

# APPENDIX E

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## COC Screening

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**Table E-1a. Sediment COPC and COC screening results - Metals**

Analyte	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium
Screening level (SL)	7,700	3.1	0.39	1,500	5.1	39
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg	mg/kg dw
<b>Summary Statistics</b>						
# of Samples	5	8	32	5	32	32
# of Detects	5	3	19	5	13	32
# of NDs	0	5	13	0	19	0
# of Detected SL Exceedances	0	1	19	0	0	0
# of ND SL Exceedances	0	4	13	0	0	0
Maximum Detected Value	26,600	6 J	22	91	0.74	34
Maximum Detect SampleID	SD-DR206-0000	SD-DR207-0000	T117-SE60-SG	SD-DR206-0020	SD-DR206-0020	SD-DR206-0000
Minimum Detected Value	15,300	0.79 J	7	41	0.16	14.7
Minimum Detect SampleID	SD-DR207-0000	LDW-C10-S2	T117-SE53-SG	SD-DR208-0000	LDW-C10-S2	LDW-C10-S2
Mean Detected Value	20,400	3	11	66	0.40	24
Mean Value (detect + non-detect)	20,400	3.7	8	66	0.26	24
Minimum Non-Detect	na	0.5	7	na	0.3	na
Maximum Non-Detect	na	10	10	na	0.4	na
Maximum Exceeds SL?	Yes	Yes	Yes	No	No	No
% Detects Exceeding SL	100	33	100	0	0	0
Detection Frequency %	100	38	59	100	41	100
Non-detection Frequency %	0	62	41	0	59	0
Detects Exceeding 5%?	Yes	Yes	Yes	na	na	na
Is there a source in the EAA or RAAs?	No	No	Yes	na	na	na
Is this ID as a final COC?	No	No	YES	No	No	No

na - not applicable

**Table E-1a. Sediment COPC and COC screening results - Metals**

Analyte	Copper	Iron	Lead	Manganese	Mercury	Molybdenum
Screening level (SL)	310	5,500	40	180	0.41	39
Units	mg/kg	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg	mg/kg dw
<b>Summary Statistics</b>						
# of Samples	32	5	32	5	32	2
# of Detects	32	5	32	5	25	2
# of NDs	0	0	9	0	7	0
# of Detected SL Exceedances	0	0	0	0	0	0
# of ND SL Exceedances	0	0	0	0	0	0
Maximum Detected Value	54.9	32,300 J	53	411	0.38	0.994 J
Maximum Detect SampleID	T117-SE37-SG	SD-DR206-0000	T117-SE08-SG	SD-DR207-0000	T117-SE36-SG	LDW-C10-S1
Minimum Detected Value	22.9	24,000	5	276	0.036	0.902 J
Minimum Detect SampleID	LDW-C10-S2	SD-DR208-0000	T117-SE37-SC-12	SD-DR206-0020	LDW-C10-S2	LDW-C10-S2
Mean Detected Value	37	28,000	27	323	0.12	0.948
Mean Value (detect + non-detect)	37	28,000	27	323	0.098	0.948
Minimum Non-Detect	na	na	na	na	0.05	na
Maximum Non-Detect	na	na	na	na	0.08	na
Maximum Exceeds SL?	No	Yes	No	Yes	No	No
% Detects Exceeding SL	0	100	28	100	0	0
Detection Frequency %	100	100	100	100	78	100
Non-detection Frequency %	0	0	0	0	22	0
Detects Exceeding 5%?	na	Yes	Yes	Yes	na	na
Is there a source in the EAA or RAAs?	na	No	No	No	na	na
Is this ID as a final COC?	No	No	No	No	No	No

na - not applicable

**Table E-1a. Sediment COPC and COC screening results - Metals**

<b>Analyte</b>	<b>Silver</b>	<b>Thallium</b>	<b>Vanadium</b>	<b>Zinc</b>
<b>Screening level (SL)</b>	<b>6.1</b>	<b>0.51</b>	<b>39</b>	<b>410</b>
<b>Units</b>	<b>mg/kg</b>	<b>mg/kg dw</b>	<b>mg/kg dw</b>	<b>mg/kg</b>
<b>Summary Statistics</b>				
# of Samples	32	7	7	32
# of Detects	8	7	7	32
# of NDs	24	0	0	0
# of Detected SL Exceedances	0	0	0	0
# of ND SL Exceedances	0	0	0	0
Maximum Detected Value	0.54	0.111	81	143
Maximum Detect SampleID	SD-DR206-0020	LDW-C10-S2	SD-DR206-0000	LDW-C10-S2
Minimum Detected Value	0.08	0.04	55	41.1
Minimum Detect SampleID	T117-SC-COMP1	0000	SD-DR208-0000	T117-SE37-SC-12
Mean Detected Value	0.22	0.077	65	94
Mean Value (detect + non-detect)	0.22	0.077	65	94
Minimum Non-Detect	0.4	na	na	na
Maximum Non-Detect	0.6	na	na	na
Maximum Exceeds SL?	No	No	Yes	No
% Detects Exceeding SL	0	0	100	0
Detection Frequency %	25	100	100	100
Non-detection Frequency %	75	0	0	0
Detects Exceeding 5%?	na	na	Yes	na
Is there a source in the EAA or RAAs?	na	na	No	na
Is this ID as a final COC?	No	No	No	No

na - not applicable

**Table E-1b. Sediment COPC and COC screening results - PAHs**

Analyte	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene
Screening level (SL)	38	16	66	220	110	99
Units	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>						
# of Samples	33	33	33	33	33	33
# of Detects	6	10	4	20	30	30
# of NDs	27	23	29	13	3	3
# of Detected SL Exceedances	1	3	0	1	1	1
# of ND SL Exceedances	0	0	0	0	0	0
Maximum Detected Value	74	210	2.5	230	440	420
Maximum Detect SampleID	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG
Minimum Detected Value	0.41	0.33 J	0.43	0.90	1.7	2.0 J
Minimum Detect SampleID	LDW-C10-S2	T117-SE33-SG	LDW-C10-S2	T117-SE33-SG	T117-SE08-SG	T117-SE08-SG T117-SE21-SC-24
Mean Detected Value	14	27	0.96	16	24	24
Mean Value (detect + non-detect)	3.1	8.6	0.74	10	22	22
Minimum Non-Detect	0.63	0.67	0.63	0.67	0.91	0.91
Maximum Non-Detect	2.5	2.5	2.5	2.4	2.0	2.0
Maximum Exceeds SL?	Yes	Yes	No	Yes	Yes	Yes
% Detects Exceeding SL	17	30	0	5	3	3
Detection Frequency %	18	30	12	61	91	91
Non-detection Frequency %	82	70	88	39	9	9
Detects Exceeding 5%?	Yes	Yes	Yes	Yes	Yes	Yes
Is there a source in the EAA or RAAs?	Yes	Yes	na	Yes	Yes	Yes
Is this ID as a final COC?	YES	YES	No	YES	YES	YES

na - not applicable  
OC - organic carbon

**Table E-1b. Sediment COPC and COC screening results - PAHs**

Analyte	Benzo(g,h,i)perylene	Total Benzofluoranthenes	Carcinogenic PAHs	Chrysene	Dibenzo(a,h)anthracene
Screening level (SL)	31	230	0.14	110	12
Units	mg/kg OC	mg/kg OC	mg/kg dw	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>					
# of Samples	33	33	34	33	33
# of Detects	28	30	30	30	20
# of NDs	5	3	4	3	13
# of Detected SL Exceedances	1	1	15	1	1
# of ND SL Exceedances	0	0	0	0	0
Maximum Detected Value	63	890	11	410	34
Maximum Detect SampleID	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG
Minimum Detected Value	0.90	6.2 J	0.055	3.2	0.32 J
Minimum Detect SampleID	T117-SE33-SG	T117-SE08-SG	T117-SE17-SC-46	T117-SE08-SG	T117-SE33-SG
Mean Detected Value	7.4	53	0.6	27	4.4
Mean Value (detect + non-detect)	6.4	48	0.53	25	2.9
Minimum Non-Detect	0.91	0.91	0.018	0.91	0.87
Maximum Non-Detect	2.4	2.0	0.018	2.0	2.4
Maximum Exceeds SL?	Yes	Yes	Yes	Yes	Yes
% Detects Exceeding SL	4	3	50	3	5
Detection Frequency %	85	91	88	91	61
Non-detection Frequency %	15	9	12	9	39
Detects Exceeding 5%?	Yes	Yes	Yes	Yes	Yes
Is there a source in the EAA or RAAs?	Yes	Yes	Yes	Yes	Yes
Is this ID as a final COC?	YES	YES	YES	YES	YES

na - not applicable  
 OC - organic carbon

**Table E-1b. Sediment COPC and COC screening results - PAHs**

Analyte	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Screening level (SL)	15	160	23	34	99	100	1000
Units	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>							
# of Samples	33	33	33	33	33	33	33
# of Detects	7	32	11	28	6	29	32
# of NDs	26	1	22	5	27	4	1
# of Detected SL Exceedances	1	1	1	2	0	2	0
# of ND SL Exceedances	0	0	0	0	0	0	0
Maximum Detected Value	220	1,300	290	100	68	1,500	840
Maximum Detect SampleID	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG	T117-SE37-SG
Minimum Detected Value	0.34	1.5	0.40 J	0.83	0.26	2.6	1.4
Minimum Detect SampleID	LDW-C10-S2	T117-SE31-SC-12	T117-SE33-SG	T117-SE33-SG	LDW-C10-S2	T117-SE15-SG	T117-SE17-SC-24 T117-SE31-SC-12
Mean Detected Value	34	66	29	10	13	67	49
Mean Value (detect + non-detect)	7.7	64	10	8.8	2.9	59	47
Minimum Non-Detect	0.63	2.0	0.67	0.91	0.1	0.91	2
Maximum Non-Detect	2.5	2.0	2.5	2.4	2.5	2.4	2
Maximum Exceeds SL?	Yes	Yes	Yes	Yes	No	Yes	No
% Detects Exceeding SL	14	3	9	7	0	7	0
Detection Frequency %	21	97	33	85	18	88	97
Non-detection Frequency %	79	3	67	15	82	12	3
Detects Exceeding 5%?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Is there a source in the EAA or RAAs?	Yes	Yes	Yes	Yes	na	Yes	na
Is this ID as a final COC?	YES	YES	YES	YES	No	YES	No

na - not applicable  
OC - organic carbon



**Table E-1b. Sediment COPC and COC screening results - PAHs**

Analyte	Total HPAH	Total LPAH
Screening level (SL)	960	370
Units	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>		
# of Samples	33	33
# of Detects	32	29
# of NDs	1	4
# of Detected SL Exceedances	1	1
# of ND SL Exceedances	0	0
Maximum Detected Value	4,500	2,300
Maximum Detect SampleID	T117-SE37-SG	T117-SE37-SG
Minimum Detected Value	2.9	2.6
Minimum Detect SampleID	T117-SE31-SC-12	T117-SE15-SG
Mean Detected Value	250	100
Mean Value (detect + non-detect)	240	89
Minimum Non-Detect	2.0	0.91
Maximum Non-Detect	2.0	2.4
Maximum Exceeds SL?	Yes	Yes
% Detects Exceeding SL	3	3
Detection Frequency %	97	88
Non-detection Frequency %	3	12
Detects Exceeding 5%?	Yes	Yes
Is there a source in the EAA or RAAs?	Yes	Yes
Is this ID as a final COC?	YES	YES

na - not applicable  
 OC - organic carbon

**Table E-1c. Sediment COPC and COC screening results - Semivolatile Organic Compounds**

Analyte	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Screening level (SL)	47	4.9	61	53	220
Units	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>					
# of Samples	33	33	33	33	33
# of Detects	29	12	2	4	4
# of NDs	4	21	31	29	29
# of Detected SL Exceedances	1	1	0	0	0
# of ND SL Exceedances	0	1	0	0	0
Maximum Detected Value	66	5.1	1.3	1.3	30
Maximum Detect SampleID	SD-DR206-0000A	SD-DR206-0000A	SD-DR207-0000	SD-DR207-0000	T117-SE08-SG
Minimum Detected Value	1.7	0.63 J	0.46 J	0.47 J	0.77
Minimum Detect SampleID	T117-SE17-SC-24	SD-DR207-0000 T117-SE40-SG	T117-SE39-SG	T117-SE33-SG	T117-SE39-SG
Mean Detected Value	10	2.0	0.88	0.77	12
Mean Value (detect + non-detect)	9.3	1.2	1	0.84	2.2
Minimum Non-Detect	0.95	0.32	0.63	0.82	0.63
Maximum Non-Detect	2.4	6.1	16	6.1	6.1
Maximum Exceeds SL?	Yes	Yes	No	No	No
% Detects Exceeding SL	3	8	0	0	0
Detection Frequency %	88	36	6	12	12
Non-detection Frequency %	12	64	94	88	88
Detects Exceeding 5%?	Yes	Yes	Yes	Yes	Yes
Is there a source in the EAA or RAAs?	Yes	No	na	na	na
Is this ID as a final COC?	No	No	No	No	No

na - not applicable  
OC - organic carbon

**Table E-1c. Sediment COPC and COC screening results - Semivolatile Organic Compounds**

Analyte	Di-n-octyl phthalate	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene
Screening level (SL)	58	0.81	2.3	3.1
Units	mg/kg OC	mg/kg OC	mg/kg OC	mg/kg OC
<b>Summary Statistics</b>				
# of Samples	33	31	31	31
# of Detects	2	0	0	0
# of NDs	31	31	31	31
# of Detected SL Exceedances	0	0	0	0
# of ND SL Exceedances	0	20	3	1
Maximum Detected Value	2.2	nd	nd	nd
Maximum Detect SampleID	T117-SE40-SG	na	na	na
Minimum Detected Value	1.3 J	nd	nd	nd
Minimum Detect SampleID	LDW-C10-S2	na	na	na
Mean Detected Value	1.8	nd	nd	nd
Mean Value (detect + non-detect)	0.84	0.61	0.57	0.57
Minimum Non-Detect	0.63	0.17	0.033	0.033
Maximum Non-Detect	6.1	6.1	6.1	6.1
Maximum Exceeds SL?	No	No	No	No
% Detects Exceeding SL	0	0	0	0
Detection Frequency %	6	0	0	0
Non-detection Frequency %	94	100	100	100
Detects Exceeding 5%?	Yes	No	No	No
Is there a source in the EAA or RAAs?	na	na	na	na
Is this ID as a final COC?	No	No	No	No

na - not applicable  
 OC - organic carbon

**Table E-1c. Sediment COPC and COC screening results - Semivolatile Organic Compounds**

Analyte	2,4-Dimethylphenol	4-Methylphenol	Benzoic acid	Benzyl alcohol	Hexachlorobenzene
Screening level (SL)	0.029	0.67	0.65	0.057	0.38
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg OC
<b>Summary Statistics</b>					
# of Samples	34	34	34	34	32
# of Detects	0	8	2	1	4
# of NDs	34	26	32	33	28
# of Detected SL Exceedances	0	0	0	1	1
# of ND SL Exceedances	4	0	2	1	16
Maximum Detected Value	nd	0.15	0.3	0.072	0.75
Maximum Detect SampleID	na	LDW-C10-S1	SD-DR206-0020 SD-DR206-0000A	T117-SE08-SG	SD0019
Minimum Detected Value	nd	0.028 J	0.3	0.072	0.040 J
Minimum Detect SampleID	na	T117-SE36-SG	SD-DR206-0020 SD-DR206-0000A	T117-SE08-SG	SD0018
Mean Detected Value	nd	0.065	0.3	0.072	0.24
Mean Value (detect + non-detect)	0.021	0.023	0.16	0.016	0.36
Minimum Non-Detect	0.019	0.019	0.19	0.019	0.044
Maximum Non-Detect	0.5	0.04	2	0.10	2.5
Maximum Exceeds SL?	No	No	No	Yes	Yes
% Detects Exceeding SL	0	0	0	100	25
Detection Frequency %	0	24	6	3	12
Non-detection Frequency %	100	76	94	97	88
Detects Exceeding 5%?	No	Yes	Yes	No	Yes
Is there a source in the EAA or RAAs?	na	na	na	No	No
Is this ID as a final COC?	No	No	No	No	No

na - not applicable  
OC - organic carbon

**Table E-1c. Sediment COPC and COC screening results - Semivolatile Organic Compounds**

Analyte	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol
Screening level (SL)	11	0.36	0.42
Units	mg/kg OC	mg/kg dw	mg/kg dw
<b>Summary Statistics</b>			
# of Samples	33	30	34
# of Detects	0	3	7
# of NDs	33	27	27
# of Detected SL Exceedances	0	0	3
# of ND SL Exceedances	0	2	0
Maximum Detected Value	nd	0.30 J	2.1
Maximum Detect SampleID	na	SD-DR206-0000A	SD-DR207-0000
Minimum Detected Value	nd	0.093 J	0.072
Minimum Detect SampleID	na	T117-SE39-SG	T117-SE36-SG
Mean Detected Value	nd	0.17	0.86
Mean Value (detect + non-detect)	0.88	0.087	0.19
Minimum Non-Detect	0.63	0.096	0.019
Maximum Non-Detect	6.1	1	0.048
Maximum Exceeds SL?	No	No	Yes
% Detects Exceeding SL	0	0	43
Detection Frequency %	0	10	21
Non-detection Frequency %	100	90	79
Detects Exceeding 5%?	No	Yes	Yes
Is there a source in the EAA or RAAs?	na	na	Yes
Is this ID as a final COC?	No	No	YES

na - not applicable  
 OC - organic carbon

**Table E-1d. Sediment COPC and COC screening results - Pesticides, PCBs, dioxins/furans**

Analyte	Dieldrin	Total DDTs	Toxaphene	Total PCBs	Dioxin/furan TEQ
Screening level (SL)	0.03	1.4	0.44	0.22	4.5
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	ng/kg dw
<b>Summary Statistics</b>					
# of Samples	6	6	5	182	9
# of Detects	0	4	0	144	9
# of NDs	6	2	5	38	0
# of Detected SL Exceedances	0	0	0	80	2
# of ND SL Exceedances	1	0	2	0	na
Maximum Detected Value	na	0.020 JN	na	51	9.36 J
Maximum Detect SampleID	na	LDW-C10-S2	na	T117-SE31-SC-01	T117-100-SG
Minimum Detected Value	na	0.002	na	0.014 J	2.11 J
Minimum Detect SampleID	na	SD-DR206-0000A	na	T117-SE35-SC-810	T117-107-SG
Mean Detected Value	na	0.011	na	2.4	4.5
Mean Value (detect + non-detect)	0.013	0.008	0.74	1.9	4.5
Minimum Non-Detect	0.01	0.002	0.01	0.019	na
Maximum Non-Detect	0.091	0.01	4.3	0.04	na
Maximum Exceeds SL?	No	No	No	Yes	Yes
% Detects Exceeding SL	0	0	0	56	22
Detection Frequency %	0	67	0	79	100
Non-detection Frequency %	100	33	100	21	0
Detects Exceeding 5%?	No	Yes	No	Yes	Yes
Is there a source in the EAA or RAAs?	na	na	na	Yes	Yes
Is this ID as a final COC?	No	No	No	YES	YES

na - not applicable

OC - organic carbon

**Table E-2a. Soil COPC Analysis for T-117 Upland Study Area - Detected Metals**

Chemical Name Screening Level Unit	Aluminum nc mg/kg dw	Arsenic 0.67 mg/kg dw	Barium 16000 mg/kg dw	Cadmium 80 mg/kg dw	Chromium 240 mg/kg dw	Copper 2960 mg/kg dw
<b>Summary Statistics</b>						
Samples	3	132	3	58	132	67
Detects	3	68	3	13	132	67
Non-Detects	0	64	0	45	0	0
Detected Exceedances	na	68	0	0	0	0
DL Exceedances	na	64	0	0	0	0
Max Detected Concentration	15700	160	75	2.2	43	169
ID for Max Detected Concentration	MW03-4.0	T117-D10-SB-01	MW03-4.0	T117-DS1-D	T117-D10-SB-01	ROWT8-072204-SD8
Min Detected Concentration	13700	1.1	55	0.3	5.32	9.7
ID for Min Detected Concentration	MW03-6.0	P60-6	MW03-6.0	T117-D6-SB-6.5-8.0	SB-UA-3	T117-D11-SB-03
Average Detected Concentration	14667	12	64	1.4	18	45
Standard Deviation (Detects and nondetects)	1001.6653	14.3752	10.2632	0.5701	6.6902	35.2354
Min DL for NonDetects	na	5	na	0.2	na	na
Max DL for NonDetects	na	20	na	1	na	na
% Detections	100	52	100	22	100	100
% Non-detects	0	48	0	78	0	0
% Detections Exceeding Screening Level	na	100	na	0	na	0
Does the Max Detected Concentration exceed SL?	na	YES	na	NO	na	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	na	YES	na	NO	na	NO
Selected as a COPC?	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Table E-2a. Soil COPC Analysis for T-117 Upland Study Area - Detected Metals**

Chemical Name Screening Level Unit	Lead 250 mg/kg dw	Mercury 24 mg/kg dw	Nickel 1600 mg/kg dw	Silver 400 mg/kg dw	Zinc 24000 mg/kg dw
<b>Summary Statistics</b>					
Samples	141	16	7	8	141
Detects	125	12	7	1	141
Non-Detects	16	4	0	7	0
Detected Exceedances	0	0	0	0	0
DL Exceedances	0	0	0	0	0
Max Detected Concentration	219	0.42	23	2.3	808
ID for Max Detected Concentration	T117-E1-SB- 5.0-6.5-A	P81-2	P81-2	SEPTNK-1	ROWT4- 072204-SD4
Min Detected Concentration	1	0.06	5	2.3	15.7
ID for Min Detected Concentration	P60-6	ROWT9- 072204-SD9	P60-6	SEPTNK-1	P60-6
Average Detected Concentration	32	0.17	12	2.3	85
Standard Deviation (Detects and nondetects)	45.5140	0.1130	5.8146	0.6770	116.0117
Min DL for NonDetects	1.25	0.04	na	0.3	-
Max DL for NonDetects	5	0.05	na	0.8	-
% Detections	89	75	100	13	100
% Non-detects	11	25	0	88	0
% Detections Exceeding Screening Level	0	0	0	0	0
Does the Max Detected Concentration exceed SL?	NO	NO	NO	NO	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO	NO



**Table E-2b. Soil COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organics, except cPAHs (see Table E-2c for cPAHs)**

Chemical Name Screening Level Unit	1-Methyl- naphthalene nc mg/kg dw	2-Methyl- naphthalene 320 mg/kg dw	Acenaphthene 4800 mg/kg dw	Acenaphthylene nc mg/kg dw	Anthracene 24000 mg/kg dw
<b>Summary Statistics</b>					
Samples	232	266	295	265	265
Detects	29	28	30	6	39
Non-Detects	203	238	265	259	226
Detected Exceedances	na	0	0	na	0
DL Exceedances	na	0	0	na	0
Max Detected Concentration	10	130	55	1.2	160
ID for Max Detected Concentration	T117-C4-SB-3.5-5.0	MW02-1.5	T117-C4-SB-3.5-5.0	T117-SB4-03	T117-C4-SB-3.5-5.0
Min Detected Concentration	0.039	0.048	0.025	0.04	0.021
ID for Min Detected Concentration	T117-F1-SB-03	T117-C3-SB-01	T117-SB3-04	T117-SB6-01	T117-SB3-03
Average Detected Concentration	1.2736	5.9525	2.9714	0.2973	5.3486
Standard Deviation (Detects and nondetects)	0.8699	0.9869	15.1071	0.1815	9.9307
Min DL for NonDetects	0.0063	0.0017	0.0017	0.0017	0.0017
Max DL for NonDetects	0.86	0.86	252	1.5	0.86
% Detections	13	11	10	2	15
% Non-Detections	88	89	90	98	85
% Detections exceeding SL	na	0	0	na	0
Does the Max Detected Concentration exceed SL?	na	NO	NO	na	NO
Is Frequency of Detection > 5%?	YES	YES	YES	NO	YES
Does the Max Non-detected Concentration Exceed SL?	na	NO	NO	na	NO
Selected as a COPC?	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Table E-2b. Soil COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organics, except cPAHs (see Table E-2c for cPAHs)**

Chemical Name Screening Level Unit	Benzo(g,h,i) perylene nc mg/kg dw	Benzoic Acid 320000 mg/kg dw	Benzyl Alcohol 24000 mg/kg dw	bis(2-Ethylhexyl) phthalate 71 mg/kg dw
<b>Summary Statistics</b>				
Samples	265	5	5	25
Detects	47	3	3	9
Non-Detects	218	2	2	16
Detected Exceedances	na	0	0	0
DL Exceedances	na	0	0	0
Max Detected Concentration	22	4.5	1	0.59
ID for Max Detected Concentration	T117-C4-SB-3.5-5.0	#REF!	T117-DS1-D	T117-DS2
Min Detected Concentration	0.023	1.3	0.19	0.0228
ID for Min Detected Concentration	T117-SB3-04	#REF!	T117-DS2	SD8
Average Detected Concentration	0.9366	2.6000	0.6833	0.1919
Standard Deviation (Detects and nondetects)	1.4046	1.8466	0.4826	0.4225
Min DL for NonDetects	0.0017	0.017	0.017	0.064
Max DL for NonDetects	0.86	0.0257	0.0257	1.5
% Detections	18	60	60	36
% Non-Detections	82	40	40	64
% Detections exceeding SL	na	0	0	0
Does the Max Detected Concentration exceed SL?	na	NO	NO	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	na	NO	NO	NO
Selected as a COPC?	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Table E-2b. Soil COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organics, except cPAHs (see Table E-2c for cPAHs)**

Chemical Name Screening Level Unit	Butyl benzyl phthalate 16000 mg/kg dw	Dibenzofuran 160 mg/kg dw	Dimethyl phthalate 80000 mg/kg dw	Fluoranthene 3200 mg/kg dw
<b>Summary Statistics</b>				
Samples	25	265	25	296
Detects	3	15	3	102
Non-Detects	22	250	22	194
Detected Exceedances	0	0	0	0
DL Exceedances	0	0	0	0
Max Detected Concentration	0.48	46	0.12	480
ID for Max Detected Concentration	#REF!	T117-C4-SB-3.5-5.0	#REF!	T117-C4-SB-3.5-5.0
Min Detected Concentration	0.26	0.034	0.095	0.0044
ID for Min Detected Concentration	#REF!	T117-C8-SB-02	#REF!	SD1
Average Detected Concentration	0.3733	3.7757	0.1117	6.6670
Standard Deviation (Detects and nondetects)	0.4208	2.8507	0.4187	28.3627
Min DL for NonDetects	0.0017	0.0017	0.0017	0.0017
Max DL for NonDetects	1.5	1.5	1.5	16.8
% Detections	12	6	12	34
% Non-Detections	88	94	88	66
% Detections exceeding SL	0	0	0	0
Does the Max Detected Concentration exceed SL?	NO	NO	NO	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO

**Table E-2b. Soil COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organics, except cPAHs (see Table E-2c for cPAHs)**

Chemical Name Screening Level Unit	Fluorene 3200 mg/kg dw	Naphthalene 1600 mg/kg dw	Phenanthrene mg/kg dw	Pyrene 2400 mg/kg dw
<b>Summary Statistics</b>				
Samples	265	265	282	296
Detects	30	18	79	110
Non-Detects	235	247	203	186
Detected Exceedances	0	0	na	0
DL Exceedances	0	0	na	0
Max Detected Concentration	76	13	420	260
ID for Max Detected Concentration	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0
Min Detected Concentration	0.023	0.02	0.0037	0.0025
ID for Min Detected Concentration	T117-SB3-04	T117-SB3-04	SD1	SD8
Average Detected Concentration	3.6460	1.6315	7.6477	4.0529
Standard Deviation (Detects and nondetects)	4.7623	0.9135	29.5016	15.6374
Min DL for NonDetects	0.0017	0.0017	0.0017	0.0063
Max DL for NonDetects	0.86	0.86	252	16.8
% Detections	11	7	28	37
% Non-Detections	89	93	72	63
% Detections exceeding SL	0	0	na	0
Does the Max Detected Concentration exceed SL?	NO	NO	na	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	na	NO
Selected as a COPC?	NO	NO	NO	NO

**Table E-2c. Soil COPC Analysis for T-117 Upland Study Area - Detected carcinogenic PAHs**

Chemical Name Screening Level Unit	cPAH TEQ 0.14 mg/kg	Benzo(a)anthracene nc mg/kg	Benzo(a)pyrene nc mg/kg	Benzo(b)fluoranthene nc mg/kg
<b>Summary Statistics</b>				
Samples	293	294	293	293
Detects	114	84	81	72
Non-Detects	179	210	212	221
Exceedances	62	na	na	na
DL Exceedances	9	na	na	na
Max Detected Concentration	174	180	130	110
ID for Max Concentration	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0
Min Detected Concentration	0.008	0.011	0.013	0.014
ID for Min Concentration	SB-B2-3.5	SB-B2-3.5	SB-B3-3.5	SB-E3-3.5
Average Detected Concentration	2.7	3.2	2.7	2.7
Standard Deviation (Detects and nondetects)	10.4	10.7	7.8	6.7
Min DL for NonDetects	0.005	0.0063	0.0063	0.0063
Max DL for NonDetects	0.63	6.18	6.18	6.18
% Detections	39	29	28	25
% Non-Detections	61	71	72	75
% Detections exceeding SL	54	na	na	na
Does the Max Detected Concentration exceed SL?	YES	na	na	na
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	YES	na	na	na
Selected as a COPC?	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Table E-2c. Soil COPC Analysis for T-117 Upland Study Area - Detected carcinogenic PAHs**

Chemical Name Screening Level Unit	Benzo(k)fluoranthene nc mg/kg	Chrysene nc mg/kg	Dibenzo(a,h) anthracene nc mg/kg	Indeno(1,2,3-cd) pyrene nc mg/kg
<b>Summary Statistics</b>				
Samples	293	295	293	265
Detects	76	112	15	39
Non-Detects	217	183	278	226
Exceedances	na	na	na	na
DL Exceedances	na	na	na	na
Max Detected Concentration	94	150	8	32
ID for Max Concentration	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0	T117-C4-SB-3.5-5.0
Min Detected Concentration	0.012	0.026	0.029	0.024
ID for Min Concentration	SB-D4-3.5	T117-SB1-04	T117-SB6-03	T117-SB3-04
Average Detected Concentration	2.3	2.4	1.0	1.4
Standard Deviation (Detects and nondetects)	5.7	9.0	0.6	2.0
Min DL for NonDetects	0.0063	0.0063	0.0063	0.0063
Max DL for NonDetects	6.18	16.8	6.18	0.86
% Detections	26	38	5	15
% Non-Detections	74	62	95	85
% Detections exceeding SL	na	na	na	na
Does the Max Detected Concentration exceed SL?	na	na	na	na
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	na	na	na	na
Selected as a COPC?	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**Table E-2d. Soil COPC Analysis for T-117 Upland Study Area - Detected Total Petroleum Hydrocarbons**

Chemical Name Screening Level Unit	TPH - Diesel Range nc mg/kg	TPH - Motor Oil Range nc mg/kg	TPH - Unknown Heavy Fuel Oil nc mg/kg	Total Petroleum Hydrocarbons (calc'd) 2000 mg/kg
<b>Summary Statistics</b>				
Samples	207	229	27	234
Detects	146	176	14	194
Non-Detects	61	53	13	40
Exceedances	na	na	na	32
DL Exceedances	na	na	na	0
Max Detected Concentration	21000	25400	55100	55100
Date/ID for Max Concentration	T117-C1-SB-02	SB-A1-2	SB-A2-3.5	SB-A2-3.5
Min Detected Concentration	5.2	11	40.2	11
Date/ID for Min Concentration	T117-A1-SB-02	T117-F9-SB-01	SB-C3-3.5	T117-F9-SB-01
Average Detected Concentration	819	1286	8673	2411
Standard Deviation	2182	2887	12972	6280
Min DL for NonDetects	5	10	25	10
Max DL for NonDetects	50	1250	25	200
% Detections	71	77	52	83
% Non-Detections	29	23	48	17
% Detections exceeding SL	na	na	na	16
Does the Max Detected Concentration exceed SL?	na	na	na	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	na	na	na	na
Selected as a COPC?	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>

**Table E-2e. Soil COPC Analysis for T-117 Upland Study Area - Detected Polychlorinated Biphenyls**

<b>Chemical Name Screening Level Unit</b>	<b>Aroclor 1254 nc mg/kg dw</b>	<b>Aroclor 1260 nc mg/kg dw</b>	<b>PCBs (total calc'd) 0.5 mg/kg dw</b>
<b>Summary Statistics</b>			
Samples	506	505	539
Detects	13	393	424
Non-Detects	493	112	115
Detected Exceedances	na	na	247
DL Exceedances	na	na	27
Max Detected Concentration	2.1	4200	4200
ID for Max Detected Concentration	T117-F7-SB-02	T117-D11-SB-01	T117-D11-SB-01
Min Detected Concentration	0.018	0.0082	0.0082
ID for Min Detected Concentration	T117-PD-6-03	T117-PD-7-03	T117-PD-7-03
Average Detected Concentration	0.43	38.84	37.09
Standard Deviation (Detects and nondetects)	53	206	199
Min DL for NonDetects	0.0039	0.019	0.019
Max DL for NonDetects	1100	0.97	0.97
% Detections	3	78	79
% Non-detects	97	22	21
% Detections Exceeding Screening Level	na	na	58
Does the Max Detected Concentration exceed SL?	na	na	YES
Is Frequency of Detection > 5%?	NO	YES	YES
Does the Max Non-detected Concentration Exceed SL?	na	na	NO
Selected as a COPC?	<b>NO</b>	<b>NO</b>	<b>YES</b>



**Table E-2f. Soil COPC Analysis for T-117 Upland Study Area - Detected Dioxins and Furans**

Chemical Name Screening Level (SL) Units	TEQ CCD & CDF 11 ng/kg dw
<b>Summary Statistics</b>	
Samples	60
Detects	60
Non-Detects	0
Detected Exceedances	33
DL Exceedances	0
Max Detected Concentration	262
Date/ID for Max Detected Concentration	T117-SB55-3.5-5.0
Min Detected Concentration	0.26
Date/ID for Min Detected Concentration	T117-SB60-12.5-14.0
Average Detected Concentration	30
Standard Deviation	50
Min DL for NonDetects	-
Max DL for NonDetects	-
% Detections	100
% Non-detects	0
% Detections Exceeding Screening Level	55
Does the Max Detected Concentration Exceed SL?	YES
Is Frequency of Detection > 5%?	YES
Does the Max Non-detected Concentration Exceed SL?	-
Selected as a COPC?	<b>YES</b>

## Table E-2g. Soil COPC Analysis for T-117 Upland Study Area - Notes and Definitions

### Notes

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COPC analysis includes all soil samples in the T-117 Upland Study Area collected through 11/11/2009  
Analytes are "selected as a COPC" if one or more samples exceed the SL AND >5% of samples are detected for the analyte  
Compounds without screening levels are not retained as COPCs if the analyte is part of another analysis (e.g. Aroclor 1260 is part of Total PCBs), or if the analyte is typically associated with other compounds that were not retained as COPCs.  
Total TEQ CCD & CDF is calculated using the formula in WAC 173-340-900 Table 708-1. Non-detected values are calculated using 1/2 the DL.  
The SL for TEQ CCD & CDF is the SL for 2,3,7,8 TCDD based on MTCA Method B standard value formula  
Total cPAH TEQ is calculated using the formula in WAC 173-340-900 Table 708-2. Non-detected values are calculated using 1/2 the DL. The screening level for total cPAH TEQ is that for benzo(a)pyrene.  
Total PCBs is calculated as the sum of all detected Aroclors or the maximum DL for all non-detect.  
Total TPH is calculated as the sum of detected diesel range TPH and lube oil range TPH or the maximum DL for all non-detect.

### Definitions

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cPAHs - carcinogenic polycyclic aromatic hydrocarbons: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene  
COPC - chemical of potential concern  
D/F - dioxins and furans  
DL - detection limit  
DL Exceedence - a non-detected sample with a detection limit above the screening level  
na - not applicable  
NA - not analyzed  
nc - no criteria  
OC - organic carbon  
PAH - polycyclic aromatic hydrocarbon  
PCB - polychlorinated biphenyl  
SL - screening level  
SVOC - semivolatile organic compound  
TEF - toxicity equivalency factor  
TEQ - toxicity equivalency quotient  
TEQ CCD & CDF - Toxic equivalency quotient for 17 dioxin and furan congeners listed in WAC 173-340-900 Tabel 708-1  
TPH - total petroleum hydrocarbons  
UCL95 - 95% upper confidence limit  
VOC - volatile organic compound  
WAC - Washington Administrative Code

**Table E-3a. Adjacent Streets Soil COPC and COC Screening - Metals**

Chemical Name Screening Level Units	Antimony 32 mg/kg dw	Arsenic 0.67 mg/kg dw	Beryllium 160 mg/kg dw	Cadmium 80 mg/kg dw	Chromium 240 mg/kg dw	Copper 3000 mg/kg dw
<b>Summary Statistics</b>						
Samples	8	17	8	8	8	17
Detects	1	8	7	2	8	17
Non-detects	7	9	1	6	0	0
Detected Exceedances	0	8	0	0	0	0
DL Exceedances	0	9	0	0	0	--
Max Detected Concentration	6.0	19.2	0.30	0.80	54.1	472
ID for Max Detected Concentration	P81	P81	MW-12	P81	MW-13	SW1-Tank
Min Detected Concentration	6.0	1.1	0.10	0.70	11.8	11.2
ID for Min Detected Concentration	P81	P60	P81	MW-12	P60	P60
Average Detected Concentration	--	7	0.2	0.8	26	88
Standard Deviation	--	39	0.1	0.3	16	109
Min DL for Nondetects	5.0	10	0.10	0.20	--	--
Max DL for Nondetects	6.0	170	0.10	0.30	--	--
% Detections	12	47	88	25	100	100
% Non-detects	88	53	12	75	0	0
% Detections exceeding screening level	0	100	0	0	0	0
Does the Max Detected Concentration exceed SL?	NO	YES	NO	NO	NO	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	YES	NO	NO	--	--
Selected as a COPC?	NO	<b>YES</b>	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	<b>YES</b>	NO	NO	NO	NO

**Table E-3a. Adjacent Streets Soil COPC and COC Screening - Metals**

Chemical Name Screening Level Units	Lead 250 mg/kg dw	Mercury 24 mg/kg dw	Nickel 1600 mg/kg dw	Selenium 400 mg/kg dw	Silver 400 mg/kg dw	Thallium 5.6 mg/kg dw	Zinc 24,000 mg/kg dw
<b>Summary Statistics</b>							
Samples	17	17	8	8	8	8	17
Detects	17	12	8	0	0	0	17
Non-detects	0	5	0	8	8	8	0
Detected Exceedances	1	0	0	--	--	--	0
DL Exceedances	--	0	--	0	0	0	0
Max Detected Concentration	450	0.42	54	--	--	--	1890
ID for Max Detected Concentration	SW1-Tank	P81	MW-13	--	--	--	SW1-Tank
Min Detected Concentration	1.0	0.040	5.0	--	--	--	15.7
ID for Min Detected Concentration	P60	MW-12	P60	--	--	--	P60
Average Detected Concentration	65	0.1	23	--	--	--	280
Standard Deviation	107	0.1	19	--	--	--	460
Min DL for Nondetects	--	0.04	--	0.50	0.30	0.20	--
Max DL for Nondetects	--	0.080	--	6.0	0.40	6.0	--
% Detections	100	71	100	0	0	0	100
% Non-detects	0	29	0	100	100	100	0
% Detections exceeding screening level	6	0	0	--	--	--	0
Does the Max Detected Concentration exceed SL?	YES	NO	NO	--	--	--	NO
Is Frequency of Detection > 5%?	YES	YES	YES	NO	NO	NO	YES
Does the Max Non-detected Concentration Exceed SL?	--	NO	--	NO	NO	NO	--
Selected as a COPC?	NO	NO	NO	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO	NO	NO	NO

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	1,2,4-Trichlorobenzene 800 mg/kg dw	1,2-Dichlorobenzene 7200 mg/kg dw	1,3-Dichlorobenzene NV mg/kg dw
<b>Summary Statistics</b>			
Samples	7	7	7
Detects	0	0	0
Non-detects	7	7	7
Detected Exceedances	--	--	--
DL Exceedances	0	0	0
Max Detected Concentration	--	--	--
ID for Max Detected Concentration	--	--	--
Min Detected Concentration	--	--	--
ID for Min Detected Concentration	--	--	--
Average Detected Concentration	--	--	--
Standard Deviation	--	--	--
Min DL for Nondetects	0.020	0.020	0.020
Max DL for Nondetects	1.8	1.8	1.8
% Detections	0	0	0
% Non-detects	100	100	100
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	1,4-Dichlorobenzene 42 mg/kg dw	2,4,5-Trichlorophenol 8000 mg/kg dw	2,4,6-Trichlorophenol 91 mg/kg dw
<b>Summary Statistics</b>			
Samples	7	5	6
Detects	0	0	0
Non-detects	7	5	6
Detected Exceedances	--	--	--
DL Exceedances	0	0	0
Max Detected Concentration	--	--	--
ID for Max Detected Concentration	--	--	--
Min Detected Concentration	--	--	--
ID for Min Detected Concentration	--	--	--
Average Detected Concentration	--	--	--
Standard Deviation	--	--	--
Min DL for Nondetects	0.020	0.098	0.098
Max DL for Nondetects	1.8	9.2	9.2
% Detections	0	0	0
% Non-detects	100	100	100
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	2,4-Dichlorophenol 240 mg/kg dw	2,4-Dimethylphenol 1600 mg/kg dw	2,4-Dinitrophenol 160 mg/kg dw	2,4-Dinitrotoluene 160 mg/kg dw
<b>Summary Statistics</b>				
Samples	6	6	6	6
Detects	0	0	0	0
Non-detects	6	6	6	6
Detected Exceedances	--	--	--	--
DL Exceedances	0	0	0	0
Max Detected Concentration	--	--	--	--
ID for Max Detected Concentration	--	--	--	--
Min Detected Concentration	--	--	--	--
ID for Min Detected Concentration	--	--	--	--
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.059	0.020	0.20	0.098
Max DL for Nondetects	9.2	1.8	18	9.2
% Detections	0	0	0	0
% Non-detects	100	100	100	100
% Detections exceeding screening level	--	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	2,6-Dinitrotoluene 80 mg/kg dw	2-Chlorophenol 400 mg/kg dw	2-Methylphenol 4000 mg/kg dw	2-Nitroaniline NV mg/kg dw	2-Nitrophenol NV mg/kg dw
<b>Summary Statistics</b>					
Samples	6	6	6	6	6
Detects	0	0	0	0	0
Non-detects	6	6	6	6	6
Detected Exceedances	--	--	--	--	--
DL Exceedances	0	0	0	0	0
Max Detected Concentration	--	--	--	--	--
ID for Max Detected Concentration	--	--	--	--	--
Min Detected Concentration	--	--	--	--	--
ID for Min Detected Concentration	--	--	--	--	--
Average Detected Concentration	--	--	--	--	--
Standard Deviation	--	--	--	--	--
Min DL for Nondetects	0.098	0.020	0.020	0.098	0.098
Max DL for Nondetects	9.2	1.8	1.8	9.2	1.8
% Detections	0	0	0	0	0
% Non-detects	100	100	100	100	100
% Detections exceeding screening level	--	--	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	--	--
Selected as a COPC?	NO	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO	NO

NV = no value available



**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	3,3'-Dichlorobenzidine NV mg/kg dw	3-Nitroaniline NV mg/kg dw	4,6-Dinitro-o-cresol NV mg/kg dw
<b>Summary Statistics</b>			
Samples	6	6	6
Detects	0	0	0
Non-detects	6	6	6
Detected Exceedances	--	--	--
DL Exceedances	0	0	0
Max Detected Concentration	--	--	--
ID for Max Detected Concentration	--	--	--
Min Detected Concentration	--	--	--
ID for Min Detected Concentration	--	--	--
Average Detected Concentration	--	--	--
Standard Deviation	--	--	--
Min DL for Nondetects	0.098	0.12	0.20
Max DL for Nondetects	9.2	9.2	18
% Detections	0	0	0
% Non-detects	100	100	100
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	--	--
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	4-Bromophenyl phenyl ether NV mg/kg dw	4-Chloro-3-methylphenol NV mg/kg dw	4-Chloroaniline 320 mg/kg dw
<b>Summary Statistics</b>			
Samples	6	6	6
Detects	0	0	0
Non-detects	6	6	6
Detected Exceedances	--	--	--
DL Exceedances	0	0	0
Max Detected Concentration	--	--	--
ID for Max Detected Concentration	--	--	--
Min Detected Concentration	--	--	--
ID for Min Detected Concentration	--	--	--
Average Detected Concentration	--	--	--
Standard Deviation	--	--	--
Min DL for Nondetects	0.020	0.039	0.059
Max DL for Nondetects	1.8	9.2	9.2
% Detections	0	0	0
% Non-detects	100	100	100
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	--	--	NO
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	4-Chlorophenyl phenyl ether NV mg/kg dw	4-Methylphenol 400 mg/kg dw	4-Nitroaniline NV mg/kg dw	4-Nitrophenol NV mg/kg dw
<b>Summary Statistics</b>				
Samples	6	6	6	6
Detects	0	1	0	0
Non-detects	6	5	6	6
Detected Exceedances	--	0	--	--
DL Exceedances	0	0	0	0
Max Detected Concentration	--	0.062	--	--
ID for Max Detected Concentration	--	SW1-Tank	--	--
Min Detected Concentration	--	0.062	--	--
ID for Min Detected Concentration	--	SW1-Tank	--	--
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.020	0.020	0.098	0.098
Max DL for Nondetects	1.8	1.8	9.2	9.2
% Detections	0	17	0	0
% Non-detects	100	83	100	100
% Detections exceeding screening level	--	0	--	--
Does the Max Detected Concentration exceed SL?	--	NO	--	--
Is Frequency of Detection > 5%?	NO	YES	NO	NO
Does the Max Non-detected Concentration Exceed SL?	--	NO	--	--
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Benzoic acid 320000 mg/kg dw	Benzyl alcohol 24000 mg/kg dw	bis(2-chloroethoxy)methane NV mg/kg dw	bis(2-chloroethyl)ether 0.91 mg/kg dw
<b>Summary Statistics</b>				
Samples	6	6	6	6
Detects	0	0	0	0
Non-detects	6	6	6	6
Detected Exceedances	--	0	--	--
DL Exceedances	0	0	0	0
Max Detected Concentration	--	--	--	--
ID for Max Detected Concentration	--	--	--	--
Min Detected Concentration	--	--	--	--
ID for Min Detected Concentration	--	--	--	--
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.20	0.020	0.020	0.039
Max DL for Nondetects	18	1.8	1.8	1.8
% Detections	0	0	0	0
% Non-detects	100	100	100	100
% Detections exceeding screening level	--	0	--	--
Does the Max Detected Concentration exceed SL?	--	NO	--	--
Is Frequency of Detection > 5%?	NO	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	--	YES
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

<b>Chemical Name Screening Level Units</b>	<b>bis(2-chloroisopropyl)ether 3200 mg/kg dw</b>	<b>Carbazole 50 mg/kg dw</b>	<b>Hexachlorobenzene 0.63 mg/kg dw</b>	<b>Hexachlorobutadiene 13 mg/kg dw</b>
<b>Summary Statistics</b>				
Samples	1	6	6	6
Detects	0	1	0	0
Non-detects	1	5	6	6
Detected Exceedances	--	1	--	--
DL Exceedances	0	0	0	0
Max Detected Concentration	--	55	--	--
ID for Max Detected Concentration	--	MW-12	--	--
Min Detected Concentration	--	55	--	--
ID for Min Detected Concentration	--	MW-12	--	--
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.020	0.020	0.020	0.020
Max DL for Nondetects	0.020	0.062	1.8	1.8
% Detections	0	17	0	0
% Non-detects	100	83	100	100
% Detections exceeding screening level	--	17	--	--
Does the Max Detected Concentration exceed SL?	--	YES	--	--
Is Frequency of Detection > 5%?	NO	YES	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	YES	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Hexachlorocyclopentadiene 480 mg/kg dw	Hexachloroethane 71 mg/kg dw	Isophorone 1100 mg/kg dw	Nitrobenzene 40 mg/kg dw
<b>Summary Statistics</b>				
Samples	6	6	6	6
Detects	0	0	0	0
Non-detects	6	6	6	6
Detected Exceedances	--	--	--	--
DL Exceedances	0	0	0	0
Max Detected Concentration	--	--	--	--
ID for Max Detected Concentration	--	--	--	--
Min Detected Concentration	--	--	--	--
ID for Min Detected Concentration	--	--	--	--
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.098	0.020	0.020	0.020
Max DL for Nondetects	9.2	1.8	1.8	1.8
% Detections	0	0	0	0
% Non-detects	100	100	100	100
% Detections exceeding screening level	--	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	N-Nitroso-di-n-propylamine 0.14 mg/kg dw	N-Nitrosodiphenylamine 200 mg/kg dw	Pentachlorophenol 8.3 mg/kg dw
<b>Summary Statistics</b>			
Samples	6	6	8
Detects	0	0	0
Non-detects	6	6	8
Detected Exceedances	--	--	--
DL Exceedances	0	0	1
Max Detected Concentration	--	--	--
ID for Max Detected Concentration	--	--	--
Min Detected Concentration	--	--	--
ID for Min Detected Concentration	--	--	--
Average Detected Concentration	--	--	--
Standard Deviation	--	--	--
Min DL for Nondetects	0.039	0.020	0.032
Max DL for Nondetects	9.2	1.8	9.2
% Detections	0	0	0
% Non-detects	100	100	100
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	YES	NO	YES
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Phenol 48,000 mg/kg dw	1-Methylnaphthalene NV mg/kg dw	2-Chloronaphthalene 6400 mg/kg dw	2-Methylnaphthalene 320 mg/kg dw
<b>Summary Statistics</b>				
Samples	6	8	6	10
Detects	1	2	0	2
Non-detects	5	6	6	8
Detected Exceedances	0	--	--	0
DL Exceedances	0	--	0	0
Max Detected Concentration	0.057	4.9	--	4.8
ID for Max Detected Concentration	SW1-Tank	MW-12	--	MW-12
Min Detected Concentration	0.057	1.4	--	1.5
ID for Min Detected Concentration	SW1-Tank	P60	--	P60
Average Detected Concentration	--	3	--	3
Standard Deviation	--	2	--	1
Min DL for Nondetects	0.020	0.0063	0.020	0.0063
Max DL for Nondetects	1.8	0.068	1.8	0.068
% Detections	17	25	0	20
% Non-detects	83	75	100	80
% Detections exceeding screening level	0	--	--	0
Does the Max Detected Concentration exceed SL?	NO	--	--	NO
Is Frequency of Detection > 5%?	YES	YES	NO	YES
Does the Max Non-detected Concentration Exceed SL?	NO	--	NO	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available



**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Acenaphthene 4800 mg/kg dw	Acenaphthylene 4800 mg/kg dw	Anthracene 24000 mg/kg dw	Benzo(a)anthracene NV mg/kg dw
<b>Summary Statistics</b>				
Samples	10	10	10	10
Detects	3	1	4	5
Non-detects	7	9	6	5
Detected Exceedances	0	0	0	--
DL Exceedances	0	0	0	--
Max Detected Concentration	55	0.095	78	240
ID for Max Detected Concentration	MW-12	P81	MW-12	MW-12
Min Detected Concentration	0.081	0.095	0.064	0.063
ID for Min Detected Concentration	P81	P81	MW-12	MW-12
Average Detected Concentration	19	--	21	49
Standard Deviation	17	--	25	76
Min DL for Nondetects	0.0063	0.0063	0.0063	0.0063
Max DL for Nondetects	0.062	1.8	0.062	0.062
% Detections	30	10	40	50
% Non-detects	70	90	60	50
% Detections exceeding screening level	0	0	0	--
Does the Max Detected Concentration exceed SL?	NO	NO	NO	--
Is Frequency of Detection > 5%?	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	--
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	<b>NO</b>

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Benzo(a)pyrene NV mg/kg dw	Benzo(b)fluoranthene NV mg/kg dw	Benzo(g,h,i)perylene NV mg/kg dw
<b>Summary Statistics</b>			
Samples	10	10	10
Detects	5	6	5
Non-detects	5	4	5
Detected Exceedances	--	--	--
DL Exceedances	--	--	--
Max Detected Concentration	240	230	54
ID for Max Detected Concentration	MW-12	MW-12	MW-12
Min Detected Concentration	0.11	0.029	0.069
ID for Min Detected Concentration	SW1-Tank	SD1	SW1-Tank
Average Detected Concentration	49	39	11
Standard Deviation	76	73	17
Min DL for Nondetects	0.0063	0.0063	0.0063
Max DL for Nondetects	0.062	0.062	0.062
% Detections	50	60	50
% Non-detects	50	40	50
% Detections exceeding screening level	--	--	--
Does the Max Detected Concentration exceed SL?	--	--	--
Is Frequency of Detection > 5%?	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	--	--	--
Selected as a COPC?	NO	NO	NO
<b>Retained as a COC?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Benzo(k)fluoranthene NV mg/kg dw	Benzofluoranthenes (total-calc'd) NV mg/kg dw
<b>Summary Statistics</b>		
Samples	10	10
Detects	6	6
Non-detects	4	4
Detected Exceedances	--	--
DL Exceedances	--	--
Max Detected Concentration	140	370
ID for Max Detected Concentration	MW-12	MW-12
Min Detected Concentration	0.030	0.060
ID for Min Detected Concentration	SD1	SD1
Average Detected Concentration	24	63
Standard Deviation	44	120
Min DL for Nondetects	0.0063	0.0063
Max DL for Nondetects	0.062	0.062
% Detections	60	60
% Non-detects	40	40
% Detections exceeding screening level	--	--
Does the Max Detected Concentration exceed SL?	--	--
Is Frequency of Detection > 5%?	YES	YES
Does the Max Non-detected Concentration Exceed SL?	--	--
Selected as a COPC?	NO	NO
<b>Retained as a COC?</b>	<b>NO</b>	<b>NO</b>

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Carcinogenic PAHs - Mammal - Half DL 0.14 mg/kg dw	Chrysene NV mg/kg dw	Dibenzo(a,h)anthracene NV mg/kg dw
<b>Summary Statistics</b>			
Samples	10	10	10
Detects	6	6	3
Non-detects	4	4	7
Detected Exceedances	5	--	--
DL Exceedances	0	--	--
Max Detected Concentration	320	250	23
ID for Max Detected Concentration	MW-12	MW-12	MW-12
Min Detected Concentration	0.022	0.035	0.075
ID for Min Detected Concentration	SD1	SD1	P81
Average Detected Concentration	54	43	8
Standard Deviation	100	79	7
Min DL for Nondetects	0.0063	0.0063	0.0063
Max DL for Nondetects	0.062	0.062	0.062
% Detections	60	60	30
% Non-detects	40	40	70
% Detections exceeding screening level	83	--	--
Does the Max Detected Concentration exceed SL?	YES	--	--
Is Frequency of Detection > 5%?	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	--	--
Selected as a COPC?	<b>YES</b>	NO	NO
<b>Retained as a COC?</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Dibenzofuran 160 mg/kg dw	Fluoranthene 3200 mg/kg dw	Fluorene 3200 mg/kg dw	Indeno(1,2,3-cd)pyrene NV mg/kg dw	Naphthalene 1600 mg/kg dw
<b>Summary Statistics</b>					
Samples	10	10	10	10	10
Detects	2	6	3	4	2
Non-detects	8	4	7	6	8
Detected Exceedances	0	0	0	--	0
DL Exceedances	0	0	0	--	0
Max Detected Concentration	19	600	44	66	3.7
ID for Max Detected Concentration	MW-12	MW-12	MW-12	MW-12	MW-12
Min Detected Concentration	0.69	0.034	0.095	0.089	0.79
ID for Min Detected Concentration	P60	SD1	P81	MW-12	P60
Average Detected Concentration	10	100	16	17	2
Standard Deviation	6	190	14	21	1
Min DL for Nondetects	0.0063	0.0063	0.0063	0.0063	0.0063
Max DL for Nondetects	0.062	0.062	0.062	0.062	0.062
% Detections	20	60	30	40	20
% Non-detects	80	40	70	60	80
% Detections exceeding screening level	0	0	0	--	0
Does the Max Detected Concentration exceed SL?	NO	NO	NO	--	NO
Is Frequency of Detection > 5%?	YES	YES	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	--	NO
Selected as a COPC?	NO	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	<b>NO</b>	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Phenanthrene 3200 mg/kg dw	Pyrene 2400 mg/kg dw	Bis(2-ethylhexyl)phthalate 71 mg/kg dw	Butyl benzyl phthalate 16000 mg/kg dw
<b>Summary Statistics</b>				
Samples	10	10	6	6
Detects	6	6	2	1
Non-detects	4	4	4	5
Detected Exceedances	0	0	0	0
DL Exceedances	0	0	0	0
Max Detected Concentration	460	560	6.2	0.40
ID for Max Detected Concentration	MW-12	MW-12	SW1-Tank	SW1-Tank
Min Detected Concentration	0.029	0.059	0.79	0.40
ID for Min Detected Concentration	SD1	SD1	SD1	SW1-Tank
Average Detected Concentration	80	96	4	--
Standard Deviation	150	180	2	--
Min DL for Nondetects	0.0063	0.0063	0.062	0.020
Max DL for Nondetects	0.062	0.062	1.8	1.8
% Detections	60	60	33	17
% Non-detects	40	40	67	83
% Detections exceeding screening level	0	0	0	0
Does the Max Detected Concentration exceed SL?	NO	NO	NO	NO
Is Frequency of Detection > 5%?	YES	YES	YES	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3b. Adjacent Streets Soil COPC and COC Screening - SVOCs**

Chemical Name Screening Level Units	Diethyl phthalate 64000 mg/kg dw	Dimethyl phthalate 80000 mg/kg dw	Di-n-butyl phthalate 8000 mg/kg dw	Di-n-octyl phthalate 1600 mg/kg dw
<b>Summary Statistics</b>				
Samples	6	6	6	6
Detects	0	1	0	1
Non-detects	6	5	6	5
Detected Exceedances	0	0	0	0
DL Exceedances	0	0	0	0
Max Detected Concentration	--	0.075	--	0.080
ID for Max Detected Concentration	--	SW1-Tank	--	SW1-Tank
Min Detected Concentration	--	0.075	--	0.080
ID for Min Detected Concentration	--	SW1-Tank	--	SW1-Tank
Average Detected Concentration	--	--	--	--
Standard Deviation	--	--	--	--
Min DL for Nondetects	0.020	0.020	0.020	0.020
Max DL for Nondetects	1.8	1.8	1.8	1.8
% Detections	0	17	0	17
% Non-detects	100	83	100	83
% Detections exceeding screening level	--	0	--	0
Does the Max Detected Concentration exceed SL?	--	NO	--	NO
Is Frequency of Detection > 5%?	NO	NO	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO

NV = no value available

**Table E-3c. Adjacent Streets Soil COPC and COC Screening - Total Petroleum Hydrocarbons**

Chemical Name Screening Level Units	Total Petroleum Hydrocarbons (calc'd) 2000 mg/kg dw	TPH - Diesel Range 2000 mg/kg dw	TPH - Motor Oil Range 2000 mg/kg dw
<b>Summary Statistics</b>			
Samples	58	58	58
Detects	50	35	50
Non-detects	8	23	8
Detected Exceedances	7	2	7
DL Exceedances	0	0	0
Max Detected Concentration	14,000	4,600	9,500
ID for Max Detected Concentration	SD3	SD3	SD3
Min Detected Concentration	11	5	11
ID for Min Detected Concentration	P75	P71	P75
Average Detected Concentration	1,400	410	1,100
Standard Deviation	2,600	750	1,900
Min DL for Nondetects	10	5	10
Max DL for Nondetects	13	58	13
% Detections	86	60	86
% Non-detects	14	40	14
% Detections exceeding screening level	14	6	14
Does the Max Detected Concentration exceed SL?	YES	YES	YES
Is Frequency of Detection > 5%?	YES	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO
Selected as a COPC?	<b>YES</b>	<b>YES</b>	<b>YES</b>
<b>Retained as a COC?</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>



**Table E-3d. Adjacent Streets Soil COPC and COC Screening - PCBs**

Location Chemical Name CAS No Total/Dissolved Screening Level Units	Streets PCBs (total calc'd) PCBTOT T 0.5 mg/kg dw	Yards PCBs (total calc'd) PCBTOT T 0.5 mg/kg dw
<b>Summary Statistics</b>		
Samples	387	110
Detects	304	109
Non-detects	83	1
Detected Exceedances	158	20
DL Exceedances	0	0
Max Detected Concentration	480	2.1
ID for Max Detected Concentration	TP40	DU32
Min Detected Concentration	0.0025	0.018
ID for Min Detected Concentration	P106	YS28
Average Detected Concentration	7	0.3
Standard Deviation	34	0.4
Min DL for Nondetects	0.012	0.058
Max DL for Nondetects	0.050	0.058
% Detections	79	99
% Non-detects	21	1
% Detections exceeding screening level	41	18
Does the Max Detected Concentration exceed SL?	YES	YES
Is Frequency of Detection > 5%?	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO
Selected as a COPC?	<b>YES</b>	<b>YES</b>

**Note:**

Summary statistics do not include removed or superseded samples indentified in Appendix B.

Summary statistics include the analytical results of MIS samples (including parent, duplicate, triplicate samples)

**Table E-3e. Adjacent Streets Soil COPC and COC Screening - Dioxins/furans**

Location	Streets	Yards
Chemical Name	2,3,7,8-TCDD TEQ	2,3,7,8-TCDD TEQ
CAS No	TEQdf	TEQdf
Total/Dissolved	T	T
Screening Level	11	11
Units	ng/kg dw	ng/kg dw
<b>Summary Statistics</b>		
Samples	25	33
Detects	25	33
Non-detects	0	0
Detected Exceedances	17	27
DL Exceedances	--	--
Max Detected Concentration	84.0	50.1
ID for Max Detected Concentration	P94	DU01
Min Detected Concentration	0.495	4.69
ID for Min Detected Concentration	P99	YC16abc
Average Detected Concentration	23	19
Standard Deviation	20	10
Min DL for Nondetects	--	--
Max DL for Nondetects	--	--
% Detections	100	100
% Non-detects	0	0
% Detections exceeding screening level	68	82
Does the Max Detected Concentration exceed SL?	YES	YES
Is Frequency of Detection > 5%?	YES	YES
Does the Max Non-detected Concentration Exceed SL?	--	--
Selected as a COPC?	<b>YES</b>	<b>YES</b>

**Note:**

Summary statistics do not include removed or superseded samples identified in Appendix B.

Summary statistics include the analytical results of MIS samples (including parent, duplicate, triplicate samples)

**Table E-3f. Adjacent Streets Soil COPC and COC Screening - BTEX**

Chemical Name	Benzene	Ethylbenzene	Toluene	Total Xylenes (calc'd)	Xylene (meta & para)
CAS No	71-43-2	100-41-4	108-88-3	1330-20-7	179601-23-1
Total/Dissolved	T	T	T	T	T
Screening Level	18	8000	6400	16,000	160,000
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
<b>Summary Statistics</b>					
Samples	7	7	7	7	7
Detects	2	0	3	0	0
Non-detects	5	7	4	7	7
Detected Exceedances	0	0	0	0	0
DL Exceedances	0	0	0	0	0
Max Detected Concentration	0.0082	--	11	--	--
ID for Max Detected Concentration	MW-12	--	P78	--	--
Min Detected Concentration	0.0019	--	0.0020	--	--
ID for Min Detected Concentration	MW-12	--	MW-12	--	--
Average Detected Concentration	0.005	--	4	--	--
Standard Deviation	0.6	0	4	0	0
Min DL for Nondetects	0.0006	0.0006	0.0006	0.0006	0.0006
Max DL for Nondetects	1.2	1.2	0.0014	1.2	1.2
% Detections	29	0	43	0	0
% Non-detects	71	100	57	100	100
% Detections exceeding screening level	0	0	0	0	0
Does the Max Detected Concentration exceed SL?	NO	--	NO	--	--
Is Frequency of Detection > 5%?	YES	NO	YES	NO	NO
Does the Max Non-detected Concentration Exceed SL?	NO	NO	NO	NO	NO
Selected as a COPC?	NO	NO	NO	NO	NO
<b>Retained as a COC?</b>	NO	NO	NO	NO	NO

**Table E-4a. Groundwater COPC Analysis for T-117 Upland Study Area - Detected Metals**

Chemical Name Screening Level Unit	Metals						
	Arsenic	Cadmium	Chromium	Copper	Nickel	Silver	Zinc
	0.00014 mg/l	0.00025 mg/l	0.01 mg/l	0.0031 mg/l	0.0082 mg/l	0.0019 mg/l	0.081 mg/l
<b>Summary Statistics</b>							
Samples	62	62	62	57	57	57	57
Detects	19	3	4	22	1	7	1
Non-Detects	43	59	58	35	56	50	56
Detected Exceedances	19	2	0	10	1	7	0
DL Exceedances	43	57	0	4	56	50	0
Max Detected Concentration	0.11	0.00055	0.0030	0.0090	0.010	0.03	0.01
ID for Max Detected Concentration	MW-102-0908	MW-40-0806	MW-2-0806	MW-10-0608	MW-11-0908	MW-08R-0908	MW-05R-0817
Min Detected Concentration	0.00066	0.00017	0.0011	0.0020	0.010	0.0030	0.010
ID for Min Detected Concentration	MW-4-0806	MW-8-0806	MW-40-0806	MW-11-0908	MW-11-0908	MW-8-0308	MW-05R-0817
Average Detected Concentration	0.025	0.00041	0.0018	0.0040	0.010	0.010	0.01
Standard Deviation (detects and DL non-detects)	0.042	0.0016	0.0032	0.0021	0.0078	0.0042	0.0078
Min DL for Non-Detects	0.00080	0.000011	0.00026	0.002	0.010	0.0030	0.010
Max DL for Non-Detects	0.2	0.01	0.02	0.01	0.050	0.0060	0.050
% Detections	31	5	6	39	2	12	2
% Non-Detects	69	95	94	61	98	88	98
% Detections exceeding screening level	100	67	0	45	100	100	0
Does the Max Detected Concentration exceed SL?	YES	YES	NO	YES	YES	YES	NO
Is Frequency of Detection > 5%?	YES	NO	YES	YES	NO	YES	NO
Does the Max Non-detected Concentration Exceed SL?	YES	YES	NO	YES	YES	YES	NO
<b>Selected as a COPC?</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>

Table E-4b. Groundwater COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organic Compounds

Chemical Name Screening Level Unit	SVOC		PAH						
	bis(2-ethylhexyl)phthalate	Phenol	1-Methylnaphthalene	Acenaphthene	Benzo(a)anthracene	Benzo(b)fluoranthene	Chrysene	Fluorene	1-Methylnaphthalene
	2.2 ug/l	1,700,000 ug/l	nc ug/l	990 ug/l	nc ug/l	nc ug/l	nc ug/l	5300 ug/l	nc ug/l
<b>Summary Statistics</b>									
Samples	70	57	56	67	67	67	67	67	52
Detects	23	6	1	1	1	1	1	1	6
Non-Detects	47	51	55	66	66	66	66	66	46
Detected Exceedances	10	0	na	0	0	0	1	0	0
DL Exceedances	0	0	na	0	63	63	63	0	0
Max Detected Concentration	89	20	0.15	0.39	0.016	0.013	0.1	1.6	0.3
ID for Max Detected Concentration	MW-01-0509	MW-02-0908	SP-MW3	SP-MW3	SP-MW3	SP-MW3	SP-MW3	SP-MW3	MW-02-0309
Min Detected Concentration	1	5.8	0.15	0.39	0.016	0.013	0.1	1.6	0.1
ID for Min Detected Concentration	MW-04R-0309	MW-2-0806	SP-MW3	SP-MW3	SP-MW3	SP-MW3	SP-MW3	SP-MW3	MW-02-0908
Average Detected Concentration	8.6	12	0.15	0.39	0.016	0.013	0.1	1.6	0.17
Standard Deviation (detects and DL non-detects)	11	3.6	0.20	0.20	0.23	0.23	0.22	0.20	0.033
Min DL for Non-Detects	1	1	0.096	0.096	0.0096	0.0096	0.0096	0.096	0.1
Max DL for Non-Detects	1	1	1	1.1	1.1	1.1	1.1	1.1	0.1
% Detections	33	11	2	1	1	1	1	1	12
% Non-Detects	67	89	98	99	99	99	99	99	88
% Detections exceeding screening level	43	0	na	0	na	na	na	0	na
Does the Max Detected Concentration exceed SL?	YES	NO	na	NO	na	na	na	NO	na
Is Frequency of Detection > 5%?	YES	YES	na	NO	na	na	na	NO	na
Does the Max Non-detected Concentration Exceed SL?	NO	NO	na	NO	na	na	na	NO	na
<b>Selected as a COPC?</b>	<b>YES</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table E-4b. Groundwater COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organic Compounds

Chemical Name  Screening Level Unit	PAH by SW8270D SIM							Dibenzo(a,h) anthracene  ug/l	Dibenzofuran  ug/l
	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene		
	990 ug/l	40000 ug/l	nc ug/l	nc ug/l	nc ug/l	nc ug/l	nc ug/l		
<b>Summary Statistics</b>									
Samples	52	52	65	65	65	65	65	65	52
Detects	3	1	1	1	1	1	4	0	1
Non-Detects	49	51	64	64	64	64	61	65	51
Detected Exceedances	0	0	1	1	1	1	4	0	na
DL Exceedances	0	0	64	64	64	64	61	65	na
Max Detected Concentration	0.31	0.13	0.19	0.14	0.13	0.13	0.5	-	0.1
ID for Max Detected Concentration	MW-5-0308	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-3-0308	-	MW-03-121108
Min Detected Concentration	0.14	0.13	0.19	0.14	0.13	0.13	0.12	-	0.1
ID for Min Detected Concentration	MW-103-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608	MW-03-121108	-	MW-03-121108
Average Detected Concentration	0.21	0.13	0.19	0.14	0.13	0.13	0.27	-	0.1
Standard Deviation (detects and DL non-detects)	0.031	0.0042	0.011	0.0050	0.0037	0.0037	0.054	0	0
Min DL for Non-Detects	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Max DL for Non-Detects	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
% Detectations	6	2	2	2	2	2	6	0	2
% Non-Detects	94	98	98	98	98	98	94	100	98
% Detectations exceeding screening level	0	0	na	na	na	na	na	na	na
Does the Max Detected Concentration exceed SL?	NO	NO	na	na	na	na	na	na	na
Is Frequency of Detection > 5%?	YES	NO	na	na	na	na	na	na	na
Does the Max Non-detected Concentration Exceed SL?	NO	NO	na	na	na	na	na	na	na
<b>Selected as a COPC?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table E-4b. Groundwater COPC Analysis for T-117 Upland Study Area - Detected Semivolatile Organic Compounds

PAH by SW8270D SIM							
Chemical Name	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total cPAH TEQ
Screening Level	140	5300	nc	4938	nc	4000	0.018
Unit	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
<b>Summary Statistics</b>							
Samples	52	52	65	52	52	52	65
Detects	1	3	0	3	1	4	4
Non-Detects	51	49	65	49	51	48	61
Detected Exceedances	0	0	0	0	na	0	4
DL Exceedances	0	0	65	0	na	0	61
Max Detected Concentration	0.44	0.35	-	0.47	0.5	0.44	0.20
ID for Max Detected Concentration	MW-05R-0608	MW-03-121108	-	MW-03-0608	MW-05R-0608	MW-05R-0608	MW-05R-0608
Min Detected Concentration	0.44	0.10	-	0.10	0.50	0.10	0.076
ID for Min Detected Concentration	MW-05R-0608	MW-5-0308	-	MW-103-0608	MW-05R-0608	MW-03-121108	MW-03-121108
Average Detected Concentration	0.44	0.19	-	0.25	0.5	0.26	0.11
Standard Deviation (detects and DL non-detects)	0.047	0.035	0	0.053	0.055	0.057	0.015
Min DL for Non-Detects	0.1	0.1	0.1	0.1	0.1	0.1	0.076
Max DL for Non-Detects	0.1	0.1	0.1	0.1	0.1	0.1	0.076
% Detectations	2	6	0	6	2	8	6
% Non-Detects	98	94	100	94	98	92	94
% Detectations exceeding screening level	0	0	na	0	na	0	100
Does the Max Detected Concentration exceed SL?	NO	NO	na	NO	na	NO	YES
Is Frequency of Detection > 5%?	NO	YES	na	YES	na	YES	YES
Does the Max Non-detected Concentration Exceed SL?	NO	NO	na	NO	na	NO	YES
<b>Selected as a COPC?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b>

**Table E-4d. Groundwater COPC Analysis for T-117 Upland Study Area - Dioxins/furans**

	<b>Dioxins</b>
<b>Chemical Name</b>	<b>OCDD</b>
<b>Screening Level</b>	<b>0.005</b>
<b>Unit</b>	<b>pg/l</b>
<b>Summary Statistics</b>	
Samples	3
Detects	1
Non-Detects	2
Detected Exceedances	0
DL Exceedances	0
Max Detected Concentration	11
ID for Max Detected Concentration	MW-08R-1208
Min Detected Concentration	11
ID for Min Detected Concentration	MW-08R-1208
Average Detected Concentration	11
Standard Deviation (detects and DL non-detects)	3.4
Min DL for Non-Detects	4.4
Max DL for Non-Detects	6.9
% Detections	33
% Non-Detects	67
% Detections exceeding screening level	0
Does the Max Detected Concentration exceed SL?	NO
Is Frequency of Detection > 5%?	YES
Does the Max Non-detected Concentration Exceed SL?	NO
<b>Selected as a COPC?</b>	<b>NO</b>



Table E-4e. Groundwater COPC Analysis for T-117 Upland Study Area - Volatile Organic Compounds

Chemical Name Screening Level Unit	VOC						
	1,1,1- Trichloroethane	Acetone	Chlorobenzene	cis-1,2- Dichloroethene	o-Xylene	Tetrachloroethene	Toluene
	416,667 ug/l	nc ug/l	1600 ug/l	nc ug/l	nc ug/l	3.3 ug/l	15000 ug/l
<b>Summary Statistics</b>							
Samples	57	57	57	57	52	57	52
Detects	2	18	6	5	1	9	1
Non-Detects	55	39	51	52	51	48	51
Detected Exceedances	0	na	0	na	na	0	0
DL Exceedances	0	na	0	na	na	0	0
Max Detected Concentration	0.4	7.7	0.6	3.5	0.3	2	0.3
ID for Max Detected Concentration	MW-10-0608	MW-3-0308	MW-102-0908	MW-11-1208	MW-3-0308	MW-10-0308	MW-02-1208
Min Detected Concentration	0.2	3.1	0.3	0.7	0.3	0.9	0.3
ID for Min Detected Concentration	MW-10-1208	MW-08R-1208	MW-02-0309	MW-10-0608	MW-3-0308	DUP-1-0308	MW-02-1208
Average Detected Concentration	0.3	4.6	0.45	1.92	0.3	1.3	0.3
Standard Deviation (detects and DL non-detects)	0.23	1.3	0.24	0.61	0.014	0.45	0.014
Min DL for Non-Detects	0.2	1	0.2	0.2	0.2	0.2	0.2
Max DL for Non-Detects	1	5	1	1	0.2	1	0.2
% Detects	4	32	11	9	2	16	2
% Non-Detects	96	68	89	91	98	84	98
% Detects exceeding screening level	0	na	0	na	na	0	0
Does the Max Detected Concentration exceed SL?	NO	na	NO	na	na	NO	NO
Is Frequency of Detection > 5%?	NO	na	YES	na	na	YES	NO
Does the Max Non-detected Concentration Exceed SL?	NO	na	NO	na	na	NO	NO
<b>Selected as a COPC?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table E-4e. Groundwater COPC Analysis for T-117 Upland Study Area - Volatile Organic Compounds

Chemical Name Screening Level Unit	BTEX			
	Trichloroethene	Xylene (meta & para)	Total Xylenes (calc'd)	Xylene (meta & para)
	30 ug/l	nc ug/l	nc ug/l	nc ug/l
<b>Summary Statistics</b>				
Samples	57	52	9	61
Detects	4	1	1	1
Non-Detects	53	51	8	60
Detected Exceedances	0	na	na	na
DL Exceedances	0	na	na	na
Max Detected Concentration	0.6	0.7	1.3	1.3
ID for Max Detected Concentration	MW-11-0309	MW-3-0308	SP-MW3	SP-MW3
Min Detected Concentration	0.2	0.7	1.3	1.3
ID for Min Detected Concentration	MW-11-1208	MW-3-0308	SP-MW3	SP-MW3
Average Detected Concentration	0.38	0.7	1.3	1.3
Standard Deviation (detects and DL non-detects)	0.23	0.042	0.11	0.039
Min DL for Non-Detects	0.2	0.4	1.0	1.0
Max DL for Non-Detects	1	0.4	1.0	1.0
% Detectations	7	2	11	2
% Non-Detects	93	98	89	98
% Detectations exceeding screening level	0	na	na	na
Does the Max Detected Concentration exceed SL?	NO	na	na	na
Is Frequency of Detection > 5%?	YES	na	na	na
Does the Max Non-detected Concentration Exceed SL?	NO	na	na	na
<b>Selected as a COPC?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

## Table E-4f. Groundwater COPC Analysis for T-117 Upland Study Area - Notes and Definitions

### Notes

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COPC analysis includes all analytes detected and all groundwater samples through Quarter 3, 2009

Screening levels (SLs) typically based on the lowest of national and state surface water criteria for risk to aquatic life or human health. See Table 3-x for details.

Analytes are "selected as a COPC" if one or more samples exceed the SL AND >5% of samples are detected for the analyte.

Compounds without screening levels were not retained as COPCs if the analyte was part of another analysis (e.g. Aroclor 1260 and Total PCBs), or if the analyte is typically associated with other compounds that were not retained as COPCs.

The MTCA 3 part rule is applied to chemicals "selected as a COPC" only.

Total cPAH TEQ is calculated using the TEF in WAC 173-340-900 Table 708-2. Non-detected values are calculated using 1/2 the DL. cPAH compounds are not analyzed individually as COPCs. The screening level for total cPAH TEQ based on that for benzo(a)pyrene.

Total TEQ CCD & CDF is calculated using the formula in WAC 173-340-900 Table 708-1. Non-detected values are calculated using 1/2 the DL.

The SL for TEQ CCD & CDF is the SL for 2,3,7,8 TCDD based on MTCA Method B standard value formula

Total cPAH TEQ is calculated using the formula in WAC 173-340-900 Table 708-2. Non-detected values are calculated using 1/2 the DL. The screening level for total cPAH TEQ is that for benzo(a)pyrene.

Total PCBs is calculated as the sum of all detected Aroclors or the maximum DL for all non-detect.

Total TPH is calculated as the sum of detected diesel range TPH and lube oil range TPH or the maximum DL for all non-detect.

### Definitions

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95% BCA with full DL - sample distribution considered using DL as a replacement value for non-detects

BEHP - bis(2-Ethylhexyl)phthalate

cPAHs - carcinogenic polycyclic aromatic hydrocarbons benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene

COPC - chemical of potential concern

DL - detection limit

DL Exceedence - a non detected sample with a reporting limit above the screening level

J - flagged by the laboratory as an estimate

na - not applicable

nc - no criteria

PAH - polycyclic aromatic hydrocarbon

PCB - polychlorinated biphenyl

SL - screening level

sVOC - semivolatile organic compound

TEF - toxicity equivalency factor

TEQ - toxicity equivalency quotient

TPH - total petroleum hydrocarbons

UCL95 - 95% upper confidence limit

VOC - volatile organic compound

WAC - Washington Administrative Code