/2002	7 - 10.5		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-15	1/10/2002	12 - 15		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-19	1/10/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-25	1/10/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-30	1/10/2002	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-1-ADD85	4-1-ADD85-36	1/10/2002	33 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-09	10/3/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-14	10/3/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-19	10/3/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-25	10/3/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-31	10/4/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD10	4-2-ADD10-37	10/4/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--

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Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-2-ADD1	4-2-ADD1-09	12/11/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-09	10/31/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-14	10/31/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-19	10/31/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-25	10/31/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-31	10/31/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD11	4-2-ADD11-37	10/31/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD1	4-2-ADD1-19	12/11/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD12	4-2-ADD12-09	10/11/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD12	4-2-ADD12-19	10/11/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD12	4-2-ADD12-24	10/11/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD12	4-2-ADD12-31	10/11/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD12	4-2-ADD12-37	10/11/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD1	4-2-ADD1-25	12/11/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-09	10/25/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-15	10/25/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-19	10/25/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-25	10/25/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-31	10/25/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-37	10/25/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD13	4-2-ADD13-45	10/25/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD1	4-2-ADD1-37	12/11/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD1	4-2-ADD1-45	12/12/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-09	10/3/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-14	10/3/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-19	10/3/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-25	10/3/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-31	10/3/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD15	4-2-ADD15-37	10/11/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-09	1/16/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-14	1/16/2002	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-19	1/15/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-25	1/15/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-31	1/16/2002	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-37	1/16/2002	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-41	1/16/2002	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD16	4-2-ADD16-45	1/16/2002	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-10	12/11/2001	7 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-19	12/11/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-24	12/11/2001	21 - 24		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-30	12/11/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-36	12/11/2001	32 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD17	4-2-ADD17-41	12/11/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-19.5	12/7/2001	16 - 19.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-25	12/7/2001	21.5 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-31	12/7/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-37	12/7/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-41	12/7/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD18	4-2-ADD18-8.5	12/7/2001	5.5 - 8.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD19	4-2-ADD19-09	12/10/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD19	4-2-ADD19-15	12/10/2001	11 - 15		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-2-ADD19	4-2-ADD19-19	12/10/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD19	4-2-ADD19-25	12/10/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD19	4-2-ADD19-30	12/10/2001	27 - 30		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD19	4-2-ADD19-37	12/10/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-10	12/11/2001	7 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-19	12/11/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-25	12/11/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-31	12/11/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-37	12/11/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-41	12/11/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD20	4-2-ADD20-45	12/11/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD2	4-2-ADD2-08	11/1/2001	5 - 8		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-09	12/10/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-19	12/10/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-25	12/10/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-31	12/10/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-37	12/10/2001	32 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-41	12/10/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD21	4-2-ADD21-45	12/10/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD2	4-2-ADD2-29	11/2/2001	25 - 29		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-09	12/10/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-14	12/10/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-19	12/10/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-25	12/10/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-31	12/10/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD23	4-2-ADD23-37	12/10/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD2	4-2-ADD2-35	11/2/2001	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-10	12/14/2001	7 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-19	12/14/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-25	12/14/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD2	4-2-ADD2-43	11/8/2001	40 - 43		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-31	12/14/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-37	12/14/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-41.5	12/14/2001	38 - 41.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD24	4-2-ADD24-45	12/14/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD26	4-2-ADD26-10	12/18/2001	7 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD26	4-2-ADD26-19	12/18/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD26	4-2-ADD26-25	12/18/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD26	4-2-ADD26-31	12/19/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD26	4-2-ADD26-37	12/19/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD28	4-2-ADD28-10	1/3/2002	6 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD28	4-2-ADD28-25	1/3/2002	22 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD28	4-2-ADD28-30	1/3/2002	26 - 30		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD28	4-2-ADD28-36	1/3/2002	32 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-10	12/19/2001	7 - 10		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-14	1/17/2002	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-18	1/18/2002	15 - 18		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-25	12/19/2001	22 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-29	12/19/2001	26 - 29		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-37	12/19/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD29	4-2-ADD29-42	12/19/2001	39 - 42		--	X	--	--	--	--	--	--	--	--	--

TABLE 6-2 : SITE 4 GROUNDWATER SAMPLING SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	Analyses Performed										
					SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-2-ADD30	4-2-ADD30-19	1/8/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD30	4-2-ADD30-36	1/8/2002	32 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD30	4-2-ADD30-39	1/8/2002	36.5 - 39		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD30	4-2-ADD30-9	1/8/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-14	12/27/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-19A	1/18/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-25	12/27/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-30	12/27/2001	26.5 - 30		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-36	12/28/2001	32 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-39A	1/18/2002	36.5 - 39		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-45A	1/18/2002	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-15	11/6/2001	11 - 15		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD31	4-2-ADD31-9	12/27/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-19.5	11/7/2001	16 - 19.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-14A	1/8/2002	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-19	1/9/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-25	1/9/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-36	1/9/2002	32 - 36		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-39	1/10/2002	36.5 - 39		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-45	1/10/2002	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-25	11/7/2001	21.5 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-9	1/9/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD32	4-2-ADD32-9A	1/8/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-31	11/7/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-14	1/10/2002	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-19	1/10/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-25	1/11/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-31	1/11/2002	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-37	1/11/2002	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-37	11/7/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD33	4-2-ADD33-9	1/10/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-41	11/7/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-19	1/10/2002	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-25	1/10/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-31	1/10/2002	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-37	1/10/2002	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-41	1/10/2002	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-45	1/10/2002	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD34	4-2-ADD34-9	1/10/2002	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD35	4-2-ADD35-14	1/11/2002	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD35	4-2-ADD35-25	1/11/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD35	4-2-ADD35-31	1/11/2002	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD35	4-2-ADD35-37	1/11/2002	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD35	4-2-ADD35-41	1/11/2002	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-12	1/10/2002	9 - 12		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-17	1/10/2002	14 - 17		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-23	1/10/2002	19 - 23		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-29	1/10/2002	25 - 29		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-35	1/10/2002	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD36	4-2-ADD36-8	1/10/2002	5 - 8		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD37	4-2-ADD37-15	1/7/2002	11 - 15		--	X	--	--	--	--	--	--	--	--	--

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					Analyses Performed										
Sample Location	Sample Identification	Date Sampled	Sample Depth (ft bgs)	Screening Depth	SVOCs	VOCs	Pesticides	Total Metals	Dissolved Metals	PAHs	General Chemistry	TPH	Dissolved Gases	Hexavalent Chromium	Cyanide
4-2-ADD37	4-2-ADD37-25	1/7/2002	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD37	4-2-ADD37-35	1/7/2002	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD37	4-2-ADD37-45	1/7/2002	41 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD3	4-2-ADD3-8.5	11/6/2001	5.5 - 8.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-17.5	11/6/2001	14.5 - 17.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-23.5	11/6/2001	19.5 - 23.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-29.5	11/6/2001	25.5 - 29.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-39.5	11/6/2001	36.5 - 39.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-43.5	11/6/2001	40.5 - 43.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD4	4-2-ADD4-7.5	11/5/2001	4.5 - 7.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD5	4-2-ADD5-08	1/14/2002	5 - 8		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD5	4-2-ADD5-17	1/14/2002	14 - 17		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD5	4-2-ADD5-23	1/14/2002	19 - 23		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD5	4-2-ADD5-29	1/14/2002	25 - 29		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD5	4-2-ADD5-35	1/14/2002	31 - 35		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-09	10/3/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-19	10/3/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-25	10/3/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-31	10/3/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-37	10/11/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD6	4-2-ADD6-41	12/7/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-09	11/1/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-14	10/24/2001	11 - 14		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-17.5	10/24/2001	16 - 17.5		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-19	11/1/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-25	11/1/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-31	11/1/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-37	11/1/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-41	11/1/2001	38 - 41		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-45	11/8/2001	42 - 45		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD7	4-2-ADD7-47	11/8/2001	46 - 47		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD9	4-2-ADD9-09	10/15/2001	6 - 9		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD9	4-2-ADD9-19	10/15/2001	16 - 19		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD9	4-2-ADD9-25	10/15/2001	21 - 25		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD9	4-2-ADD9-31	10/15/2001	27 - 31		--	X	--	--	--	--	--	--	--	--	--
4-2-ADD9	4-2-ADD9-37	10/15/2001	33 - 37		--	X	--	--	--	--	--	--	--	--	--

Notes:

--	Mot analyzed	PAH	Polynuclear aromatic hydrocarbon
bgs	Below ground surface	PCB	Polychlorinated hydrocarbon
ft	Foot	SVOC	Semivolatile organic compound
General chemistry	Any combination of the following: percent moisture, pH, reactivity and/or TOC.	TPH	Total petroleum hydrocarbon
o-Pest	Organic pesticide	VOC	Volatile organic compound
O & G	Oil and Grease	CMPL	Complete

TABLE 6-3: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	43	7	16	35	2J	170	5	15	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	40	0	0	--	--	--	5	15	0	0	410
1,1,2-TRICHLOROETHANE	40	0	0	--	--	--	5	15	0	0	730
1,1-DICHLOROETHANE	44	4	9	13	4J	31	5	15	0	0	2,800
1,1-DICHLOROETHENE	43	3	7	23	10	46	5	15	0	0	120,000
1,2-DICHLOROBENZENE	33	1	3	2	2J	2 J	5	45	0	0	370,000
1,2-DICHLOROETHANE	39	0	0	--	--	--	5	30	0	0	280
1,2-DICHLOROETHENE (TOTAL)	43	4	9	9	2J	16	5	9	0	0	43,000
1,2-DICHLOROPROPANE	40	0	0	--	--	--	5	15	0	0	340
1,3-DICHLOROBENZENE	33	0	0	--	--	--	5	15	0	0	16,000
1,4-DICHLOROBENZENE	33	1	3	9	9J	9 J	5	9	0	0	3,400
2-BUTANONE	43	0	0	--	--	--	7	30	--	--	NA
2-CHLOROETHYLVINYLETHER	30	0	0	--	--	--	10	30	--	--	NA
2-HEXANONE	40	0	0	--	--	--	10	30	--	--	NA
4-METHYL-2-PENTANONE	40	0	0	--	--	--	5.4	30	--	--	NA
ACETONE	43	3	7	35	5	92	11	34	0	0	1,600,000
BENZENE	40	0	0	--	--	--	5	15	0	0	600
BROMODICHLOROMETHANE	40	0	0	--	--	--	5	15	0	0	820
BROMOFORM	40	0	0	--	--	--	5	15	0	0	62,000
BROMOMETHANE	40	0	0	--	--	--	10	30	0	0	3,900
CARBON DISULFIDE	40	0	0	--	--	--	5	15	0	0	360,000
CARBON TETRACHLORIDE	40	0	0	--	--	--	5	15	0	0	250
CHLOROBENZENE	43	2	5	4	2J	6	5	15	0	0	150,000
CHLOROETHANE	40	0	0	--	--	--	10	30	0	0	3,000
CHLOROFORM	40	0	0	--	--	--	5	15	0	0	940
CHLOROMETHANE	40	0	0	--	--	--	10	30	0	0	1,200
CIS-1,3-DICHLOROPROPENE	40	0	0	--	--	--	5	15	0	0	780
DIBROMOCHLOROMETHANE	40	0	0	--	--	--	5	15	0	0	1,100
ETHYLBENZENE	40	0	0	--	--	--	5	15	0	0	8,900
METHYLENE CHLORIDE	43	4	9	22	5	71	5	38	0	0	9,100
STYRENE	43	1	2	1	1J	1 J	5	15	0	0	1,700,000

TABLE 6-3: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	40	0	0	--	--	--	5	15	0	0	1,500
TOLUENE	44	33	75	31	3J	190	5.6	30	0	0	520,000
TRANS-1,3-DICHLOROPROPENE	40	0	0	--	--	--	5	15	0	0	780
TRICHLOROETHENE	43	7	16	14	1J	43	5	**340**	0	1	53
TRICHLOROFLUOROMETHANE	30	0	0	--	--	--	5	15	0	0	390,000
VINYL ACETATE	40	0	0	--	--	--	10	30	0	0	430,000
VINYL CHLORIDE	43	0	0	--	--	--	10	30	0	0	79
XYLENE (TOTAL)	40	0	0	--	--	--	5	15	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	55	0	0	--	--	--	340	3,800	0	0	650,000
1,2-DICHLOROBENZENE	54	1	2	56	56J	56 J	340	3,800	0	0	370,000
1,2-DIPHENYLHYDRAZINE	43	0	0	--	--	--	340	**1,800**	0	2	610
1,3-DICHLOROBENZENE	54	0	0	--	--	--	340	3,800	0	0	16,000
1,4-DICHLOROBENZENE	54	0	0	--	--	--	340	**3,800**	0	1	3,400
2,4,5-TRICHLOROPHENOL	55	0	0	--	--	--	1,700	19,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	55	0	0	--	--	--	340	3,800	0	0	6,900
2,4-DICHLOROPHENOL	55	0	0	--	--	--	340	3,800	0	0	180,000
2,4-DIMETHYLPHENOL	55	0	0	--	--	--	340	3,800	0	0	1,200,000
2,4-DINITROPHENOL	55	0	0	--	--	--	1,700	19,000	0	0	120,000
2,4-DINITROTOLUENE	55	0	0	--	--	--	340	3,800	0	0	120,000
2,6-DINITROTOLUENE	56	0	0	--	--	--	340	3,800	0	0	61,000
2-CHLORONAPHTHALENE	55	0	0	--	--	--	340	3,800	--	--	NA
2-CHLOROPHENOL	55	0	0	--	--	--	340	3,800	0	0	63,000
2-METHYLPHENOL	55	0	0	--	--	--	340	3,800	--	--	NA
2-NITROANILINE	55	0	0	--	--	--	1,700	**19,000**	0	47	1,700
2-NITROPHENOL	55	0	0	--	--	--	340	3,800	--	--	NA
3,3'-DICHLOROBENZIDINE	55	0	0	--	--	--	690	**7,700**	0	6	1,100
3-NITROANILINE	55	0	0	--	--	--	1,700	19,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	55	0	0	--	--	--	1,700	19,000	--	--	NA
4-BROMOPHENYL-PHENYLETHER	55	0	0	--	--	--	340	3,800	--	--	NA

TABLE 6-3: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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-CHLORO-3-METHYLPHENOL	55	0	0	--	--	--	340	3,800	--	--	NA
4-CHLOROANILINE	55	0	0	--	--	--	340	3,800	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	55	0	0	--	--	--	340	3,800	--	--	NA
4-METHYLPHENOL	55	0	0	--	--	--	340	3,800	0	0	310,000
4-NITROANILINE	55	0	0	--	--	--	1,700	19,000	--	--	NA
4-NITROPHENOL	55	0	0	--	--	--	1,700	19,000	--	--	NA
BENZOIC ACID	55	0	0	--	--	--	1,700	19,000	0	0	100,000,000
BENZYL ALCOHOL	55	0	0	--	--	--	340	3,800	0	0	18,000,000
BIS(2-CHLOROETHOXY)METHANE	55	0	0	--	--	--	340	3,800	--	--	NA
BIS(2-CHLOROETHYL)ETHER	55	0	0	--	--	--	**340**	**3,800**	0	55	210
BIS(2-ETHYLHEXYL)PHTHALATE	55	0	0	--	--	--	35	3,800	0	0	35,000
BUTYLBENZYLPHTHALATE	55	0	0	--	--	--	340	3,800	0	0	12,000,000
DI-N-BUTYLPHTHALATE	55	0	0	--	--	--	340	3,800	--	--	NA
DI-N-OCTYLPHTHALATE	55	0	0	--	--	--	340	3,800	--	--	NA
DIBENZOFURAN	55	0	0	--	--	--	340	3,800	0	0	290,000
DIETHYLPHTHALATE	55	0	0	--	--	--	340	3,800	0	0	49,000,000
DIMETHYLPHTHALATE	55	0	0	--	--	--	340	3,800	0	0	100,000,000
HEXACHLOROBENZENE	55	0	0	--	--	--	**340**	**3,800**	0	55	300
HEXACHLOROBUTADIENE	55	0	0	--	--	--	340	3,800	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	55	0	0	--	--	--	340	3,800	0	0	370,000
HEXACHLOROETHANE	55	0	0	--	--	--	340	3,800	0	0	35,000
ISOPHORONE	55	0	0	--	--	--	340	3,800	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	55	0	0	--	--	--	**340**	**3,800**	0	55	69
N-NITROSODIPHENYLAMINE	55	0	0	--	--	--	340	3,800	0	0	99,000
NITROBENZENE	55	0	0	--	--	--	340	3,800	0	0	20,000
PENTACHLOROPHENOL	55	0	0	--	--	--	1,700	**19,000**	0	6	3,000
PHENOL	56	0	0	--	--	--	340	3,800	0	0	37,000,000
Metals (mg/kg)											
ALUMINUM	55	55	100	7,970	1,080	16,200	0	0	0	0	76,000
ANTIMONY	56	0	0	--	--	--	2.1	7.8	0	0	31.0

TABLE 6-3: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
ARSENIC	55	16	29	**6.9**	**3**	**17**	**2.5**	**13**	16	39	0.39
BARIUM	55	54	98	67.6	25	173	24	24	0	0	5,400
BERYLLIUM	56	22	39	0.33	0.2	0.5	0.2	1.3	0	0	150
CADMIUM	56	13	23	0.33	0.2	0.7	0.2	1.3	0	0	37.0
CALCIUM	55	55	100	2,900	980	25,000	0	0	--	--	NA
CHROMIUM	55	55	100	43.1	19.8	**222**	0	0	1	0	210
COBALT	56	43	77	6.9	3.3	17.7	5.2	6.5	0	0	900
COPPER	56	55	98	15.4	4.4	55.8	5.5	5.5	0	0	3,100
CYANIDE	45	2	4	0.89	0.67	1.11	0.52	1.3	--	--	NA
IRON	55	55	100	12,000	103	19,000	0	0	0	0	23,000
LEAD	56	18	32	94.6	6.5	**1,460**	5.2	7	1	0	150
MAGNESIUM	55	55	100	2,890	1,420	4,415	0	0	--	--	NA
MANGANESE	55	55	100	161	72	361	0	0	0	0	1,800
MOLYBDENUM	56	0	0	--	--	--	1	6.5	0	0	390
NICKEL	55	55	100	37.8	16	64.8	0	0	0	0	1,600
POTASSIUM	55	51	93	841	523	1,200	550	610	--	--	NA
SELENIUM	55	0	0	--	--	--	4.4	13	0	0	390
SILVER	56	1	2	0.70	0.7	0.7	0.6	6.5	0	0	390
SODIUM	55	32	58	537	150	1,440	520	640	--	--	NA
THALLIUM	55	1	2	3.1	3.1	3.1	2.7	**13**	0	25	5.2
TITANIUM	55	55	100	428	197	729	0	0	--	--	NA
VANADIUM	55	55	100	25.0	13	38	0	0	0	0	550
ZINC	55	55	100	32.4	14	118	0	0	0	0	23,000

TABLE 6-3: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	4	1	25	920	920	920	5	250	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	4	0	0	--	--	--	**5**	**250**	0	4	0.06	1
1,1,2-TRICHLOROETHANE	4	0	0	--	--	--	**5**	**250**	0	4	0.2	5
1,1-DICHLOROETHANE	4	1	25	**230**	**230**	**230**	**5**	**250**	1	3	2	5
1,1-DICHLOROETHENE	4	1	25	320	320	320	5	250	0	0	340	6
1,2-DICHLOROETHANE	4	0	0	--	--	--	**5**	**250**	0	4	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	4	1	25	**680**	**680**	**680**	5	**250**	1	2	61	NA
1,2-DICHLOROPROPANE	4	0	0	--	--	--	**5**	**250**	0	4	0.2	5
2-BUTANONE	4	0	0	--	--	--	10	500	--	--	NA	NA
2-HEXANONE	4	0	0	--	--	--	10	500	--	--	NA	NA
4-METHYL-2-PENTANONE	4	0	0	--	--	--	10	500	--	--	NA	NA
ACETONE	4	0	0	--	--	--	10	500	0	0	610	NA
BENZENE	4	0	0	--	--	--	**5**	**250**	0	4	0.3	1
BROMODICHLOROMETHANE	4	0	0	--	--	--	**5**	**250**	0	4	0.2	80
BROMOFORM	4	0	0	--	--	--	5	**250**	0	3	9	80
BROMOMETHANE	4	0	0	--	--	--	**10**	**500**	0	4	9	NA
CARBON DISULFIDE	4	0	0	--	--	--	5	250	0	0	1,000	NA
CARBON TETRACHLORIDE	4	0	0	--	--	--	**5**	**250**	0	4	0.2	0.5
CHLOROBENZENE	4	0	0	--	--	--	5	**250**	0	1	110	70
CHLOROETHANE	4	0	0	--	--	--	**10**	**500**	0	4	5	NA
CHLOROFORM	4	0	0	--	--	--	**5**	**250**	0	4	0.5	80
CHLOROMETHANE	4	0	0	--	--	--	**10**	**500**	0	4	2	NA
CIS-1,3-DICHLOROPROPENE	4	0	0	--	--	--	**5**	**250**	0	4	0.4	0.5
DIBROMOCHLOROMETHANE	4	0	0	--	--	--	**5**	**250**	0	4	0.1	80
ETHYLBENZENE	4	0	0	--	--	--	**5**	**250**	0	4	3	300
METHYLENE CHLORIDE	4	0	0	--	--	--	**15**	**1,300**	0	4	4	NA
STYRENE	4	0	0	--	--	--	5	250	0	0	1,600	100
TETRACHLOROETHENE	4	0	0	--	--	--	**5**	**250**	0	4	0.7	5
TOLUENE	4	0	0	--	--	--	5	250	0	0	720	150
TRANS-1,3-DICHLOROPROPENE	4	0	0	--	--	--	**5**	**250**	0	4	0.4	0.5
TRICHLOROETHENE	4	3	75	**2,400**	**120**	**4,900**	**5**	**5**	3	1	0.03	5

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
VINYL ACETATE	4	0	0	--	--	--	5	250	0	0	410	NA
VINYL CHLORIDE	4	1	25	**140**	**140**	**140**	**10**	**500**	1	3	0.02	0.5
XYLENE (TOTAL)	4	0	0	--	--	--	5	**250**	0	1	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	2	50	86	51	120	10	10	0	0	370	600
1,2-DIPHENYLHYDRAZINE	1	0	0	--	--	--	10	10	--	--	NA	NA
1,3-DICHLOROBENZENE	4	0	0	--	--	--	**10**	**10**	0	4	6	NA
1,4-DICHLOROBENZENE	4	2	50	**18**	**15**	**21**	**10**	**10**	2	2	0.5	5
2,4,5-TRICHLOROPHENOL	4	0	0	--	--	--	10	50	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	4	0	0	--	--	--	**10**	**10**	0	4	1	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	--	--	--	10	50	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	--	--	--	**50**	**50**	0	4	1	NA
2-NITROPHENOL	4	0	0	--	--	--	10	10	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	4	0	0	--	--	--	**20**	**20**	0	4	0.2	NA
3-NITROANILINE	4	0	0	--	--	--	50	50	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	4	0	0	--	--	--	10	50	--	--	NA	NA
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

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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-NITROANILINE	4	0	0	--	--	--	50	50	--	--	NA	NA
4-NITROPHENOL	4	0	0	--	--	--	10	50	--	--	NA	NA
ACENAPHTHENE	4	0	0	--	--	--	10	10	0	0	370	NA
ACENAPHTHYLENE	4	0	0	--	--	--	10	10	--	--	NA	NA
ANILINE	1	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	NA
BENZOIC ACID	4	0	0	--	--	--	50	50	0	0	150,000	NA
BENZYL ALCOHOL	4	0	0	--	--	--	10	10	0	0	11,000	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	1	25	4	4J	4J	**10**	**10**	0	3	5	NA
BUTYLBENZYLPHTHALATE	4	0	0	--	--	--	10	10	0	0	7,300	NA
CHRYSENE	4	0	0	--	--	--	**10**	**10**	0	4	0.6	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
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

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
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-NITROSODIMETHYLAMINE	1	0	0	--	--	--	10	10	--	--	NA	NA
N-NITROSODIPHENYLAMINE	4	1	25	3	3J	3J	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	--	--	--	**50**	**50**	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	4	4	100	145,000	2,300	**397,000**	0	0	2	0	36,000	NA
ANTIMONY	4	0	0	--	--	--	**60**	**60**	0	4	15.0	6.0
ARSENIC	4	2	50	**145**	**120**	**170**	**50**	**50**	2	2	0.045	10.0
BARIUM	4	3	75	1,040	430	1,600	200	200	0	0	2,600	1,000
BERYLLIUM	4	1	25	8.0	8	8	5	5	0	0	73.0	4.0
CADMIUM	4	0	0	--	--	--	5	5	0	0	18.0	5.0
CALCIUM	1	1	100	55,000	55,000	55,000	0	0	--	--	NA	NA
CHROMIUM	4	3	75	524	32	1,100	10	10	0	0	55,000	50.0
COBALT	4	2	50	139	88	190	50	50	0	0	730	NA
COPPER	1	1	100	280	280	280	0	0	0	0	1,500	1,300
CYANIDE	2	0	0	--	--	--	10	10	0	0	730	150
IRON	1	1	100	461,000	**461,000**	**461,000**	0	0	1	0	11,000	NA
LEAD	4	2	50	86.0	82	90	50	50	--	--	NA	15.0
MAGNESIUM	1	1	100	119,000	119,000	119,000	0	0	--	--	NA	NA
MANGANESE	1	1	100	5,400	**5,400**	**5,400**	0	0	1	0	880	NA
MOLYBDENUM	4	0	0	--	--	--	50	50	0	0	180	NA
NICKEL	4	3	75	1,060	67	**1,700**	40	40	2	0	730	100
POTASSIUM	4	2	50	23,500	18,000	29,000	5,000	5,000	--	--	NA	NA
SELENIUM	4	1	25	110	110	110	50	50	0	0	180	50.0

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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												
SILVER	4	1	25	11.0	11	11	10	10	0	0	180	NA
SODIUM	1	1	100	199,000	199,000	199,000	0	0	--	--	NA	NA
THALLIUM	4	0	0	--	--	--	**50**	**250**	0	4	2.4	2.0
TITANIUM	4	3	75	4,420	370	8,600	50	50	--	--	NA	NA
TOTAL CYANIDE	2	0	0	--	--	--	10	10	--	--	NA	NA
VANADIUM	4	3	75	***408***	55	**800**	50	50	2	0	260	NA
ZINC	1	1	100	790	790	790	0	0	0	0	11,000	NA

TABLE 6-4: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 1 and 2A Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/L	Micrograms per liter

TABLE 6-5: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
1,2,4-TRICHLOROBENZENE	19	0	0	--	--	--	110	570	0	0	650,000
1,2-DICHLOROBENZENE	19	0	0	--	--	--	86	460	0	0	370,000
1,3-DICHLOROBENZENE	19	0	0	--	--	--	86	460	0	0	16,000
1,4-DICHLOROBENZENE	19	0	0	--	--	--	86	460	0	0	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	19	0	0	--	--	--	86	460	--	--	NA
2,4,5-TRICHLOROPHENOL	19	0	0	--	--	--	320	1,700	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	19	0	0	--	--	--	320	1,700	0	0	6,900
2,4-DICHLOROPHENOL	19	0	0	--	--	--	150	800	0	0	180,000
2,4-DIMETHYLPHENOL	19	0	0	--	--	--	540	2,900	0	0	1,200,000
2,4-DINITROPHENOL	19	0	0	--	--	--	1,500	8,000	0	0	120,000
2,4-DINITROTOLUENE	19	0	0	--	--	--	150	800	0	0	120,000
2,6-DINITROTOLUENE	19	0	0	--	--	--	150	800	0	0	61,000
2-CHLORONAPHTHALENE	19	0	0	--	--	--	86	460	--	--	NA
2-CHLOROPHENOL	19	0	0	--	--	--	150	800	0	0	63,000
2-METHYLPHENOL	19	0	0	--	--	--	150	800	--	--	NA
2-NITROANILINE	19	0	0	--	--	--	170	920	0	0	1,700
2-NITROPHENOL	19	0	0	--	--	--	150	800	--	--	NA
3,3'-DICHLOROBENZIDINE	19	0	0	--	--	--	540	**2,900**	0	11	1,100
3-NITROANILINE	19	0	0	--	--	--	320	1,700	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	19	0	0	--	--	--	1,100	5,700	--	--	NA
4-BROMOPHENYL-PHENYLETHER	19	0	0	--	--	--	150	800	--	--	NA
4-CHLORO-3-METHYLPHENOL	19	0	0	--	--	--	150	800	--	--	NA
4-CHLOROANILINE	19	0	0	--	--	--	320	1,700	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	19	0	0	--	--	--	110	570	--	--	NA
4-METHYLPHENOL	19	0	0	--	--	--	150	800	0	0	310,000
4-NITROANILINE	19	0	0	--	--	--	170	920	--	--	NA
4-NITROPHENOL	19	0	0	--	--	--	540	2,900	--	--	NA
BENZOIC ACID	19	0	0	--	--	--	910	4,800	0	0	100,000,000
BENZYL ALCOHOL	19	0	0	--	--	--	150	800	0	0	18,000,000
BIS(2-CHLOROETHOXY)METHANE	19	0	0	--	--	--	86	460	--	--	NA
BIS(2-CHLOROETHYL)ETHER	19	0	0	--	--	--	86	**460**	0	11	210

TABLE 6-5: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
BIS(2-ETHYLHEXYL)PHTHALATE	19	1	5	690	690 J	690 J	110	570	0	0	35,000
BUTYLBENZYLPHTHALATE	19	0	0	--	--	--	110	570	0	0	12,000,000
DI-N-BUTYLPHTHALATE	19	0	0	--	--	--	86	460	--	--	NA
DI-N-OCTYLPHTHALATE	19	0	0	--	--	--	150	800	--	--	NA
DIBENZOFURAN	19	0	0	--	--	--	130	690	0	0	290,000
DIETHYLPHTHALATE	19	0	0	--	--	--	86	460	0	0	49,000,000
DIMETHYLPHTHALATE	19	0	0	--	--	--	86	460	0	0	100,000,000
HEXACHLOROBENZENE	19	0	0	--	--	--	110	**570**	0	11	300
HEXACHLOROBUTADIENE	19	0	0	--	--	--	150	800	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	19	0	0	--	--	--	1,100	5,700	0	0	370,000
HEXACHLOROETHANE	19	0	0	--	--	--	110	570	0	0	35,000
ISOPHORONE	19	0	0	--	--	--	86	460	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	19	0	0	--	--	--	**110**	**570**	0	19	69
N-NITROSODIPHENYLAMINE	19	0	0	--	--	--	86	460	0	0	99,000
NITROBENZENE	19	0	0	--	--	--	86	460	0	0	20,000
PENTACHLOROPHENOL	19	0	0	--	--	--	540	2,900	0	0	3,000
PHENOL	19	0	0	--	--	--	150	800	0	0	37,000,000
Metals (mg/kg)											
ALUMINUM	20	20	100	4,450	3,090 J	5,670 J	0	0	0	0	76,000
ANTIMONY	20	6	30	3.2	2.6	4.6	2.3	2.8	0	0	31.0
ARSENIC	20	20	100	**1.6**	**0.942**	**2.84**	0	0	20	0	0.39
BARIUM	20	20	100	53.5	35.9	136	0	0	0	0	5,400
BERYLLIUM	20	10	50	0.30	0.165	0.424	0.122	0.146	0	0	150
CADMIUM	20	15	75	5.3	0.369	**38.1**	0.299	0.319	1	0	37.0
CALCIUM	20	20	100	5,070	1,840 J	16,100 J	0	0	--	--	NA
CHROMIUM	20	20	100	172	24 J	**1,060 J**	0	0	3	0	210
COBALT	20	20	100	6.2	4.47	10.6	0	0	0	0	900
COPPER	20	20	100	24.9	5.42	99.6	0	0	0	0	3,100
CYANIDE	20	8	40	5.6	1.05 J	18.6 J	0.51	0.543	--	--	NA
IRON	20	20	100	8,320	6,420 J	10,500 J	0	0	0	0	23,000

TABLE 6-5: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
LEAD	20	20	100	14.7	2.15J	68.5	0	0	0	0	150
MAGNESIUM	20	20	100	2,380	1,840	3,160	0	0	--	--	NA
MANGANESE	20	20	100	136	99.4J	245 J	0	0	0	0	1,800
MERCURY	20	1	5	0.11	0.111J	0.111 J	0.089	0.111	0	0	23.0
NICKEL	20	20	100	99.7	25.6	692	0	0	0	0	1,600
POTASSIUM	20	20	100	706	564	1,120	0	0	--	--	NA
SELENIUM	20	0	0	--	--	--	0.213	0.238	0	0	390
SILVER	20	20	100	7.4	0.795	70.5	0	0	0	0	390
SODIUM	20	20	100	487	231	1,530	0	0	--	--	NA
THALLIUM	20	0	0	--	--	--	0.274	0.306	0	0	5.2
VANADIUM	20	20	100	19.2	15.8	23.1	0	0	0	0	550
ZINC	20	20	100	37.0	20.5	146	0	0	0	0	23,000

TABLE 6-5: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	9	4	44	470	4.9J	1,200	1	1	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	9	0	0	--	--	--	1	5	0	9	0.06	1
1,1,2-TRICHLOROETHANE	9	0	0	--	--	--	1	5	0	9	0.2	5
1,1-DICHLOROETHANE	9	7	78	24	1.1J	65	1	1	6	0	2	5
1,1-DICHLOROETHENE	9	6	67	54	2.3J	180	1	1	0	0	340	6
1,2-DICHLOROETHANE	9	0	0	--	--	--	1	5	0	9	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	9	3	33	4	1.4J	7.7	1	5	0	0	61	NA
1,2-DICHLOROPROPANE	9	0	0	--	--	--	1	5	0	9	0.2	5
2-BUTANONE	9	0	0	--	--	--	2	10	--	--	NA	NA
2-HEXANONE	9	0	0	--	--	--	2	10	--	--	NA	NA
4-METHYL-2-PENTANONE	9	0	0	--	--	--	2	10	--	--	NA	NA
ACETONE	9	0	0	--	--	--	2	10	0	0	610	NA
BENZENE	9	0	0	--	--	--	1	5	0	9	0.3	1
BROMODICHLOROMETHANE	9	0	0	--	--	--	1	5	0	9	0.2	80
BROMOFORM	9	0	0	--	--	--	1	5	0	0	9	80
BROMOMETHANE	9	0	0	--	--	--	1	5	0	0	9	NA
CARBON DISULFIDE	9	0	0	--	--	--	1	5	0	0	1,000	NA
CARBON TETRACHLORIDE	9	0	0	--	--	--	1	5	0	9	0.2	0.5
CHLOROBENZENE	9	0	0	--	--	--	1	5	0	0	110	70
CHLOROETHANE	9	0	0	--	--	--	1	5	0	3	5	NA
CHLOROFORM	9	1	11	1	1.3J	1.3J	1	5	1	8	0.5	80
CHLOROMETHANE	9	0	0	--	--	--	1	5	0	3	2	NA
CIS-1,3-DICHLOROPROPENE	9	0	0	--	--	--	1	5	0	9	0.4	0.5
DIBROMOCHLOROMETHANE	9	0	0	--	--	--	1	5	0	9	0.1	80
ETHYLBENZENE	9	0	0	--	--	--	1	5	0	3	3	300
METHYLENE CHLORIDE	9	0	0	--	--	--	1	5	0	3	4	NA
STYRENE	9	0	0	--	--	--	1	5	0	0	1,600	100
TETRACHLOROETHENE	9	0	0	--	--	--	1	5	0	9	0.7	5
TOLUENE	9	0	0	--	--	--	1	5	0	0	720	150
TRANS-1,3-DICHLOROPROPENE	9	0	0	--	--	--	1	5	0	9	0.4	0.5
TRICHLOROETHENE	9	4	44	5	1.3J	13	1	5	4	5	0.03	5

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
VINYL ACETATE	9	0	0	--	--	--	1	5	0	0	410	NA
VINYL CHLORIDE	9	0	0	--	--	--	**1**	**5**	0	9	0.02	0.5
XYLENE (TOTAL)	9	0	0	--	--	--	1	5	0	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	9	0	0	--	--	--	1	1	0	0	190	5
1,2-DICHLOROBENZENE	9	0	0	--	--	--	1	1	0	0	370	600
1,3-DICHLOROBENZENE	9	0	0	--	--	--	1	1	0	0	6	NA
1,4-DICHLOROBENZENE	9	0	0	--	--	--	**1**	**1**	0	9	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	9	0	0	--	--	--	1	1	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	9	0	0	--	--	--	3	3	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	9	0	0	--	--	--	**4.5**	**4.5**	0	9	1	NA
2,4-DICHLOROPHENOL	9	0	0	--	--	--	2	2	0	0	110	NA
2,4-DIMETHYLPHENOL	9	0	0	--	--	--	2	2	0	0	730	NA
2,4-DINITROPHENOL	9	0	0	--	--	--	30	30	0	0	73	NA
2,4-DINITROTOLUENE	9	0	0	--	--	--	2	2	0	0	73	NA
2,6-DINITROTOLUENE	9	0	0	--	--	--	2	2	0	0	36	NA
2-CHLORONAPHTHALENE	9	0	0	--	--	--	1	1	--	--	NA	NA
2-CHLOROPHENOL	9	0	0	--	--	--	2	2	0	0	30	NA
2-METHYLNAPHTHALENE	9	0	0	--	--	--	1	1	--	--	NA	NA
2-METHYLPHENOL	9	0	0	--	--	--	2	2	0	0	1,800	NA
2-NITROANILINE	9	0	0	--	--	--	**2**	**2**	0	9	1	NA
2-NITROPHENOL	9	0	0	--	--	--	2	2	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	9	0	0	--	--	--	**5**	**5**	0	9	0.2	NA
3-NITROANILINE	9	0	0	--	--	--	1	1	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	9	0	0	--	--	--	20	20	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	9	0	0	--	--	--	1	1	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	9	0	0	--	--	--	1.5	1.5	--	--	NA	NA
4-CHLOROANILINE	9	0	0	--	--	--	2	2	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	9	0	0	--	--	--	1	1	--	--	NA	NA
4-METHYLPHENOL	9	0	0	--	--	--	2	2	0	0	180	NA

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 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-NITROANILINE	9	0	0	--	--	--	2	2	--	--	NA	NA
4-NITROPHENOL	9	0	0	--	--	--	10	10	--	--	NA	NA
ACENAPHTHENE	9	0	0	--	--	--	1	1	0	0	370	NA
ACENAPHTHYLENE	9	0	0	--	--	--	1	1	--	--	NA	NA
ANTHRACENE	9	0	0	--	--	--	1	1	0	0	1,800	NA
BENZO(A)ANTHRACENE	9	0	0	--	--	--	**1**	**1**	0	9	0.09	0.1
BENZO(A)PYRENE	9	0	0	--	--	--	**2**	**2**	0	9	0.009	0.2
BENZO(B)FLUORANTHENE	9	0	0	--	--	--	**1.5**	**1.5**	0	9	0.09	NA
BENZO(G,H,I)PERYLENE	9	0	0	--	--	--	2.5	2.5	--	--	NA	NA
BENZO(K)FLUORANTHENE	9	0	0	--	--	--	**1.5**	**1.5**	0	9	0.06	NA
BENZOIC ACID	9	0	0	--	--	--	2.5	2.5	0	0	150,000	NA
BENZYL ALCOHOL	9	0	0	--	--	--	2	2	0	0	11,000	NA
BIS(2-CHLOROETHOXY)METHANE	9	0	0	--	--	--	1	1	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	9	0	0	--	--	--	**1.5**	**1.5**	0	9	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	9	2	22	**29**	**24**	33	2	**10**	2	4	5	NA
BUTYLBENZYLPHTHALATE	9	0	0	--	--	--	1.5	1.5	0	0	7,300	NA
CHRYSENE	9	0	0	--	--	--	**2.5**	**2.5**	0	9	0.6	NA
DI-N-BUTYLPHTHALATE	9	0	0	--	--	--	1	1	--	--	NA	NA
DI-N-OCTYLPHTHALATE	9	0	0	--	--	--	2.4	2.4	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	9	0	0	--	--	--	**2.5**	**2.5**	0	9	0.009	NA
DIBENZOFURAN	9	0	0	--	--	--	1	1	0	0	24	NA
DIETHYLPHTHALATE	9	0	0	--	--	--	1	1	0	0	29,000	NA
DIMETHYLPHTHALATE	9	0	0	--	--	--	2	2	0	0	360,000	NA
FLUORANTHENE	9	1	11	2	1.8J	1.8J	1	1	0	0	1,500	NA
FLUORENE	9	0	0	--	--	--	1	1	0	0	240	NA
HEXACHLOROBENZENE	9	0	0	--	--	--	**2**	**2**	0	9	0.04	1
HEXACHLOROBUTADIENE	9	0	0	--	--	--	**2**	**2**	0	9	0.9	NA
HEXACHLOROCYCLOPENTADIENE	9	0	0	--	--	--	2	2	0	0	220	NA
HEXACHLOROETHANE	9	0	0	--	--	--	1.5	1.5	0	0	5	NA
INDENO(1,2,3-CD)PYRENE	9	0	0	--	--	--	**2.5**	**2.5**	0	9	0.09	NA
ISOPHORONE	9	0	0	--	--	--	1	1	0	0	71	NA

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 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-NITROSO-DI-N-PROPYLAMINE	9	0	0	--	--	--	**1**	**1**	0	9	0.01	NA
N-NITROSODIPHENYLAMINE	9	0	0	--	--	--	1	1	0	0	14	NA
NAPHTHALENE	9	0	0	--	--	--	1	1	0	0	6	NA
NITROBENZENE	9	0	0	--	--	--	1	1	0	0	3	NA
PENTACHLOROPHENOL	9	0	0	--	--	--	**10**	**10**	0	9	0.6	1
PHENANTHRENE	9	0	0	--	--	--	1	1	--	--	NA	NA
PHENOL	9	1	11	13	13J	13J	2	2	0	0	22,000	NA
PYRENE	9	0	0	--	--	--	1	1	0	0	180	NA
Metals (µg/L)												
Filtered												
ALUMINUM	5	5	100	2,040	40.9	9,220	0	0	0	0	36,000	NA
ANTIMONY	9	0	0	--	--	--	**25.1**	**25.1**	0	9	15.0	6.0
ARSENIC	9	6	67	**7.7**	**3.5J**	**10.7J**	**2.6**	**2.6**	6	3	0.045	10.0
BARIUM	5	5	100	76.3	16.1	272	0	0	0	0	2,600	1,000
BERYLLIUM	5	0	0	--	--	--	1.3	1.3	0	0	73.0	4.0
CADMIUM	5	2	40	**93.7**	4.3	**183**	3	3	1	0	18.0	5.0
CALCIUM	9	9	100	26,000	4,680	56,200J	0	0	--	--	NA	NA
CHROMIUM	5	4	80	240	28.5	768	5.7	5.7	0	0	55,000	50.0
COBALT	5	1	20	40.7	40.7	40.7	6.1	6.1	0	0	730	NA
COPPER	5	5	100	35.4	3.9	144	0	0	0	0	1,500	1,300
CYANIDE	9	8	89	31.4	13	66	10	10	0	0	730	150
IRON	9	9	100	4,730	30.9	**41,400**	0	0	1	0	11,000	NA
LEAD	9	3	33	11.8	2.2	30.7	2	2	--	--	NA	15.0
MAGNESIUM	9	9	100	8,190	2,370	14,800	0	0	--	--	NA	NA
MANGANESE	9	9	100	823	31.5	**2,900**	0	0	3	0	880	NA
MERCURY	9	0	0	--	--	--	0.2	0.2	0	0	11.0	2.0
NICKEL	9	5	56	64.5	20.2	192	13.2	13.2	0	0	730	100
POTASSIUM	9	9	100	12,500	7,930	18,000	0	0	--	--	NA	NA
SELENIUM	9	0	0	--	--	--	2.1	8.4	0	0	180	50.0
SILVER	5	0	0	--	--	--	4.9	4.9	0	0	180	NA
SODIUM	9	9	100	62,400	10,800J	124,000	0	0	--	--	NA	NA

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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												
THALLIUM	9	0	0	--	--	--	2.7	2.7	0	9	2.4	2.0
VANADIUM	9	9	100	31.4	4.3	156	0	0	0	0	260	NA
ZINC	9	9	100	15.9	4.1	91.6	0	0	0	0	11,000	NA

TABLE 6-6: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Phases 2B and 3 Investigation, 1991

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/L	Micrograms per liter

TABLE 6-7: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	105	4	4	5	3J	7 J	10	16	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	105	0	0	--	--	--	10	16	0	0	410
1,1,2-TRICHLOROETHANE	105	0	0	--	--	--	10	16	0	0	730
1,1-DICHLOROETHANE	105	0	0	--	--	--	10	16	0	0	2,800
1,1-DICHLOROETHENE	105	3	3	2	1J	4 J	10	16	0	0	120,000
1,2-DICHLOROETHANE	105	0	0	--	--	--	10	16	0	0	280
1,2-DICHLOROETHENE (TOTAL)	105	1	1	1	1J	1 J	10	16	0	0	43,000
1,2-DICHLOROPROPANE	105	0	0	--	--	--	10	16	0	0	340
2-BUTANONE	105	0	0	--	--	--	6	75	--	--	NA
2-HEXANONE	105	0	0	--	--	--	10	16	--	--	NA
4-METHYL-2-PENTANONE	105	0	0	--	--	--	10	16	--	--	NA
ACETONE	105	0	0	--	--	--	10	150	0	0	1,600,000
BENZENE	105	2	2	2	1J	3 J	10	16	0	0	600
BROMODICHLOROMETHANE	105	0	0	--	--	--	10	16	0	0	820
BROMOFORM	105	0	0	--	--	--	10	16	0	0	62,000
BROMOMETHANE	105	0	0	--	--	--	10	16	0	0	3,900
CARBON DISULFIDE	105	8	8	2	0.6J	5 J	10	15	0	0	360,000
CARBON TETRACHLORIDE	105	0	0	--	--	--	10	16	0	0	250
CHLOROBENZENE	105	0	0	--	--	--	10	16	0	0	150,000
CHLOROETHANE	105	0	0	--	--	--	10	16	0	0	3,000
CHLOROFORM	105	1	1	2	2J	2 J	10	16	0	0	940
CHLOROMETHANE	105	0	0	--	--	--	10	16	0	0	1,200
CIS-1,3-DICHLOROPROPENE	105	0	0	--	--	--	10	16	0	0	780
DIBROMOCHLOROMETHANE	105	0	0	--	--	--	10	16	0	0	1,100
ETHYLBENZENE	105	32	30	6	0.7J	28	10	16	0	0	8,900
ETHYLENE DIBROMIDE	9	0	0	--	--	--	11	13	--	--	NA
METHYLENE CHLORIDE	105	0	0	--	--	--	10	23	0	0	9,100
STYRENE	105	0	0	--	--	--	10	16	0	0	1,700,000
TETRACHLOROETHENE	105	1	1	2	2J	2 J	10	16	0	0	1,500
TOLUENE	105	11	10	3	1J	5 J	10	16	0	0	520,000
TRANS-1,3-DICHLOROPROPENE	105	0	0	--	--	--	10	16	0	0	780

TABLE 6-7: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	105	3	3	**61**	47	77	10	16	2	0	53
VINYL CHLORIDE	105	0	0	--	--	--	10	16	0	0	79
XYLENE (TOTAL)	105	39	37	28	1 J	170	10	16	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	71	0	0	--	--	--	340	3,600	0	0	650,000
1,2-DICHLOROBENZENE	71	0	0	--	--	--	340	3,600	0	0	370,000
1,3-DICHLOROBENZENE	71	0	0	--	--	--	340	3,600	0	0	16,000
1,4-DICHLOROBENZENE	71	0	0	--	--	--	340	**3,600**	0	9	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	71	0	0	--	--	--	340	3,600	--	--	NA
2,4,5-TRICHLOROPHENOL	71	0	0	--	--	--	820	8,800	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	71	0	0	--	--	--	340	3,600	0	0	6,900
2,4-DICHLOROPHENOL	71	0	0	--	--	--	340	3,600	0	0	180,000
2,4-DIMETHYLPHENOL	71	0	0	--	--	--	340	3,600	0	0	1,200,000
2,4-DINITROPHENOL	71	0	0	--	--	--	820	8,800	0	0	120,000
2,4-DINITROTOLUENE	71	0	0	--	--	--	340	3,600	0	0	120,000
2,6-DINITROTOLUENE	71	0	0	--	--	--	340	3,600	0	0	61,000
2-CHLORONAPHTHALENE	71	0	0	--	--	--	340	3,600	--	--	NA
2-CHLOROPHENOL	71	0	0	--	--	--	340	3,600	0	0	63,000
2-METHYLPHENOL	71	0	0	--	--	--	340	3,600	--	--	NA
2-NITROANILINE	71	0	0	--	--	--	820	**8,800**	0	26	1,700
2-NITROPHENOL	71	0	0	--	--	--	340	3,600	--	--	NA
3,3'-DICHLOROBENZIDINE	71	0	0	--	--	--	340	**3,600**	0	23	1,100
3-NITROANILINE	71	0	0	--	--	--	820	8,800	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	71	0	0	--	--	--	820	8,800	--	--	NA
4-BROMOPHENYL-PHENYLETHER	71	0	0	--	--	--	340	3,600	--	--	NA
4-CHLORO-3-METHYLPHENOL	71	0	0	--	--	--	340	3,600	--	--	NA
4-CHLOROANILINE	71	0	0	--	--	--	340	3,600	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	71	0	0	--	--	--	340	3,600	--	--	NA
4-METHYLPHENOL	71	0	0	--	--	--	340	3,600	0	0	310,000
4-NITROANILINE	71	0	0	--	--	--	820	8,800	--	--	NA

TABLE 6-7: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

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	Residential PRG
Semivolatile Organic Compounds (µg/kg)											
4-NITROPHENOL	71	0	0	--	--	--	820	8,800	--	--	NA
BIS(2-CHLOROETHOXY)METHANE	71	0	0	--	--	--	340	3,600	--	--	NA
BIS(2-CHLOROETHYL)ETHER	71	0	0	--	--	--	**340**	**3,600**	0	71	210
BIS(2-ETHYLHEXYL)PHTHALATE	71	1	1	7,600	7,600	7,600	250	9,100	0	0	35,000
BUTYLBENZYLPHTHALATE	71	0	0	--	--	--	340	3,600	0	0	12,000,000
CARBAZOLE	71	0	0	--	--	--	340	3,600	0	0	24,000
DI-N-BUTYLPHTHALATE	71	0	0	--	--	--	340	3,600	--	--	NA
DI-N-OCTYLPHTHALATE	71	0	0	--	--	--	340	3,600	--	--	NA
DIBENZOFURAN	71	0	0	--	--	--	340	3,600	0	0	290,000
DIETHYLPHTHALATE	71	0	0	--	--	--	340	3,600	0	0	49,000,000
DIMETHYLPHTHALATE	71	0	0	--	--	--	340	3,600	0	0	100,000,000
HEXACHLOROBENZENE	71	0	0	--	--	--	**340**	**3,600**	0	71	300
HEXACHLOROBUTADIENE	71	0	0	--	--	--	340	3,600	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	71	0	0	--	--	--	340	3,600	0	0	370,000
HEXACHLOROETHANE	71	0	0	--	--	--	340	3,600	0	0	35,000
ISOPHORONE	71	0	0	--	--	--	340	3,600	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	71	2	3	**120**	64J	**180 J**	**340**	**3,600**	1	69	69
N-NITROSODIPHENYLAMINE	71	4	6	160	73J	320 J	340	3,600	0	0	99,000
NITROBENZENE	71	0	0	--	--	--	340	3,600	0	0	20,000
PENTACHLOROPHENOL	71	1	1	130	130J	130 J	820	**8,800**	0	23	3,000
PHENOL	71	1	1	74	74J	74 J	340	3,600	0	0	37,000,000
Total Petroleum Hydrocarbons (mg/kg)											
BENZENE	59	0	0	--	--	--	0.005	0.008	0	0	0.6
DIESEL RANGE ORGANICS	86	2	2	34	10J	57	1	55	--	--	NA
ETHYLBENZENE	59	7	12	0.02	0.006	0.028	0.005	0.008	0	0	9
GASOLINE RANGE ORGANICS	86	1	1	1	1.3J	1.3 J	0.52	1.7	--	--	NA
JP5 RANGE ORGANICS	86	0	0	--	--	--	1	55	--	--	NA
KEROSENE RANGE ORGANICS	59	0	0	--	--	--	1	13	--	--	NA
MOTOR OIL RANGE ORGANICS	86	59	69	610	30J	3,610 J	10	30	--	--	NA
OTHER HEAVY TPH COMPONENTS	56	0	0	--	--	--	1	13	--	--	NA

TABLE 6-7: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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
Total Petroleum Hydrocarbons (mg/kg)											
OTHER LIGHT TPH COMPONENTS	59	0	0	--	--	--	1	1.7	--	--	NA
OTHER TPH COMPONENTS, TOTAL	3	0	0	--	--	--	1.1	4.2	--	--	NA
TOLUENE	59	0	0	--	--	--	0.005	0.008	0	0	520
XYLENE (TOTAL)	59	21	36	0.04	0.006	0.19	0.005	0.008	0	0	270
Metals (mg/kg)											
ALUMINUM	45	45	100	6,370	3,410	12,100 J	0	0	0	0	76,000
ANTIMONY	42	9	21	15.5	0.46J	**134 J**	0.42	5.4	1	0	31.0
ARSENIC	45	34	76	**3.6**	**1J**	**24.8 J**	**0.65**	**3.7**	34	11	0.39
BARIUM	45	45	100	64.4	23J	449	0	0	0	0	5,400
BERYLLIUM	45	18	40	0.67	0.3J	1.5	0.08	0.29	0	0	150
CADMIUM	45	19	42	6.5	0.1J	**105 J**	0.06	0.62	1	0	37.0
CALCIUM	45	45	100	6,300	1,250	93,200	0	0	--	--	NA
CHROMIUM	45	44	98	79.7	15.5J	**1,530**	4.6	4.6	1	0	210
COBALT	45	37	82	5.6	1.9J	26.3	4.9	7.6	0	0	900
COPPER	45	45	100	23.5	4.3	326	0	0	0	0	3,100
CYANIDE	68	4	6	2.5	0.31J	7.6	0.22	2.3	--	--	NA
IRON	45	45	100	10,300	6,630	**23,200**	0	0	1	0	23,000
LEAD	45	41	91	29.0	1.6	**371 J**	1.3	3	2	0	150
MAGNESIUM	45	45	100	2,860	1,240	8,570	0	0	--	--	NA
MANGANESE	45	45	100	161	86.3	864	0	0	0	0	1,800
MERCURY	45	21	47	0.15	0.05	0.53	0.05	0.2	0	0	23.0
MOLYBDENUM	45	6	13	1.3	0.72J	3.1 J	0.44	3.5	0	0	390
NICKEL	45	45	100	64.5	17.5	1,400	0	0	0	0	1,600
POTASSIUM	45	37	82	847	386J	1,540	463	864	--	--	NA
SELENIUM	45	8	18	1.8	0.44J	9.6 J	0.42	0.8	0	0	390
SILVER	45	9	20	16.0	0.68	81.1 J	0.18	2.4	0	0	390
SODIUM	45	45	100	304	80.3J	1,200 J	0	0	--	--	NA
THALLIUM	32	0	0	--	--	--	0.4	0.62	0	0	5.2
VANADIUM	45	45	100	25.2	15.1	40.4	0	0	0	0	550
ZINC	45	45	100	40.3	13.6	283	0	0	0	0	23,000

TABLE 6-7: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	64	12	19	28	2	100	1	500	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	64	0	0	--	--	--	1	500	0	64	0.06	1
1,1,2-TRICHLOROETHANE	64	0	0	--	--	--	1	500	0	64	0.2	5
1,1-DICHLOROETHANE	64	15	23	33	0.6J	110	1	500	12	9	2	5
1,1-DICHLOROETHENE	64	22	34	60	0.1J	360	1	500	1	1	340	6
1,2-DICHLOROETHANE	64	2	3	4	2	6	0.5	120	2	62	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	64	24	38	260	0.1J	1,900J	1	100	5	1	61	NA
1,2-DICHLOROPROPANE	64	0	0	--	--	--	1	500	0	64	0.2	5
2-BUTANONE	54	0	0	--	--	--	2	500	--	--	NA	NA
2-HEXANONE	63	0	0	--	--	--	2	500	--	--	NA	NA
4-METHYL-2-PENTANONE	64	0	0	--	--	--	2	500	--	--	NA	NA
ACETONE	56	0	0	--	--	--	2	500	0	0	610	NA
BENZENE	64	3	5	8	0.1J	22J	0.5	120	2	61	0.3	1
BROMODICHLOROMETHANE	64	0	0	--	--	--	1	500	0	64	0.2	80
BROMOFORM	64	0	0	--	--	--	1	500	0	14	9	80
BROMOMETHANE	64	0	0	--	--	--	1	250	0	14	9	NA
CARBON DISULFIDE	64	6	9	1	0.05J	3	1	500	0	0	1,000	NA
CARBON TETRACHLORIDE	64	0	0	--	--	--	0.5	120	0	64	0.2	0.5
CHLOROBENZENE	64	0	0	--	--	--	1	500	0	5	110	70
CHLOROETHANE	64	4	6	58	38	81J	2	500	4	14	5	NA
CHLOROFORM	64	10	16	7	0.4J	27	1	500	8	54	0.5	80
CHLOROMETHANE	64	0	0	--	--	--	2	500	0	64	2	NA
CIS-1,3-DICHLOROPROPENE	64	0	0	--	--	--	0.5	500	0	64	0.4	0.5
DIBROMOCHLOROMETHANE	64	1	2	0.5	0.5J	0.5J	1	500	1	63	0.1	80
ETHYLBENZENE	64	1	2	0.2	0.2J	0.2J	1	500	0	15	3	300
ETHYLENE DIBROMIDE	2	0	0	--	--	--	1	1	--	--	NA	0.05
METHYLENE CHLORIDE	64	0	0	--	--	--	0.9	500	0	14	4	NA
STYRENE	64	0	0	--	--	--	1	500	0	0	1,600	100
TETRACHLOROETHENE	64	0	0	--	--	--	1	500	0	64	0.7	5
TOLUENE	64	4	6	11	0.2J	39J	1	500	0	0	720	150
TRANS-1,3-DICHLOROPROPENE	64	0	0	--	--	--	0.5	120	0	64	0.4	0.5

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
TRICHLOROETHENE	64	23	36	**1,700**	**0.3J**	**6,900**	**1**	**200**	23	41	0.03	5
VINYL CHLORIDE	64	8	13	**120**	**2**	**310**	**0.5**	**83**	8	56	0.02	0.5
XYLENE (TOTAL)	64	7	11	1	0.2J	3	1	**500**	0	5	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	41	0	0	--	--	--	10	20	0	0	190	5
1,2-DICHLOROBENZENE	41	13	32	28	2J	71	5	10	0	0	370	600
1,3-DICHLOROBENZENE	41	3	7	1	1J	1J	5	**10**	0	4	6	NA
1,4-DICHLOROBENZENE	41	11	27	**9**	**0.8J**	**15**	**5**	**10**	11	30	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	41	0	0	--	--	--	10	20	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	41	0	0	--	--	--	25	50	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	41	0	0	--	--	--	**10**	**20**	0	41	1	NA
2,4-DICHLOROPHENOL	41	0	0	--	--	--	10	20	0	0	110	NA
2,4-DIMETHYLPHENOL	41	0	0	--	--	--	10	20	0	0	730	NA
2,4-DINITROPHENOL	40	0	0	--	--	--	25	50	0	0	73	NA
2,4-DINITROTOLUENE	41	0	0	--	--	--	10	20	0	0	73	NA
2,6-DINITROTOLUENE	41	0	0	--	--	--	10	20	0	0	36	NA
2-CHLORONAPHTHALENE	41	0	0	--	--	--	10	20	--	--	NA	NA
2-CHLOROPHENOL	41	0	0	--	--	--	10	20	0	0	30	NA
2-METHYLNAPHTHALENE	41	2	5	1	1J	1J	10	20	--	--	NA	NA
2-METHYLPHENOL	41	0	0	--	--	--	10	20	0	0	1,800	NA
2-NITROANILINE	41	0	0	--	--	--	**25**	**50**	0	41	1	NA
2-NITROPHENOL	41	0	0	--	--	--	10	20	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	41	0	0	--	--	--	**10**	**20**	0	41	0.2	NA
3-NITROANILINE	39	0	0	--	--	--	25	50	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	41	0	0	--	--	--	25	50	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	41	0	0	--	--	--	10	20	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	41	0	0	--	--	--	10	20	--	--	NA	NA
4-CHLOROANILINE	41	0	0	--	--	--	10	20	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	41	0	0	--	--	--	10	20	--	--	NA	NA
4-METHYLPHENOL	41	0	0	--	--	--	10	20	0	0	180	NA

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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-NITROANILINE	41	0	0	--	--	--	25	50	--	--	NA	NA
4-NITROPHENOL	41	0	0	--	--	--	25	50	--	--	NA	NA
ACENAPHTHENE	41	1	2	0.6	0.6J	0.6J	10	20	0	0	370	NA
ACENAPHTHYLENE	41	0	0	--	--	--	10	20	--	--	NA	NA
ANTHRACENE	41	2	5	0.7	0.6J	0.8J	10	20	0	0	1,800	NA
BENZO(A)ANTHRACENE	41	2	5	**1**	**1J**	**1J**	**10**	**20**	2	39	0.09	0.1
BENZO(A)PYRENE	41	2	5	**1**	**1J**	**1J**	**10**	**20**	2	39	0.009	0.2
BENZO(B)FLUORANTHENE	41	2	5	**1**	**0.9J**	**1J**	**10**	**20**	2	39	0.09	NA
BENZO(G,H,I)PERYLENE	41	1	2	0.9	0.9J	0.9J	10	20	--	--	NA	NA
BENZO(K)FLUORANTHENE	41	0	0	--	--	--	**10**	**20**	0	41	0.06	NA
BIS(2-CHLOROETHOXY)METHANE	41	0	0	--	--	--	10	20	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	41	0	0	--	--	--	**10**	**20**	0	41	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	41	0	0	--	--	--	4	**54**	0	8	5	NA
BUTYLBENZYLPHTHALATE	41	1	2	10	10J	10J	10	20	0	0	7,300	NA
CARBAZOLE	41	1	2	**10**	**10J**	**10J**	**10**	**20**	1	40	3	NA
CHRYSENE	41	2	5	**1**	**0.9J**	**1J**	**10**	**20**	2	39	0.6	NA
DI-N-BUTYLPHTHALATE	41	0	0	--	--	--	10	20	--	--	NA	NA
DI-N-OCTYLPHTHALATE	41	0	0	--	--	--	10	20	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	41	0	0	--	--	--	**10**	**20**	0	41	0.009	NA
DIBENZOFURAN	41	0	0	--	--	--	10	20	0	0	24	NA
DIETHYLPHTHALATE	41	0	0	--	--	--	10	20	0	0	29,000	NA
DIMETHYLPHTHALATE	41	0	0	--	--	--	10	20	0	0	360,000	NA
FLUORANTHENE	41	4	10	2	1J	3J	10	11	0	0	1,500	NA
FLUORENE	41	4	10	0.8	0.7J	1J	10	11	0	0	240	NA
HEXACHLOROBENZENE	41	0	0	--	--	--	**10**	**20**	0	41	0.04	1
HEXACHLOROBUTADIENE	41	0	0	--	--	--	**10**	**20**	0	41	0.9	NA
HEXACHLOROCYCLOPENTADIENE	41	0	0	--	--	--	10	20	0	0	220	NA
HEXACHLOROETHANE	41	0	0	--	--	--	**10**	**20**	0	41	5	NA
INDENO(1,2,3-CD)PYRENE	41	1	2	**0.8**	**0.8J**	**0.8J**	**10**	**20**	1	40	0.09	NA
ISOPHORONE	41	0	0	--	--	--	10	20	0	0	71	NA
N-NITROSO-DI-N-PROPYLAMINE	41	0	0	--	--	--	**10**	**20**	0	41	0.01	NA

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
N-NITROSODIPHENYLAMINE	41	0	0	--	--	--	10	**20**	0	1	14	NA
NAPHTHALENE	41	1	2	3	3J	3J	**10**	**20**	0	40	6	NA
NITROBENZENE	41	0	0	--	--	--	**10**	**20**	0	41	3	NA
PENTACHLOROPHENOL	41	0	0	--	--	--	**25**	**50**	0	41	0.6	1
PHENANTHRENE	41	4	10	2	1J	2J	10	11	--	--	NA	NA
PHENOL	41	2	5	4	3J	4J	10	20	0	0	22,000	NA
PYRENE	41	8	20	2	0.9J	3J	10	11	0	0	180	NA
Total Petroleum Hydrocarbons (mg/L)												
BENZENE	31	1	3	**0.0009**	**0.0009**	**0.0009**	**0.0005**	**0.0005**	1	30	0.0003	0.001
DIESEL RANGE ORGANICS	49	5	10	1	0.85J	1.4J	0.05	0.1	--	--	NA	NA
ETHYLBENZENE	31	0	0	--	--	--	0.0005	0.0005	0	0	0.003	0.3
GASOLINE RANGE ORGANICS	50	9	18	0.3	0.087J	0.97J	0.05	0.05	--	--	NA	NA
JP5 RANGE ORGANICS	49	0	0	--	--	--	0.05	0.1	--	--	NA	NA
KEROSENE RANGE ORGANICS	39	0	0	--	--	--	0.05	0.058	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	49	6	12	1	0.39J	2.1J	0.2	0.58	--	--	NA	NA
OTHER HEAVY TPH COMPONENTS	11	7	64	0.2	0.043J	0.56J	0.05	0.05	--	--	NA	NA
OTHER LIGHT TPH COMPONENTS	28	10	36	0.5	0.11J	1J	0.05	0.05	--	--	NA	NA
OTHER TPH COMPONENTS, TOTAL	28	1	4	0.2	0.2J	0.2J	0.05	0.058	--	--	NA	NA
OTHER TPH COMPONENTS, TOTALe	2	0	0	--	--	--	0.052	0.052	--	--	NA	NA
TOLUENE	31	3	10	0.0007	0.0006	0.001	0.0005	0.0005	0	0	0.7	0.2
XYLENE (TOTAL)	31	3	10	0.002	0.0007	0.002	0.0005	0.0005	0	0	0.2	2
Metals (µg/L)												
Filtered												
ALUMINUM	47	5	11	49.4	23.3J	96.8J	16.7	126	0	0	36,000	NA
ANTIMONY	35	10	29	5.5	2J	**15.1J**	2	**28**	1	7	15.0	6.0
ARSENIC	47	13	28	**27.5**	**3.3J**	**83.8**	**2**	**26.3**	13	34	0.045	10.0
BARIUM	47	45	96	110	10J	396	14.6	15.5	0	0	2,600	1,000
BERYLLIUM	47	4	9	2.2	1.1J	3.7J	0.22	3.8	0	0	73.0	4.0
CADMIUM	47	6	13	11.4	0.32J	**65.3**	0.3	12	1	0	18.0	5.0
CALCIUM	47	47	100	166,000	3,450J	1,310,000J	0	0	--	--	NA	NA

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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												
CHROMIUM	47	10	21	614	1.6J	3,090	0.6	14.3	0	0	55,000	50.0
COBALT	47	15	32	14.3	5.1J	28.5J	2	19	0	0	730	NA
COPPER	47	19	40	8.6	1.7J	22.2	0.4	60	0	0	1,500	1,300
CYANIDE	33	9	27	9.3	6.1J	19.8	5	6.4	0	0	730	150
IRON	47	24	51	2,260	22.8J	**14,400**	18.2	357	2	0	11,000	NA
LEAD	47	1	2	16.6	16.6J	16.6J	0.8	40	--	--	NA	15.0
MAGNESIUM	47	47	100	230,000	3,660J	2,150,000	0	0	--	--	NA	NA
MANGANESE	47	45	96	2,700	1.8J	**19,900**	5.6	6.7	16	0	880	NA
MERCURY	42	5	12	0.13	0.11	0.18	0.1	0.21	0	0	11.0	2.0
MOLYBDENUM	47	29	62	53.3	3.6J	**427**	2	39.5	2	0	180	NA
NICKEL	47	27	57	280	2.6J	**1,550**	2.5	37.5	5	0	730	100
POTASSIUM	47	47	100	20,700	2,060J	85,900J	0	0	--	--	NA	NA
SELENIUM	44	1	2	3.4	3.4J	3.4J	2.3	115	0	0	180	50.0
SILVER	44	1	2	3.5	3.5	3.5	0.9	4.5	0	0	180	NA
SODIUM	47	47	100	1,570,000	41,300	13,900,000J	0	0	--	--	NA	NA
THALLIUM	21	1	5	**3.6**	**3.6J**	**3.6J**	2	**20**	1	16	2.4	2.0
VANADIUM	47	25	53	6.6	1.5J	13.5J	1.4	25.1	0	0	260	NA
ZINC	47	6	13	27.4	5.7J	103J	0.5	65.5	0	0	11,000	NA

TABLE 6-8: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1994

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

--	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
NA	No criteria available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified (2002)
µg/L	Micrograms per liter

TABLE 6-9: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Geochemical Profiling, 1997

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	21	9	43	3	0.57	20	0.5	0.5	0	0	3,200	200
1,1-DICHLOROETHANE	21	12	57	**9**	0.6	**85**	0.5	0.5	4	0	2	5
1,1-DICHLOROETHENE	21	17	81	9	0.77	57	0.5	0.5	0	0	340	6
1,2-DICHLOROETHANE	21	3	14	**4**	**0.54**	**11**	**0.5**	**0.5**	3	18	0.1	0.5
BENZENE	21	11	52	**1**	**0.57**	**2.7**	**0.5**	**0.5**	11	10	0.3	1
CARBON TETRACHLORIDE	21	2	10	**2**	**0.68**	**3.1**	**0.5**	**0.5**	2	19	0.2	0.5
CHLOROETHANE	21	4	19	4	0.58	**14**	0.5	0.5	1	0	5	NA
CIS-1,2-DICHLOROETHENE	21	17	81	**580**	1	**8,600**	0.5	0.5	8	0	61	6
ETHYLBENZENE	21	14	67	2	0.64	**3.8**	0.5	0.5	2	0	3	300
M,P-XYLENE	21	15	71	3	0.55	6.8	0.5	0.5	0	0	210	NA
METHYL-T-BUTYL ETHER	2	2	100	**69**	**52J**	**86J**	0	0	2	0	6	13
O-XYLENE	21	15	71	2	0.56	5.1	0.5	0.5	0	0	210	NA
TETRACHLOROETHENE	21	4	19	**1**	0.56	**1.4**	0.5	0.5	3	0	0.7	5
TOLUENE	21	17	81	6	0.52	21	0.5	0.5	0	0	720	150
TRANS-1,2-DICHLOROETHENE	21	13	62	23	0.66	**130**	0.5	0.5	2	0	120	10
TRICHLOROETHENE	21	17	81	**1,700**	**0.52**	**24,000**	**0.5**	**0.5**	17	4	0.03	5
VINYL CHLORIDE	21	15	71	**170**	**0.62**	**2,200**	**0.5**	**0.5**	15	6	0.02	0.5

TABLE 6-9: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Geochemical Profiling, 1997

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

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 (2002)
µg/L	Micrograms per liter

TABLE 6-10: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	162	29	18	39	0.4J	660	0.5	250	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	53	0	0	--	--	--	1	250	0	53	0.06	1
1,1,2-TRICHLOROETHANE	53	2	4	2	1J	3	1	250	2	51	0.2	5
1,1-DICHLOROETHANE	53	17	32	160	0.3J	2,500	1	250	13	3	2	5
1,1-DICHLOROETHENE	162	76	47	1,900	0.4J	84,000	0.5	250	11	0	340	6
1,2,4-TRICHLOROBENZENE	42	0	0	--	--	--	1	250	0	1	190	5
1,2-DIBROMO-3-CHLOROPROPANE	40	0	0	--	--	--	1	250	0	40	0.002	0.2
1,2-DICHLOROBENZENE	42	10	24	74	2	320	1	250	0	0	370	600
1,2-DICHLOROETHANE	162	18	11	120	0.56	1,100	0.5	120	18	144	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	11	5	45	160	4	570	2	10	2	0	61	NA
1,2-DICHLOROPROPANE	53	0	0	--	--	--	1	250	0	53	0.2	5
1,3-DICHLOROBENZENE	42	2	5	4	4	4	1	250	0	2	6	NA
1,4-DICHLOROBENZENE	42	7	17	23	2	73	1	250	7	35	0.5	5
2-BUTANONE	12	0	0	--	--	--	2	11	--	--	NA	NA
2-HEXANONE	43	1	2	2	2J	2J	2	1,200	--	--	NA	NA
4-METHYL-2-PENTANONE	50	0	0	--	--	--	2	1,200	--	--	NA	NA
ACETONE	12	0	0	--	--	--	2	11	0	0	610	NA
BENZENE	162	17	10	6	0.4J	59	0.5	120	17	145	0.3	1
BROMOCHLOROMETHANE	42	0	0	--	--	--	1	250	--	--	NA	NA
BROMODICHLOROMETHANE	53	0	0	--	--	--	1	250	0	53	0.2	80
BROMOFORM	53	0	0	--	--	--	1	250	0	4	9	80
BROMOMETHANE	53	0	0	--	--	--	1	250	0	4	9	NA
CARBON DISULFIDE	53	1	2	0.4	0.4J	0.4J	1	250	0	0	1,000	NA
CARBON TETRACHLORIDE	53	0	0	--	--	--	0.5	120	0	53	0.2	0.5
CHLOROBENZENE	53	6	11	2	1J	4	1	250	0	1	110	70
CHLOROETHANE	161	0	0	--	--	--	0.5	250	0	5	5	NA
CHLOROFORM	53	1	2	0.8	0.8J	0.8J	1	250	1	52	0.5	80
CHLOROMETHANE	53	2	4	6	1J	10	1	250	1	12	2	NA
CIS-1,2-DICHLOROETHENE	149	59	40	120	0.7	960	0.5	250	22	1	61	6
CIS-1,3-DICHLOROPROPENE	53	0	0	--	--	--	0.5	120	0	53	0.4	0.5
DIBROMOCHLOROMETHANE	53	0	0	--	--	--	1	250	0	53	0.1	80

TABLE 6-10: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
ETHYLBENZENE	162	5	3	2	1	2.4	0.5	**250**	0	5	3	300
ETHYLENE DIBROMIDE	42	0	0	--	--	--	1	250	--	--	NA	0.05
METHYLENE CHLORIDE	53	0	0	--	--	--	2	**500**	0	5	4	NA
STYRENE	53	0	0	--	--	--	1	250	0	0	1,600	100
TETRACHLOROETHENE	162	4	2	**3**	**2J**	**5.4**	0.5	**250**	4	51	0.7	5
TOLUENE	162	61	38	2	0.4J	11	0.5	250	0	0	720	150
TRANS-1,2-DICHLOROETHENE	150	41	27	49	0.5	**600**	0.5	**250**	3	1	120	10
TRANS-1,3-DICHLOROPROPENE	53	0	0	--	--	--	**0.5**	**120**	0	53	0.4	0.5
TRICHLOROETHENE	162	59	36	**510**	**0.6**	**4,600J**	**0.5**	**10**	59	103	0.03	5
VINYL CHLORIDE	162	36	22	**17**	**0.6**	**99**	**0.5**	**120**	36	126	0.02	0.5
XYLENE (TOTAL)	162	26	16	2	0.3J	14	0.5	**250**	0	1	210	1,800
Total Petroleum Hydrocarbons (mg/L)												
DIESEL RANGE ORGANICS	2	0	0	--	--	--	0.12	0.12	--	--	NA	NA
GASOLINE RANGE ORGANICS	2	0	0	--	--	--	0.05	0.05	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	2	0	0	--	--	--	0.24	0.24	--	--	NA	NA
Metals (µg/L)												
Filtered												
ALUMINUM	42	10	24	1,890	102J	4,420	7.4	210	0	0	36,000	NA
ANTIMONY	42	2	5	1.5	1.1J	1.8J	0.65	3.4	0	0	15.0	6.0
ARSENIC	42	17	40	**8.1**	**1.1J**	**21.1**	**0.8**	**7.2**	17	25	0.045	10.0
BARIUM	42	38	90	198	10J	1,040	87.7	506	0	0	2,600	1,000
BERYLLIUM	42	0	0	--	--	--	0.1	0.3	0	0	73.0	4.0
CADMIUM	42	26	62	2.2	0.24J	13.7	0.15	0.43	0	0	18.0	5.0
CALCIUM	42	41	98	239,000	6,850	1,350,000	9,800	9,800	--	--	NA	NA
CHROMIUM	42	16	38	24.2	0.66J	105	0.2	1.6	0	0	55,000	50.0
COBALT	42	28	67	5.4	0.36J	20.9J	0.25	2.6	0	0	730	NA
COPPER	42	6	14	4.8	0.94J	9.3	0.35	6.6	0	0	1,500	1,300
IRON	42	20	48	3,540	24.2J	**15,000**	5.6	1,250	2	0	11,000	NA
LEAD	42	1	2	3.0	3	3	0.5	65	--	--	NA	15.0
MAGNESIUM	42	40	95	391,000	649J	2,260,000	792	5,990	--	--	NA	NA

TABLE 6-10: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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												
MANGANESE	42	39	93	4,840	3.9J	**29,400**	0.25	5.3	18	0	880	NA
MERCURY	42	1	2	0.34	0.34	0.34	0.1	0.1	0	0	11.0	2.0
MOLYBDENUM	42	30	71	91.0	0.74J	**783**	0.25	5	4	0	180	NA
NICKEL	42	33	79	88.0	0.68J	693	1.5	20.8	0	0	730	100
POTASSIUM	42	42	100	48,600	1,520J	298,000	0	0	--	--	NA	NA
SELENIUM	33	5	15	1.7	1.1J	2.5J	0.8	6.3	0	0	180	50.0
SILVER	42	7	17	0.92	0.2J	2.5	0.15	3	0	0	180	NA
SODIUM	42	42	100	2,210,000	48,200	14,100,000	0	0	--	--	NA	NA
THALLIUM	42	2	5	**20.4**	**16.8J**	**24**	0.9	**18**	2	5	2.4	2.0
VANADIUM	42	13	31	17.0	3.2J	62.4	0.25	6.6	0	0	260	NA
ZINC	42	29	69	65.9	6.8J	515	3	125	0	0	11,000	NA

TABLE 6-10: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Follow-on Investigation, 1998

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

–	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
NA	No criteria available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified (2002)
µg/L	Micrograms per liter

TABLE 6-11: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
1,1,1,2-TETRACHLOROETHANE	1	0	0	--	--	--	1	1	--	--	NA
1,1,1-TRICHLOROETHANE	2	0	0	--	--	--	1	12	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	2	0	0	--	--	--	1	12	0	0	410
1,1,2-TRICHLOROETHANE	2	0	0	--	--	--	1	12	0	0	730
1,1-DICHLOROETHANE	2	0	0	--	--	--	1	12	0	0	2,800
1,1-DICHLOROETHENE	2	0	0	--	--	--	1	12	0	0	120,000
1,2-DICHLOROBENZENE	2	0	0	--	--	--	1	12	0	0	370,000
1,2-DICHLOROETHANE	2	0	0	--	--	--	1	12	0	0	280
1,2-DICHLOROETHENE (TOTAL)	1	0	0	--	--	--	12	12	0	0	43,000
1,2-DICHLOROPROPANE	1	0	0	--	--	--	12	12	0	0	340
1,3-DICHLOROBENZENE	2	0	0	--	--	--	1	12	0	0	16,000
1,4-DICHLOROBENZENE	2	0	0	--	--	--	1	12	0	0	3,400
2-BUTANONE	1	0	0	--	--	--	12	12	--	--	NA
2-HEXANONE	1	0	0	--	--	--	12	12	--	--	NA
4-METHYL-2-PENTANONE	1	0	0	--	--	--	12	12	--	--	NA
ACETONE	1	0	0	--	--	--	12	12	0	0	1,600,000
BENZENE	2	0	0	--	--	--	1	12	0	0	600
BROMODICHLOROMETHANE	1	0	0	--	--	--	12	12	0	0	820
BROMOFORM	1	0	0	--	--	--	12	12	0	0	62,000
BROMOMETHANE	1	0	0	--	--	--	12	12	0	0	3,900
CARBON DISULFIDE	1	0	0	--	--	--	12	12	0	0	360,000
CARBON TETRACHLORIDE	1	0	0	--	--	--	12	12	0	0	250
CHLOROBENZENE	2	0	0	--	--	--	1	12	0	0	150,000
CHLOROETHANE	2	0	0	--	--	--	1	12	0	0	3,000
CHLOROFORM	1	0	0	--	--	--	12	12	0	0	940
CHLOROMETHANE	2	0	0	--	--	--	1	12	0	0	1,200
CIS-1,2-DICHLOROETHENE	1	0	0	--	--	--	1	1	0	0	43,000
CIS-1,3-DICHLOROPROPENE	1	0	0	--	--	--	12	12	0	0	780
DIBROMOCHLOROMETHANE	1	0	0	--	--	--	12	12	0	0	1,100
ETHYLBENZENE	2	0	0	--	--	--	1	12	0	0	8,900
M,P-XYLENE	1	0	0	--	--	--	1	1	0	0	270,000

TABLE 6-11: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
METHYL-T-BUTYL ETHER	2	0	0	--	--	--	1	30	0	0	17,000
METHYLENE CHLORIDE	2	0	0	--	--	--	1	12	0	0	9,100
NAPHTHALENE	1	0	0	--	--	--	1	1	0	0	56,000
O-XYLENE	1	0	0	--	--	--	1	1	0	0	270,000
STYRENE	1	0	0	--	--	--	12	12	0	0	1,700,000
TETRACHLOROETHENE	2	0	0	--	--	--	1	12	0	0	1,500
TOLUENE	2	0	0	--	--	--	1	12	0	0	520,000
TRANS-1,2-DICHLOROETHENE	1	0	0	--	--	--	1	1	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	1	0	0	--	--	--	12	12	0	0	780
TRICHLOROETHENE	2	0	0	--	--	--	1	12	0	0	53
VINYL CHLORIDE	2	0	0	--	--	--	1	12	0	0	79
XYLENE (TOTAL)	1	0	0	--	--	--	12	12	0	0	270,000
Total Petroleum Hydrocarbons (mg/kg)											
DIESEL RANGE ORGANICS	2	1	50	19	19J	19 J	120	120	--	--	NA
GASOLINE RANGE ORGANICS	2	0	0	--	--	--	0.1	0.58	--	--	NA
JP5 RANGE ORGANICS	1	0	0	--	--	--	120	120	--	--	NA
MOTOR OIL RANGE ORGANICS	2	2	100	270	180J	350	0	0	--	--	NA
Metals (mg/kg)											
CADMIUM	17	8	47	6.3	0.34J	31.6 J	0.032	0.23	0	0	37.0
CHROMIUM	14	14	100	66.0	26.1	191	0	0	0	0	210
COPPER	5	5	100	27.7	8.3	62.6	0	0	0	0	3,100
CYANIDE	5	2	40	2.8	2.5	3	2.2	2.3	--	--	NA
LEAD	5	5	100	35.5	2.4	90.1	0	0	0	0	150
NICKEL	5	5	100	78.2	33	165	0	0	0	0	1,600
SILVER	5	5	100	3.8	1.4J	10	0	0	0	0	390

TABLE 6-11: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	167	0	0	--	--	--	**0.5**	**200**	0	167	0.4	NA
1,1,1-TRICHLOROETHANE	216	9	4	11	0.7J	56	0.5	200	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	216	0	0	--	--	--	**0.5**	**200**	0	216	0.06	1
1,1,2-TRICHLOROETHANE	216	28	13	**47**	**1.2**	**260**	**0.5**	**200**	28	188	0.2	5
1,1-DICHLOROETHANE	216	70	32	**230**	0.3J	**2,900**	0.5	**200**	53	13	2	5
1,1-DICHLOROETHENE	216	83	38	1,200	0.4J	**20,000**	0.5	200	20	0	340	6
1,1-DICHLOROPROPENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
1,2,3-TRICHLOROBENZENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
1,2,3-TRICHLOROPROPANE	26	0	0	--	--	--	**0.5**	**25**	0	26	0.006	NA
1,2,4-TRICHLOROBENZENE	26	0	0	--	--	--	0.5	25	0	0	190	5
1,2,4-TRIMETHYLBENZENE	26	0	0	--	--	--	0.5	**25**	0	1	12	NA
1,2-DIBROMO-3-CHLOROPROPANE	26	0	0	--	--	--	**0.5**	**25**	0	26	0.002	0.2
1,2-DICHLOROBENZENE	216	29	13	39	0.3J	160	0.5	200	0	0	370	600
1,2-DICHLOROETHANE	216	38	18	**50**	**0.6J**	**350**	**0.5**	**200**	38	178	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	49	25	51	**330**	0.4J	**5,200**	2	50	11	0	61	NA
1,2-DICHLOROPROPANE	75	0	0	--	--	--	**0.5**	**50**	0	75	0.2	5
1,3,5-TRIMETHYLBENZENE	26	0	0	--	--	--	0.5	**25**	0	1	12	NA
1,3-DICHLOROBENZENE	216	4	2	2	1	3.8	0.5	**200**	0	24	6	NA
1,3-DICHLOROPROPANE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
1,4-DICHLOROBENZENE	216	20	9	**13**	0.3J	**41**	0.5	**200**	14	176	0.5	5
2,2-DICHLOROPROPANE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
2-BUTANONE	75	0	0	--	--	--	2	500	--	--	NA	NA
2-CHLOROTOLUENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
2-HEXANONE	75	0	0	--	--	--	2	500	--	--	NA	NA
4-CHLOROTOLUENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
4-METHYL-2-PENTANONE	75	2	3	12	0.7J	23J	2	500	--	--	NA	NA
ACETONE	75	2	3	23	21J	24J	3	500	0	0	610	NA
BENZENE	216	21	10	**1**	0.3J	**7.2J**	**0.5**	**200**	20	195	0.3	1
BROMOBENZENE	26	0	0	--	--	--	0.5	**25**	0	1	20	NA
BROMOCHLOROMETHANE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
BROMODICHLOROMETHANE	75	5	7	**3**	**0.9J**	**10J**	**0.5**	**50**	5	70	0.2	80

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
BROMOFORM	75	0	0	--	--	--	1	**50**	0	5	9	80
BROMOMETHANE	75	0	0	--	--	--	1	**50**	0	8	9	NA
CARBON DISULFIDE	75	19	25	1	0.3J	3.1	0.5	50	0	0	1,000	NA
CARBON TETRACHLORIDE	75	0	0	--	--	--	**0.5**	**25**	0	75	0.2	0.5
CHLOROBENZENE	216	23	11	4	0.5J	26	0.5	**200**	0	1	110	70
CHLOROETHANE	216	8	4	**93**	0.4J	**560**	1	**200**	4	27	5	NA
CHLOROFORM	75	4	5	**2**	0.4J	**3**	0.5	**50**	3	51	0.5	80
CHLOROMETHANE	216	0	0	--	--	--	1	**200**	0	74	2	NA
CIS-1,2-DICHLOROETHENE	167	56	34	**78**	0.5J	**860**	0.5	**200**	19	3	61	6
CIS-1,3-DICHLOROPROPENE	75	0	0	--	--	--	**0.5**	**25**	0	75	0.4	0.5
DIBROMOCHLOROMETHANE	75	0	0	--	--	--	**0.5**	**50**	0	75	0.1	80
DIBROMOMETHANE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
DICHLORODIFLUOROMETHANE	26	0	0	--	--	--	1	50	0	0	390	NA
ETHYLBENZENE	216	2	1	0.6	0.3J	0.9J	0.5	**200**	0	28	3	300
ETHYLENE DIBROMIDE	26	0	0	--	--	--	0.5	25	--	--	NA	0.05
HEXACHLOROBUTADIENE	26	0	0	--	--	--	0.5	**25**	0	6	0.9	NA
ISOPROPYLBENZENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
M,P-XYLENE	167	20	12	2	1.2	5.9	0.5	200	0	0	210	NA
METHYL-T-BUTYL ETHER	216	1	0	2	2J	2J	0.5	**200**	0	24	6	13
METHYLENE CHLORIDE	216	0	0	--	--	--	1	**500**	0	49	4	NA
N-BUTYLBENZENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
N-PROPYLBENZENE	26	0	0	--	--	--	0.5	25	0	0	240	NA
NAPHTHALENE	167	6	4	**350**	**21**	**1,700**	0.5	**100**	6	18	6	NA
O-XYLENE	167	4	2	2	1.1	2.6	0.5	200	0	0	210	NA
P-ISOPROPYLTOLUENE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
SEC-BUTYLBENZENE	26	0	0	--	--	--	0.5	25	0	0	240	NA
STYRENE	75	0	0	--	--	--	0.5	50	0	0	1,600	100
TERT-BUTYLBENZENE	26	0	0	--	--	--	0.5	25	0	0	240	NA
TETRACHLOROETHENE	216	8	4	**3**	**0.8J**	**13**	0.5	**200**	8	188	0.7	5
TOLUENE	216	38	18	3	0.4J	6.2	0.5	200	0	0	720	150
TRANS-1,2-DICHLOROETHENE	167	28	17	36	1	**130**	0.5	**200**	1	1	120	10

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)												
TRANS-1,3-DICHLOROPROPENE	75	0	0	--	--	--	**0.5**	**25**	0	75	0.4	0.5
TRICHLOROETHENE	216	84	39	**1,400**	**0.4J**	**19,000**	**0.5**	**200**	84	132	0.03	5
TRICHLOROFLUOROMETHANE	26	0	0	--	--	--	0.5	25	--	--	NA	NA
TRICHLOROTRIFLUOROETHANE	26	0	0	--	--	--	5	250	--	--	NA	NA
VINYL ACETATE	26	0	0	--	--	--	10	**500**	0	1	410	NA
VINYL CHLORIDE	216	56	26	**50**	**0.3J**	**1,400**	**0.5**	**200**	56	160	0.02	0.5
XYLENE (TOTAL)	49	7	14	1	0.4J	2	2	50	0	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	23	0	0	--	--	--	10	10	0	0	190	5
1,2-DICHLOROBENZENE	23	2	9	29	3J	55	5	5	0	0	370	600
1,3-DICHLOROBENZENE	23	0	0	--	--	--	5	5	0	0	6	NA
1,4-DICHLOROBENZENE	23	1	4	**12**	**12**	**12**	**5**	**5**	1	22	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	23	0	0	--	--	--	10	10	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	23	0	0	--	--	--	25	25	0	0	3,600	50
2,4,6-TRICHLOROPHENOL	21	0	0	--	--	--	**10**	**10**	0	21	1	NA
2,4-DICHLOROPHENOL	23	0	0	--	--	--	10	10	0	0	110	NA
2,4-DIMETHYLPHENOL	23	0	0	--	--	--	10	10	0	0	730	NA
2,4-DINITROPHENOL	23	0	0	--	--	--	25	50	0	0	73	NA
2,4-DINITROTOLUENE	23	0	0	--	--	--	10	10	0	0	73	NA
2,6-DINITROTOLUENE	23	0	0	--	--	--	10	10	0	0	36	NA
2-CHLORONAPHTHALENE	23	0	0	--	--	--	10	10	--	--	NA	NA
2-CHLOROPHENOL	23	0	0	--	--	--	10	10	0	0	30	NA
2-METHYLNAPHTHALENE	23	0	0	--	--	--	10	10	--	--	NA	NA
2-METHYLPHENOL	23	0	0	--	--	--	10	10	0	0	1,800	NA
2-NITROANILINE	23	0	0	--	--	--	**25**	**25**	0	23	1	NA
2-NITROPHENOL	23	0	0	--	--	--	10	10	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	23	0	0	--	--	--	**12**	**14**	0	23	0.2	NA
3-NITROANILINE	23	0	0	--	--	--	25	25	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	23	0	0	--	--	--	25	25	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	23	0	0	--	--	--	10	10	--	--	NA	NA

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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-CHLORO-3-METHYLPHENOL	23	0	0	--	--	--	10	10	--	--	NA	NA
4-CHLOROANILINE	23	0	0	--	--	--	15	19	0	0	150	NA
4-CHLOROPHENYL-PHENYLETHER	23	0	0	--	--	--	10	10	--	--	NA	NA
4-METHYLPHENOL	23	0	0	--	--	--	10	10	0	0	180	NA
4-NITROANILINE	23	0	0	--	--	--	25	25	--	--	NA	NA
4-NITROPHENOL	23	0	0	--	--	--	25	25	--	--	NA	NA
ACENAPHTHENE	23	0	0	--	--	--	10	10	0	0	370	NA
ACENAPHTHYLENE	23	0	0	--	--	--	10	10	--	--	NA	NA
ANTHRACENE	23	0	0	--	--	--	10	10	0	0	1,800	NA
BENZO(A)ANTHRACENE	23	0	0	--	--	--	**10**	**10**	0	23	0.09	0.1
BENZO(A)PYRENE	23	0	0	--	--	--	**0.99**	**2.7**	0	23	0.009	0.2
BENZO(B)FLUORANTHENE	23	0	0	--	--	--	**10**	**10**	0	23	0.09	NA
BENZO(G,H,I)PERYLENE	23	0	0	--	--	--	10	10	--	--	NA	NA
BENZO(K)FLUORANTHENE	23	0	0	--	--	--	**10**	**10**	0	23	0.06	NA
BIS(2-CHLOROETHOXY)METHANE	23	0	0	--	--	--	10	10	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	23	0	0	--	--	--	**10**	**10**	0	23	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	23	1	4	3	3J	3J	4	4	0	0	5	NA
BUTYLBENZYLPHTHALATE	23	0	0	--	--	--	10	10	0	0	7,300	NA
CARBAZOLE	23	0	0	--	--	--	**10**	**14**	0	23	3	NA
CHRYSENE	23	0	0	--	--	--	**10**	**10**	0	23	0.6	NA
DI-N-BUTYLPHTHALATE	23	0	0	--	--	--	10	10	--	--	NA	NA
DI-N-OCTYLPHTHALATE	23	0	0	--	--	--	10	10	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	23	0	0	--	--	--	**20**	**20**	0	23	0.009	NA
DIBENZOFURAN	23	0	0	--	--	--	10	10	0	0	24	NA
DIETHYLPHTHALATE	23	0	0	--	--	--	10	10	0	0	29,000	NA
DIMETHYLPHTHALATE	23	0	0	--	--	--	10	10	0	0	360,000	NA
FLUORANTHENE	23	0	0	--	--	--	10	10	0	0	1,500	NA
FLUORENE	23	0	0	--	--	--	10	10	0	0	240	NA
HEXACHLOROBENZENE	23	0	0	--	--	--	**10**	**10**	0	23	0.04	1
HEXACHLOROBUTADIENE	23	0	0	--	--	--	**10**	**10**	0	23	0.9	NA
HEXACHLOROCYCLOPENTADIENE	23	0	0	--	--	--	11	16	0	0	220	NA

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

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Semivolatile Organic Compounds (µg/L)												
HEXACHLOROETHANE	23	0	0	--	--	--	**10**	**10**	0	23	5	NA
INDENO(1,2,3-CD)PYRENE	23	0	0	--	--	--	**10**	**10**	0	23	0.09	NA
ISOPHORONE	23	0	0	--	--	--	10	10	0	0	71	NA
N-NITROSO-DI-N-PROPYLAMINE	23	0	0	--	--	--	**10**	**10**	0	23	0.01	NA
N-NITROSODIPHENYLAMINE	23	0	0	--	--	--	10	**18**	0	5	14	NA
NAPHTHALENE	23	0	0	--	--	--	**10**	**10**	0	23	6	NA
NITROBENZENE	23	0	0	--	--	--	**10**	**10**	0	23	3	NA
PENTACHLOROPHENOL	23	0	0	--	--	--	**25**	**25**	0	23	0.6	1
PHENANTHRENE	23	0	0	--	--	--	10	10	--	--	NA	NA
PHENOL	23	0	0	--	--	--	10	10	0	0	22,000	NA
PYRENE	23	0	0	--	--	--	10	10	0	0	180	NA
Polynuclear Aromatic Hydrocarbons (µg/L)												
ACENAPHTHENE	14	0	0	--	--	--	5	5	0	0	370	NA
ACENAPHTHYLENE	14	0	0	--	--	--	2	2	--	--	NA	NA
ANTHRACENE	14	0	0	--	--	--	0.2	0.2	0	0	1,800	NA
BENZO(A)ANTHRACENE	14	0	0	--	--	--	**0.2**	**0.2**	0	14	0.09	0.1
BENZO(A)PYRENE	14	0	0	--	--	--	**0.2**	**0.2**	0	14	0.009	0.2
BENZO(B)FLUORANTHENE	14	0	0	--	--	--	**0.2**	**0.2**	0	14	0.09	NA
BENZO(G,H,I)PERYLENE	14	0	0	--	--	--	0.2	0.2	--	--	NA	NA
BENZO(K)FLUORANTHENE	14	0	0	--	--	--	**0.2**	**0.2**	0	14	0.06	NA
CHRYSENE	14	0	0	--	--	--	0.2	0.2	0	0	0.6	NA
DIBENZO(A,H)ANTHRACENE	14	0	0	--	--	--	**0.5**	**0.5**	0	14	0.009	NA
FLUORANTHENE	14	2	14	0.2	0.1J	0.2J	0.2	0.2	0	0	1,500	NA
FLUORENE	14	0	0	--	--	--	1	1	0	0	240	NA
INDENO(1,2,3-CD)PYRENE	14	0	0	--	--	--	**0.2**	**0.2**	0	14	0.09	NA
NAPHTHALENE	14	0	0	--	--	--	5	5	0	0	6	NA
PHENANTHRENE	14	0	0	--	--	--	1	1	--	--	NA	NA
PYRENE	14	3	21	0.3	0.2J	0.51	0.2	0.2	0	0	180	NA

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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
Total Petroleum Hydrocarbons (mg/L)												
DIESEL RANGE ORGANICS	23	9	39	1	0.08J	3.95J	0.1	0.2	--	--	NA	NA
GASOLINE RANGE ORGANICS	32	13	41	6	0.04J	67J	0.05	0.05	--	--	NA	NA
JP5 RANGE ORGANICS	21	6	29	50	0.35J	280	0.1	0.1	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	23	6	26	0.5	0.27	0.87	0.1	0.2	--	--	NA	NA
Metals (µg/L)												
Filtered												
CADMIUM	10	3	30	1.4	0.27J	3.4	0.22	1.2	0	0	18.0	5.0
CHROMIUM	9	6	67	267	1.8J	1,540	1	1.3	0	0	55,000	50.0
COPPER	2	0	0	--	--	--	3.5	5.3	0	0	1,500	1,300
CYANIDE	2	0	0	--	--	--	24	24	0	0	730	150
LEAD	2	2	100	1.7	0.71J	2.6J	0	0	--	--	NA	15.0
NICKEL	2	2	100	5.2	3.6J	6.7J	0	0	0	0	730	100
SILVER	2	0	0	--	--	--	0.25	0.25	0	0	180	NA

TABLE 6-12: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Supplemental Remedial Investigation Data Gap Sampling, 2001

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

--	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
NA	No criteria available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified (2002)
µg/L	Micrograms per liter

TABLE 6-13: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	38	0	0	--	--	--	**0.5**	**170**	0	38	0.4	NA
1,1,1-TRICHLOROETHANE	38	5	13	10	0.5	34	0.5	170	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.06	1
1,1,2-TRICHLOROETHANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.2	5
1,1-DICHLOROETHANE	38	16	42	**6**	0.4J	**22**	0.5	**170**	9	4	2	5
1,1-DICHLOROETHENE	38	16	42	210	0.2	**2,400**	0.5	36	2	0	340	6
1,1-DICHLOROPROPENE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
1,2,3-TRICHLOROBENZENE	38	0	0	--	--	--	0.1	170	--	--	NA	NA
1,2,3-TRICHLOROPROPANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.006	NA
1,2,4-TRICHLOROBENZENE	38	0	0	--	--	--	0.5	170	0	0	190	5
1,2,4-TRIMETHYLBENZENE	38	1	3	5	5.2J	5.2J	0.5	**170**	0	2	12	NA
1,2-DIBROMO-3-CHLOROPROPANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.002	0.2
1,2-DICHLOROBENZENE	38	10	26	65	0.1J	240	0.5	170	0	0	370	600
1,2-DICHLOROETHANE	38	1	3	**0.2**	**0.2J**	**0.2J**	**0.5**	**170**	1	37	0.1	0.5
1,2-DICHLOROPROPANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.2	5
1,3,5-TRIMETHYLBENZENE	38	1	3	2	1.8J	1.8J	0.4	**170**	0	2	12	NA
1,3-DICHLOROBENZENE	38	5	13	2	0.07J	4.5	0.5	**170**	0	4	6	NA
1,3-DICHLOROPROPANE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
1,4-DICHLOROBENZENE	38	8	21	**17**	**0.6**	**48**	0.5	**170**	8	6	0.5	5
2,2-DICHLOROPROPANE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
2-BUTANONE	38	0	0	--	--	--	10	3,300	--	--	NA	NA
2-CHLOROTOLUENE	38	0	0	--	--	--	0.3	170	--	--	NA	NA
2-HEXANONE	38	0	0	--	--	--	10	3,300	--	--	NA	NA
4-CHLOROTOLUENE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
4-METHYL-2-PENTANONE	38	0	0	--	--	--	10	3,300	--	--	NA	NA
ACETONE	38	10	26	7,500	1.3J	**63,000J**	0.4	130	3	0	610	NA
BENZENE	38	5	13	0.3	0.1J	**0.7**	**0.5**	**170**	2	33	0.3	1
BROMOBENZENE	38	0	0	--	--	--	0.5	**170**	0	2	20	NA
BROMOCHLOROMETHANE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
BROMODICHLOROMETHANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.2	80
BROMOFORM	38	0	0	--	--	--	1	**330**	0	7	9	80

TABLE 6-13: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	38	0	0	--	--	--	1	**330**	0	7	9	NA
CARBON DISULFIDE	38	7	18	4	0.6	17J	0.5	170	0	0	1,000	NA
CARBON TETRACHLORIDE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.2	0.5
CHLOROBENZENE	38	6	16	1	0.6	2	0.5	**170**	0	1	110	70
CHLOROETHANE	38	3	8	**22**	**8.2**	**37**	1	**330**	3	8	5	NA
CHLOROFORM	38	3	8	0.5	0.1J	**1.1**	0.5	**170**	1	11	0.5	80
CHLOROMETHANE	38	0	0	--	--	--	1	**330**	0	10	2	NA
CIS-1,2-DICHLOROETHENE	38	18	47	39	0.2J	**130**	0.5	**170**	7	1	61	6
DIBROMOCHLOROMETHANE	38	0	0	--	--	--	**0.5**	**170**	0	38	0.1	80
DIBROMOMETHANE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
DICHLORODIFLUOROMETHANE	38	0	0	--	--	--	1	330	0	0	390	NA
DIISOPROPYL ETHER	38	0	0	--	--	--	0.5	170	--	--	NA	NA
ETHYL TERT-BUTYL ETHER	38	0	0	--	--	--	0.5	170	--	--	NA	NA
ETHYLBENZENE	38	2	5	2	0.5J	**4J**	0.2	**170**	1	6	3	300
ETHYLENE DIBROMIDE	38	0	0	--	--	--	0.5	170	--	--	NA	0.05
HEXACHLOROBUTADIENE	38	1	3	0.4	0.4J	0.4J	0.5	**170**	0	10	0.9	NA
ISOPROPYLBENZENE	38	1	3	0.5	0.5	0.5	0.5	170	--	--	NA	NA
M,P-XYLENE	38	3	8	9	1.7	15	0.5	170	0	0	210	NA
METHYL-T-BUTYL ETHER	38	1	3	2	1.6J	1.6J	0.1	**170**	0	5	6	13
METHYLENE CHLORIDE	38	1	3	**75**	**75J**	**75J**	0.1	**18**	1	28	4	NA
N-BUTYLBENZENE	38	0	0	--	--	--	0.3	170	--	--	NA	NA
N-PROPYLBENZENE	38	0	0	--	--	--	0.5	170	0	0	240	NA
NAPHTHALENE	38	1	3	0.2	0.2J	0.2J	1.6	**670**	0	8	6	NA
O-XYLENE	38	1	3	0.6	0.6	0.6	0.5	170	0	0	210	NA
P-ISOPROPYLTOLUENE	38	0	0	--	--	--	0.5	170	--	--	NA	NA
SEC-BUTYLBENZENE	38	1	3	0.5	0.5	0.5	0.5	170	0	0	240	NA
STYRENE	38	0	0	--	--	--	0.5	170	0	0	1,600	100
TERT-AMYL METHYL ETHER	38	0	0	--	--	--	0.5	170	--	--	NA	NA
TERT-BUTANOL	38	3	8	64	4.7J	100	10	3,300	--	--	NA	NA
TERT-BUTYLBENZENE	38	1	3	0.3	0.3	0.3	0.5	170	0	0	240	NA
TETRACHLOROETHENE	38	4	11	**2**	0.2J	**3J**	0.5	**170**	3	8	0.7	5

TABLE 6-13: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	38	6	16	2	0.1J	11J	0.5	170	0	0	720	150
TRANS-1,2-DICHLOROETHENE	38	11	29	10	0.4	34	0.5	**170**	0	1	120	10
TRICHLOROETHENE	38	17	45	**450**	**0.2J**	**2,300**	**0.5**	**170**	17	21	0.03	5
TRICHLOROFLUOROMETHANE	38	0	0	--	--	--	1	330	--	--	NA	NA
VINYL CHLORIDE	38	10	26	**5**	**0.6**	**14**	**0.5**	**170**	10	28	0.02	0.5
Total Petroleum Hydrocarbons (mg/L)												
DIESEL RANGE ORGANICS	37	6	16	0.3	0.026J	0.68	0.05	0.05	--	--	NA	NA
GASOLINE RANGE ORGANICS	38	9	24	0.4	0.022J	1.1	0.012	0.077	--	--	NA	NA
JP5 RANGE ORGANICS	37	3	8	0.2	0.052	0.26	0.05	0.05	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	37	5	14	0.3	0.096J	0.97	0.3	0.3	--	--	NA	NA
Metals (µg/L)												
Filtered												
ALUMINUM	37	20	54	303	5.8	1,800	4.6	120	0	0	36,000	NA
ANTIMONY	37	26	70	0.34	0.049J	1.1J	0.084	0.54	0	0	15.0	6.0
ARSENIC	37	30	81	**13.4**	**1.4**	**46**	**1.5**	**5**	30	7	0.045	10.0
BARIUM	37	34	92	142	24	760	36	49	0	0	2,600	1,000
BERYLLIUM	37	3	8	0.062	0.038	0.11J	0.24	2	0	0	73.0	4.0
CADMIUM	37	7	19	0.15	0.054	0.3J	0.076	5	0	0	18.0	5.0
CALCIUM	37	37	100	252,000	3,800	1,400,000	0	0	--	--	NA	NA
CHROMIUM	37	19	51	12.1	0.1J	87	0.43	10	0	0	55,000	50.0
COBALT	37	31	84	2.2	0.068J	13	0.21	3.9	0	0	730	NA
COPPER	37	34	92	3.7	0.21J	20	10	10	0	0	1,500	1,300
IRON	37	29	78	3,270	52J	**17,000**	20	380	3	0	11,000	NA
LEAD	37	7	19	0.33	0.045J	0.78J	0.022	3	--	--	NA	15.0
MAGNESIUM	37	37	100	388,000	2,000	2,600,000	0	0	--	--	NA	NA
MANGANESE	37	37	100	4,260	0.82	**26,000**	0	0	13	0	880	NA
MERCURY	37	3	8	0.047	0.044J	0.052J	0.043	0.26	0	0	11.0	2.0
MOLYBDENUM	37	29	78	48.6	0.87J	**390**	0.76	20	3	0	180	NA
NICKEL	37	32	86	53.9	1.5	520	11	20	0	0	730	100
POTASSIUM	37	37	100	18,600	910	87,000	0	0	--	--	NA	NA

TABLE 6-13: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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												
SELENIUM	33	22	67	10.8	0.54J	78	5	5	0	0	180	50.0
SILVER	37	0	0	--	--	--	0.039	5	0	0	180	NA
SODIUM	37	37	100	2,320,000	13,000	17,000,000	0	0	--	--	NA	NA
THALLIUM	37	2	5	**3.5**	1J	**6**	0.018	**2.5**	1	2	2.4	2.0
VANADIUM	37	30	81	7.4	0.88J	46	0.24	10	0	0	260	NA
ZINC	37	19	51	4.3	0.49J	19J	1.4	20	0	0	11,000	NA

TABLE 6-13: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Basewide Groundwater Monitoring, 2002 and 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

--	Not detected
J	Estimated value
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
NA	No criteria available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or CAL-modified (2002)
µg/L	Micrograms per liter

TABLE 6-14: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Basewide Polynuclear Aromatic Hydrocarbon Investigation, 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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 (µg/kg)											
2-METHYLNAPHTHALENE	296	159	54	8	0.22J	300	5	100	--	--	NA
ACENAPHTHENE	296	95	32	14	0.23J	290	5	100	0	0	3,700,000
ACENAPHTHYLENE	292	154	53	13	0.19J	320 J	5	100	--	--	NA
ANTHRACENE	296	179	60	33	0.21J	2,300 J	5	100	0	0	22,000,000
BENZ(A)ANTHRACENE	296	239	81	79	0.15J	2,400 J	5	100	--	--	NA
BENZO(A)PYRENE	294	247	84	**100**	0.23J	**3,100 J**	5	**100**	52	11	62
BENZO(B)FLUORANTHENE	296	248	84	83	0.23J	**2,500**	5	100	7	0	620
BENZO(G,H,I)PERYLENE	293	263	90	81	0.28J	2,300 J	5	100	--	--	NA
BENZO(K)FLUORANTHENE	296	219	74	61	0.17J	**2,000 J**	5	110	9	0	380
CHRYSENE	295	249	84	110	0.19J	3,100 J	5	100	0	0	3,800
DIBENZ(A,H)ANTHRACENE	296	172	58	18	0.21J	360 J	5	100	--	--	NA
FLUORANTHENE	290	245	84	160	0.22J	6,700 J	5	100	0	0	2,300,000
FLUORENE	291	115	40	21	0.19J	600 J	5	100	0	0	2,700,000
INDENO(1,2,3-CD)PYRENE	286	231	81	78	0.29J	**1,800 J**	5	100	6	0	620
NAPHTHALENE	296	171	58	11	0.26J	320	5	100	0	0	56,000
PHENANTHRENE	296	237	80	100	0.22J	6,300 J	5	100	--	--	NA
PYRENE	296	255	86	190	0.2J	8,100 J	5	100	0	0	2,300,000

TABLE 6-14: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Basewide Polynuclear Aromatic Hydrocarbon Investigation, 2003

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

J	Estimated value
NA	No PRG available
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or Cal-modified (2002)
µg/kg	Micrograms per kilogram

TABLE 6-15: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
1,1,1,2-TETRACHLOROETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,1,1-TRICHLOROETHANE	6	0	0	--	--	--	4.9	9.1	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	6	0	0	--	--	--	4.9	9.1	0	0	410
1,1,2-TRICHLOROETHANE	6	0	0	--	--	--	4.9	9.1	0	0	730
1,1-DICHLOROETHANE	6	0	0	--	--	--	4.9	9.1	0	0	2,800
1,1-DICHLOROETHENE	6	0	0	--	--	--	4.9	9.1	0	0	120,000
1,1-DICHLOROPROPENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,2,3-TRICHLOROBENZENE	6	1	17	5	5J	5 J	4.9	9.1	--	--	NA
1,2,3-TRICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,2,4-TRICHLOROBENZENE	6	1	17	4	3.5J	3.5 J	4.9	9.1	0	0	650,000
1,2,4-TRIMETHYLBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	52,000
1,2-DIBROMO-3-CHLOROPROPANE	6	1	17	2	2.2J	2.2 J	4.9	9.1	--	--	NA
1,2-DICHLOROBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	370,000
1,2-DICHLOROETHANE	6	0	0	--	--	--	4.9	9.1	0	0	280
1,2-DICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	0	0	340
1,3,5-TRIMETHYLBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	21,000
1,3-DICHLOROBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	16,000
1,3-DICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,4-DICHLOROBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	3,400
2,2-DICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
2-BUTANONE	6	0	0	--	--	--	9.8	18	--	--	NA
2-CHLOROTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
2-HEXANONE	6	0	0	--	--	--	9.8	18	--	--	NA
4-CHLOROTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
4-METHYL-2-PENTANONE	6	0	0	--	--	--	9.8	18	--	--	NA
ACETONE	6	6	100	17	9.4J	25	0	0	0	0	1,600,000
BENZENE	6	0	0	--	--	--	4.9	9.1	0	0	600
BROMOBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
BROMOCHLOROMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
BROMODICHLOROMETHANE	6	0	0	--	--	--	4.9	9.1	0	0	820
BROMOFORM	6	0	0	--	--	--	4.9	9.1	0	0	62,000

TABLE 6-15: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
BROMOMETHANE	6	0	0	--	--	--	9.8	18	0	0	3,900
CARBON TETRACHLORIDE	6	0	0	--	--	--	4.9	9.1	0	0	250
CHLOROBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	150,000
CHLOROETHANE	6	0	0	--	--	--	9.8	18	0	0	3,000
CHLOROFORM	6	0	0	--	--	--	4.9	9.1	0	0	940
CHLOROMETHANE	6	0	0	--	--	--	9.8	18	0	0	1,200
CIS-1,2-DICHLOROETHENE	6	0	0	--	--	--	4.9	9.1	0	0	43,000
DIBROMOCHLOROMETHANE	6	0	0	--	--	--	4.9	9.1	0	0	1,100
DIBROMOMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
DICHLORODIFLUOROMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
ETHYLBENZENE	6	0	0	--	--	--	4.9	9.1	0	0	8,900
ETHYLENE DIBROMIDE	6	0	0	--	--	--	4.9	9.1	--	--	NA
HEXACHLOROBUTADIENE	6	0	0	--	--	--	4.9	9.1	0	0	6,200
ISOPROPYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
M,P-XYLENE	6	0	0	--	--	--	4.9	9.1	0	0	270,000
METHYL-T-BUTYL ETHER	6	0	0	--	--	--	4.9	9.1	0	0	17,000
METHYLENE CHLORIDE	6	6	100	12	9.7J	17 J	0	0	0	0	9,100
N-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
N-PROPYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
NAPHTHALENE	6	2	33	13	5.1J	21	4.9	9.1	0	0	56,000
O-XYLENE	6	0	0	--	--	--	4.9	9.1	0	0	270,000
P-ISOPROPYLTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
SEC-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
STYRENE	6	0	0	--	--	--	4.9	9.1	0	0	1,700,000
TERT-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
TETRACHLOROETHENE	6	0	0	--	--	--	4.9	9.1	0	0	1,500
TOLUENE	6	0	0	--	--	--	4.9	9.1	0	0	520,000
TRANS-1,2-DICHLOROETHENE	6	0	0	--	--	--	4.9	9.1	0	0	69,000
TRICHLOROETHENE	6	1	17	3	2.5J	2.5 J	4.9	9.1	0	0	53
TRICHLOROFLUOROMETHANE	6	0	0	--	--	--	4.9	9.1	0	0	390,000
VINYL CHLORIDE	6	0	0	--	--	--	9.8	18	0	0	79

TABLE 6-15: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	6	6	100	13,100	5,920	31,400	0	0	0	0	76,000
ANTIMONY	6	4	67	0.52	0.26	0.95	1.3	1.6	0	0	31.0
ARSENIC	6	6	100	**4.6**	**1.6**	**11.6**	0	0	6	0	0.39
BARIUM	6	6	100	79.1	48.3	142	0	0	0	0	5,400
BERYLLIUM	6	6	100	0.34	0.16	0.78	0	0	0	0	150
CADMIUM	6	6	100	0.33	0.11	0.94	0	0	0	0	37.0
CALCIUM	6	6	100	2,880	1,880	4,680	0	0	--	--	NA
CHROMIUM	6	6	100	52.3	34.1	100	0	0	0	0	210
COBALT	6	6	100	7.7	5.2	15.1	0	0	0	0	900
COPPER	6	6	100	21.5	6.4	67.1	0	0	0	0	3,100
IRON	6	6	100	19,100	10,500	**42,700**	0	0	2	0	23,000
LEAD	6	6	100	13.2	2.3	44	0	0	0	0	150
MAGNESIUM	6	6	100	5,070	2,390	12,600	0	0	--	--	NA
MANGANESE	6	6	100	204	103	464	0	0	0	0	1,800
MERCURY	6	5	83	0.55	0.01	1.6	0.03	0.03	0	0	23.0
MOLYBDENUM	6	6	100	0.37	0.15	0.97	0	0	0	0	390
NICKEL	6	6	100	51.5	31.1	98	0	0	0	0	1,600
POTASSIUM	6	6	100	1,900	756	4,810	0	0	--	--	NA
SELENIUM	6	0	0	--	--	--	1.3	2.5	0	0	390
SILVER	6	4	67	0.22	0.07	0.43	0.2	0.22	0	0	390
SODIUM	6	6	100	2,060	512	5,230	0	0	--	--	NA
THALLIUM	6	0	0	--	--	--	2	3.8	0	0	5.2
VANADIUM	6	6	100	38.3	22.2	82.4	0	0	0	0	550
ZINC	6	6	100	54.8	18	163	0	0	0	0	23,000

TABLE 6-15: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-16: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	29	0	0	--	--	--	**1**	**1**	0	29	0.4	NA
1,1,1-TRICHLOROETHANE	472	23	5	18,000	260	**120,000**	1	**5,000**	7	3	3,200	200
1,1,2,2-TETRACHLOROETHANE	29	0	0	--	--	--	**1**	**1**	0	29	0.06	1
1,1,2-TRICHLOROETHANE	472	9	2	**90**	**1.2**	**270**	**1**	**5,000**	9	463	0.2	5
1,1-DICHLOROETHANE	472	38	8	1,200	0.53J	**6,200**	1	**5,000**	33	411	2	5
1,1-DICHLOROETHENE	472	122	26	9,700	1.1	**190,000**	1	**5,000**	105	24	340	6
1,1-DICHLOROPROPENE	29	0	0	--	--	--	1	1	--	--	NA	NA
1,2,3-TRICHLOROBENZENE	29	0	0	--	--	--	1	1	--	--	NA	NA
1,2,3-TRICHLOROPROPANE	29	0	0	--	--	--	**1**	**1**	0	29	0.006	NA
1,2,4-TRICHLOROBENZENE	29	0	0	--	--	--	1	1	0	0	190	5
1,2,4-TRIMETHYLBENZENE	29	0	0	--	--	--	1	1	0	0	12	NA
1,2-DIBROMO-3-CHLOROPROPANE	29	0	0	--	--	--	**1**	**1**	0	29	0.002	0.2
1,2-DICHLOROBENZENE	29	4	14	58	8.8	110	1	1	0	0	370	600
1,2-DICHLOROETHANE	472	12	3	**250**	**1.9**	**800**	**1**	**5,000**	12	460	0.1	0.5
1,2-DICHLOROPROPANE	29	0	0	--	--	--	**1**	**1**	0	29	0.2	5
1,3,5-TRIMETHYLBENZENE	29	0	0	--	--	--	1	1	0	0	12	NA
1,3-DICHLOROBENZENE	29	0	0	--	--	--	1	1	0	0	6	NA
1,3-DICHLOROPROPANE	29	0	0	--	--	--	1	1	--	--	NA	NA
1,4-DICHLOROBENZENE	29	3	10	**4**	**2.3**	**6.4**	**1**	**1**	3	26	0.5	5
2,2-DICHLOROPROPANE	29	0	0	--	--	--	1	1	--	--	NA	NA
2-BUTANONE	29	7	24	2	0.73J	2.9J	5	5	--	--	NA	NA
2-CHLOROTOLUENE	29	0	0	--	--	--	1	1	--	--	NA	NA
2-HEXANONE	29	0	0	--	--	--	5	5	--	--	NA	NA
4-CHLOROTOLUENE	29	0	0	--	--	--	1	1	--	--	NA	NA
4-METHYL-2-PENTANONE	29	0	0	--	--	--	5	5	--	--	NA	NA
ACETONE	29	10	34	8	2.8J	14	5	5	0	0	610	NA
BENZENE	29	1	3	**0.5**	**0.51J**	**0.51J**	**1**	**1**	1	28	0.3	1
BROMOBENZENE	29	0	0	--	--	--	1	1	0	0	20	NA
BROMOCHLOROMETHANE	29	0	0	--	--	--	1	1	--	--	NA	NA
BROMODICHLOROMETHANE	29	0	0	--	--	--	**1**	**1**	0	29	0.2	80
BROMOFORM	29	0	0	--	--	--	1	1	0	0	9	80

TABLE 6-16: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	29	0	0	--	--	--	1	1	0	0	9	NA
CARBON TETRACHLORIDE	29	0	0	--	--	--	1	1	0	29	0.2	0.5
CHLOROBENZENE	29	3	10	1	0.89J	1.2	1	1	0	0	110	70
CHLOROETHANE	29	0	0	--	--	--	1	1	0	0	5	NA
CHLOROFORM	29	4	14	0.9	0.51J	1.1	1	1	3	25	0.5	80
CHLOROMETHANE	29	0	0	--	--	--	1	1	0	0	2	NA
CIS-1,2-DICHLOROETHENE	472	76	16	2,100	2	19,000	1	5,000	69	369	61	6
DIBROMOCHLOROMETHANE	29	0	0	--	--	--	1	1	0	29	0.1	80
DIBROMOMETHANE	29	0	0	--	--	--	1	1	--	--	NA	NA
DICHLORODIFLUOROMETHANE	29	0	0	--	--	--	1	1	0	0	390	NA
ETHYLBENZENE	29	0	0	--	--	--	1	1	0	0	3	300
ETHYLENE DIBROMIDE	29	0	0	--	--	--	1	1	--	--	NA	0.05
HEXACHLOROBUTADIENE	29	0	0	--	--	--	1	1	0	29	0.9	NA
ISOPROPYLBENZENE	29	0	0	--	--	--	1	1	--	--	NA	NA
M,P-XYLENE	29	0	0	--	--	--	1	1	0	0	210	NA
METHYL-T-BUTYL ETHER	29	0	0	--	--	--	1	1	0	0	6	13
METHYLENE CHLORIDE	29	20	69	1	0.64J	2.9	1	1	0	0	4	NA
N-BUTYLBENZENE	29	0	0	--	--	--	1	1	--	--	NA	NA
N-PROPYLBENZENE	29	0	0	--	--	--	1	1	0	0	240	NA
NAPHTHALENE	29	3	10	0.6	0.52J	0.61J	1	1	0	0	6	NA
O-XYLENE	29	0	0	--	--	--	1	1	0	0	210	NA
P-ISOPROPYLTOLUENE	29	0	0	--	--	--	1	1	--	--	NA	NA
SEC-BUTYLBENZENE	29	0	0	--	--	--	1	1	0	0	240	NA
STYRENE	29	0	0	--	--	--	1	1	0	0	1,600	100
TERT-BUTYLBENZENE	29	0	0	--	--	--	1	1	0	0	240	NA
TETRACHLOROETHENE	472	3	1	1	0.71J	1.6	1	5,000	3	469	0.7	5
TOLUENE	29	2	7	0.6	0.52J	0.62J	1	1	0	0	720	150
TRANS-1,2-DICHLOROETHENE	472	18	4	330	0.6J	1,400	1	5,000	11	389	120	10
TRICHLOROETHENE	472	176	37	7,600	0.63J	200,000	1	5,000	176	296	0.03	5
TRICHLOROFLUOROMETHANE	29	0	0	--	--	--	1	1	--	--	NA	NA
VINYL CHLORIDE	472	29	6	860	0.51J	7,800	1	5,000	29	443	0.02	0.5

TABLE 6-16: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

Pilot Studies, 2002

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/L	Micrograms per liter

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	50	1	2	20	20	20	2	2,000	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	33	3	9	260	90 J	**600 J**	6	120	1	0	410
1,1,2-TRICHLOROETHANE	31	0	0	--	--	--	6	**1,300**	0	1	730
1,1-DICHLOROETHANE	31	0	0	--	--	--	6	1,300	0	0	2,800
1,1-DICHLOROETHENE	50	1	2	1,400	1,400	1,400	2	2,000	0	0	120,000
1,2-DICHLOROETHANE	50	0	0	--	--	--	2	**2,000**	0	2	280
1,2-DICHLOROETHENE (TOTAL)	30	5	17	950	2 J	4,700	10	1,300	0	0	43,000
1,2-DICHLOROPROPANE	31	0	0	--	--	--	6	**1,300**	0	1	340
2-BUTANONE	50	0	0	--	--	--	8	2,000	--	--	NA
2-HEXANONE	31	0	0	--	--	--	6	1,300	--	--	NA
4-METHYL-2-PENTANONE	31	0	0	--	--	--	10	1,300	--	--	NA
ACETONE	31	10	32	470	3 J	4,500 J	11	120	0	0	1,600,000
BENZENE	50	4	8	1,300	1 J	**4,800**	2	**2,000**	1	1	600
BROMODICHLOROMETHANE	31	0	0	--	--	--	6	**1,300**	0	1	820
BROMOFORM	31	0	0	--	--	--	6	1,300	0	0	62,000
BROMOMETHANE	31	0	0	--	--	--	10	1,300	0	0	3,900
CARBON DISULFIDE	31	1	3	3	3 J	3 J	6	1,300	0	0	360,000
CARBON TETRACHLORIDE	31	0	0	--	--	--	6	**1,300**	0	1	250
CHLOROBENZENE	31	1	3	2	2 J	2 J	6	1,300	0	0	150,000
CHLOROETHANE	31	0	0	--	--	--	10	1,300	0	0	3,000
CHLOROFORM	31	0	0	--	--	--	6	**1,300**	0	1	940
CHLOROMETHANE	31	0	0	--	--	--	10	**1,300**	0	1	1,200
CIS-1,2-DICHLOROETHENE	20	2	10	3,800	260	7,400	2	200	0	0	43,000
CIS-1,3-DICHLOROPROPENE	31	0	0	--	--	--	6	**1,300**	0	1	780
DIBROMOCHLOROMETHANE	31	0	0	--	--	--	6	**1,300**	0	1	1,100
ETHYLBENZENE	50	3	6	3,300	370	8,100	2	200	0	0	8,900
HEXANE	20	0	0	--	--	--	6	2,000	0	0	110,000
M,P-XYLENE	19	2	11	5,100	950	9,300	2	400	0	0	270,000
METHYLENE CHLORIDE	50	5	10	420	1 J	2,100 J	10	2,000	0	0	9,100
O-XYLENE	20	2	10	2,800	950	4,700	2	200	0	0	270,000
STYRENE	31	0	0	--	--	--	6	1,300	0	0	1,700,000

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	50	0	0	--	--	--	2	**2,000**	0	1	1,500
TOLUENE	50	1	2	570	570	570	2	2,000	0	0	520,000
TRANS-1,2-DICHLOROETHENE	20	0	0	--	--	--	2	2,000	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	31	0	0	--	--	--	6	**1,300**	0	1	780
TRICHLOROETHENE	50	7	14	**920**	2J	**6,300**	2	**2,000**	2	4	53
TRICHLOROFLUOROMETHANE	1	0	0	--	--	--	6	6	0	0	390,000
VINYL ACETATE	1	0	0	--	--	--	56	56	0	0	430,000
VINYL CHLORIDE	50	1	2	**290**	**290**	**290**	2	**2,000**	1	4	79
XYLENE (TOTAL)	31	0	0	--	--	--	6	1,300	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	39	0	0	--	--	--	330	5,900	0	0	650,000
1,2-DICHLOROBENZENE	39	1	3	4,000	4,000J	4,000 J	330	2,000	0	0	370,000
1,3-DICHLOROBENZENE	39	0	0	--	--	--	330	5,900	0	0	16,000
1,4-DICHLOROBENZENE	39	1	3	810	810J	810 J	330	2,000	0	0	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	39	0	0	--	--	--	330	5,900	--	--	NA
2,4,5-TRICHLOROPHENOL	39	0	0	--	--	--	810	14,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	39	0	0	--	--	--	330	5,900	0	0	6,900
2,4-DICHLOROPHENOL	39	0	0	--	--	--	330	5,900	0	0	180,000
2,4-DIMETHYLPHENOL	39	0	0	--	--	--	330	5,900	0	0	1,200,000
2,4-DINITROPHENOL	39	0	0	--	--	--	810	14,000	0	0	120,000
2,4-DINITROTOLUENE	39	0	0	--	--	--	330	5,900	0	0	120,000
2,6-DINITROTOLUENE	39	0	0	--	--	--	330	5,900	0	0	61,000
2-CHLORONAPHTHALENE	39	0	0	--	--	--	330	5,900	--	--	NA
2-CHLOROPHENOL	39	0	0	--	--	--	330	5,900	0	0	63,000
2-METHYLPHENOL	39	0	0	--	--	--	330	5,900	--	--	NA
2-NITROANILINE	39	0	0	--	--	--	810	**14,000**	0	7	1,700
2-NITROPHENOL	39	0	0	--	--	--	330	5,900	--	--	NA
3,3'-DICHLOROBENZIDINE	39	0	0	--	--	--	330	**5,900**	0	4	1,100
3-NITROANILINE	39	0	0	--	--	--	810	14,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	39	0	0	--	--	--	810	14,000	--	--	NA

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	39	0	0	--	--	--	330	5,900	--	--	NA
4-CHLORO-3-METHYLPHENOL	39	0	0	--	--	--	330	5,900	--	--	NA
4-CHLOROANILINE	39	0	0	--	--	--	330	5,900	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	39	0	0	--	--	--	330	5,900	--	--	NA
4-METHYLPHENOL	39	0	0	--	--	--	330	5,900	0	0	310,000
4-NITROANILINE	39	0	0	--	--	--	810	14,000	--	--	NA
4-NITROPHENOL	39	0	0	--	--	--	810	14,000	--	--	NA
BIS(2-CHLOROETHOXY)METHANE	39	0	0	--	--	--	330	5,900	--	--	NA
BIS(2-CHLOROETHYL)ETHER	39	0	0	--	--	--	**330**	**5,900**	0	39	210
BIS(2-ETHYLHEXYL)PHTHALATE	39	14	36	82	20 J	480 J	330	2,000	0	0	35,000
BUTYLBENZYLPHTHALATE	39	3	8	40	28 J	47 J	330	5,900	0	0	12,000,000
CARBAZOLE	39	4	10	110	37 J	310 J	330	2,000	0	0	24,000
DI-N-BUTYLPHTHALATE	39	11	28	85	24 J	230 J	330	5,900	--	--	NA
DI-N-OCTYLPHTHALATE	39	1	3	21	21 J	21 J	350	5,900	--	--	NA
DIBENZOFURAN	39	3	8	90	31 J	130 J	330	5,900	0	0	290,000
DIETHYLPHTHALATE	39	5	13	68	20 J	250 J	330	5,900	0	0	49,000,000
DIMETHYLPHTHALATE	39	0	0	--	--	--	330	5,900	0	0	100,000,000
HEXACHLOROBENZENE	39	0	0	--	--	--	**330**	**5,900**	0	39	300
HEXACHLOROBUTADIENE	39	0	0	--	--	--	330	5,900	0	0	6,200
HEXACHLOROCYCLOPENTADIENE	39	0	0	--	--	--	330	5,900	0	0	370,000
HEXACHLOROETHANE	39	0	0	--	--	--	330	5,900	0	0	35,000
ISOPHORONE	39	0	0	--	--	--	330	5,900	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	39	0	0	--	--	--	**330**	**5,900**	0	39	69
N-NITROSODIPHENYLAMINE	39	0	0	--	--	--	330	5,900	0	0	99,000
NITROBENZENE	39	0	0	--	--	--	330	5,900	0	0	20,000
PENTACHLOROPHENOL	36	0	0	--	--	--	810	**14,000**	0	3	3,000
PHENOL	39	0	0	--	--	--	330	5,900	0	0	37,000,000
PCBs/Pesticides (µg/kg)											
4,4'-DDD	18	4	22	6	1.5 J	9.3 J	3.4	4.1	0	0	2,400
4,4'-DDE	18	5	28	9	1 J	15 J	3.4	4.1	0	0	1,700

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
4,4'-DDT	18	5	28	17	5.4J	32 J	3.4	4.1	0	0	1,700
ALDRIN	18	0	0	--	--	--	1.8	3.8	0	0	29
ALPHA-BHC	18	0	0	--	--	--	1.8	3.8	--	--	NA
ALPHA-CHLORDANE	18	3	17	6	2.4J	11 J	1.8	3.8	0	0	1,600
AROCLOR-1016	32	0	0	--	--	--	20	200	0	0	3,900
AROCLOR-1221	32	0	0	--	--	--	20	**400**	0	1	220
AROCLOR-1232	32	0	0	--	--	--	20	200	0	0	220
AROCLOR-1242	32	0	0	--	--	--	20	200	0	0	220
AROCLOR-1248	32	0	0	--	--	--	20	200	0	0	220
AROCLOR-1254	32	2	6	**660**	29J	**1,300 J**	20	73	1	0	220
AROCLOR-1260	32	4	13	28	17J	38	20	200	0	0	220
BETA-BHC	18	0	0	--	--	--	1.8	3.8	--	--	NA
DELTA-BHC	18	0	0	--	--	--	1.8	3.8	--	--	NA
DIELDRIN	18	0	0	--	--	--	3.4	7.3	0	0	30
ENDOSULFAN I	18	0	0	--	--	--	1.8	3.8	0	0	370,000
ENDOSULFAN II	18	0	0	--	--	--	3.4	7.3	0	0	370,000
ENDOSULFAN SULFATE	18	0	0	--	--	--	3.4	7.3	--	--	NA
ENDRIN	18	0	0	--	--	--	3.4	7.3	0	0	18,000
ENDRIN ALDEHYDE	18	0	0	--	--	--	3.4	7.3	--	--	NA
ENDRIN KETONE	18	1	6	16	16J	16 J	3.5	7.3	--	--	NA
GAMMA-BHC (LINDANE)	18	0	0	--	--	--	1.8	3.8	--	--	NA
GAMMA-CHLORDANE	18	3	17	5	2.9J	8.6 J	1.8	3.8	0	0	1,600
HEPTACHLOR	18	0	0	--	--	--	1.8	3.8	0	0	110
HEPTACHLOR EPOXIDE	18	0	0	--	--	--	1.8	3.8	0	0	53
METHOXYCHLOR	18	1	6	83	83J	83 J	18	38	0	0	310,000
TOXAPHENE	18	0	0	--	--	--	180	380	0	0	440
Total Petroleum Hydrocarbons (mg/kg)											
DIESEL RANGE ORGANICS	92	17	18	660	6	8,400 J	1	210	--	--	NA
GASOLINE RANGE ORGANICS	92	9	10	760	0.62J	4,800	0.5	50	--	--	NA
MOTOR OIL RANGE ORGANICS	70	49	70	1,700	32J	28,000	22	480	--	--	NA

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	22	22	100	5,660	3,770	9,490 J	0	0	0	0	76,000
ANTIMONY	49	2	4	0.80	0.78J	0.81 J	0.57	25	0	0	31.0
ARSENIC	25	17	68	**2.4**	**0.8J**	**6.9**	**0.88**	**4**	17	8	0.39
BARIUM	22	20	91	61.0	26.8	106	30	33.3	0	0	5,400
BERYLLIUM	49	4	8	1.7	0.31	2.9	0.15	25	0	0	150
CADMIUM	49	7	14	0.12	0.06J	0.21 J	0.066	25	0	0	37.0
CALCIUM	22	22	100	4,860	2,100J	12,100 J	0	0	--	--	NA
CHROMIUM	53	26	49	31.1	25	39.3	25	28.5	0	0	210
COBALT	22	22	100	5.8	3.3	15.3	0	0	0	0	900
COPPER	49	21	43	51.9	6.6J	132 J	7.6	25	0	0	3,100
IRON	22	22	100	10,200	6,800J	22,600 J	0	0	0	0	23,000
LEAD	54	29	54	18.8	1.8	56	2.3	25	0	0	150
MAGNESIUM	22	22	100	2,520	1,820	4,520	0	0	--	--	NA
MANGANESE	22	22	100	150	92.6	295 J	0	0	0	0	1,800
MERCURY	49	3	6	0.13	0.08J	0.17	0.05	**25**	0	27	23.0
MOLYBDENUM	22	0	0	--	--	--	1.5	3	0	0	390
NICKEL	49	47	96	33.7	18.4	67	25	25	0	0	1,600
POTASSIUM	22	22	100	745	488	1,420	0	0	--	--	NA
SELENIUM	22	6	27	0.78	0.6	1	0.54	1.2	0	0	390
SILVER	49	2	4	0.54	0.45	0.62	0.19	25	0	0	390
SODIUM	22	14	64	353	98.3	923	116	190	--	--	NA
THALLIUM	22	7	32	1.5	0.12	2.7	0.1	4.4	0	0	5.2
VANADIUM	22	17	77	22.6	17.6	37.6	21.1	22	0	0	550
ZINC	49	41	84	44.9	17.2	101	25	25	0	0	23,000

TABLE 6-17: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

Environmental Baseline Survey

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	13	0	0	--	--	--	10	2,400	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	13	0	0	--	--	--	10	**2,400**	0	2	410
1,1,2-TRICHLOROETHANE	13	0	0	--	--	--	10	**2,400**	0	2	730
1,1-DICHLOROETHANE	13	0	0	--	--	--	10	2,400	0	0	2,800
1,1-DICHLOROETHENE	13	0	0	--	--	--	10	2,400	0	0	120,000
1,2,4-TRIMETHYLBENZENE	3	0	0	--	--	--	10	10	0	0	52,000
1,2-DICHLOROETHANE	13	0	0	--	--	--	10	**2,400**	0	2	280
1,2-DICHLOROETHENE (TOTAL)	10	0	0	--	--	--	11	2,400	0	0	43,000
1,2-DICHLOROPROPANE	13	0	0	--	--	--	10	**2,400**	0	2	340
1,3,5-TRIMETHYLBENZENE	3	0	0	--	--	--	10	10	0	0	21,000
2-BUTANONE	10	0	0	--	--	--	11	2,400	--	--	NA
2-HEXANONE	10	1	10	6,600	6,600 J	6,600 J	2	1,400	--	--	NA
4-METHYL-2-PENTANONE	10	2	20	9,500	5 J	19,000	11	1,400	--	--	NA
ACETONE	10	0	0	--	--	--	11	2,400	0	0	1,600,000
BENZENE	40	5	13	1,900	36	**5,800**	0.54	**13,000**	3	5	600
BROMODICHLOROMETHANE	13	0	0	--	--	--	10	**2,400**	0	2	820
BROMOFORM	13	0	0	--	--	--	10	2,400	0	0	62,000
BROMOMETHANE	13	0	0	--	--	--	10	2,400	0	0	3,900
CARBON DISULFIDE	10	0	0	--	--	--	11	2,400	0	0	360,000
CARBON TETRACHLORIDE	13	0	0	--	--	--	10	**2,400**	0	2	250
CHLOROBENZENE	13	0	0	--	--	--	10	2,400	0	0	150,000
CHLOROETHANE	13	0	0	--	--	--	10	2,400	0	0	3,000
CHLOROFORM	13	0	0	--	--	--	10	**2,400**	0	2	940
CHLOROMETHANE	13	0	0	--	--	--	10	**2,400**	0	2	1,200
CIS-1,2-DICHLOROETHENE	3	0	0	--	--	--	10	10	0	0	43,000
CIS-1,3-DICHLOROPROPENE	13	0	0	--	--	--	10	**2,400**	0	2	780
DIBROMOCHLOROMETHANE	13	0	0	--	--	--	10	**2,400**	0	2	1,100
ETHYLBENZENE	40	10	25	3,000	10	**17,000**	0.54	**13,000**	1	2	8,900
METHYL-T-BUTYL ETHER	21	0	0	--	--	--	10	5,000	0	0	17,000
METHYLENE CHLORIDE	13	0	0	--	--	--	10	2,400	0	0	9,100
STYRENE	13	0	0	--	--	--	10	2,400	0	0	1,700,000

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	13	0	0	--	--	--	10	**2,400**	0	1	1,500
TOLUENE	40	9	23	3,200	0.8J	26,000	1	13,000	0	0	520,000
TRANS-1,2-DICHLOROETHENE	3	0	0	--	--	--	10	10	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	13	0	0	--	--	--	10	**2,400**	0	2	780
TRICHLOROETHENE	13	0	0	--	--	--	10	**2,400**	0	2	53
VINYL CHLORIDE	13	0	0	--	--	--	10	**2,400**	0	2	79
XYLENE (TOTAL)	40	11	28	16,000	3J	110,000	1.1	13,000	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	10	0	0	--	--	--	35	8,000	0	0	650,000
1,2-DICHLOROBENZENE	10	0	0	--	--	--	17	3,900	0	0	370,000
1,3-DICHLOROBENZENE	10	0	0	--	--	--	17	3,900	0	0	16,000
1,4-DICHLOROBENZENE	10	0	0	--	--	--	17	**3,900**	0	1	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	10	0	0	--	--	--	35	8,000	--	--	NA
2,4,5-TRICHLOROPHENOL	10	0	0	--	--	--	85	19,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	10	0	0	--	--	--	35	**8,000**	0	1	6,900
2,4-DICHLOROPHENOL	10	0	0	--	--	--	35	8,000	0	0	180,000
2,4-DIMETHYLPHENOL	10	0	0	--	--	--	35	8,000	0	0	1,200,000
2,4-DINITROPHENOL	3	0	0	--	--	--	190	19,000	0	0	120,000
2,4-DINITROTOLUENE	10	1	10	60	60J	60 J	35	8,000	0	0	120,000
2,6-DINITROTOLUENE	10	0	0	--	--	--	35	8,000	0	0	61,000
2-CHLORONAPHTHALENE	10	0	0	--	--	--	35	8,000	--	--	NA
2-CHLOROPHENOL	10	0	0	--	--	--	35	8,000	0	0	63,000
2-METHYLPHENOL	10	0	0	--	--	--	35	8,000	--	--	NA
2-NITROANILINE	10	0	0	--	--	--	85	**19,000**	0	4	1,700
2-NITROPHENOL	10	0	0	--	--	--	35	8,000	--	--	NA
3,3'-DICHLOROBENZIDINE	10	1	10	890	890J	890 J	35	**2,000**	0	2	1,100
3-NITROANILINE	10	0	0	--	--	--	85	19,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	7	0	0	--	--	--	85	19,000	--	--	NA
4-BROMOPHENYL-PHENYLETHER	10	0	0	--	--	--	35	8,000	--	--	NA
4-CHLORO-3-METHYLPHENOL	10	0	0	--	--	--	35	8,000	--	--	NA

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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-CHLOROANILINE	10	0	0	--	--	--	35	8,000	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	10	0	0	--	--	--	35	8,000	--	--	NA
4-METHYLPHENOL	10	0	0	--	--	--	35	8,000	0	0	310,000
4-NITROANILINE	10	0	0	--	--	--	85	19,000	--	--	NA
4-NITROPHENOL	10	0	0	--	--	--	85	19,000	--	--	NA
BIS(2-CHLOROETHOXY)METHANE	10	0	0	--	--	--	35	8,000	--	--	NA
BIS(2-CHLOROETHYL)ETHER	10	0	0	--	--	--	35	**8,000**	0	6	210
BIS(2-ETHYLHEXYL)PHTHALATE	10	0	0	--	--	--	14	3,100	0	0	35,000
BUTYLBENZYLPHTHALATE	10	0	0	--	--	--	35	8,000	0	0	12,000,000
CARBAZOLE	10	2	20	2,500	55 J	4,900 J	35	8,000	0	0	24,000
DI-N-BUTYLPHTHALATE	10	0	0	--	--	--	35	8,000	--	--	NA
DI-N-OCTYLPHTHALATE	10	0	0	--	--	--	35	8,000	--	--	NA
DIBENZOFURAN	10	3	30	640	21 J	1,800	35	8,000	0	0	290,000
DIETHYLPHTHALATE	10	0	0	--	--	--	35	8,000	0	0	49,000,000
DIMETHYLPHTHALATE	10	0	0	--	--	--	35	8,000	0	0	100,000,000
HEXACHLOROBENZENE	10	0	0	--	--	--	35	**8,000**	0	6	300
HEXACHLOROBUTADIENE	10	0	0	--	--	--	35	**8,000**	0	1	6,200
HEXACHLOROCYCLOPENTADIENE	10	0	0	--	--	--	35	8,000	0	0	370,000
HEXACHLOROETHANE	10	0	0	--	--	--	35	8,000	0	0	35,000
ISOPHORONE	10	0	0	--	--	--	35	8,000	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	10	0	0	--	--	--	35	**8,000**	0	9	69
N-NITROSODIPHENYLAMINE	10	0	0	--	--	--	35	8,000	0	0	99,000
NITROBENZENE	10	0	0	--	--	--	35	8,000	0	0	20,000
PENTACHLOROPHENOL	10	0	0	--	--	--	85	**19,000**	0	3	3,000
PHENOL	10	0	0	--	--	--	35	8,000	0	0	37,000,000
Polynuclear Aromatic Hydrocarbons (µg/kg)											
BENZO(B)FLUORANTHENE	1	1	100	120,000	**120,000**	**120,000**	0	0	1	0	620
CHRYSENE	1	1	100	130,000	**130,000**	**130,000**	0	0	1	0	3,800
PYRENE	1	1	100	100,000	100,000	100,000	0	0	0	0	2,300,000

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
4,4'-DDD	3	1	33	3	2.5J	2.5 J	3.9	20	0	0	2,400
4,4'-DDE	3	0	0	--	--	--	3.9	20	0	0	1,700
4,4'-DDT	3	1	33	3	3.2J	3.2 J	3.9	20	0	0	1,700
ALDRIN	3	0	0	--	--	--	2	10	0	0	29
ALPHA-BHC	3	1	33	1	1J	1 J	2	2.1	--	--	NA
ALPHA-CHLORDANE	3	0	0	--	--	--	2	10	0	0	1,600
AROCLOR-1016	3	0	0	--	--	--	20	200	0	0	3,900
AROCLOR-1221	3	0	0	--	--	--	20	**400**	0	1	220
AROCLOR-1232	3	0	0	--	--	--	20	200	0	0	220
AROCLOR-1242	3	0	0	--	--	--	20	200	0	0	220
AROCLOR-1248	3	0	0	--	--	--	20	200	0	0	220
AROCLOR-1254	3	0	0	--	--	--	20	200	0	0	220
AROCLOR-1260	3	0	0	--	--	--	20	200	0	0	220
BETA-BHC	3	1	33	4	3.5J	3.5 J	2	2.1	--	--	NA
DELTA-BHC	3	0	0	--	--	--	2	10	--	--	NA
DIELDRIN	3	1	33	2	1.7J	1.7 J	3.9	4	0	0	30
ENDOSULFAN I	3	0	0	--	--	--	2	10	0	0	370,000
ENDOSULFAN II	3	0	0	--	--	--	3.9	20	0	0	370,000
ENDOSULFAN SULFATE	3	0	0	--	--	--	3.9	20	--	--	NA
ENDRIN	3	0	0	--	--	--	3.9	20	0	0	18,000
ENDRIN ALDEHYDE	3	0	0	--	--	--	3.9	20	--	--	NA
ENDRIN KETONE	3	0	0	--	--	--	3.9	20	--	--	NA
GAMMA-BHC (LINDANE)	3	0	0	--	--	--	2	10	--	--	NA
GAMMA-CHLORDANE	3	0	0	--	--	--	2	10	0	0	1,600
HEPTACHLOR	3	0	0	--	--	--	0.37	10	0	0	110
HEPTACHLOR EPOXIDE	3	2	67	6	2.6J	9.1	2	2	0	0	53
METHOXYCHLOR	3	1	33	6	6J	6 J	20	21	0	0	310,000
TOXAPHENE	3	0	0	--	--	--	100	**1,000**	0	1	440
Total Petroleum Hydrocarbons (mg/kg)											
DIESEL RANGE ORGANICS	40	15	38	1,500	3	11,590	1	590	--	--	NA

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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
Total Petroleum Hydrocarbons (mg/kg)											
GASOLINE RANGE ORGANICS	40	16	40	740	0.1J	7,100	0.2	10	--	--	NA
JET FUEL	19	8	42	1,700	1.1	5,400	1	50	--	--	NA
JP5 RANGE ORGANICS	14	1	7	6,300	6,300	6,300	10	190	--	--	NA
MOTOR OIL RANGE ORGANICS	30	13	43	450	25	1,600 J	10	8,000	--	--	NA
Metals (mg/kg)											
ALUMINUM	10	9	90	5,750	3,430	9,300	4,820	4,820	0	0	76,000
ANTIMONY	10	3	30	0.56	0.43J	0.76 J	0.4	0.51	0	0	31.0
ARSENIC	10	9	90	**5.8**	**1.2**	**18.8**	**2.9**	**2.9**	9	1	0.39
BARIUM	10	9	90	198	24.9J	507	54.1	54.1	0	0	5,400
BERYLLIUM	10	3	30	0.11	0.041J	0.17 J	0.025	0.054	0	0	150
CADMIUM	8	3	38	0.31	0.14J	0.53 J	0.042	0.46	0	0	37.0
CALCIUM	10	9	90	64,900	2,020	269,000	4,610	4,610	--	--	NA
CHROMIUM	10	9	90	22.7	6.5	32.6 J	27.4	27.4	0	0	210
COBALT	10	9	90	5.4	2.5J	9.2 J	5.5	5.5	0	0	900
COPPER	10	9	90	16.2	8.5	29.2	11.4	11.4	0	0	3,100
IRON	10	9	90	11,500	7,130	**28,500**	9,170	9,170	1	0	23,000
LEAD	14	13	93	**273**	3.3	**2,900**	10.2	10.2	2	0	150
MAGNESIUM	10	9	90	5,290	2,100	11,700	2,690	2,690	--	--	NA
MANGANESE	10	9	90	262	97J	623	116	116	0	0	1,800
MERCURY	10	4	40	0.24	0.15	0.31	0.05	0.16	0	0	23.0
MOLYBDENUM	10	1	10	0.65	0.65J	0.65 J	0.11	0.27	0	0	390
NICKEL	10	9	90	21.6	7.8	37.5	28.7	28.7	0	0	1,600
POTASSIUM	10	9	90	678	479J	838 J	585	585	--	--	NA
SELENIUM	10	1	10	0.59	0.59J	0.59 J	0.2	0.53	0	0	390
SILVER	10	0	0	--	--	--	0.059	0.13	0	0	390
SODIUM	10	3	30	1,200	44.5J	1,930	24.9	210	--	--	NA
THALLIUM	10	1	10	3.5	3.5	3.5	0.3	0.48	0	0	5.2
VANADIUM	10	9	90	22.3	12.1	37.8	18	18	0	0	550
ZINC	10	9	90	51.1	19.6	85.1	24.6	24.6	0	0	23,000

TABLE 6-18: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	9	1	11	0.6	0.64	0.64	1	2	0	0	3,200	200
1,1,2,2-TETRACHLOROETHANE	8	0	0	--	--	--	**1**	**2**	0	8	0.06	1
1,1,2-TRICHLOROETHANE	8	0	0	--	--	--	**1**	**2**	0	8	0.2	5
1,1-DICHLOROETHANE	10	2	20	**14**	1.3	**26**	1	2	1	0	2	5
1,1-DICHLOROETHENE	9	1	11	3	2.8	2.8	1	2	0	0	340	6
1,2,4-TRIMETHYLBENZENE	6	1	17	0.6	0.6J	0.6J	1	1	0	0	12	NA
1,2-DICHLOROBENZENE	1	1	100	13	13	13	0	0	0	0	370	600
1,2-DICHLOROETHANE	8	0	0	--	--	--	**0.5**	**1**	0	8	0.1	0.5
1,2-DICHLOROETHENE (TOTAL)	3	2	67	**65**	0.6J	**130**	2	2	1	0	61	NA
1,2-DICHLOROPROPANE	8	0	0	--	--	--	**1**	**2**	0	8	0.2	5
1,3,5-TRIMETHYLBENZENE	6	0	0	--	--	--	1	1	0	0	12	NA
1,4-DICHLOROETHENE	1	1	100	3	3.4	3.4	0	0	--	--	NA	NA
2-BUTANONE	2	0	0	--	--	--	2	2	--	--	NA	NA
2-HEXANONE	2	0	0	--	--	--	2	2	--	--	NA	NA
4-METHYL-2-PENTANONE	2	0	0	--	--	--	2	2	--	--	NA	NA
ACETONE	2	0	0	--	--	--	2	4	0	0	610	NA
BENZENE	48	19	40	**600**	**0.51**	**3,000**	**0.5**	**10**	19	29	0.3	1
BROMODICHLOROMETHANE	8	1	13	**2**	**1.6**	**1.6**	**1**	**2**	1	7	0.2	80
BROMOFORM	8	0	0	--	--	--	1	2	0	0	9	80
BROMOMETHANE	8	0	0	--	--	--	2	5	0	0	9	NA
CARBON DISULFIDE	2	0	0	--	--	--	2	2	0	0	1,000	NA
CARBON TETRACHLORIDE	8	0	0	--	--	--	**0.5**	**1**	0	8	0.2	0.5
CHLOROBENZENE	12	4	33	3	0.76	8.4	1	2	0	0	110	70
CHLOROETHANE	8	0	0	--	--	--	2	**5**	0	6	5	NA
CHLOROFORM	8	1	13	**34**	**34**	**34**	**1**	**2**	1	7	0.5	80
CHLOROMETHANE	8	0	0	--	--	--	**2**	**5**	0	8	2	NA
CIS-1,2-DICHLOROETHENE	14	8	57	8	0.84	18	1	1	0	0	61	6
CIS-1,3-DICHLOROPROPENE	8	0	0	--	--	--	**1**	**2**	0	8	0.4	0.5
DIBROMOCHLOROMETHANE	8	0	0	--	--	--	**1**	**2**	0	8	0.1	80
DICHLOROETHENE	4	4	100	2	0.64	2.9	0	0	--	--	NA	NA
ETHYLBENZENE	48	16	33	**370**	0.5	**3,364**	0.5	**10**	10	2	3	300

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH 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
Volatile Organic Compounds (µg/L)												
M,P-XYLENE	6	1	17	0.5	0.5J	0.5J	1	1	0	0	210	NA
METHYL-T-BUTYL ETHER	24	3	13	**24**	**7.4**	**46**	2	**120**	3	3	6	13
METHYLENE CHLORIDE	8	0	0	--	--	--	2	2.3	0	0	4	NA
O-XYLENE	6	0	0	--	--	--	1	1	0	0	210	NA
STYRENE	8	0	0	--	--	--	1	2	0	0	1,600	100
TETRACHLOROETHENE	11	3	27	**0.7**	0.61	**0.75**	**1**	**2**	1	8	0.7	5
TOLUENE	48	10	21	120	0.5	**794.2**	0.5	12	1	0	720	150
TRANS-1,2-DICHLOROETHENE	10	4	40	5	1.6	12	1	1	0	0	120	10
TRANS-1,3-DICHLOROPROPENE	8	0	0	--	--	--	**0.5**	**1**	0	8	0.4	0.5
TRICHLOROETHENE	13	5	38	**29**	**0.9**	**80**	**1**	**2**	5	8	0.03	5
VINYL CHLORIDE	10	2	20	**6**	**5.6**	**7.3**	**0.5**	**0.5**	2	8	0.02	0.5
XYLENE (TOTAL)	42	17	40	1,700	1.5	**18,707**	0.5	10	7	0	210	1,800
Semivolatile Organic Compounds (µg/L)												
1,2,4-TRICHLOROBENZENE	2	0	0	--	--	--	4	**1,000,000**	0	1	190	5
1,2-DICHLOROBENZENE	2	0	0	--	--	--	4	**1,000,000**	0	1	370	600
1,3-DICHLOROBENZENE	2	0	0	--	--	--	4	**1,000,000**	0	1	6	NA
1,4-DICHLOROBENZENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.5	5
2,2'-OXYBIS(1-CHLOROPROPANE)	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
2,4,5-TRICHLOROPHENOL	2	0	0	--	--	--	10	**2,500,000**	0	1	3,600	50
2,4,6-TRICHLOROPHENOL	2	0	0	--	--	--	**4**	**1,000,000**	0	2	1	NA
2,4-DICHLOROPHENOL	2	0	0	--	--	--	4	**1,000,000**	0	1	110	NA
2,4-DIMETHYLPHENOL	2	0	0	--	--	--	4	**1,000,000**	0	1	730	NA
2,4-DINITROPHENOL	1	0	0	--	--	--	10	10	0	0	73	NA
2,4-DINITROTOLUENE	2	0	0	--	--	--	4	**1,000,000**	0	1	73	NA
2,6-DINITROTOLUENE	2	0	0	--	--	--	4	**1,000,000**	0	1	36	NA
2-CHLORONAPHTHALENE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
2-CHLOROPHENOL	2	0	0	--	--	--	4	**1,000,000**	0	1	30	NA
2-METHYLNAPHTHALENE	2	1	50	11,000,000	11,000,000	11,000,000	4	4	--	--	NA	NA
2-METHYLPHENOL	2	0	0	--	--	--	4	**1,000,000**	0	1	1,800	NA
2-NITROANILINE	2	0	0	--	--	--	**10**	**2,500,000**	0	2	1	NA

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
3,3'-DICHLOROBENZIDINE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.2	NA
3-NITROANILINE	2	0	0	--	--	--	10	2,500,000	--	--	NA	NA
4,6-DINITRO-2-METHYLPHENOL	1	0	0	--	--	--	10	10	--	--	NA	NA
4-BROMOPHENYL-PHENYLETHER	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
4-CHLORO-3-METHYLPHENOL	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
4-CHLOROANILINE	2	0	0	--	--	--	4	**1,000,000**	0	1	150	NA
4-CHLOROPHENYL-PHENYLETHER	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
4-METHYLPHENOL	2	0	0	--	--	--	4	**1,000,000**	0	1	180	NA
4-NITROANILINE	2	0	0	--	--	--	10	2,500,000	--	--	NA	NA
4-NITROPHENOL	2	0	0	--	--	--	10	2,500,000	--	--	NA	NA
ACENAPHTHENE	2	1	50	0.6	0.6J	0.6J	**1,000,000**	**1,000,000**	0	1	370	NA
ACENAPHTHYLENE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
ANTHRACENE	2	0	0	--	--	--	4	**1,000,000**	0	1	1,800	NA
BENZO(A)ANTHRACENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.09	0.1
BENZO(A)PYRENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.009	0.2
BENZO(B)FLUORANTHENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.09	NA
BENZO(G,H,I)PERYLENE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
BENZO(K)FLUORANTHENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.06	NA
BIS(2-CHLOROETHOXY)METHANE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
BIS(2-CHLOROETHYL)ETHER	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.01	NA
BIS(2-ETHYLHEXYL)PHTHALATE	2	0	0	--	--	--	4	**1,000,000**	0	1	5	NA
BUTYLBENZYLPHTHALATE	2	0	0	--	--	--	4	**1,000,000**	0	1	7,300	NA
CARBAZOLE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	3	NA
CHRYSENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.6	NA
DI-N-BUTYLPHTHALATE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
DI-N-OCTYLPHTHALATE	2	0	0	--	--	--	4	1,000,000	--	--	NA	NA
DIBENZO(A,H)ANTHRACENE	2	0	0	--	--	--	**4**	**1,000,000**	0	2	0.009	NA
DIBENZOFURAN	2	1	50	**460,000**	**460,000J**	**460,000J**	4	4	1	0	24	NA
DIETHYLPHTHALATE	2	0	0	--	--	--	4	**1,000,000**	0	1	29,000	NA
DIMETHYLPHTHALATE	2	0	0	--	--	--	4	**1,000,000**	0	1	360,000	NA

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH Investigations

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Semivolatile Organic Compounds (µg/L)												
FLUORANTHENE	2	0	0	--	--	--	4	1,000,000	0	1	1,500	NA
FLUORENE	2	2	100	100,000	1J	200,000J	0	0	1	0	240	NA
HEXACHLOROBENZENE	2	0	0	--	--	--	4	1,000,000	0	2	0.04	1
HEXACHLOROBUTADIENE	2	0	0	--	--	--	4	1,000,000	0	2	0.9	NA
HEXACHLOROCYCLOPENTADIENE	2	0	0	--	--	--	4	1,000,000	0	1	220	NA
HEXACHLOROETHANE	2	0	0	--	--	--	4	1,000,000	0	1	5	NA
INDENO(1,2,3-CD)PYRENE	2	0	0	--	--	--	4	1,000,000	0	2	0.09	NA
ISOPHORONE	2	0	0	--	--	--	4	1,000,000	0	1	71	NA
N-NITROSO-DI-N-PROPYLAMINE	2	0	0	--	--	--	4	1,000,000	0	2	0.01	NA
N-NITROSODIPHENYLAMINE	2	0	0	--	--	--	4	1,000,000	0	1	14	NA
NAPHTHALENE	2	1	50	3,400,000	3,400,000	3,400,000	4	4	1	0	6	NA
NITROBENZENE	2	0	0	--	--	--	4	1,000,000	0	2	3	NA
PENTACHLOROPHENOL	2	0	0	--	--	--	10	2,500,000	0	2	0.6	1
PHENANTHRENE	2	1	50	130,000	130,000 J	130,000 J	4	4	--	--	NA	NA
PHENOL	2	0	0	--	--	--	4	1,000,000	0	1	22,000	NA
PYRENE	2	1	50	0.7	0.7 J	0.7 J	1,000,000	1,000,000	0	1	180	NA
PCBs/Pesticides (µg/L)												
4,4'-DDD	1	0	0	--	--	--	10,000	10,000	0	1	0.3	NA
4,4'-DDE	1	0	0	--	--	--	10,000	10,000	0	1	0.2	NA
4,4'-DDT	1	0	0	--	--	--	10,000	10,000	0	1	0.2	NA
ALDRIN	1	0	0	--	--	--	5,000	5,000	0	1	0.004	NA
ALPHA-BHC	1	0	0	--	--	--	5,000	5,000	--	--	NA	NA
ALPHA-CHLORDANE	1	0	0	--	--	--	5,000	5,000	0	1	0.2	NA
AROCLOR-1016	1	0	0	--	--	--	100,000	100,000	0	1	1	NA
AROCLOR-1221	1	0	0	--	--	--	200,000	200,000	0	1	0.03	NA
AROCLOR-1232	1	0	0	--	--	--	100,000	100,000	0	1	0.03	NA
AROCLOR-1242	1	0	0	--	--	--	100,000	100,000	0	1	0.03	NA
AROCLOR-1248	1	0	0	--	--	--	100,000	100,000	0	1	0.03	NA
AROCLOR-1254	1	0	0	--	--	--	100,000	100,000	0	1	0.03	NA
AROCLOR-1260	1	0	0	--	--	--	100,000	100,000	0	1	0.03	NA

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

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PCBs/Pesticides (µg/L)												
BETA-BHC	1	0	0	--	--	--	5,000	5,000	--	--	NA	NA
DELTA-BHC	1	0	0	--	--	--	5,000	5,000	--	--	NA	NA
DIELDRIN	1	0	0	--	--	--	**10,000**	**10,000**	0	1	0.004	NA
ENDOSULFAN I	1	0	0	--	--	--	**5,000**	**5,000**	0	1	220	NA
ENDOSULFAN II	1	0	0	--	--	--	10,000	10,000	--	--	NA	NA
ENDOSULFAN SULFATE	1	0	0	--	--	--	10,000	10,000	--	--	NA	NA
ENDRIN	1	0	0	--	--	--	**10,000**	**10,000**	0	1	11	2
ENDRIN ALDEHYDE	1	0	0	--	--	--	10,000	10,000	--	--	NA	NA
ENDRIN KETONE	1	0	0	--	--	--	10,000	10,000	--	--	NA	NA
GAMMA-BHC (LINDANE)	1	0	0	--	--	--	5,000	5,000	--	--	NA	NA
GAMMA-CHLORDANE	1	0	0	--	--	--	**5,000**	**5,000**	0	1	0.2	NA
HEPTACHLOR	1	0	0	--	--	--	**5,000**	**5,000**	0	1	0.02	0.01
HEPTACHLOR EPOXIDE	1	0	0	--	--	--	**5,000**	**5,000**	0	1	0.007	0.01
METHOXYCHLOR	1	0	0	--	--	--	**50,000**	**50,000**	0	1	180	30
TOXAPHENE	1	0	0	--	--	--	**500,000**	**500,000**	0	1	0.06	3
Total Petroleum Hydrocarbons (mg/L)												
DIESEL RANGE ORGANICS	47	30	64	540	0.058	6,704	0.05	5,000	--	--	NA	NA
GASOLINE RANGE ORGANICS	43	15	35	160	0.055	1,196	0.05	0.5	--	--	NA	NA
JET FUEL	20	6	30	55	0.061	180	0.05	0.74	--	--	NA	NA
JP5 RANGE ORGANICS	2	1	50	140,000	137,000	137,000	0.1	0.1	--	--	NA	NA
MOTOR OIL RANGE ORGANICS	12	1	8	960	960 J	960 J	0.1	0.5	--	--	NA	NA
Metals (µg/L)												
Filtered												
LEAD	2	0	0	--	--	--	3	3	--	--	NA	15.0

TABLE 6-19: SITE 4 STATISTICAL SUMMARY OF GROUNDWATER ANALYSES

TPH Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding the PRG

--	Not detected
BHC	Benzene Hexachloride
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
J	Estimated value
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
NA	No criteria available
PCB	Polychlorinated biphenyl
PRG	Preliminary Remediation Goal, U.S. Environmental Protection Agency, Region 9 or Cal-modified (2002)
µg/L	Micrograms per liter

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
1,1,1,2-TETRACHLOROETHANE	7	0	0	--	--	--	1	9.1	--	--	NA
1,1,1-TRICHLOROETHANE	219	12	5	24	2 J	170	1	2,400	0	0	1,200,000
1,1,2,2-TETRACHLOROETHANE	199	3	2	260	90 J	**600 J**	1	**2,400**	1	2	410
1,1,2-TRICHLOROETHANE	197	0	0	--	--	--	1	**2,400**	0	3	730
1,1-DICHLOROETHANE	201	4	2	13	4 J	31	1	2,400	0	0	2,800
1,1-DICHLOROETHENE	219	7	3	210	1 J	1,400	1	2,400	0	0	120,000
1,1-DICHLOROPROPENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,2,3-TRICHLOROBENZENE	6	1	17	5	5 J	5 J	4.9	9.1	--	--	NA
1,2,3-TRICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,2,4-TRICHLOROBENZENE	6	1	17	4	3.5 J	3.5 J	4.9	9.1	0	0	650,000
1,2,4-TRIMETHYLBENZENE	9	0	0	--	--	--	4.9	10	0	0	52,000
1,2-DIBROMO-3-CHLOROPROPANE	6	1	17	2	2.2 J	2.2 J	4.9	9.1	--	--	NA
1,2-DICHLOROBENZENE	41	1	2	2	2 J	2 J	1	45	0	0	370,000
1,2-DICHLOROETHANE	215	0	0	--	--	--	1	**2,400**	0	4	280
1,2-DICHLOROETHENE (TOTAL)	189	10	5	480	1 J	4,700	5	2,400	0	0	43,000
1,2-DICHLOROPROPANE	196	0	0	--	--	--	4.9	**2,400**	0	3	340
1,3,5-TRIMETHYLBENZENE	9	0	0	--	--	--	4.9	10	0	0	21,000
1,3-DICHLOROBENZENE	41	0	0	--	--	--	1	15	0	0	16,000
1,3-DICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
1,4-DICHLOROBENZENE	41	1	2	9	9 J	9 J	1	12	0	0	3,400
2,2-DICHLOROPROPANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
2-BUTANONE	215	0	0	--	--	--	6	2,400	--	--	NA
2-CHLOROETHYLVINYLETHER	30	0	0	--	--	--	10	30	--	--	NA
2-CHLOROTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
2-HEXANONE	193	1	1	6,600	6,600 J	6,600 J	2	1,400	--	--	NA
4-CHLOROTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
4-METHYL-2-PENTANONE	193	2	1	9,500	5 J	19,000	5.4	1,400	--	--	NA
ACETONE	196	19	10	260	3 J	4,500 J	10	2,400	0	0	1,600,000
BENZENE	243	11	5	1,300	1 J	**5,800**	0.54	**13,000**	4	6	600
BROMOBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
BROMOCHLOROMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
BROMODICHLOROMETHANE	196	0	0	--	--	--	4.9	**2,400**	0	3	820
BROMOFORM	196	0	0	--	--	--	4.9	2,400	0	0	62,000
BROMOMETHANE	196	0	0	--	--	--	9.8	2,400	0	0	3,900
CARBON DISULFIDE	187	9	5	2	0.6J	5 J	5	2,400	0	0	360,000
CARBON TETRACHLORIDE	196	0	0	--	--	--	4.9	**2,400**	0	3	250
CHLOROBENZENE	200	3	2	3	2J	6	1	2,400	0	0	150,000
CHLOROETHANE	197	0	0	--	--	--	1	2,400	0	0	3,000
CHLOROFORM	196	1	1	2	2J	2 J	4.9	**2,400**	0	3	940
CHLOROMETHANE	197	0	0	--	--	--	1	**2,400**	0	3	1,200
CIS-1,2-DICHLOROETHENE	30	2	7	3,800	260	7,400	1	200	0	0	43,000
CIS-1,3-DICHLOROPROPENE	190	0	0	--	--	--	5	**2,400**	0	3	780
DIBROMOCHLOROMETHANE	196	0	0	--	--	--	4.9	**2,400**	0	3	1,100
DIBROMOMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
DICHLORODIFLUOROMETHANE	6	0	0	--	--	--	4.9	9.1	--	--	NA
ETHYLBENZENE	243	45	19	880	0.7J	**17,000**	0.54	**13,000**	1	2	8,900
ETHYLENE DIBROMIDE	15	0	0	--	--	--	4.9	13	--	--	NA
HEXACHLOROBUTADIENE	6	0	0	--	--	--	4.9	9.1	0	0	6,200
HEXANE	20	0	0	--	--	--	6	2,000	0	0	110,000
ISOPROPYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
M,P-XYLENE	26	2	8	5,100	950	9,300	1	400	0	0	270,000
METHYL-T-BUTYL ETHER	29	0	0	--	--	--	1	5,000	0	0	17,000
METHYLENE CHLORIDE	219	15	7	150	1J	2,100 J	1	2,400	0	0	9,100
N-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
N-PROPYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
NAPHTHALENE	7	2	29	13	5.1J	21	1	9.1	0	0	56,000
O-XYLENE	27	2	7	2,800	950	4,700	1	200	0	0	270,000
P-ISOPROPYLTOLUENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
SEC-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
STYRENE	199	1	1	1	1J	1 J	4.9	2,400	0	0	1,700,000
TERT-BUTYLBENZENE	6	0	0	--	--	--	4.9	9.1	--	--	NA
TETRACHLOROETHENE	216	1	0	2	2J	2 J	1	**2,400**	0	2	1,500

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
TOLUENE	247	54	22	570	0.8 J	26,000	1	13,000	0	0	520,000
TRANS-1,2-DICHLOROETHENE	30	0	0	--	--	--	1	2,000	0	0	69,000
TRANS-1,3-DICHLOROPROPENE	190	0	0	--	--	--	5	**2,400**	0	3	780
TRICHLOROETHENE	219	18	8	**370**	1 J	**6,300**	1	**2,400**	4	7	53
TRICHLOROFLUOROMETHANE	37	0	0	--	--	--	4.9	15	0	0	390,000
VINYL ACETATE	41	0	0	--	--	--	10	56	0	0	430,000
VINYL CHLORIDE	219	1	0	**290**	**290**	**290**	1	**2,400**	1	6	79
XYLENE (TOTAL)	217	50	23	3,500	1 J	110,000	1.1	13,000	0	0	270,000
Semivolatile Organic Compounds (µg/kg)											
1,2,4-TRICHLOROBENZENE	194	0	0	--	--	--	35	8,000	0	0	650,000
1,2-DICHLOROBENZENE	193	2	1	2,000	56 J	4,000 J	17	3,900	0	0	370,000
1,2-DIPHENYLHYDRAZINE	43	0	0	--	--	--	340	**1,800**	0	2	610
1,3-DICHLOROBENZENE	193	0	0	--	--	--	17	5,900	0	0	16,000
1,4-DICHLOROBENZENE	193	1	1	810	810 J	810 J	17	**3,900**	0	11	3,400
2,2'-OXYBIS(1-CHLOROPROPANE)	139	0	0	--	--	--	35	8,000	--	--	NA
2,4,5-TRICHLOROPHENOL	194	0	0	--	--	--	85	19,000	0	0	6,100,000
2,4,6-TRICHLOROPHENOL	194	0	0	--	--	--	35	**8,000**	0	1	6,900
2,4-DICHLOROPHENOL	194	0	0	--	--	--	35	8,000	0	0	180,000
2,4-DIMETHYLPHENOL	194	0	0	--	--	--	35	8,000	0	0	1,200,000
2,4-DINITROPHENOL	187	0	0	--	--	--	190	19,000	0	0	120,000
2,4-DINITROTOLUENE	194	1	1	60	60 J	60 J	35	8,000	0	0	120,000
2,6-DINITROTOLUENE	195	0	0	--	--	--	35	8,000	0	0	61,000
2-CHLORONAPHTHALENE	194	0	0	--	--	--	35	8,000	--	--	NA
2-CHLOROPHENOL	194	0	0	--	--	--	35	8,000	0	0	63,000
2-METHYLPHENOL	194	0	0	--	--	--	35	8,000	--	--	NA
2-NITROANILINE	194	0	0	--	--	--	85	**19,000**	0	84	1,700
2-NITROPHENOL	194	0	0	--	--	--	35	8,000	--	--	NA
3,3'-DICHLOROBENZIDINE	194	1	1	890	890 J	890 J	35	**7,700**	0	46	1,100
3-NITROANILINE	194	0	0	--	--	--	85	19,000	--	--	NA
4,6-DINITRO-2-METHYLPHENOL	191	0	0	--	--	--	85	19,000	--	--	NA

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	194	0	0	--	--	--	35	8,000	--	--	NA
4-CHLORO-3-METHYLPHENOL	194	0	0	--	--	--	35	8,000	--	--	NA
4-CHLOROANILINE	194	0	0	--	--	--	35	8,000	0	0	240,000
4-CHLOROPHENYL-PHENYLETHER	194	0	0	--	--	--	35	8,000	--	--	NA
4-METHYLPHENOL	194	0	0	--	--	--	35	8,000	0	0	310,000
4-NITROANILINE	194	0	0	--	--	--	85	19,000	--	--	NA
4-NITROPHENOL	194	0	0	--	--	--	85	19,000	--	--	NA
BENZOIC ACID	74	0	0	--	--	--	910	19,000	0	0	100,000,000
BENZYL ALCOHOL	74	0	0	--	--	--	150	3,800	0	0	18,000,000
BIS(2-CHLOROETHOXY)METHANE	194	0	0	--	--	--	35	8,000	--	--	NA
BIS(2-CHLOROETHYL)ETHER	194	0	0	--	--	--	35	**8,000**	0	182	210
BIS(2-ETHYLHEXYL)PHTHALATE	194	16	8	590	20 J	7,600	14	9,100	0	0	35,000
BUTYLBENZYLPHTHALATE	194	3	2	40	28 J	47 J	35	8,000	0	0	12,000,000
CARBAZOLE	120	6	5	900	37 J	4,900 J	35	8,000	0	0	24,000
DI-N-BUTYLPHTHALATE	194	11	6	85	24 J	230 J	35	8,000	--	--	NA
DI-N-OCTYLPHTHALATE	194	1	1	21	21 J	21 J	35	8,000	--	--	NA
DIBENZOFURAN	194	6	3	370	21 J	1,800	35	8,000	0	0	290,000
DIETHYLPHTHALATE	194	5	3	68	20 J	250 J	35	8,000	0	0	49,000,000
DIMETHYLPHTHALATE	194	0	0	--	--	--	35	8,000	0	0	100,000,000
HEXACHLOROBENZENE	194	0	0	--	--	--	35	**8,000**	0	182	300
HEXACHLOROBUTADIENE	194	0	0	--	--	--	35	**8,000**	0	1	6,200
HEXACHLOROCYCLOPENTADIENE	194	0	0	--	--	--	35	8,000	0	0	370,000
HEXACHLOROETHANE	194	0	0	--	--	--	35	8,000	0	0	35,000
ISOPHORONE	194	0	0	--	--	--	35	8,000	0	0	510,000
N-NITROSO-DI-N-PROPYLAMINE	194	2	1	**120**	64 J	**180 J**	35	**8,000**	1	191	69
N-NITROSODIPHENYLAMINE	194	4	2	160	73 J	320 J	35	8,000	0	0	99,000
NITROBENZENE	194	0	0	--	--	--	35	8,000	0	0	20,000
PENTACHLOROPHENOL	191	1	1	130	130 J	130 J	85	**19,000**	0	35	3,000
PHENOL	195	1	1	74	74 J	74 J	35	8,000	0	0	37,000,000

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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 (µg/kg)											
2-METHYLNAPHTHALENE	296	159	54	8	0.22J	300	5	100	--	--	NA
ACENAPHTHENE	296	95	32	14	0.23J	290	5	100	0	0	3,700,000
ACENAPHTHYLENE	292	154	53	13	0.19J	320 J	5	100	--	--	NA
ANTHRACENE	296	179	60	33	0.21J	2,300 J	5	100	0	0	22,000,000
BENZ(A)ANTHRACENE	296	239	81	79	0.15J	2,400 J	5	100	--	--	NA
BENZO(A)PYRENE	294	247	84	**100**	0.23J	**3,100 J**	5	**100**	52	11	62
BENZO(B)FLUORANTHENE	297	249	84	560	0.23J	**120,000**	5	100	8	0	620
BENZO(G,H,I)PERYLENE	293	263	90	81	0.28J	2,300 J	5	100	--	--	NA
BENZO(K)FLUORANTHENE	296	219	74	61	0.17J	**2,000 J**	5	110	9	0	380
CHRYSENE	296	250	84	630	0.19J	**130,000**	5	100	1	0	3,800
DIBENZ(A,H)ANTHRACENE	296	172	58	18	0.21J	360 J	5	100	--	--	NA
FLUORANTHENE	290	245	84	160	0.22J	6,700 J	5	100	0	0	2,300,000
FLUORENE	291	115	40	21	0.19J	600 J	5	100	0	0	2,700,000
INDENO(1,2,3-CD)PYRENE	286	231	81	78	0.29J	**1,800 J**	5	100	6	0	620
NAPHTHALENE	296	171	58	11	0.26J	320	5	100	0	0	56,000
PHENANTHRENE	296	237	80	100	0.22J	6,300 J	5	100	--	--	NA
PYRENE	297	256	86	580	0.2J	100,000	5	100	0	0	2,300,000
PCBs/Pesticides (µg/kg)											
4,4'-DDD	21	5	24	5	1.5J	9.3 J	3.4	20	0	0	2,400
4,4'-DDE	21	5	24	9	1J	15 J	3.4	20	0	0	1,700
4,4'-DDT	21	6	29	15	3.2J	32 J	3.4	20	0	0	1,700
ALDRIN	21	0	0	--	--	--	1.8	10	0	0	29
ALPHA-BHC	21	1	5	1	1J	1 J	1.8	3.8	--	--	NA
ALPHA-CHLORDANE	21	3	14	6	2.4J	11 J	1.8	10	0	0	1,600
AROCLOR-1016	35	0	0	--	--	--	20	200	0	0	3,900
AROCLOR-1221	35	0	0	--	--	--	20	**400**	0	2	220
AROCLOR-1232	35	0	0	--	--	--	20	200	0	0	220
AROCLOR-1242	35	0	0	--	--	--	20	200	0	0	220
AROCLOR-1248	35	0	0	--	--	--	20	200	0	0	220
AROCLOR-1254	35	2	6	**660**	29J	**1,300 J**	20	200	1	0	220

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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)											
AROCLOR-1260	35	4	11	28	17J	38	20	200	0	0	220
BETA-BHC	21	1	5	4	3.5J	3.5 J	1.8	3.8	--	--	NA
DELTA-BHC	21	0	0	--	--	--	1.8	10	--	--	NA
DIELDRIN	21	1	5	2	1.7J	1.7 J	3.4	7.3	0	0	30
ENDOSULFAN I	21	0	0	--	--	--	1.8	10	0	0	370,000
ENDOSULFAN II	21	0	0	--	--	--	3.4	20	0	0	370,000
ENDOSULFAN SULFATE	21	0	0	--	--	--	3.4	20	--	--	NA
ENDRIN	21	0	0	--	--	--	3.4	20	0	0	18,000
ENDRIN ALDEHYDE	21	0	0	--	--	--	3.4	20	--	--	NA
ENDRIN KETONE	21	1	5	16	16J	16 J	3.5	20	--	--	NA
GAMMA-BHC (LINDANE)	21	0	0	--	--	--	1.8	10	--	--	NA
GAMMA-CHLORDANE	21	3	14	5	2.9J	8.6 J	1.8	10	0	0	1,600
HEPTACHLOR	21	0	0	--	--	--	0.37	10	0	0	110
HEPTACHLOR EPOXIDE	21	2	10	6	2.6J	9.1	1.8	3.8	0	0	53
METHOXYCHLOR	21	2	10	45	6J	83 J	18	38	0	0	310,000
TOXAPHENE	21	0	0	--	--	--	100	**1,000**	0	1	440
Total Petroleum Hydrocarbons (mg/kg)											
BENZENE	59	0	0	--	--	--	0.005	0.008	0	0	0.6
DIESEL RANGE ORGANICS	220	35	16	970	3	11,590	1	590	--	--	NA
ETHYLBENZENE	59	7	12	0.02	0.006	0.028	0.005	0.008	0	0	9
GASOLINE RANGE ORGANICS	220	26	12	720	0.1J	7,100	0.1	50	--	--	NA
JET FUEL	19	8	42	1,700	1.1	5,400	1	50	--	--	NA
JP5 RANGE ORGANICS	101	1	1	6,300	6,300	6,300	1	190	--	--	NA
KEROSENE RANGE ORGANICS	59	0	0	--	--	--	1	13	--	--	NA
MOTOR OIL RANGE ORGANICS	188	123	65	1,000	25	28,000	10	8,000	--	--	NA
OTHER HEAVY TPH COMPONENTS	56	0	0	--	--	--	1	13	--	--	NA
OTHER LIGHT TPH COMPONENTS	59	0	0	--	--	--	1	1.7	--	--	NA
OTHER TPH COMPONENTS, TOTAL	3	0	0	--	--	--	1.1	4.2	--	--	NA
TOLUENE	59	0	0	--	--	--	0.005	0.008	0	0	520
XYLENE (TOTAL)	59	21	36	0.04	0.006	0.19	0.005	0.008	0	0	270

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES (Continued)

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, 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	158	157	99	6,810	1,080	31,400	4,820	4,820	0	0	76,000
ANTIMONY	183	24	13	6.8	0.26	**134 J**	0.4	25	1	0	31.0
ARSENIC	161	102	63	**3.8**	**0.8 J**	**24.8 J**	**0.65**	**13**	102	59	0.39
BARIUM	158	154	97	72.1	23 J	507	24	54.1	0	0	5,400
BERYLLIUM	186	63	34	0.50	0.041 J	2.9	0.025	25	0	0	150
CADMIUM	201	71	35	3.7	0.06 J	**105 J**	0.032	25	2	0	37.0
CALCIUM	158	157	99	7,970	980	269,000	4,610	4,610	--	--	NA
CHROMIUM	203	174	86	66.4	6.5	**1,530**	4.6	28.5	5	0	210
COBALT	159	137	86	6.2	1.9 J	26.3	4.9	7.6	0	0	900
COPPER	191	161	84	24.3	4.3	326	5.5	25	0	0	3,100
CYANIDE	138	16	12	3.9	0.31 J	18.6 J	0.22	2.3	--	--	NA
IRON	158	157	99	11,000	103	**42,700**	9,170	9,170	4	0	23,000
LEAD	200	132	66	57.1	1.6	**2,900**	1.3	25	5	0	150
MAGNESIUM	158	157	99	2,990	1,240	12,600	2,690	2,690	--	--	NA
MANGANESE	158	157	99	164	72	864	116	116	0	0	1,800
MERCURY	130	34	26	0.21	0.01	1.6	0.03	**25**	0	27	23.0
MOLYBDENUM	139	13	9	0.84	0.15	3.1 J	0.11	6.5	0	0	390
NICKEL	190	187	98	50.6	7.8	1,400	25	28.7	0	0	1,600
POTASSIUM	158	145	92	843	386 J	4,810	463	864	--	--	NA
SELENIUM	158	15	9	1.3	0.44 J	9.6 J	0.2	13	0	0	390
SILVER	191	41	21	7.6	0.07	81.1 J	0.059	25	0	0	390
SODIUM	158	120	76	513	44.5 J	5,230	24.9	640	--	--	NA
THALLIUM	145	9	6	1.9	0.12	3.5	0.1	**13**	0	25	5.2
TITANIUM	55	55	100	428	197	729	0	0	--	--	NA
VANADIUM	158	152	96	24.4	12.1	82.4	18	22	0	0	550
ZINC	185	176	95	39.6	13.6	283	24.6	25	0	0	23,000

TABLE 6-20: SITE 4 STATISTICAL SUMMARY OF SOIL ANALYSES

All Soil Investigations

Remedial Investigation Report for CERCLA Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

NOTES:

Bold denotes values exceeding 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 (2002)
µg/kg	Micrograms per kilogram

TABLE 6-21: SITE 4 STATISTICAL SUMMARY OF SOIL GAS SAMPLING ANALYSES

Remedial Investigation Report for Sites 3, 4, 11, and 21, 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 Limits Over PRG	Region 9 PRG
Volatile Organic Compounds in Soil Gas (µg/m^3)										
1,1,1-TRICHLOROETHANE	18	3	17	124	66.3	192.21	1.79	1,414.10	0	2,300
1,1,2,2-TETRACHLOROETHANE	18	0	0	--	--	--	**2.25**	**1,779.15**	18	0.033
1,1,2-TRICHLOROETHANE	18	0	0	--	--	--	**1.79**	**1,414.10**	18	0.12
1,1-DICHLOROETHANE	18	0	0	--	--	--	**1.33**	**1,048.94**	18	1.2*
1,1-DICHLOROETHENE	18	1	6	33.18	33.18	33.18	1.3	**1,027.53**	4	210
1,2-DICHLOROBENZENE	18	0	0	--	--	--	1.97	**1,558.15**	4	210
1,2-DICHLOROETHANE	18	0	0	--	--	--	**1.33**	**1,048.94**	18	0.074
1,3-DICHLOROBENZENE	18	0	0	--	--	--	1.97	**1,558.15**	17	3.3
1,4-DICHLOROBENZENE	18	0	0	--	--	--	**1.97**	**1,558.15**	18	0.31
BENZENE	18	11	61	**13,584.13**	**2.25**	**132,730.30**	**1.77**	**285.33**	7	0.23
CHLOROETHANE	18	0	0	--	--	--	0.87	**683.89**	16	2.3
CHLOROMETHANE	18	3	17	**11.06**	**1.79**	**29.45**	**6.5**	**535.18**	15	1.1
CIS-1,2-DICHLOROETHENE	18	3	17	**898.52**	31.48	**2,433.55**	1.3	**1,027.53**	5	37
ETHYLBENZENE	18	9	50	**5,912.55**	**3.11**	**51,372.59**	**22.42**	**914.64**	9	1.7
M-XYLENE	18	11	61	**22,579.73**	11.82	**244,802.50**	22.42	**1,125.37**	3	110
O-XYLENE	18	7	39	**114.63**	3.15	**326.2**	22.42	**1,125.37**	4	110
TETRACHLOROETHENE	18	0	0	--	--	--	**2.24**	**1,768.34**	18	0.67
TOLUENE	18	16	89	**986.83**	7.33	**7,603.37**	336.58	**957.2**	1	400
TRANS-1,2-DICHLOROETHENE	18	2	11	**124.46**	51.38	**197.53**	1.3	**1,027.53**	5	73
TRICHLOROETHENE	18	4	22	**882.03**	**56.04**	**2,375.64**	**1.76**	**1,392.69**	14	0.017
VINYL CHLORIDE	18	0	0	--	--	--	**0.84**	**662.48**	18	0.11

Notes:

µg/kg	Micrograms per Kilogram
mg/kg	Milligrams per Kilogram
NA	Constituent not listed in the PRG Index
No PRG Listed	Constituent listed in PRG Index, no PRG indicated
PRG	Preliminary remediation goal
*	PRG is the "Cal modified PRG"
Bold	Exceeds PRG

TABLE 6-22: SITE 4 SOIL NATURE AND EXTENT EVALUATION SUMMARY

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

ANALYTICAL GROUP CHEMICAL	EXCEEDS SCREENING LEVELS?	USED BY THE NAVY AT THE SITE?	RISK DRIVER?	BACKGROUND METAL?[1]	RELATED TO SITE ACTIVITY?	DATA GAP?
SVOCs						
N-Nitroso-di-n-propylamine	Yes	No	Yes	--	No	No
2,4-Dinitrotoluene	No	No	Yes	--	No	No
3,3'-Dichlorobenzidine	No	No	Yes	--	Yes	No
VOCs						
Benzene	Yes	Yes	No	--	Yes	No
Ethylbenzene	Yes	Yes	No	--	Yes	No
Trichloroethene	Yes	Yes	Yes	--	Yes	No
Vinyl Chloride	Yes	Yes	No	--	Yes	No
1,1,2,2-Tetrachloroethane	Yes	Yes	No	--	Yes	No
Metals						
Antimony	Yes	No	No	Yes	No	No
Arsenic	Yes	No	Yes	Yes	No	No
Cadmium	Yes	Yes	Yes	No	Yes	No
Chromium	Yes	Yes	No	No	No	No
Copper	No	No	Yes	No	Yes	No
Iron	Yes	No	No	Yes	No	No
Lead	Yes	No	No	No	No	No
Silver	No	No	Yes	No	Yes	No
PCBs						
Aroclor-1254	Yes	Yes	Yes	--	Yes	No
PAHs						
Benzo(a)pyrene	Yes	No	Yes	--	No	No
Total Petroleum Hydrocarbons						
Diesel	--	Yes	No	--	Yes	No
Gasoline	--	Yes	No	--	Yes	No
Motor Oil	--	Yes	No	--	Yes	No

Notes:

-- Does not apply to these chemicals

1 Based on the background comparison

TABLE 6-23: SITE 4 HHRA SUMMARY FOR SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

EXPOSURE SCENARIOS			SITE 4[a] Cancer	SITE 4[a] Non-cancer[b]
Residential				
0-2 feet bgs	RME	Adult	1E-04	2
		Child	4E-05	4
		Total Risk	1E-04	NA
	CTE	Adult	8E-06	0.5
		Child	6E-06	1
		Total Risk	1E-05	NA
0-8 feet bgs	RME	Adult	1E-04	1
		Child	5E-05	4
		Total Risk	2E-04	NA
	CTE	Adult	1E-05	0.4
		Child	1E-05	1
		Total Risk	2E-05	NA
Commercial/Industrial				
0-2 feet bgs	RME	Adult	4E-06	0.2
		Total Risk	4E-06	NA
	CTE	Adult	2E-07	0.1
		Total Risk	2E-07	NA
0-8 feet bgs	RME	Adult	8E-06	0.2
		Total Risk	8E-06	NA
	CTE	Adult	8E-07	0.1
		Total Risk	8E-07	NA
Construction Worker				
0-2 feet bgs	RME	Adult	4E-07	0.5
		Total Risk	4E-07	NA
	CTE	Adult	3E-08	0.04
		Total Risk	3E-08	NA
0-8 feet bgs	RME	Adult	7E-07	0.6
		Total Risk	7E-07	NA
	CTE	Adult	7E-08	0.04
		Total Risk	7E-08	NA

Notes:

a	Includes risk from background
b	Non-cancer risk does not include risk from lead
bgs	Below ground surface
CTE	Central tendency exposure
RME	Reasonable maximum exposure
NA	Not applicable

TABLE 6-24: SITE 4 HHRA REASONABLE MAXIMUM EXPOSURE COMMERCIAL/INDUSTRIAL RISK DRIVERS FOR SURFACE SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Commercial/Industrial Scenario

Receptor: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient for a Child[a,b]				
				Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total	Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total
Surface Soil (0-2 ft bgs)	Soil	Surface Soil/ Particulates	Arsenic	2.E-06	3.E-07	--	--	2.E-06	--	--	--	--	--
				--	--	--	--	--	--	--	--	--	--
			Chemical Total	2.E-06	3.E-07	0.E+00	0.E+00	2.E-06					
		Exposure Point Total						2.E-06					
	Vapors	Vapors from Surface Soil to Outdoor Air	No volatile COPCs	--	--	--	--	--	--	--	--	--	--
				--	--	--	--	--	--	--	--	--	--
			Chemical Total										
		Exposure Point Total											
Medium Total								2.E-06					

Notes:

--	Not applicable or available
a	Based RME assumptions
b	Non-cancer risk does not include risk from lead
COPC	Chemical of potential concern
ft bgs	Feet below ground surface

TABLE 6-25: SITE 4 HHRA REASONABLE MAXIMUM EXPOSURE COMMERCIAL/INDUSTRIAL RISK DRIVERS FOR SUBSURFACE SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Commercial/Industrial Scenario
Receptor: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient for Child [a,b]				
				Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total	Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total
Subsurface Soil (0-8 ft bgs)	Soil	Surface Soil/ Particulates	Arsenic	2.E-06	5.E-07	–	–	1.E-06	–	–	–	–	–
								1.E-05	–	–	–	–	–
			Chemical Total	2.E-06	5.E-07	0.E+00	0.E+00	1.E-05					
		Exposure Point Total						1.E-05					
	Vapors	Vapors from Surface Soil to Outdoor Air	Trichloroethene	–	–	2.E-06	–	1.E-06	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–
			Chemical Total										
		Exposure Point Total											
Medium Total								1.E-05					

Notes:

–	Not applicable or not available
a	Based RME assumptions
b	Non-canncer risk does not include risk from lead
COPC	Chemical of potential concern
ft bgs	Feet below ground surface

TABLE 6-26: SITE 4 HHRA REASONABLE MAXIMUM EXPOSURE RESIDENTIAL RISK DRIVERS FOR SURFACE SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Residential Scenario
Receptor: Adult/Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient for a Child[a,b]				
				Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total	Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total
Surface Soil (0-2 ft bgs)	Soil	Surface Soil/ Particulates	Arsenic	8E-06	7E-07	1E-05	6E-09	2E-05					
			Benzo(a)pyrene	1E-06	5E-07	2E-08	9E-11	2E-06					
			n-Nitroso-di-n-propylamine	2E-06	6E-08	1E-04	1E-10	1E-04					
			Cadmium						0.3	0.001	2		2
			Chemical Total	1E-05	1E-06	1E-04	6E-09	1E-04	0.3	0.001	2		2
		Exposure Point Total						1E-04					2
	Vapors	Vapors from Surface Soil to Outdoor Air	No volatile COPCs										
			Chemical Total					0E+00					0
		Exposure Point Total						0E+00					0
Medium Total								1E-04					2

Notes:

–	Not applicable or available
a	Based RME assumptions
b	Non-canncer risk does not include risk from lead
COPC	Chemical of potential concern
ft bgs	Feet below ground surface

TABLE 6-27: SITE 4 HHRA REASONABLE MAXIMUM EXPOSURE RESIDENTIAL RISK DRIVERS FOR SUBSURFACE SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Residential Scenario
Receptor: Adult/Child

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient for a Child[a,b]				
				Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total	Ingestion	Dermal	Produce	Inhalation	Exposure Routes Total
Subsurface Soil (0-8 ft bgs)	Soil	Surface Soil/ Particulates	2,4-Dinittrotoluene	6E-08	2E-08	2E-06	5E-12	2E-06					
			3,3-Dichlorobenzidine	6E-07	2E-08	2E-05	5E-11	2E-05					
			Aroclor-1254	7E-07	3E-07	4E-08	5E-11	1E-06					
			Arsenic	1E-05	1E-06	2E-05	8E-09	3E-05					
			Benzo(a)pyrene	2E-06	8E-07	3E-08	1E-10	3E-06					
			n-Nitroso-di-n-propylamine	2E-06	6E-08	1E-04	1E-10	1E-04					
			Cadmium						0.2	0.0005	1.0		1
			Chemical Total	2E-05	2E-06	2E-04	8E-09	2E-04	0.2	0.0005	1.0		1
		Exposure Point Total						2E-04					1
	Vapors	Vapors from Surface Soil to Outdoor Air	Trichloroethene				5E-06	0E+00					
			Chemical Total					0E+00					0
		Exposure Point Total						0E+00					0
Medium Total								2E-04					1

Notes:

--	Not applicable or not available
a	Based RME assumptions
b	Non-canncer risk does not include risk from lead
COPC	Chemical of potential concern
ft bgs	Feet below ground surface

TABLE 6-28: SITE 4 CHEMICALS OF POTENTIAL ECOLOGICAL CONCERN FOR SOIL

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

Chemical	Screening Evaluation	
	Rejected	Retained
Metals (mg/kg)		
Aluminum	CSB	
Antimony		X
Arsenic		X
Barium		X
Beryllium	CSB	
Cadmium		X
Calcium	EN	
Chromium		X
Chromium (VI)		X
Cobalt	CSB	
Copper		X
Iron	EN	
Lead		X
Magnesium	EN	
Manganese		X
Mercury		X
Molybdenum		X
Nickel		X
Potassium	EN	
Selenium	FOD	
Silver		X
Sodium	EN	
Titanium	CSB	
Vanadium		X
Zinc		X
SVOCs (mg/kg)		
2-Methylnaphthalene		X
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		X
Chrysene		X
Dibenz(a,h)anthracene		X
Fluoranthene		X
Fluorene		X
Indeno(1,2,3-cd)pyrene		X
n-Nitroso-di-n-propylamine	FOD-NB	
n-Nitroso-diphenylamine		X
Naphthalene		X
Pentachlorophenol		X
Phenanthrene		X
Phenol	FOD-NB	
Pyrene		X
VOCs (mg/kg)		
1,1,1-Trichloroethane		X
1,1-Dichlorethene	FOD-NB	
1,2-Dichloroethene (Total)	FOD-NB	
Acetone	FOD-NB	
Carbon disulfide	FOD-NB	
Ethylbenzene		X
Methylene Chloride	FOD-NB	
Toluene		X
Trichloroethene	FOD-NB	
Xylene (Total)		X

Notes:

CSB	Concentrations within statistical background
EN	*Essential nutrient*
FOD	Frequency of detection
mg/kg	Millogram per kilogram
NB	Non-bioaccumulating
SVOC	Semivolatile organic chemical
VOC	Volatile organic chemical

TABLE 6-29: SITE 4 ERA SOIL HAZARD QUOTIENTS

Remedial Investigation Report for Sites 3, 4, 11, and 21, Alameda Point, Alameda, California

COPEC	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							
	High TRV	Low TRV	High TRV	Low TRV	High TRV	Low TRV	High TRV	Low TRV
Antimony	1.78E-01[a]	9.20E-01[a]	4.81E-04[b]	1.92E-03[b]	1.53E-03[b]	6.12E-03[b]	7.09E-03[b]	2.84E-02[b]
Arsenic	3.59E-02[a]	1.86E-01[a]	1.02E-04[b]	4.08E-04[b]	3.30E-04[b]	1.32E-03[b]	1.36E-03[b]	5.46E-03[b]
Barium	6.47E-02[a]	2.05E-01[a]	1.84E-02[b]	3.71E-02[b]	5.88E-02[b]	1.18E-01[b]	2.77E-01[b]	5.58E-01[b]
Cadmium	2.37E+00[b]	1.02E+02[b]	6.54E-02[a]	5.71E-01[a]	2.05E-01[a]	1.78E+00[a]	1.17E+00[a]	1.02E+01[a]
Chromium	4.21E-02[a]	1.69E-01[a]	3.32E-03[b]	1.66E-02[b]	1.14E-02[b]	5.68E-02[b]	1.78E-02[b]	8.90E-02[b]
Chromium 6+	1.18E-03[a]	4.74E-03[a]	9.34E-05[b]	4.66E-04[b]	3.20E-04[b]	1.60E-03[b]	5.01E-04[b]	2.50E-03[b]
Copper	8.45E-03[a]	1.67E+00[a]	6.91E-04[a]	9.19E-03[a]	2.26E-03[a]	3.00E-02[a]	4.55E-03[a]	6.04E-02[a]
Lead	3.00E-02[a]	7.49E-01[b]	2.71E-03[b]	1.98E+01[b]	9.03E-03[b]	6.62E+01[b]	2.18E-02[b]	1.60E+02[b]
Alternate Lead TRV[c]	NA	NA	NA	5.45E-02[b]	NA	1.82E-01[b]	NA	4.40E-01[b]
Manganese	2.19E-01[b]	2.20E+00[b]	1.37E-03[b]	1.37E-02[b]	4.36E-03[b]	4.36E-02[b]	2.15E-02[b]	2.15E-01[b]
Mercury	3.72E-03[a]	5.97E-02[a]	2.75E-03[b]	1.27E-02[b]	8.63E-03[b]	3.98E-02[b]	5.15E-02[b]	2.37E-01[b]
Molybdenum	2.10E-01[b]	2.10E+00[b]	4.15E-05[b]	4.19E-04[b]	1.32E-04[b]	1.34E-03[b]	6.51E-04[b]	6.56E-03[b]
Nickel	2.11E-02[b]	5.01E+00[b]	6.55E-04[a]	2.45E-02[a]	2.21E-03[a]	8.25E-02[a]	4.49E-03[a]	1.68E-01[a]
Silver	QE	QE	QE	QE	QE	QE	QE	QE
Vanadium	2.46E-01[b]	2.46E+00[b]	1.55E-04[a]	1.55E-03[a]	4.93E-04[a]	4.94E-03[a]	2.58E-03[a]	2.58E-02[a]
Zinc	6.48E-03[b]	1.69E+00[a]	5.00E-04[a]	5.00E-03[a]	1.58E-03[a]	1.58E-02[a]	8.96E-03[a]	8.96E-02[a]
HMW PAHs	3.37E-03[a]	8.42E-02[a]	QE	QE	QE	QE	QE	QE
LMW PAHs	1.67E-05[b]	4.90E-05[b]	QE	QE	QE	QE	QE	QE
Bis(2-ethylhexyl)phthalate	5.19E+00[b]	5.19E+01[b]	1.97E+02[b]	1.97E+03[b]	1.55E+01[b]	1.55E+02[b]	1.18E+03[b]	1.08E+04[b]
n-Nitroso-diphenylamine	QE	QE	QE	QE	QE	QE	QE	QE
Pentachlorophenol	3.06E+00[a]	3.06E+01[a]	QE	QE	QE	QE	QE	QE
1,1,1-Trichloroethane	3.28E-06[b]	3.28E-05[b]	QE	QE	QE	QE	QE	QE
Ethylbenzene	QE	QE	QE	QE	QE	QE	QE	QE
Toluene	1.01E-03[b]	1.01E-02[b]	QE	QE	QE	QE	QE	QE
Xylene	2.31E-01[b]	2.84E-01[b]	QE	QE	QE	QE	QE	QE

Notes:

[a]	TRV based on an physiological effect.
[b]	TRV based on an reproductive effect.
[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.
COPEC	Contaminant of potential ecological concern
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 Ecological COPC 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.

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Sites 3, 4, 11, and 21
Volume II of IV
Sections 7.0 through 11.0

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7.0 REMEDIAL INVESTIGATION FOR SITE 11 - BUILDING 14 (ENGINE TEST CELL)

This section describes the history and setting of Site 11 (Section 7.1), environmental investigations conducted at Site 4 (Section 7.2), the remedial investigation (RI) results (Section 7.3), and the RI conclusions and recommendations (Section 7.4). The RI results section addresses only soil at Site 11. This section does not address the groundwater located beneath Site 11, because this plume also lies beneath all of the other OU-2B sites, and thus it required a separate report section (see Section 9.0) to fully address OU-wide groundwater contaminants in terms of their nature and extent, fate and transport, and risks. Appendices E, F, and G, respectively, present the complete background comparison, human health risk assessment (HHRA), and ecological risk assessment (ERA) for OU-2B.

7.1 SITE 11 HISTORY AND SETTING

Site 11 is located in the eastern portion of Alameda Point south of Ingersol Street, west of Viking Street, north of corrective action area (CAA)-11B, and east of Ferry Point Road. (see Figure 7-1). Site 11 measures about 5.3 acres, is triangular, and consists of Parcel 137 and Subparcels 138A and 140A. It is currently considered an intensively developed area and is bordered by intensively developed areas (see Figure 2-6). Typical urban wildlife, such as the California ground squirrel, scrub jays, and American robins, have been observed in the intensively developed areas but to a lesser extent than in the landscaped/developed areas because less foraging habitat is available. Feral cats are also present in intensively developed areas (U.S. Department of the Navy [Navy] 1999).

The history of Site 11, including specific details about physical features and activities associated with hazardous waste generation or past disposal and storage practices is presented below in Section 7.1.1. Future land use is presented in Section 7.1.2.

7.1.1 History

Approximately 95 percent of Site 11 consists of buildings, roads, and parking lots covered with asphalt and concrete. Site 11 also contains CAAs 11A and 11B because of petroleum hydrocarbon contamination in groundwater at these locations. Site 11 contains Building 14, an engine test cell. Building 14 was constructed in 1940 and operated as an aircraft testing and repair facility. Operations ceased in April 1997 (International Technology Corporation [IT] 2001a). Naval Aviation Depot (NADEP) generator accumulation point (GAP) 47, NADEP GAP 48, and oil-water separators (OWS) 14A through E are associated with Building 14. Additional physical features at Site 11 include Building 627; former Buildings 118, 180, 265, and 587; aboveground storage tanks (AST) 14A through D and 37A through D; underground storage tanks (UST) 14-1 through 14-6 (collectively referred to as UST(R)-06) and 37-1 through 37-4; fuel lines; storm sewers; and open space covered by asphalt and concrete. The history and description of each of these physcial features are summarized below and were developed based on review of various reports and historical aerial photographs.

Building 14. Building 14 is a 62,000-square foot (ft^2), concrete-floored building used for aircraft testing and repair. Former activities included equipment rework; engine preparation, testing and storage; and repair, assembly, and disassembly. Permits were formerly issued for turbine engine testing and solvent cleaning. Ten separate test cells were present, including associated storage rooms, hallways, and control rooms. Second and third floors were present in some areas. A hydrometry laboratory and Dyno Buildup Shop also were present. Various chemicals were used in the building. Hazardous wastes stored in the building included cleaners, paint, fuels, nonhalogenated organics, and petroleum products. Multiple stains and spills were observed in the building's hallways, storage rooms, shops, control rooms, and test cells (ERM-West 1994). In addition, in a 1996 photograph, staining was observed immediately adjacent to the southern side of the building and extended from the center of the building to within approximately 50 feet of the southeast and southwestern corners of the building's footprint, the origin of which is unknown (Pacific Aerial Surveys, various years). Currently, Building 14 is occupied by tenants performing industrial activities.

NADEP GAP 47. NADEP GAP 47 is a non-permitted Resource Conservation and Recovery Act (RCRA) GAP associated with Building 14, a former aircraft testing, repair, and storage area. According to the environmental baseline survey (EBS), NADEP GAP 47 consisted of a sump used to store lubrication and motor oil inside of Building 14. This sump has been removed, and no staining was observed in this area by site inspectors (IT 2001a). During a May 2002 site visit, faded red markings painted on the concrete inside of Building 14 were all that remained of NADEP GAP 47. The surrounding area was covered with sawdust from machinery used by the current tenant. No staining, corrosion, or obvious pathway through the floor was apparent in the vicinity of the former GAP. The RCRA facility permit technical memorandum recommends no further action (NFA) for this GAP (Tetra Tech 2003b). A Navy recommendation for NFA is included in Appendix I.

NADEP GAP 48. NADEP GAP 48 is a non-permitted RCRA GAP located inside Building 14 that stored drummed lubrication and engine oils, solvents, and aerosol paints (ERM-West 1994). NADEP GAP 48 was recommended for NFA (Tetra Tech 2003a). A Navy recommendation for NFA is included in Appendix I.

OWSs 14A through E. These OWSs are associated with Building 14 on the south side (OWSs 14A and B), west side (OWS 14D), northeast corner (OWS 14C), and inside in the Engine Canning Area (OWS 14E). OWSs 14A through D managed oil-water mixtures and had capacities of 1,100; 1,100; 1,300; and 135 gallons, respectively. Details regarding OWS 14E are not available (ERM-West 1994). All the OWSs were connected to the storm sewer (Tetra Tech 2000b); however, they are inactive now. There are no current Naval activities that would release material to OWS 14A through E or the storm sewer. A Navy recommendation for NFA at OWSs 14B, 14C, and 14E is included in Appendix I.

ASTs 14A through D. ASTs 14A and B were located inside Building 14 in Test Cell 4 and consisted of 50-gallon, single-walled steel tanks used to store preservative oil and compressor cleaning solution. ASTs 14C and D were located in the control room for Test Cells 3 and 4, which also was inside Building 14. These 55-gallon, single-walled steel tanks stored smoke

abatement chemical (ERM-West 1994). The tanks were removed prior to August 2002. A Navy recommendation for NFA at the ASTs is included in Appendix I.

ASTs 37A through D. ASTs 37A through D were located in the open area south of Building 14. ASTs 37A, B, and C had 6,500-gallon capacities, and AST 37D had a 4,800-gallon capacity. The four tanks contained combustible liquids including JP-5, diesel, heavy oils, spilled solvents, and fuels. All four tanks were removed and certified clean by Superintendent of ShipBuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment in a memorandum, dated July 24, 1997 (Tetra Tech 2003b). These tanks have been integrated with the Total Petroleum Hydrocarbon (TPH) Program. Closure of these tanks will be conducted as part of activities at CAA 11-A.

USTs 14-1 through 14-6. These USTs comprise UST(R)-06, a group of six non-permitted RCRA USTs. USTs 14-1 through 14-6 were associated with Building 14 operations. USTs 14-1 through 14-3 were steel, 10,000-gallon tanks that stored lubricating oil. These tanks were removed in November 1994, with no over-excavation. Two USTs were observed to be in good condition upon removal, but UST 14-1 was leaking. UST 14-4, a steel, 1,000-gallon waste oil tank, was removed in November 1994. This tank is considered a RCRA tank because of its contents. Over-excavation of this tank was conducted as part of a hot-spot removal of TPH-contaminated soil. UST 14-5, a steel, 4,500-gallon gasoline tank, was removed in December 1994 and was observed to be leaking. Over-excavation of this tank was also conducted as part of a hot-spot removal of TPH-contaminated soil. UST 14-6, a steel, 600-gallon diesel tank, was removed in November 1994 with no over-excavation. The tank was observed to be in good condition upon removal. Corrective action is in progress in the area under the TPH program. Any remaining contaminants in groundwater will be addressed under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Closure of these tanks will be addressed after the remediation of CAA 11-A is completed.

Building 627. Building 627, the engine components facility, was built in 1986. The 1,200-ft^2 building was used as an engine storage facility. Currently, the building is not occupied.

Former Building 118. Building 118 was formerly known as the flower shop and the shoe repair shop (ERM-West 1994). Chemicals stored in this building included insecticides, lubricants, acetone in aerosol containers, spray paint, bleach, shoe polish, oils for machinery, methylchloride, and chlorinated hydrocarbons (ERM-West 1994). Based on aerial photographs and the 1994 EBS report, Building 118 was removed between 1994 and 1996 (Pacific Aerial Surveys, various years; ERM-West 1994).

Former Building 180. Former Building 180 was built in 1958 and measured about 200 ft^2. The building was a wood frame structure with a concrete floor and corrugated steel siding and roof. It was historically used as a pumping station and as a small office space. Small quantities of motor gasoline (MOGAS) and diesel fuel were stored in a cabinet in the northeast corner of the building (ERM-West 1994). Observation of staining was not mentioned in the EBS report for former Building 180 (ERM-West 1994). No information is available regarding the demolition date for this building.

Former Building 265. Building 265 was built in 1945 and is a 251-ft^2 cinderblock structure. It was used for plant services for aircraft overhaul. The building was also formerly used for storage but was empty during the 1994 EBS. During the EBS, stains were noted on the ground in the east room (ERM-West 1994). Based on aerial photographs from 1996, the only remaining portion of Building 265 is a concrete pad (Pacific Aerial Surveys, various years).

Underground Storage Tanks (UST) 37-1 through 37-4. USTs 37-1 through 37-4 were 25,000-gallon tanks storing diesel (USTs 37-1 and 37-3), gasoline (UST 37-4), and various fuels (UST 37-2) (Tetra Tech 2003c). USTs 37-1 through 37-4 were removed in November 1994, with no reported signs of damage (Tetra Tech 2003c). Widespread petroleum contamination was present, and corrective action is ongoing. Closure of these tanks will be addressed after the remediation of CAA 11-A is completed (Tetra Tech 2003a).

Fuel Lines. IT removed the fuel lines located east of Seaplane Lagoon in 1998 (Tetra Tech 2000c). Elevated concentrations of TPH and TPH-associated compounds were present in confirmation groundwater samples collected near the southern fuel lines. Groundwater samples were not collected near the northern fuel line (Tetra Tech 2001b).

Storm Sewers. Several storm sewer lines are located at Site 11 (see Figure 7-2). They flow to various outfalls, including Outfalls H, I, and J. As shown in Figure 7-2, the various segments of these lines were categorized and prioritized based on their condition and whether they are submerged in groundwater (Tetra Tech 2000b). Storm sewer lines are considered to be possible preferential pathways for contaminants in groundwater, if they are below (or likely below) the groundwater table and exhibit sags in areas where they intersect a groundwater contaminant plume. The sags indicate areas where the storm sewer appears to have settled. They do not necessarily indicate breaks in the line where groundwater could infiltrate into the storm sewer.

One storm sewer line runs along the entire northern boundary of Site 11, including a segment from manhole 5H to 3H that is below the groundwater table. One catch basin (4HA) located just north in the vicinity Building 162 in Site 21 connects to this line. The condition of this line is unknown. Another storm sewer line originates from catch basin 2H-1B located just west of former USTs 37-17 through 37-20. This line flows north through catch basins 2H-1A and 3HA and under manholes 2H-1 and 2H before joining the storm sewer line on the north boundary. The portion of this line from catch basins 2H-1A to 2H-1 is below the groundwater table but in good condition; the integrity of the rest of the line is unknown. A line in good condition below the groundwater table also flows from manholes 2H to 1H. Several lines originate on the south end of Site 11 near former USTs. The two segments originating at manholes IBA and IBB are likely below the groundwater table but are in good condition. One segment below the groundwater table originating from manhole I and extending to catch basin IB is in disrepair, and significant infiltration was observed when this line was surveyed by Tetra Tech in 2000. An additional line originates on the eastern side of Site 11 at manhole I24 and extends south off site through catch basin 3J-3A. This line is either likely above the groundwater table or was not investigated. OWSs around Building 14 were connected to the storm sewer system (Tetra Tech 2000b).

Open Space. Site 11 is approximately 70 percent open space consisting of paved vehicle parking and storage areas. Historically, the open space areas at Site 11 have been used for fuel storage (in USTs and ASTs), hazardous materials storage lockers, refueling, miscellaneous parts and equipment storage, aircraft engine storage (in the northeast portion), trash disposal dumpsters, and chemical storage on the south side of Building 162 (located in Site 21) (ERM-West 1994). The southern portion of Site 11 has historically been used as a refueling and fuel storage area. Various on-site ASTs ands USTs stored lubrication oils, gasoline, diesel fuel, oily wastewater, and JP-5. The locations of these ASTs and USTs are visible in historical aerial photographs beginning in 1957 (Pacific Aerial Surveys, various years). Staining is evident in the southern portion of the site in aerial photographs from 1957, 1969, 1988, and 1996; the origins of the staining is unknown (Pacific Aerial Surveys, various years).

7.1.2 Future Land Use

According to the "Naval Air Station [NAS] Alameda Community Reuse Plan," Site 11 is located in the Marina District (see Figure 2-2). The most likely reuses for Site 11 include residential and commercial or light industrial activities (EDAW, Inc. [EDAW] 1996).

The Marina District is planned to cover about 126 acres around the entire shoreline of the Seaplane Lagoon. The Navy used this reuse area primarily for deepwater ship and seaplane berthing, and equipment storage and repair. A proposed open space promenade extending from the Civic Core would open into a civic plaza as it meets the water's edge in the area. A hotel and conference center would be built on 4 acres. Civic uses, such as office space, a cultural arts center or theater, and recreational areas, could front the plaza. Housing in the area would be limited to the eastern shore of Seaplane Lagoon and would provide opportunities for a mix of housing types and income levels. Housing could include artists' lofts, apartments for low- to moderate-income families, and townhouses consistent with Measure A and the City Charter (Navy 1999c).

7.2 SITE 11 ENVIRONMENTAL INVESTIGATIONS

This section describes each environmental investigation conducted at Site 11 under the Installation Restoration (IR) Program, which include investigations conducted under CERCLA, the EBS, and the TPH Program. No data were collected under the RCRA Program. Tables 7-1 and 7-2 summarize the soil and soil gas and groundwater samples collected by investigation and the types of analyses conducted. Sampling locations are shown on Figures 7-3 and 7-4 and are categorized by investigation. Results for each of the investigations are summarized in Tables 7-3 through 7-14. The summaries are organized according to medium and analytical group and include the following information (1) the number and percent of detections of chemicals; (2) the average, minimum, and maximum detected concentrations; (3) minimum and maximum detection limits for non-detected samples; and (4) whether the maximum detected concentrations or detection limits exceed Region 9 residential preliminary remediation goals (PRG) or California-modified PRGs (U.S. Environmental Protection Agency [EPA] 2002). PRGs and maximum contaminant levels (MCL) are provided in the tables for comparison purposes only.

The following subsections summarize investigations conducted at Site 11 under CERCLA, the EBS, and the TPH Program.

7.2.1 Comprehensive Environmental Response, Compensation, and Liability Act Investigations

Investigations conducted at Site 11 in conformance with CERCLA include the Phases 2B and 3 investigation, follow-on investigations in 1994 and 1998, supplemental RI data gap sampling, basewide groundwater monitoring, and a basewide polynuclear aromatic hydrocarbon (PAH) investigation. Each investigation is summarized below.

Phase 2B and 3 Investigations, 1991. In 1991, an initial RI at Site 11 was conducted as part of the Phase 2B and 3 investigation activities. Sampling was conducted in accordance with the RI field sampling plan (FSP) (Canonie 1989 and 1990). The objectives of the work plan were to determine if soil and groundwater were contaminated in areas identified as potential waste release sites (Canonie 1989 and 1990). Many potential waste release sites were first identified during the initial assessment study conducted in 1983 (Ecology and Environment, Inc. 1983) and a confirmation study conducted in 1985 (Wahler Associates 1985). Other potential release sites are identified in the RI/FS sampling plan (Canonie 1989 and 1990). The waste release areas were generally identified as buildings, tank locations, and other areas where activities could have contaminated soil and groundwater. As more information has become available through additional investigations, site boundaries have, in general, expanded to encompass groundwater plumes.

The RI/FS sampling plan identifies Building 14 as a potential waste release area currently located within the Site 11 boundary. The objective of Building 14 sampling activities was to determine if contamination (including mercury) had been introduced to the subsurface by surface spills or leaks in the subsurface sewer system. The types of samples collected and analyses performed were developed based on information gathered during the March 1998 site visit, review of existing reports, and review of EPA comments and concerns (Canonie 1989 and 1990).

Seven soil borings were drilled at Site 11: M11-01, M11-02, M11-03, B11-05, B11-06, B11-04 and B11-07 (see Figure 7-3). A total of 21 soil samples were collected from soil borings located within the current Site 11 boundary. Surface soil samples were analyzed for semivolatile organic compound (SVOC), total recoverable petroleum hydrocarbons (TRPH), and metals. Subsurface soil samples were analyzed for the same chemicals plus volatile organic compounds (VOC) (see Table 7-1).

Monitoring wells were installed in four of the seven soil borings: M11-01, M11-02, M11-03, and M11-04. Two monitoring wells were installed on the south side of Building 14, and the other two were installed on the north side of Building 14 (see Figure 7-3). Four groundwater samples were collected, one from each monitoring well, and were analyzed for VOCs, SVOCs, TRPH, metals, ethylene dibromide (EDB), total organic carbon (TOC), pH, physical parameters, and anions (see Table 7-2).

According to the investigation summary for Site 11 (PRC Environmental Management, Inc [PRC] and Montgomery Watson [MW] 1995a), VOCs, acetone, carbon disulfide, methylene chloride, 1,2-DCE, and xylene were detected in soil. Acetone was detected in all but one sample, methylene chloride was detected in 15 samples, and total 1,2-DCE and xylene was detected in one sample. PAHs were detected in native soils only at depths of 8 feet or more. Metals detected in soil samples at Site 11 included beryllium (30 samples), copper, lead and nickel (31 samples), and mercury (7 samples). Determination of whether levels of contaminants exceed respective PRGs was not disclosed (PRC and James M. Montgomery [JMM] 1992).

Follow-On Investigation, 1994. The purpose of this investigation was to fill data gaps from previous investigations by collecting additional chemical, geological, and hydrogeological data to further characterize the nature and extent of soil and groundwater contamination at Site 11. Field activities included a direct-push investigation, cone penetrometer testing (CPT), soil sampling, monitoring well installation, and storm drain sediment sampling (PRC and MW 1995a).

The objective of the CPT sampling program was to evaluate lithology and hydrogeologic characteristics below 15 feet below ground surface (bgs) and to identify the second water-bearing zone (SWBZ). Two CPT points (CPT-S11-01 and CPT-S11-02) were tested at Site 11. No soil samples were collected during the CPT; however, two direct-push groundwater samples (DHP-S11-01 and DHP-S11-02), one from each CPT location, were collected from the SWBZ (see Figure 7-3). The samples were analyzed for VOCs (including benzene, toluene, ethylbenzene, and xylene [BTEX]), TPH, metals, and general chemical characteristics (including total dissolved solids (TDS), TOC, and chemical oxygen demand [COD]) (see Table 7-2).

Soil samples were collected from seven soil borings (B11-08 through B11-14) (see Figure 7-3) to further evaluate the vertical nature and extent of TPH contamination. In addition, groundwater samples were collected during installation of each of the two monitoring wells (M11-05 and D11-01) at Site 11, and soil samples were collected from the surface and 2.5 and 5 feet bgs from the boring associated with monitoring well M11-05.

One shallow (M11-05) and one deep monitoring well (D11-01) were installed at Site 11 (see Figure 7-3). A quarterly groundwater monitoring program was conducted from October 1994 to August 1995. Samples were collected each quarter from monitoring wells M11-01, M11-02, M11-03, M11-04, and M11-05 and analyzed for VOCs, SVOCs, EDB, dissolved metals, cyanide, pesticides and polychlorinated biphenyls (PCB), TPH, sulfide, and general chemistry parameters (see Table 7-2).

A storm drain sediment sample (NPS-S11-01) was also collected from Site 11 from the storm drain located on the western side of Building 14. The sample was analyzed for VOCs, SVOCs, TPH, and metals.

According to the data summary report (PRC and MW 1995a) TPH as motor oil was detected in 13 of 33 soil samples from the south-central and west sides of Building 14. Solvent-related VOCs were detected in four wells located along the north side of Building 14 as well as petroleum hydrocarbon-related VOCs. TPH as motor oil was detected in all four direct-push samples from the SWBZ (PRC and MW 1995a).

Storm Sewer Removal, 1997. This removal action was conducted to address elevated levels of organic and inorganic contaminants in the sediments and debris located within the storm sewer system. The Navy Public Works Center, using a vacuum, removed sediments and debris within the catch basins and manholes of the storm sewer system (Phase I of the removal action) and IT removed sediments and debris in the storm sewer system lines and associated manholes (Phase II of the removal action). Following the removal action, closed-circuit television was used to survey cleaned lines. Site-specific objectives of this removal action were to reduce the potential for sediments and debris in the storm sewer system, which contain elevated concentrations of VOCs, SVOCs, pesticides, heavy metals, and fuel-related hydrocarbons, from impacting nearby human populations, animals, the food chain, drinking water supplies, or sensitive ecosystems.

Site 11 contains storm sewer lines that are part of Subsystems B and H (see Figure 7-2). Chemicals were not detected at Site 11. According to the storm sewer summary report, Site 11 had seven non-priority storm sewer lines in sound condition and recommended NFA for these lines (Tetra Tech, 2000b).

Follow-On Investigation, 1998. The purpose of the 1998 investigation was to further characterize groundwater plumes, monitor plume movement, and provide input to and model the effects of the natural attenuation processes through quarterly groundwater sampling and a tidal influence study. Four quarters of groundwater monitoring and sampling were conducted during this investigation. Samples were collected each quarter from monitoring wells M11-01, M11-02, and M11-05 (see Figure 7-3). Samples collected were analyzed for VOCs, metals, and general chemistry parameters (see Table 7-2).

To further evaluate the extent of chlorinated solvent plumes that covered multiple sites at OU-2B, several groundwater samples were collected using direct push techniques. A total of 33 groundwater samples were collected at depths ranging from 11.5 to 45 feet bgs from 9 locations within the Site 11 boundary (see Figure 7-3). See Tables 7-2 for a list of samples and analyses performed.

The tidal influence study was conducted over 24 hours and included 23 wells. Five wells were located in the southeast corner of Alameda Point, and one deep monitoring well (D11-01) was monitored. Monitoring well D11-01 (screened from 50-60) had the largest tidal fluctuation in the southeast portion of NAS Alameda, with 1.1 feet of elevation change during the 24-hour study period (Tetra Tech 1997a). This monitoring well is located approximately 585 feet from Seaplane Lagoon and had an estimated lag time for tidal response of 1 hour.

According to the investigation summary (Tetra Tech 1997c) at Site 11, concentrations of one or more organic compounds exceeded their respective MCLs. During the investigations VOCs, trichloroethene (TCE) and vinyl chloride, were detected in various concentrations much lower then the neighboring Site 4. The metals (arsenic, barium, cadmium, chromium, cobalt, lead, copper, manganese, mercury, molybdenum, nickel, selenium, vanadium, and zinc) were also detected (Tetra Tech 1997c). Determination of whether levels of metals were elevated was not made (PRC and MW 1993b).

Supplemental Remedial Investigation Data Gap Sampling, 2001. The specific objectives of data gap sampling at Site 11 were (1) delineation of chlorinated VOCs plumes in groundwater, (2) investigation of storm sewer pathways, and (3) soil gas sampling to support vapor intrusion modeling in the HHRA (Tetra Tech 2001b, 2002). As the data for Site 11 were evaluated, it became apparent that characterization of the lateral limits of the groundwater contamination plume was insufficient. Subsequently, the Navy implemented the data gap sampling program in 2001 and 2002. The overall objectives of data gap sampling at Site 11 were to investigate TPH in groundwater at the following locations: (1) along the fuel line northwest of USTs 37-1 through 37-4, and (2) at two OWSs near Building 14. To evaluate these plumes, one soil sample and five groundwater samples were collected using direct-push and hand-auger techniques (see Figure 7-3). Six monitoring wells were also sampled. Samples collected using direct-push and hand-auger techniques were analyzed for VOCs, SVOCs, general chemistry, dissolved gases, and TPH (see Table 7-2). Groundwater samples from monitoring wells were analyzed for VOCs, TPH, SVOCs, and general chemistry parameters (see Tables 7-1 and 7-2).

Based on the review of the results for the groundwater investigation (Tetra Tech 2002), limited investigation of soil and groundwater was performed for TPH and BTEX contamination. TPH contamination was detected at two OWSs near Building 14. The lateral and vertical boundaries of the VOC and TPH plumes have been defined. One step-out sample is recommended at this location. Because TPH plumes are commingled with the chlorinated VOCs, the investigation will be managed under the CERCLA program.

Site 11 contains storm sewer lines that are part of Subsystems B and H. One storm sewer line at Site 11 was designated for evaluation during this investigation. This line reportedly drained through Outfall I into the Seaplane Lagoon. Catch basin IA could not be located. Adjacent catch basins IBB and I were found to be dry and shallow (above the level of groundwater). Surface paving suggests IA was paved over and attempts to locate Outfall I were unsuccessful. Pavement patching at the location of Outfall I where it crossed the street to the Bay suggests that the line may have been removed.

Basewide Investigation of Transformer Pads, 2001. The Navy conducted a basewide investigation to identify transformers with PCB concentrations greater than 50 parts per million for replacement. Wipe samples were collected around stained transformers, and no PCB contamination in Site 11 was detected that warranted further action (Innovative Technical Solutions, Inc. 2002).

Basewide Groundwater Monitoring, 2002. Three shallow wells (M11-01, M11-04, and M11-05) and one deep well (D11-01) were sampled at Site 11 (see Figure 7-3). The three shallow wells were sampled quarterly for VOCs and TPH and semiannually for dissolved metals, dissolved gases, and general chemistry parameters (see Table 7-2). The deep well (D11-01) was sampled semiannually for VOCs, TPH, dissolved metals and gases, and general chemistry parameters (Shaw Environmental 2003a).

According to the data summary report, concentrations of one or more chemicals exceeded their respective 2002 MCL's. These chemicals included TCE, 1,1-dichloroethane (1,1-DCA),

1,1-dichloroethene (1,1-DCE), vinyl chloride, 1,2-DCE (cis), 1,2-DCE (trans), 1,4-dichlorobenzene, benzene, total petroleum hydrocarbons (TPH), aluminum, arsenic, selenium, lead, thallium, nickel, and chromium (Shaw Environmental, 2003a).

According to the data for the summer 2002 investigation, VOCs and TPH were detected at concentrations exceeding MCLs in various locations in the first water-bearing zone (FWBZ). Aluminum and selenium, however, were detected in the FWBZ and SWBZ. Fall 2002 results indicated that TCE, DCE, cis-1,2-DCE, and vinyl chloride were detected in the upper zone of the Merritt Sand located west and downgradient of Building 360. The samples collected from wells installed in the "upper sandy zone" along the eastern perimeter did not have VOC detections exceeding the MCLs. Winter 2002 results indicated that the distribution of TCE in the upper fine-grained zone of the Merritt Sand is similar in distribution between the summer and winter investigations of 2002 (Shaw Environmental, 2003a).

When compared to the winter data, TCE concentrations in various wells have fluctuated. Groundwater elevations from the wells show a general increase in groundwater elevations between the Winter 2002 and the Spring 2003 sampling events. Since the Fall 2002 event, 1,1-DCE concentrations appear to vary in response to water levels.

Basewide PAH Investigation, 2003. The objective of this investigation was to collect sufficient PAH data to calculate exposure point concentrations (EPC) for risk assessments at CERCLA sites (Bechtel Environmental Inc. [Bechtel] 2003a). The historical PAH data collected at each CERCLA site were used to estimate the mean and standard deviation of benzo(a)pyrene B(a)P concentrations to determine the appropriate number of samples to collect at each site. At Site 11, 21 soil borings were advanced using direct-push methods (see Figure 7-3). Samples were collected separately from 0 to 0.5, 0.5 to 2, 2 to 4, and 4 to 8 feet bgs.

According to the technical memorandum (Bechtel 2003a), PAHs (expressed as B[a]P equivalents) were detected at concentrations below the 2002 residential soil PRG of 62 microgram per kilogram (μg/kg) in 83 percent of the samples, and concentrations were less than 620 μg/kg in 99 percent of the samples (Bechtel 2003a). Data quality was determined to be adequate.

7.2.2 Environmental Baseline Survey Investigations

The EBS at Site 11 was a fence-to-fence environmental survey of the installation with the purpose of collecting data and documenting current environmental conditions. Site 11 lies within Zones 17 and 19, which consist of EBS Parcels 137, 138A, and 140A (see Figure 7-1). As a part of the EBS, these parcels were investigated under the Phase 1 and Phases 2A and 2B investigations and a storm water corridor study. Each EBS-related investigation is discussed below.

Phase 1. The primary objectives of this investigation were to identify Community Environmental Response Facilitation Act of 1992 (CERFA)-eligible parcels and classify them

into area types in accordance with the Base Realignment and Closure [BRAC] Cleanup Plan (Tetra Tech 1998c). Based on this evaluation, Parcels 138A and 140A were designated as BRAC Area Type 7, which includes "areas that are unevaluated or that require further action" (ERM-West 1994). Parcels in this category have data gaps that require additional physical inspection, site history investigation, and/or sampling. Parcel 137 was designated as BRAC Area Type 6, which includes "areas of known contamination where required response actions have not yet been implemented" (ERM-West 1994). Based on these BRAC designations, Site 11 was investigated under the next phases of the EBS, Phases 2A and 2B.

Phases 2A and 2B. Soil and groundwater samples were collected and analyzed in 1995 to fulfill recommendations made during Phase I of the EBS. Soil sampling was conducted at Parcel 137 in June 1995 to investigate staining observed in the Dyno Buildup Shop located inside Building 14. Industrial and sanitary sewer sampling was conducted at Parcel 137 from December 1994 to February 1995. Soil sampling was conducted at Parcel 138 in June 1995 to investigate the Structure 598 aircraft fuel storage area (south of Site 11), which covers approximately 2,500 ft^2. In addition, zone-wide samples were collected along the railroad tracks. Soil samples were collected in June 1995 at Subparcel 138A as part of the Phase 2A EBS (IT 2001a). Samples were collected from 17 locations during this investigation. See Table 7-1 and Figure 7-4 for a list of analyses conducted and sampling locations.

The reported metal concentrations for Parcel 138A (northwest of Building 170 and southeast of Building 14) in soil samples were within the NAS Alameda background concentrations and below the 1996 PRGs, excluding concentrations of arsenic, beryllium, and mercury. Arsenic and beryllium were detected above their 1996 PRGs but below their background concentrations in each sample. Mercury, which does not have a 1996 PRG, was detected above its background concentration in three samples.

Analytical results of the subsurface samples did not report detectable concentrations of any target VOC compounds for Building 14. However, a low concentration of methylene chloride was detected in one sample at Parcel 138 (southeast of Building 14) below its 1996 PRG.

Several SVOCs were detected in samples collected from Parcel 138 soils at concentrations below 1996 PRGs.

TPH quantified as motor oil, diesel, and gasoline was detected in multiple soil samples at low concentrations at Building 14 (Parcel 137). Motor oil, additionally, was detected at three sample locations. Diesel was detected at four locations with concentrations ranging from1.5 milligrams per kilogram (mg/kg) to 40 mg/kg. Gasoline was only detected in one sample at a concentration of 1 mg/kg. These reported diesel and gasoline concentrations are below the 1996 preliminary remediation criteria risk-based petroleum screening levels (IT 2001a).

Three pesticides (4,,4'-dichlorodiphenyldichloroethane (DDD), 4,4'-dichlorodiphenyltrichloroethane (DDT), and methoxychlor) were detected at concentrations well below their 1996 PRGs.

Storm Sewer Investigations. A storm sewer investigation was conducted at the same time as the Phase 2A and 2B sampling activities. This investigation was designed to address contaminants in the storm sewers. Two soil samples were collected from the storm sewer (135-SS-001 and 138-SS-001). See Table 7-1 and Figure 7-4 for a list of analyses conducted and sampling locations.

According to the storm sewer results of the EBS investigation (IT 2001a), several SVOCs were detected in the storm sewer corridor, located south of Building 14, at concentrations well below their 1996 PRGs. Additionally, oil and grease were detected in this area at a low concentration. The reported metal concentrations for this section of the storm sewer corridor are within the NAS Alameda background concentrations and/or below the 1996 PRGs.

7.2.3 Total Petroleum Hydrocarbon Program Investigations

After Alameda Point was identified for closure in September 1993, the TPH Program was implemented to decommission all USTs. Under the TPH Program at Site 11, investigations were conducted at CAA 11 (see Figure 7-1) and a petroleum hydrocarbon removal action was conducted near the southwest corner of Building 14.

In 1997, an investigation was conducted at CAA 11 to assess the lateral and vertical extent of TPH in soil and groundwater at CAA 11. Based on the initial results, step-out soil and groundwater sampling was conducted in 1997 (Moju 1998). USTs 37-1 through 37-8 and 37-13 through 37-20 were removed in 1998 (Tetra Tech 2003c). Significant soil staining and hydrocarbon odors were observed in the excavations (Tetra Tech 2001a). TPH levels in groundwater samples collected from the UST excavations and during the 1997 investigation indicated that floating product may be present near the former USTs and that a TPH plume may intersect the storm drain located in the southern portion of CAA 11 (Tetra Tech 2001a). Several soil and groundwater samples were collected and analyzed for various chemicals as part of the fuel line removal and UST investigation. See Tables 7-1 and 7-2 and Figure 7-3.

In 2000, during the data gap sampling investigation at the CAAs, additional sampling was conducted in relation to CAA-11. Seven sampling locations were sampled to assess the presence of floating free product. One groundwater sample was collected from each of the following piezometer locations: CA11-01, CA11-02, CA11-09, CA11-10, CA11-11, CA11-12, and CA11-13. No floating product was present in any of the samples (Tetra Tech 2001b).

Four sampling locations (CA11-14, CA11-15, CA11-16, and CA11-17) were sampled to assess soil and groundwater conditions near OWSs located at Site 11. Three soil borings were advanced to 8 feet bgs and one to 10 feet bgs, and nine soil samples were collected at depths ranging from 2 to 8 feet bgs. Eight groundwater samples were also collected, and a piezometer was installed at sampling location CA11-16 and checked for floating product 24 hours after installation (Tetra Tech 2001b).

Six sampling locations were identified to investigate soil and groundwater contamination from fuel lines. Six soil borings were advanced to 8 feet bgs, and six groundwater samples were collected from sampling locations CA11-21 through CA11-25 (Tetra Tech 2001b).

In 2004, corrective action activities were conducted at CAA-11. A petroleum removal action was conducted for free product and dissolved phase hydrocarbons from has been in operation since October 2002 (Shaw 2004b). Activities performed consisted of the continued operations of the full-scale biosparge system and the operation of a few dual-vapor extraction (DVE) wells. For the biosparging operation, monthly groundwater samples have been collected and analyzed for total TPH, VOCs, natural attenuation parameters, and hydrocarbons since December 2003. As of June 30, 2004, the biosparging system has run a total of 10,158 hours and only two wells out of 20 wells had concentrations of TPH (1.71 and 2.74 mg/L) above the remediation criterium of 1.4 mg/L.

The DVE system has been operating since October 2002. Sample results indicated that two wells (37IT-CA11-058) and (37IT-CA11-034) had detections of TPH concentrations above the PRC concentration for marine ecological risk. Operations of the Building 14 DVE wells commenced in October 2002; however, in July 2003 operations were reactivated after product reappeared at piezometer 37IT-CA11-058.

Despite the twice a week extractions, product continued to be present in DVE-5 and DVE-6. On June 16, 2004, three small exploratory excavations were conducted around the DVE wells to investigate the source of the product. No sources were observed in any of the excavations. Two 4-inch sumps were installed in two of the excavations followed by backfilling with clean import soil. Approximately 5,500 gallons of liquid were extracted from the Building 14 DVE wells. This liquid was processed through the Building 397 treatment system (Shaw 2004b).

7.2.4 Resource Conservation Recovery Act Investigations

A RCRA facility assessment (RFA) was conducted at Alameda Point in 1992 to identify SWMUs and areas of concern and to evaluate the need for and scope of an RCRA facility investigation (RFI). NADEP GAP 48 and UST(R)-06 were identified during the RFA (California Environmental Protection Agency Department of Toxic Substances Control [DTSC] 1992).

A RFI for Alameda Point was implemented through the coordination of existing environmental programs, namely under CERCLA and the TPH Program, and as part of the EBS. The final EBS report summarizes many results from RFA- and RFI-related activities at Alameda Point (IT 2001a). NADEP GAPs 47 and 48 were investigated during the Phase I EBS site inspection (ERM-West 1994) and an inspection in 2002 (Tetra Tech 2003a). DTSC recommended NFA for NADEP GAP 48 (DTSC 1999). DTSC recommended NFA for NADEP GAP 48 (DTSC 1999). Navy recommendations for NFA at NADEP GAPs 47 and 48 are included in Appendix I.

7.3 SITE 11 REMEDIAL INVESTIGATION RESULTS

The purpose of this section is to present the results of the investigations conducted at Site 11 in support of the CERCLA risk management process. Evaluations conducted at Site 11 included (1) a site-specific conceptual site model (CSM), (2) data quality assessment, (3) a background comparison, (4) a nature and extent evaluation, (5) a fate and transport evaluation, (6) an HHRA, and (7) an ERA. Sections 7.3.1 through 7.3.7 summarize the results of these evaluations. Appendices E, F, and G, respectively, present the complete background comparison, HHRA, and ERA.

7.3.1 Site-Specific Conceptual Site Model

The CSM for Site 11 was used to support the nature and extent evaluations and risk assessments by identifying potential sources of contamination, media affected, exposure pathways, and future receptors. Figure 7-5 presents the CSM for Site 11.

Through environmental investigations and literature searches, physical features or activities at Site 11 that might have generated hazardous waste or released chemicals to the environment were identified. The following Site 11 physical features and activities were identified as potential sources of contamination:

- Building 14 (equipment rework, engine preparation, engine testing and storage, and engine disassembly and assembly) – solvent cleaners, paint, paint solvents, trichlorotrifluoroethane, methylene chloride, chlorinated hydrocarbons, detergents, nonhalogenated organics, ferrocene, Freon, silicone oil, mercury, powdered metals, hydraulic fluid, turbine oil, JP-5, motor oil, and other petroleum products

- Building 14 and NADEP GAP 47 (hazardous waste storage) – a sump that managed mixtures of water and motor oil

- Building 14 and NADEP GAP 48 (hazardous waste storage) – drums of lubrication oil, engine oil, solvents, and aerosol paints

- Building 14, OWSs 14A through E (aircraft testing, engine cleaning, and repair) – connected to the storm sewer system, and used to separate oil and water/paint mixtures from water

- Building 14 and ASTs 14A, B, C, and D (engine cleaning, repair, and storage) – stored preservative oil, compressor cleaning solution, and smoke abatement chemicals

- USTs 14-1 through 14-6 (collectively referred to as UST(R)-06) (aircraft testing, repair, and storage) – stored lubricating oil, gasoline, and diesel

- ASTs 37A through D (aircraft testing and repair) – stored JP-5, diesel, heavy oils, spilled solvents, and fuels
- USTs 37-1 through 37-4 – stored diesel, gasoline and other various fuels
- Weed control – PCBs
- Placement of dredged fill material used to build the island – PAHs

Of these potential sources, Building 14, OWSs 14A and D, USTs 14-1 through 14-6, ASTs 37A through D, and USTs 37-1 through 37-4 and associated fuel lines and storm sewers were identified as likely sources of soil and groundwater contamination at the site.

Exposure pathways and primary and secondary release mechanisms may include the following:

- Direct release of petroleum hydrocarbons (TPH) to soil from activities associated with Building 14, OWSs 14A and D, ASTs, USTs, and associated fuel lines and storm sewers
- Direct release of PCB (Aroclor-1260) containing oils to soil
- Direct release of metals (copper) to soil from activities associated with Building 14
- Placement of fill material that contained PAHs
- Secondary release from soil to air through volatilization or resuspension of particulates
- Secondary release from soil to homegrown produce
- Secondary release from soil to the food chain from plant uptake
- Secondary release from soil to groundwater through infiltration (see Section 9.0)
- Direct release to groundwater (see Section 9.0)
- Secondary release from storm sewers to surface water (seeSection 9.0)

As Figure 7-2 shows, storm sewer lines at Site 11 were categorized as follows: (1) not below the groundwater table, (2) below the groundwater with no cracks or significant groundwater infiltration observed, or (3) below the groundwater table with cracks and significant groundwater infiltration observed (Tetra Tech 2000b). Lines in the third category are considered to provide a possible preferential pathway for contaminants in groundwater (see Section 9.0)

As the CSM for Site 11 shows (see Figure 7-5), residential, commercial/industrial, and construction worker receptors were identified as potential human receptors, and exposure pathways include ingestion, inhalation, and dermal contact with soil and groundwater and inhalation of ambient and indoor air. Direct contact with soil and the food chain also were identified as complete terrestrial ecological exposure pathways. In addition, exposure of marine ecological receptors to contaminants through groundwater discharged to the Seaplane Lagoon was identified as a complete ecological exposure pathway and is discussed in Section 9.0.

7.3.2 Data Quality Assessment

As discussed in Section 7.2.1, investigations were conducted at Site 11 under CERCLA, the EBS, and the TPH Program in order to identify and assess the extent of contamination in soil and groundwater and to determine risk. Data were collected over a period of approximately 10 years using a biased and phased sampling approach. Sampling focused on the objectives below.

- Assess locations near buildings, tanks, and other areas where historic site activities could have contaminated soil and groundwater.
- Evaluate the extent of chlorinated solvent plumes that cover multiple OU-2B sites.
- Investigate TPH in groundwater along the fuel line northwest of USTs 37-1 through 37-4 and at two OWSs near Building 14.
- Evaluate fill material and native sediments to determine if PAHs are present in soil and sediment.

Detection limits for some of the data used to evaluate Site 11 are elevated over the current residential PRGs (EPA 2002); these elevated detection limits are the consequence of one or more of the following circumstances: (1) the evolution of lower detection limits as technology improves, (2) the revision of PRGs over time (which are not always technologically feasible), (3) and matrix interference. The first two of these circumstances generally do not result in significantly elevated detection limits. However, matrix interferences sometimes cause significant elevations in the detection limits for a chemical contaminant; which leads to uncertainty as to whether that undetected compound could be present in significant concentrations at a site. Although some detection limits (sample quantitation limits) were elevated above 2002 PRGs, detection limits for non-detected chemicals were typically sufficiently low to permit identification of potential health risks.

Because detection limits for non-detected SVOCs in soil were elevated, the need for further sampling and analysis of soil may be necessary to confirm these chemicals are not present in site soil. Although soil data gaps were identified, it was determined that the types and numbers of samples collected at the site (see Figures 7-6 through 7-12) and the analyses conducted (see Table 7-15) were sufficient to characterize the site and conduct risk assessments because data collection focused mainly on potential sources and was conducted in phases. The phased

approach afforded stakeholders opportunities to provide feedback on the suitability or adequacy of the data and the need to collect additional data to identify releases and complete the RI report. There is a low potential of any source at the site not being adequately evaluated or of recommending NFA if it poses a potential risk to human health or the environment.

Both definitive and screening-level data were generated. Screening data were considered appropriate for use in only nature and extent and fate and transport evaluations. See Section 3.4.2 for further detail regarding determining data quality and the use of definitive and screening-level data. In general, definitive quality data are consistent with EPA Analytical Level III, as specified in EPA's "Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA" (1988a), and samples were analyzed in accordance with Contract Laboratory Program methods. Because laboratory detection limits for older PAH data were elevated and the 2003 PAH data were collected to replace older data, only PAH data from the 2003 sampling event were used in this RI.

Data generated during the environmental investigations that were considered to be of sufficient quality for use in the RI are presented in Appendix D. For this RI, groundwater is addressed OU-wide rather than by site; therefore, groundwater data from Site 11 and the other OU-2B sites are discussed in Section 9.0. Table 7-15 summarizes the CERCLA, EBS, and TPH investigation results for soil. The summary is organized according to analytical group and includes the following information: (1) the number and percent of detections of chemicals; (2) the average, minimum, and maximum detected concentrations; (3) minimum and maximum detection limits for nondetected samples; and (4) whether the maximum detected concentrations or detection limits exceed Region 9 residential PRGs or California-modified PRGs (EPA 2002). PRGs and MCLs are provided in the tables for comparison purposes only.

7.3.2.1 Soil

At Site 11, soil samples collected under the environmental investigations were analyzed for VOCs, SVOCs, PAHs, TPH, pesticides, PCBs, metals, and general chemistry parameters (see Table 7-1). Of the samples collected and analyzed, 166 VOC and 64 SVOC results were considered acceptable for use in the RI. A total of nine sample results for pesticides/PCBs and 115 sample results for metals were considered acceptable. From the additional PAH sampling conducted in 2003, a total of 83 sample results were considered acceptable for use in the RI. Because of raised detection limits, PAH data for soil samples collected during previous investigations were not evaluated.

Laboratory detection limits for some other chemicals in soil exceeded residential PRGs (EPA 2002) and are noted in Table 7-15. Detection limits for a few non-detected analytes were also elevated above residential PRGs (EPA 2002); however, a majority of the analytes had detection limits below PRGs. Therefore, detection limits were sufficiently low to permit identification of potential health risks, excluding n-nitroso-di-n-propylamine for which detection limits exceeded the PRG in more that 50 percent of the non-detected samples.

A subset of the soil data were selected for use in the risk assessments, as shown in the following table. Data were considered to be appropriate for use if they (1) are validated and (2) reflect current site conditions. Data for soils that are no longer present at the sites because of removal actions were not included, because they do not reflect the current conditions at the sites. Risk from TPH was assessed separately (see Appendix H).

Soil data for each site were aggregated in depth intervals of 0 to 2, 0 to 4, and 0 to 8 feet bgs. The depth intervals evaluate potential exposures associated with site use. The 0-to-2 and 0-to-8 foot bgs depth intervals evaluate potential human health exposures, and the 0- to 4-foot bgs depth interval evaluates potential ecological exposures. The total number of samples for each analytical group included in the data set for each depth interval is summarized in the table below.

Summary of Site 11 Soil Data for Risk Assessment

Analytical Group	0 to 2 Feet bgs	0 to 4 Feet bgs	0 to 8 Feet bgs
VOCs	4	46	77
SVOCs	67	14	41
PAHs	40	60	80
Pesticides/PCBs	10	2	7
Metals	22	68	101

Although minimal data were available for VOCs in soil from 0 to 2 feet bgs, this is not perceived as a data gap because the site is paved, and it is unlikely that VOCs spilled on the pavement would infiltrate into the ground. Instead they would be more likely to run into storm drains or volatilize from the pavement. Data for 2 to 8 feet bgs are sufficient to capture the nature and extent and risk from VOCs at the site.

Pesticide and PCB data collected under the EBS investigations did not indicate widespread or elevated concentrations; therefore, the presence of these compounds was not a focus of the RI investigations.

7.3.2.2 Groundwater

For this RI, groundwater is addressed OU-wide rather than by site; therefore, groundwater data from Site 11 and the other OU-2B sites are discussed in Section 9.0.

7.3.2.3 Soil Gas

No soil gas samples were collected at Site 11; therefore, groundwater data were used to evaluate indoor air risk in the HHRA. This evaluation is included in Section 9.0.

7.3.3 Background

A background comparison was conducted for Site 11 by comparing a background data set with analytical results for metals in samples representative of the site. This comparison was used to determine which metals in soil are statistically similar to background and the concentrations could either be considered naturally occurring (background) or potentially resulting from historical site activities. The complete approach is presented in Appendix E and summarized in Section 3.4.3.

Based on a comparison of the Site 11 soil data with the background data set for the pink area (Figure 3-3), the following metals in soil at Site 11 are not attributed to background:

- Calcium
- Cobalt
- Copper
- Iron
- Magnesium
- Manganese
- Nickel
- Vanadium
- Zinc

7.3.4 Nature and Extent

The main objectives of the nature and extent evaluation were to (1) present the types and concentrations of detected chemicals exceeding screening levels, (2) characterize the types and concentrations of chemicals that were used by the Navy, and (3) describe the spatial distribution and concentration patterns of all chemicals that demonstrate significant risk to human health or the environment (risk drivers). Risk drivers are defined by the risk assessments, which were conducted prior to this nature and extent evaluation, as those chemicals that pose a carcinogenic risk above 1E-06, an HI above 1, or pose potential risk to ecological receptors. Results of the nature and extent evaluation for Site 11 soil is presented below.

7.3.4.1 Chemicals Exceeding Screening Levels

The purpose of this evaluation is to provide an initial screening of chemical concentrations detected in soil at Site 11; it is not to quantify risk, which is conducted in the risk assessments. Concentrations of chemicals detected in soil were compared to screening levels, which consisted of Region 9 residential or California-modified PRGs (EPA 2002), and 0.62 mg/kg for PAHs (expressed as B[a]P equivalents), which was established under agreements between the Navy and agencies (Navy 2001b).

Sampling locations for chemicals with concentrations exceeding screening levels are presented on Figures 7-13, 7-14, and 7-18. Chemicals are grouped by analytical group, and sampling locations with concentrations exceeding these screening levels are designated.

Chemicals in soil exceeding these screening levels are summarized in the embedded table below. The summary is organized according to analytical groups and includes the maximum detected concentrations and the number of detected concentrations exceeding the screening levels.

Chemicals in Site 11 Soil Exceeding Screening Levels				
Analytical Group	**Location of Maximum Detection**	**Maximum Detected Concentration**	**Screening Level**	**Number of Detected Concentrations Exceeding Screening Levels/Total Analyzed**
Metals (mg/kg)				
Arsenic	137-IW-002	8.91	0.39	86/92
Chromium	137-IW-002	242	210	1/110
Iron	137-IW-002	33,200	23,000	5/92
Lead	M11-03	242	150	1/115
PCBs (µg/kg)				
Aroclor-1260	138-Z17-013	230	220	1/9
PAHs (mg/kg)				
B(a)P equivalents	C3S011B013	13.926	0.62	4/81

No SVOCs, VOCs, or pesticides in Site 11 soil exceeded screening levels. The following conclusions were made for metals, PCBs, and PAHs that are elevated above screening levels in Site 11 soil.

Concentrations of the metals arsenic, chromium, iron, and lead in Site 11 soil are elevated above screening levels. The maximum detections of arsenic, chromium, iron were detected in soil from 8 to 9 feet bgs collected at the same sampling location (137-IW-002). Sampling location 137-IW-002 is located in the northeastern corner of the site. Elevated concentrations of arsenic appear to be uniformly distributed across the site, which suggests these detections may be naturally occurring (see Figure 7-13). Chromium was elevated in only the one soil sample (sampling location 137-IW-002). Concentrations of iron were elevated in five soil samples collected across the site, generally near fuel lines. Arsenic, chromium, iron appear to be unrelated to storm sewers, buildings, or other site features. Lead was elevated in one soil sample (M11-03) collected at 0.3 to 0.8 feet bgs near the southwestern corner of Building 14 and a fuel line. Lead in soil may be associated with fuel use or lead based paint.

The PCB Aroclor-1260 was elevated above the screening level in one soil sample collected from outside of the southern boundary of the site and associated with Site 11 (sampling location 138-Z17-013). Although there is no apparent distribution pattern in this instance (see Figure 7-14), Aroclor-1260 is usually associated with transformer oil. Since the closest structures are a pair of removed USTs more than 30 feet to the west; the presence of this chemical may be associated with historical use of PCBs for weed control.

Elevated concentration of PAHs, expressed as B(a)P equivalents, in Site 11 soil appear to be localized in two regions, east of Building 14 and along the southern border of the site (see Figure 7-18). The maximum concentration was detected along the southern border of the site in a sample collected near two former USTs from 4 to 8 feet bgs. Elevated concentrations in soil to the east of Building 14 were detected at a depth of 0 to 0.5 feet bgs immediately below the parking lot and may be associated with asphalt.

7.3.4.2 *Characterizing Chemicals Used by the Navy*

The purpose of this evaluation is to provide additional information to determine whether contamination hot spots or data gaps are present at the sites. Chemicals believed to be used at Site 11 include petroleum hydrocarbons, chlorinated hydrocarbons, and solvents such as methylene chloride and acetone. Most of the chemicals detected across Site 11 are consistent with the historical activities that occurred at the site, which includes jet engine testing, equipment cleaning and repair, and use of petroleum products. A statistical summary of all soil results is presented in Table 7-15.

Even though TPH is not a CERCLA contaminant, soil and groundwater were sampled at various locations across Site 11 for TPH, which includes all TPH-fractions (TPH as diesel, gasoline, jet fuel, or motor oil) and TPH-associated constituents (BTEX and lead). An evaluation of TPH in soil and groundwater at Site 11 was conducted based on the TPH strategy for Alameda Point (see Appendix H) to assess contamination and possible risk at the site. Analytical results for soil and groundwater samples associated with Site 11 were screened against site-specific preliminary remediation criteria to evaluate the potential risk to human health and ecological receptors from TPH-related constituents using guidance for low-risk fuel site closure (California Regional Water Quality Control Board 1996). On the basis of this evaluation, NFA is recommended for Site 11 soil and further action is recommended for Site 11 groundwater for TTPH and TPH-associated constituents. TPH impacted groundwater is addressed further in the OU-wide groundwater section (Section 9.0). TPH impacted soil is discussed below, and TPH sampling locations for soil are presented on Figure 7-12.

The following table lists detected chemicals believed to be used at Site 11, the range of concentrations detected in soil at the site, detection frequency, and the sampling location of the maximum concentration detected. Figure 7-15 shows the locations of the samples with maximum concentrations.

Soil Analytical Results for Chemicals Believed to Have Been Used at Site 11

Chemical	Detection Frequency	Range of Concentrations (µg/kg)	Sampling Location of Maximum Concentration	Sample Depth (feet bgs)
VOCs				
Acetone	4/83	20 to 490	M11-02	9.5 to 11
Benzene	2/166	1.2 to 74	37-24NE	6
Chlorobenzene	1/93	2	030-MOD1-136	6.5
cis-1,2-DCE	1/23	15	135-SS-001	8 to 9
Ethylbenzene	1/166	120	37-26-MOJ	6
Methylene chloride	2/100	21 to 25	138-001-002	4 to 4.5
Toluene	3/166	6.2 to 89	137-24NE	6
Xylene (total)	5/158	2 to 180	37-26-MOJ	6
PCBs				
Aroclor 1254	1/9	30	138-Z17-013	1.5 to 2
Aroclor 1260[1]	3/9	24 to 230	138-Z17-013	1.5 to 2

Soil Analytical Results for Chemicals Believed to Have Been Used at Site 11				
Chemical	Detection Frequency	Range of Concentrations (µg/kg)	Sampling Location of Maximum Concentration	Sample Depth (feet bgs)
Metals				
Copper	94/106	4,777 to 101,000	137-IW-002	8 to 9
Lead[1]	100/121	0.78 to 242	M11-03	0.3 to 0.8
Petroleum Hydrocarbons				
TPH-diesel	45/165	0.05 to 570	B04-31	0 to 1
TPH-jet fuel	15/55	1,200 to 4,300,000	37-22E	7
TPH-gasoline	23/159	0.3 to 2,000	030-S07-036	0 to 5
TPH-motor oil	57/152	7 to 3,500	B11-12	0.5 to 1.5

1 Exceeded screening levels in one or more samples. Other chemicals exceeded screening levels, but were not believed to be used at Site 11; these chemicals include arsenic, chromium, iron, and PAHs.

Most of the chemicals detected across Site 11 are consistent with the historical activities that occurred at Building 14, including jet engine testing, equipment cleaning and repair, and use of petroleum products. There are three principal areas where chemicals appear to have been released to soil: (1) near fuel lines located in the southern portion of the site, (2) near OWS-162 and the storm sewer line running across the northern part of Site 11, and (3) near the industrial waste treatment line east of Building 627 (see Figure 7-15). Most of the maximum detected concentrations of those chemicals related to solvent and fuel use (BTEX, lead, chlorobenzene, and methylene chloride) were detected in soil near fuel lines, UST, and ASTs located in the southern portion of Site 11. This area served as the primary fuel storage area for jet engine testing conducted in Building 14.

The highest concentrations of BTEX compounds appear in soil located in the southern portion of the site near fuel lines at sample locations 37-24NE and 37-26-MOJ at approximately 6 feet bgs. These concentrations are likely associated with fuel spills and leaks that have occurred in this portion of the site. In addition, other VOCs that appear in this southern portion of Site 11 near the fuel lines include methylene chloride, and chlorobenzene.

The highest concentrations of chlorobenzene and methylene chloride occur at sampling locations 030-MOD1-136 and 138-001-002, respectively. Sampling location 030-MOD1-136 is located 120 feet south of the southeastern corner of Building 14, near USTs 37-17 and 37-18, which stored petroleum products. Sampling location 138-001-002 is located 190 feet south of Building 14, near AST-598A, which stored aviation gas. These sampling locations are south of the site boundary and far from Building 14, where these chemicals may have been used, and the concentrations detected are therefore likely associated with laboratory contamination of the samples.

In addition, PCBs (Aroclor 1254 and 1260) were detected in this area. The highest concentrations of Aroclor 1254 and Aroclor 1260 also occur just to the south of the Site 11 boundary at sample location 138-Z17-013 from 1.5 to 2 feet bgs and are likely associated with the use of PCBs as weed control. This is the only sample location where Aroclor 1254 was

detected. Aroclor 1260 was detected in two samples located within Site 11 from 2.5 to 3.5 feet bgs; however, each detection is below the PRG for this compound.

Chromium, copper, and 1,2-DCE were detected in samples collected from the northeastern portion of the site near OWS-162 and the storm sewer line running across the northern part of the site. The highest concentrations of 1,2-DCE was detected at sample location 135-SS-001 from 8 to 9 feet bgs, which is adjacent to OWS-162. 1,2-DCE is likely associated with the use of chlorinated solvents in Building 162 located at Site 21. This was the only location where 1,2-DCE was detected at the site. The maximum concentration of copper was also detected in samples collected from the northeastern portion of the site at sample location 137-IW-002 from 8 to 9 feet bgs. Copper was generally detected in samples from across the site; however, it was detected above background concentrations in samples from the northeastern portion of the site collected from 8 to 9 feet bgs. Copper also was detected in shallow samples collected immediately to the south of Building 14. Copper was used as a component in jet engine lubricant; therefore, elevated concentrations of copper located in shallow samples are likely the result of activities conducted at the site.

Acetone and mercury were detected at their maximum concentration in soil near the industrial waste treatment line east of Building 627. They were detected at sampling location M11-02 from 9.5 to 11 feet bgs.

Potential sources of TPH and TPH-associated constituents in soil includes Building 14 (aircraft testing and repair), which includes GAPs 47 and 48, OWSs 14A through E, and ASTs 14A through D. Other potential sources include USTs 14-1 through 14-6 and 37-1 through 37-4, ASTs 37A through D, and associated fuel lines and storm sewers. The maximum concentration of total TPH in soil was detected at 4,861 mg/kg in a sample collected near a fuel line just outside the Site 11 border at a depth of 7 feet bgs (sampling location 37-22E; see Figure 7-12). Total TPH concentrations range from 1 to 4,861 mg/kg. The maximum concentration of TPH related lead (242 mg/kg) was detected in a sample collected from 0.3 to 0.8 feet bgs, at a location southwest of Building 14 (M11-03).

The maximum concentration of TPH-gasoline (2,000 mg/kg) was detected in a sample collected west of Site 11 near a fuel line east of the Seaplane Lagoon at a depth of 0 to 4.5 feet bgs (sampling location 030-S07-008). The maximum concentration of TPH-motor oil (3,500 mg/kg) was detected in a sample collected at 7 feet bgs near a fuel line just outside the Site 11 border (sampling location 37-21SE). TPH-jet fuel was detected at a maximum concentration of 4,300 mg/kg at a depth of 7 feet bgs near a fuel line just outside the Site 11 border (sampling location 37-22E).

7.3.4.2 Risk Drivers

Following the evaluations of chemicals that exceeded screening levels and chemicals used by the Navy, a more detailed evaluation was conducted for those chemicals that pose potential significant risk (risk drivers). Risk drivers were not limited to those chemicals used by the Navy; selection of risk drivers was defined by the HHRA and ERA (see Sections 3.4.6 and 3.4.7). Risk

drivers are defined as those chemicals that pose a cancer risk above 1E-06, a hazard index (HI) above 1, or pose potential risk to ecological receptors. Background comparison results (see Section 3.4.3) were used to identify risk drivers attributed to background, and these drivers attributed to background were not evaluated further.

Based on the HHRA, Aroclor-1260, arsenic, benzo(a)anthracene, B(a)P, benzo(b)fluoranthene, and dibenzo(a,h)anthracene were identified as soil risk drivers. Based on the ERA, copper, and PAHs in soil were identified as soil risk drivers. According to the background comparison, arsenic is attributed to background, so it is not evaluated further.

The discussions below focus on the nature and extent of Aroclor-1260, copper, and PAHs in soil at Site 11. The evaluation of these contaminants primarily includes (1) site-specific figures to assess the spatial distribution and concentration patterns of the contaminants and (2) a review of the figures, data, and site hydrology to determine the boundaries of the contamination, the volume of the affected media, and identification, if possible, of the suspected source(s) of these chemicals. Table 7-16 summarizes the nature and extent evaluation.

Aroclor-1260 in Soil

Figure 7-16 shows the concentrations of Aroclor-1260 in soil at Site 11. The maximum concentration of Aroclor-1260 (230 µg/kg) was observed at sampling location 138-Z17-013 at a depth of 1.5 to 2.0 feet bgs. In addition, Aroclor-1260 was detected at sampling location EP138-01 in samples from two depths, 2.0 to 2.5 and 3.0 to 3.5 feet bgs; however, these detections did not exceed the risk based screening level of 220 µg/kg for Aroclor-1260 in soil.

The three detected samples of Aroclor-1260 in Site 11 soil were located outside the southern boundary of the site approximately 30 feet east of former USTs 37-5 and 37-6 between two parallel fuel lines. All detections were located in shallow soils not exceeding a depth of 3.5 feet bgs. Aroclor-1260 was not detected in any other sampling locations throughout the site.

Because Aroclor-1260 is not evenly distributed across the site, the isolated locations of detections suggest the contamination was caused by a single small release possibly applied as a weed controller. The lack of features surrounding the sampling locations suggests there is not a larger source causing a continual release of contamination.

Copper in Soil

Figure 7-17 shows the concentrations of copper in soil at Site 11. The maximum concentration of copper (101 mg/kg) was observed at 137-IW-002 at 8 to 9 feet bgs. In addition, samples collected from B11-06, B11-11, and M11-04 from 0 to 2 feet bgs contained copper at concentrations exceeding the maximum concentration observed in background soils of 49.1 mg/kg.

Copper concentrations exceeding the background soil level pose a risk to ecological receptors from 0 to 4 feet bgs and appear to be localized within surface soil (from 0 to 2 feet bgs) near the center of Site 11 immediately south of Building 14 and in soil in the northeast corner of the site from 8 to 9 feet bgs. Copper has been used at the site as a component in jet engine lubricants and appears to be located in an area where staining of the surface soil is evident in aerial photographs from 1957 to 1996 (Pacific Aerial Surveys, various years). The site has been paved since 1940 when Building 14 was built, however, materials may have reached the soil through cracks in the concrete or asphalt in the stained area.

Polynuclear Aromatic Hydrocarbons in Soil

Figure 7-18 shows the concentrations of PAHs in soil expressed as B(a)P equivalents. PAH concentrations at Site 11 are generally low; concentrations at four sampling locations (C3S011B007, C3S011B012, C3S011B013, and C3S011B020) exceed the screening level of 0.62 mg/kg for B(a)P. PAHs are elevated in samples collected from two areas, east of Building 14 and along the southern border of the site near former USTs 37-21 through 37-24.

The maximum PAH concentration of 13.9 mg/kg, expressed as a B(a)P equivalents, was detected in samples collected near the former USTs at a depth of 4 to 8 feet bgs (sampling location C3S011B013). Widespread petroleum contamination was present near these USTs, and corrective action is ongoing.

PAHs were also detected in soil from 0.5 to 2 feet bgs at sampling locations C3S011B007, C3S011B012, and C3S011B020. Sampling locations C3S011B013 and C3S011B020 are located along the southern border of Site 11 in an area used for vehicle parking.

PAHs at Site 11 likely are associated with fuel, asphalt, or the material used to fill in the San Francisco Bay and construct Alameda Point.

7.3.5 Fate and Transport

The objective of this evaluation is to determine whether the chemicals driving risk at Site 11 (1) have migrated or degraded, (2) are being released from a continuing source of contamination, and (3) are likely to be transported through groundwater or other potential pathways. The evaluation of these contaminants primarily includes the following activities:

- Identifying soil sampling locations with the maximum concentrations of these contaminants
- Evaluating the effect of groundwater flow or other potential pathways on the distribution of the contaminants

The following sections present the fate and transport evaluation for each chemical driving risks to human and ecological receptors at Site 11, which are Aroclor-1260, copper, and PAHs.

Because the site is currently paved, it is unlikely that sufficient soil would be exposed to transport chemicals in soil via wind. Therefore, this pathway is not evaluated.

7.3.5.1 Aroclor-1260 in Soil

Aroclor-1260 was detected in samples in an isolated area south of Site 11. The maximum concentration was detected in a surface soil sample 30 feet from former USTs 37-5 and 37-6 between two parallel fuel lines. Aroclor-1260 binds strongly to soils and becomes very immobile especially in low concentrations like those observed in Site 11 soils. Aroclor-1260 is also hydrophobic and will have a low tendency to become soluble and enter adjacent waterways and aquifers. The degradation of PCBs in soil is slow and may not occur at all, and they tend to be very persistent in soil. PCB compounds containing a low number of chlorine molecules can volatilize, however, the volatility of PCBs decreases and their tendency to bind to soil increases in general proportion to their numbers of chlorine molecules.

7.3.5.2 Copper in Soil

Copper was detected in samples collected from across the site. The maximum concentration was detected in samples collected from the northeast corner of the site; however, copper that poses a risk to ecological receptors is located in surface soils directly south of Building 14. Copper is relatively immobile under most soil conditions because it attaches strongly to organic material and minerals (ATSDR [Agency for Toxic Substances and Disease Registry] 2002). Copper that dissolves in water typically becomes rapidly bound to particles suspended in the water. Because copper binds so strongly to suspended particles and sediments, it typically does not enter groundwater (ATSDR 2002).

7.3.5.3 Polynuclear Aromatic Hydrocarbons in Soil

Low levels of PAHs in soil were detected across Site 11. The maximum concentration of PAHs, expressed as B(a)P equivalents, was detected in one sample collected from 4 to 8 feet bgs at sampling location C3S011B013, located in an area that formerly contained USTs 37-21 through 37-24. Those PAHs could be associated with the presence of petroleum hydrocarbon contamination. In addition, the B(a)P equivalent concentration exceeded 1 mg/kg at two other sampling locations, C3S011B007 and C3S011B0012, from 0 to 0.5 feet bgs. It is likely that PAHs in shallow soil are related to the petroleum-based asphalt that covers the site or they may be attributable to the fill material used to construct Alameda Point.

PAHs are not subject to degradation processes and bind to organic matter in soil. PAHs in soil are mostly insoluble in water and exhibit low potential for migration, but can become mobile in the presence of petroleum hydrocarbons (ATSDR 1995). The PAHs likely will remain in their present locations.

7.3.6 Human Health Risk Assessment

A site-specific HHRA was conducted for Site 11 as part of the RI to estimate potential human health risks associated with potential exposures to site-related chemicals during current and potential future uses of the site. Section 3.4.6 summarizes the approach used to conduct the HHRA. A summary of the HHRA results for soil at the site is presented below, and a summary of the OU-wide groundwater plume HHRA results are presented in Section 9.0. The following sections discuss chemicals of potential concern (COPC), the exposure assessment, and the risk characterization for the HHRA. Appendix F presents the complete HHRA.

7.3.6.1 Chemicals of Potential Concern

Data for soil and soil gas samples collected within and around the site boundaries of Site 11 were used to conduct the HHRA for soil. Only chemicals in soil considered to be essential nutrients were excluded as COPCs. The essential human nutrients that were excluded are calcium, magnesium, potassium, and sodium. All other chemicals were retained for evaluation in the HHRA. Lead was selected as a COPC and was evaluated using the LeadSpread model (DTSC 2003).

7.3.6.2 Exposure Assessment

According to reuse plans for Alameda Point, residential, and commercial/industrial uses most likely apply to future exposures at Site 4 (EDAW 1996; Navy 1999c). These exposure scenarios, along with the construction worker exposure, were evaluated for the following soil pathways:

- **Residential** - incidental soil ingestion, dermal contact with soil, inhalation of particulates from soil (non-volatile), ingestion of homegrown produce, inhalation of vapors in ambient air, and inhalation of vapors in indoor air
- **Commercial/Industrial** - soil ingestion, dermal contact with soil, inhalation of particulates from soil (non-volatile), inhalation of vapors in ambient air, and inhalation of vapors in indoor air
- **Construction Worker** - soil ingestion, dermal contact with soil, inhalation of particulates from soil (non-volatile), and inhalation of vapors in ambient air

For all receptors, soil data were aggregated in depth intervals of 0 to 2 feet bgs (surface soil) and 0 to 8 feet bgs (subsurface soil). Exposure to subsurface soil was evaluated for future receptors in the event that subsurface soils are brought to the surface during redevelopment activities.

7.3.6.3 Risk Characterization

The potential for noncancer health effects is expressed as an HI. If the resulting HI is less than 1, it is assumed that there is no significant potential for noncarcinogenic health effects due to

cumulative effects. If the total HI exceeds 1, a "segregation of hazard indices" analysis is conducted. In this analysis, chemicals that have similar target organs are grouped together, and an HI is calculated for each group. If the HI for a target organ exceeds 1, there is potential for noncancer health effects.

It is important to note that the noncancer HI is estimated differently than lifetime carcinogenic risk; specifically, a child's exposure is not cumulatively additive to the projected adult exposure. Noncancer effects manifest over a specific time period, and once the exposure period is over, the hazard has also passed (that is, no latency is assumed). Therefore, because a child receptor has the highest potential risk, risk management decisions for chemicals with noncancer health effects are based on the HI for a child for the residential and recreational scenarios. The total HI that includes background chemicals is calculated for all scenarios, and an incremental HI (which does not include background) is also calculated for the child resident.

Unlike noncancer health effects, which assume that there is no significant potential for noncarcinogenic health effects if the HI is below 1, carcinogenic risks associated with exposure to chemicals classified as carcinogens are estimated as the incremental probability that an individual will develop cancer over a lifetime as a direct result of an exposure. Risk management decisions for chemicals with carcinogenic effects are based on lifetime or total risk; therefore, risks for adult and child receptors are summed to obtain a total carcinogenic risk. To aid in the interpretation of the results, EPA guidance presents a range of goals for residual carcinogenic risk, which is "an excess upper-bound lifetime cancer risk to an individual of between 1 in 1,000,000 to 1 in 10,000" or between 1.0E-06 and 1.0E-04. The range between 1E-06 and 1E-04 is referred to as the "risk management range."

The reasonable maximum exposure (RME) carcinogenic risks and noncancer HIs for soil at Site 11 are summarized below by scenario. See Section 9.0 for a summary of risk from the OU-wide groundwater plume. RME and CTE carcinogenic risks and noncancer HIs are presented in Table 7-17.

Soil

For the commercial/industrial and construction worker scenarios, the highest RME carcinogenic risk for surface soil is 1E-05 for the commercial/industrial worker, which is within the risk management range (see Table 7-17). The highest total RME HI is 0.5 for the construction worker, which is below the risk management HI of 1. The RME HI for the commercial/industrial worker is 0.2. Commercial/industrial worker risk drivers for surface and subsurface soil are presented in Tables 7-18 and 7-19.

The residential scenario is considered the most conservative estimate of risk. For surface soil, the carcinogenic risk is 4E-05, which is within the risk management range. The HI for a child is 2, which is above an HI of 1. No individual chemical exceeds an individual HQ of 1. Risk drivers for surface soil include the following (see Table 7-20):

- Arsenic
- Aroclor-1260
- PAHs (B[a]P, benzo(a)anthracene, benzo(a)pyrene, dibenzo(a,h)anthracene)

Soil risks are attributed primarily to arsenic and benzo(a)pyrene. Arsenic at Site 11 is attributed to background. Concentrations of arsenic at the site are similar to concentration of arsenic in the background data set. The carcinogenic risks from PAHs alone are 3E-05 and are within the risk management range.

For the commercial/industrial and construction worker scenarios, the highest RME carcinogenic risk for subsurface soil is 8E-06 for the commercial/industrial worker, which is within the risk management range (see Table 7-17). The highest total RME HI is 0.4 for the construction worker, which is below the risk management HI of 1. The RME HI for the commercial/industrial worker is 0.1.

For subsurface soil, under the residential scenario, the carcinogenic risk is 4E-05, which is within the risk management range (see Table 7-17). The noncancer HI for a child is 2, which is above 1. No individual chemical exceeds an individual HQ of 1. Cancer risk drivers for subsurface soil include the following (see Table 7-21):

- Arsenic
- PAHs (B[a]P, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene)

Soil risks are primarily attributed to arsenic and PAHs. Based on the background comparison, arsenic is attributed to background. The carcinogenic risks from PAHs are 2E-05 and are within the risk management range.

Lead in Soil and Groundwater

Lead was selected as a COPC for Site 11 soil and the OU-wide groundwater and was evaluated using LeadSpread. Lead in site soil is attributed to background; lead in OU-wide groundwater is not attributed to background. The EPCs for lead are 70.8 and 29.1 mg/kg for surface and subsurface soil, respectively. For water ingestion, two EPC s were used: 7.38 µg/L for the OU-wide groundwater plume, and 0.15 microgram per liter (µg/L) for East Bay Municipal Utilities District (EBMUD) drinking water.

For surface soil, the LeadSpread model predicts that the 95th percentile estimate of blood lead is 4.1 µg/dL for a child ingesting Site 11 soil and OU-wide groundwater, and 3.1 µg/dL for a child ingesting Site 11 soil and EBMUD drinking water (see Appendix F). These values are below the comparison criterion of 10 µg/dL. Based on LeadSpread results, there is no appreciable risk to

human health from ingestion of lead in Site 11 soil and groundwater. The 10 µg/dL child blood lead level equates to a soil concentration of 221 mg/kg when EBMUD is the drinking water source.

For subsurface soil, the LeadSpread model predicts that the 95th percentile estimate of blood lead is 3.0 micrograms per deciliter (µg/dL)for a child ingesting Site 11 soil and OU-wide groundwater, and 2.0 µg/dL for a child ingesting Site 11 soil and EBMUD drinking water (see Appendix F). These values are below the comparison criterion of 10 µg/dL. Based on LeadSpread results, there is no appreciable risk to human health from ingestion of lead in Site 11 soil and groundwater. The 10 µg/dL child blood lead level equates to a soil concentration of 221 mg/kg when EBMUD is the drinking water source.

7.3.7 Ecological Risk Assessment

A site-specific ERA was conducted for Site 11 to estimate potential risks to ecological receptors. Section 3.4.7 summarizes the approach used to conduct the ERA. The following sections discuss Chemicals of potential ecological concern (COPEC), the ERA problem formulation, and assessment results. Appendix G presents the complete ERA.

7.3.7.1 Chemicals of Potential Ecological Concern

Data for soil collected within and around the boundaries of Site 11 were used to conduct the ERA. Table 7-22 summarizes COPECs for soil from 0 to 4 feet bgs. Groundwater was evaluated for all OU-2B sites and is discussed separately in Section 9.0.

7.3.7.2 Problem Formulation

Currently, Site 11 does not contain ecological habitat capable of supporting significant wildlife; however, exposure pathways for terrestrial receptors were considered potentially complete to provide a conservative estimate of risk. The following complete soil exposure pathways were identified for Site 11:

- Direct exposure to soil
- Food-chain exposure

Selected assessment and measurement endpoints include the following:

- Reproductive or physiological impacts to the California ground squirrel *(Citellus beecheyi)* as indicated by hazard quotients (HQ) developed based on both high (lowest observed adverse effect level [LOAEL]-based) and low (no observed adverse effect level [NOAEL]-based) toxicity reference values (TRVs)

- Reproductive or physiological impacts to the Alameda song sparrow *(Melospiza melodia pusillula)* as indicated by HQs developed based on both high (LOAEL-based) and low (NOAEL-based) TRVs

- Reproductive or physiological impacts to the American robin (*Turdus migratorius*) as indicated by HQs developed based on both high (LOAEL-based) and low (NOAEL-based) TRVs

- Reproductive or physiological impacts to the red-tailed hawk *(Buteo jamaicensis)* as indicated by HQs developed based on both high (LOAEL-based) and low (NOAEL-based) TRVs

7.3.7.3 Assessment Results

High and low TRVs were used to provide a bounding estimate of risk to each endpoint receptor. The high TRV represents an upper bounding limit, which is the lowest concentration at which adverse effects are known to occur. The low TRV represents the lower bounding limit, which is the highest concentration that an endpoint receptor can be exposed that does not result in adverse effects. If both HQ values for a chemical were below 1.0, then the ecological endpoint receptor is considered to be exposed to no potential risk from soil. Chemicals with one or both bounding limit HQs exceeding 1.0 were evaluated further based on background chemical concentrations, each chemical's frequency of detection and distribution at the site, the range of concentrations detected, and its absorption potential and toxicity to each ecological receptor. This type of analysis provides additional weight-of-evidence data to support risk management decisions for the sites. Assessment results for Site 11 soil for small mammal, passerine, and raptor populations are discussed below. Table 7-23 summarizes both high and low TRV HQ results for soil.

Small Mammal Populations

For small mammal populations, the California ground squirrel is the measurement endpoint receptor. The following soil COPECs had HQs above 1.0 (HQs in parentheses):

- Copper (2)
- Manganese (3.9)
- Zinc (2.1)
- Lead (1.4)
- Vanadium (3.6)

All other COPECs evaluated at Site 11 were determined to pose no significant risk based on HQs of less than 1.0 for both the low and high TRVs.

Only the low TRV HQs for copper, lead, manganese, vanadium, and zinc were above 1.0. Lead, manganese, vanadium, and zinc were determined to pose no significant potential risk to small mammals based on background concentrations at Alameda Point, the absorption potential of the chemicals, the frequencies of detection, bioconcentration factors (BCF) used in risk calculations,

habitat available at the site, and the concentrations at Site 11. Because not all of the copper ingested by mammals is absorbed in the gastrointestinal tract and other metals present in soils at the site will compete with the absorption of copper, the absorption rate of 60 percent that was used in the ERA is conservative, and although the risk from copper could not be discounted, it is expected to be low.

Passerine Populations

For passerine populations, the Alameda song sparrow and American robin are the measurement endpoint receptors. The following soil COPEC had an HQ above 1.0 (HQs in parentheses):

- Lead (sparrow – 37; robin – 128)

Literature data were not adequate to develop avian ecological reference values (ERV) for the metals beryllium and cobalt; the SVOCs high molecular weight (HMW) PAHs and low molecular weight (LMW) PAHs; and the VOC chloroform. A qualitative evaluation was therefore conducted. All other COPECs evaluated at Site 11 were determined to pose no significant risk based on HQ values less than 1.0 for both the low and high TRVs.

Only the low TRV HQs for lead for the song sparrow and the robin were above 1.0; however, these HQs may be driven by the overly conservative low TRV value that was based on a study by Edens and others (1976). When the HQs were calculated using an alternative TRV value developed by Oak Ridge National Laboratory for the U.S. Department of Energy (Sample, B.E., D.M. Opresko, and G.W. Suter, II. 1996), HQs calculated for the song sparrow and robin based on this alternate low TRV were below 1.0. Based on this information, lead at Site 11 is not likely to pose a significant potential risk to passerines.

The qualitative evaluation of risk to passerines from exposure to beryllium, cobalt, HMW PAHs, LMW PAHs, and chloroform involved assessing weight-of-evidence parameters. Beryllium was detected at Site 11 in 27 of 30 samples collected at concentrations ranging from 0.21 to 2 mg/kg, and background concentrations ranged from 0.25 to 1.47 mg/kg. Cobalt was detected in all 30 samples collected at concentrations ranging from 2.8 to 36.1 mg/kg, and background concentrations ranged from 3.02 to 49.7 mg/kg. Based on these background concentrations, most of the doses of these metals to passerines are attributable to background concentrations. Very little information is available concerning the effects of beryllium and cobalt on avian species. Because most of the doses of the metals beryllium and cobalt are attributable to background concentrations, potential risk to passerines from these metals at Site 11 are not expected to exceed the risk posed from background concentrations of these chemicals.

HMW and LMW PAHs were detected at Site 11 at frequencies ranging from 33 to 85 percent out of a total of 60 samples collected. Calculated EPCs ranged from 0.018 to 1.23 mg/kg. PAHs can cause genotoxic, reproductive, and mutagenic effects; however, studies indicate that PAHs do not appear to bioaccumulate in mammals and birds (Eisler 1987). Given the relatively high frequency of detection, the risk posed to passerines from residual levels of HMW and LMW

PAHs associated with Site 11 cannot be discounted but is expected to be low because of the limited ability for food chain uptake.

The VOC chloroform was detected in only 1 out of 15 samples collected at Site 11 at a concentration of 0.002 mg/kg. The risk posed to passerines from this residual level in soils at Site 11 is expected to be low because mammals and birds quickly metabolize VOCs.

Raptor Populations

For raptor populations, the red-tailed hawk is the measurement endpoint receptor. The following soil COPEC had an HQ above 1.0 (HQs in parentheses):

- Lead (299)

Literature data were not adequate to develop avian ERVs for the metals beryllium and cobalt; the SVOCs HMW PAHs and LMW PAHs; and the VOC chloroform. A qualitative evaluation was therefore conducted. All other COPECs evaluated at Site 11 were determined to pose no significant risk based on HQ values less than 1.0 for both the low and high TRVs.

Only the HQ based on the low TRV for lead for the red-tailed hawk was above 1.0. As discussed above for passerines, this HQ may be driven by the overly conservative low TRV value. The alternate low TRV HQ calculated for the red-tailed hawk was below 1.0. Based on this information, lead at Site 11 is not likely to pose a significant potential risk to raptors.

The qualitative evaluation of risk to raptors from exposure to beryllium, cobalt, HMW PAHs, LMW PAHs, and chloroform involved assessing the weight-of-evidence parameters. As discussed above for passerines, the potential risk posed to raptors from beryllium and cobalt at Site 11 is not expected to exceed the risk posed from background concentrations of these chemicals.

Impacts to raptors from HMW PAHs and LMW PAHs could not be discounted because of the lack of information concerning long-term impacts of multiple PAHs to raptors at the site.

Risk posed to raptors from exposure to chloroform at Site 11 was expected to be low given the low frequency of detection and low concentrations of this chemical at Site 11.

7.4 SITE 11 CONCLUSIONS AND RECOMMENDATIONS

This section summarizes conclusions and recommendations regarding the nature and extent of chemicals at Site 11 and the risk posed by those chemicals. The contents of this section are based on: (1) the site-specific CSM, (2) background comparisons, (3) nature and extent evaluations, (4) the fate and transport evaluations, (5) the HHRA, and (6) the ERA.

7.4.1 Nature and Extent Conclusions

The nature and extent evaluation concluded that most of the chemicals detected across Site 11 are consistent with the historical activities that occurred at Building 14, including jet engine testing, equipment cleaning and repair, and use of petroleum products. There are three principal areas where chemicals appear to have been released to soil, (1) near fuel lines located in the southern portion of the site, (2) near OWS-162 and the storm sewer line running across the northern part of Site 11, and (3) near the industrial waste treatment line east of Building 627 (see Figure 7-1).

Most of the maximum detected concentrations of those chemicals related to solvent and fuel use (BTEX, lead, chlorobenzene, and methylene chloride) were detected in soil near fuel lines, UST, and ASTs located in the southern portion of Site 11. The highest concentrations of chlorobenzene and methylene chloride occur at sample locations just south of the site boundary far from Building 14 where they may have been used and are therefore likely associated with laboratory contamination of the samples.

Lead in soil exceeding the maximum concentration observed in background soil (165 mg/kg) is confined to surface soil in the vicinity of M11-03, which is located near a fuel line southwest of Building 14. Concentrations of lead detected in samples from the site ranged from 0.78 to 109 mg/kg, which are below 299 mg/kg that equates to a 10 μg/dL child blood lead level. The lead in soil at Site 11 is possibly related to fuel use or asphalt.

In addition, PCBs (Aroclor 1254 and 1260) also were detected in this area just south of the site boundary. Aroclor 1254 was detected in one sample from 1.5 to 2 feet bgs and is likely associated with the use of PCBs as weed control. Aroclor 1260 was detected in two samples from 2.5 to 3.5 feet bgs.

Chromium, copper, and 1,2-DCE were detected in samples collected from the northeastern portion of the site near OWS-162 and the storm sewer line running across the northern part of the site. The VOC, 1,2-DCE was detected in a soil collected at one location from 8 to 9 feet bgs. Copper was generally detected in samples collected from across the site; however, it was detected above the maximum background concentration in a sample from the northeastern portion of the site collected at 8 to 9 feet bgs. Copper was detected in shallow samples collected immediately to the south of Building 14. Copper has been used at the site as a component in jet engine lubricants and appears to be located in an area where staining of the surface soil is evident in aerial photographs from 1957 to 1996 (Pacific Aerial Surveys, various years). The site has been paved since 1940 when Building 14 was built, however, materials may have reached soil through cracks in the concrete or asphalt in the stained area.

Acetone and mercury were detected near the industrial waste treatment line east of Building 627.

PAHs at Site 11 are generally low; concentrations at four sampling locations exceed the screening level of 0.62 mg/kg for B(a)P. PAHs at Site 11 likely are associated with fuel, asphalt,

or the material used to fill in the San Francisco Bay and construct Alameda Point. PAHs appear to be confined to surface soil immediately below the concrete parking lot on the eastern side of Building 14 and in soil in the southern portion of the site near USTs 37-21 through 37-24. Widespread petroleum contamination was present near these USTs, and corrective action is ongoing.

7.4.2 Risk Assessment Conclusions

The following sections discuss HHRA and ERA results from the evaluation of risk from chemicals detected in soil and the lead groundwater plume at Site 11. Risk assessment results for the OU-wide groundwater plume are presented in Section 9.0.

Although numerous chemicals were detected at the site, many of these chemicals do not pose significant risk as defined by the risk assessments. Significant risk to human health is potentially posed by Aroclor-1260, arsenic, and PAHs in soil. Based on the ERA, copper and PAHs in soil were identified as risk drivers. According to the background comparison, arsenic is attributed to background.

7.4.2.1 Human Health Risk Assessment Conclusions

According to reuse plans for Alameda Point, residential and commercial/industrial exposures are the most likely future exposures at Site 11 (EDAW 1996; Navy 1999c). Human health risk was evaluated for residential and commercial/industrial exposures, along with construction worker exposure. HHRA results for soil are summarized below.

Soil

For the commercial/industrial and construction worker scenarios, the most conservative RME carcinogenic risks for Site 11 soil are within the risk management range. The most conservative RME noncancer HIs for soil are below 1.

The residential scenario is considered the most conservative estimate of risk. For surface and subsurface soil, RME carcinogenic risks are within the risk management range. The surface and subsurface soil noncancer HIs for a child are 2. For both surface and subsurface soil, no individual HQ exceeds 1.

Residential soil risks are primarily attributed to arsenic and PAHs (B[a]P). Based on the background comparison, arsenic is attributed to background.

Lead in Soil and Groundwater

Lead was selected as a COPC for Site 11 soil and groundwater and was evaluated using LeadSpread. Lead in site soil is attributed to background; lead in OU-wide groundwater is not

attributed to background. For both surface and subsurface soils, child blood lead levels are below the comparison criterion of 10 µg/dL. Based on LeadSpread results, there is no appreciable risk to human health from ingestion of lead in Site 11 soil and groundwater.

7.4.2.2 Ecological Risk Assessment Conclusions

A site-specific ERA was conducted for Site 11 to estimate potential risks to the environment. Currently, Site 11 does not contain ecological habitat capable of supporting significant wildlife; however, exposure pathways for terrestrial receptors were considered potentially complete to provide a conservative estimate of risk.

Assessment endpoint receptors include small mammals, passerines, and raptors. Copper in soil was identified as posing potential risk to small mammals. PAHs in soil were also identified as posing potential risk to passerines and raptors.

7.4.3 Recommendations

Based on the data and risks discussed above, soil at Site 11 is recommended for further evaluation in an FS, as defined under CERCLA, to address risks to residential receptors under the unrestricted reuse scenario. Aroclor-1260 and PAHs are identified as chemicals of concern (COC) for soil.

Arsenic was also identified as risk driver for soil but is not recommended as a COC for further evaluation in the FS because this metal is attributed to background.

Although chemicals were identified that could pose a risk to ecological receptors, there is little likelihood the site will be used for ecological habitat. Therefore, the risks identified for ecological receptors are overestimated. No action is recommended for chemicals based on potential risk to ecological receptors.

An evaluation of TPH in soil and groundwater also was conducted based on the TPH Strategy for Alameda Point. On the basis of this evaluation, NFA is recommended for Site 11 soil and further action is recommended for Site 11 groundwater for TTPH and TPH-associated constituents. TPH impacted groundwater is addressed further in the OU-wide groundwater section (Section 9.0).

The following data gaps were also identified.

- Further delineation of lead in surface soil near sampling location M11-03 is also recommended.
- Because detection limits for non-detected SVOCs in soil were elevated, the need for further sampling and analysis of soil may be necessary to confirm these chemicals are not present in site soil.