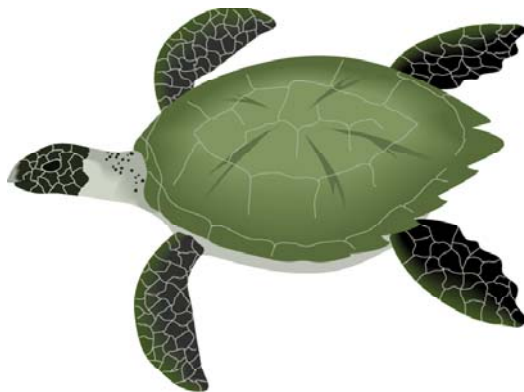




**United States Air Force  
15th Air Base Wing  
Environmental Restoration Program**

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***Final*  
WORK PLAN  
FOR REMOVAL SITE EVALUATION  
AT PIER DUMP SITE (LF24)  
Bellows Air Force Station  
Oahu, Hawaii**



**APPENDIX I**

**Comparison of AFCEE Reporting Limits to Risk-Based  
Screening Criteria for Soil and Groundwater**

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# Appendix I

## Comparison of AFCEE Reporting Limits to Risk-Based Screening Criteria for Soil and Groundwater

This appendix includes a comparison of AFCEE reporting limits (RLs) to the criteria that may be used in the baseline risk assessment for soil (Table I-1), and groundwater (Table I-2) at the Pier Dump Site. The analytical methods listed in Tables I-1 and I-2 are limited to those used for samples to be collected as part of the Removal Site Evaluation (RSE). If the method detection limit (MDL; calculated as one-half the RL) is below the screening criterion, the RL is sufficient for the quantitative use in the risk assessment. If not, other constituent-specific factors (such as potential use at the site, mobility, or toxicity) may be discussed and included in the risk assessment on a more qualitative basis.

As indicated in Table I-1 for soil, MDLs for the following constituents exceed U.S. Environmental Protection Agency (EPA) Region IX preliminary remediation goals (PRGs) for residential exposure:

- Arsenic by Method 6010B
- Benzo(a)pyrene and dibenz(a,h)anthracene, by Method SW8270C. The MDLs for benzo(a)pyrene and dibenz(a,h)anthracene also exceed PRGs for industrial exposure.

The screening-level concentration for arsenic can be achieved using the SW7000-series method specified in the Pier Dump Site Field Sampling Plan (FSP). The screening level concentrations for benzo(a)pyrene and dibenz(a,h)anthracene can be achieved using Method SW8270SIM specified in the Pier Dump Site FSP.

As indicated in Table I-2 for groundwater, MDLs for the following constituents exceed marine chronic ambient water quality criteria (AWQC):<sup>1</sup>

- Copper, lead, mercury, nickel, and silver by Method SW6010B
- 4,4'-DDT, alpha- and gamma-chlordane, dieldrin, endrin, endosulfan I and II, heptachlor, heptachlor epoxide, methoxychlor, and toxaphene by Method 8081A

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<sup>1</sup> Marine chronic AWQC are defined here as the most stringent of State of Hawaii Department of Health (HDOH) Tier 1 action levels; Hawaii State Water Quality Standards (Hawaii Administrative Record [HAR] 11-54, April 2000); National Recommended Water Quality Criteria (64 *Federal Register* [FR] 68357-68364, December 10, 1998); or criteria based on lowest observed effects levels (LOELs) or proposed criteria for the protection of aquatic organisms.

- Phenanthrene by Method SW8270C

The screening levels for lead and nickel can be achieved by using SW7000-series analyses instead of Method SW6010B. The screening level for phenanthrene can be achieved by use of the 8270SIM Method specified in the FSP. However, as a result of the low screening-level concentrations and the limitations of the analytical methods, neither the RLs nor the MDLs for the remaining constituents listed above will achieve their respective screening-level concentrations. Therefore, other constituent-specific factors will be discussed and included qualitatively in the results of the baseline risk assessment.

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial	Level <sup>1</sup>		Level?	Level?	Method?	
SW6010B	ALUMINUM	mg/kg	76,142	100,000	76,142	20	NO	10	NO	NO
SW6010B	ANTIMONY	mg/kg	31	409	31	10	NO	5.0	NO	YES
SW6010B	ARSENIC	mg/kg	0.39	1.6	0.39	5.0	YES	2.5	YES	YES
SW6010B	BARIUM	mg/kg	5,375	66,577	5,375	1.0	NO	0.50	NO	NO
SW6010B	BERYLLIUM	mg/kg	154	1,941	154	1.0	NO	0.50	NO	YES
SW6010B	CADMIUM	mg/kg	37	451	37	0.50	NO	0.25	NO	YES
SW6010B	CALCIUM	mg/kg	--	--	--	100	NA	50	NA	NO
SW6010B	CHROMIUM	mg/kg	211	448	211	1.0	NO	0.50	NO	YES
SW6010B	COBALT	mg/kg	903	1,921	903	1.0	NO	0.50	NO	NO
SW6010B	COPPER	mg/kg	3,129	40,877	3,129	2.0	NO	1.0	NO	YES
SW6010B	IRON	mg/kg	23,463	100,000	23,463	3.0	NO	1.5	NO	NO
SW6010B	LEAD	mg/kg	400	750	400	3.0	NO	1.5	NO	YES
SW6010B	MAGNESIUM	mg/kg	--	--	--	100	NA	50	NA	NO
SW6010B	MANGANESE	mg/kg	1,762	19,458	1,762	1.0	NO	0.50	NO	NO
SW6010B	MERCURY	mg/kg	23	307	23	0.1	NO	0.02	NO	YES
SW6010B	MOLYBDENUM	mg/kg	391	5,110	391	3.0	NO	1.5	NO	NO
SW6010B	NICKEL	mg/kg	1,564	20,439	1,564	2.0	NO	1.0	NO	YES
SW6010B	POTASSIUM	mg/kg	--	--	--	200	NA	100	NA	NO
SW6010B	SELENIUM	mg/kg	391	5,110	391	3.0	NO	1.5	NO	YES
SW6010B	SILVER	mg/kg	391	5,110	391	1.0	NO	0.50	NO	YES
SW6010B	SODIUM	mg/kg	--	--	--	100	NA	50	NA	NO
SW6010B	THALLIUM	mg/kg	5.2	67	5.2	6.0	YES	3.0	NO	YES
SW6010B	VANADIUM	mg/kg	547	7,154	547	1.0	NO	0.50	NO	NO
SW6010B	ZINC	mg/kg	23,463	100,000	23,463	2.0	NO	1.0	NO	YES
SW8015 (MOD)	DIESEL	mg/kg	--	--	--	10	NA	5.0	NA	NO
SW8015 (MOD)	GASOLINE	mg/kg	--	--	--	1.0	NA	0.50	NA	NO
SW8015 (MOD)	JET FUEL	mg/kg	--	--	--	10	NA	5.0	NA	NO
SW8081A	4,4'-DDD	mg/kg	2.4	10.0	2.4	0.0040	NO	0.0020	NO	YES
SW8081A	4,4'-DDE	mg/kg	1.7	7.0	1.7	0.0040	NO	0.0020	NO	YES
SW8081A	4,4'-DDT	mg/kg	1.7	7.0	1.7	0.0040	NO	0.0020	NO	YES
SW8081A	A-CHLORDANE	mg/kg	1.6	6.5	1.6	0.0040	NO	0.0020	NO	YES
SW8081A	ALDRIN	mg/kg	0.029	0.10	0.029	0.0040	NO	0.0020	NO	YES
SW8081A	ALPHA-BHC	mg/kg	0.090	0.36	0.090	0.0040	NO	0.0020	NO	YES
SW8081A	BETA-BHC	mg/kg	0.32	1.3	0.32	0.0040	NO	0.0020	NO	YES

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening Level <sup>1</sup>	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial						
SW8081A	DELTA-BHC	mg/kg	--	--	--	0.0040	NA	0.0020	NA	YES
SW8081A	DIELDRIN	mg/kg	0.030	0.11	0.030	0.0040	NO	0.0020	NO	YES
SW8081A	ENDOSULFAN I	mg/kg	367	3,694	367	0.0040	NO	0.0020	NO	YES
SW8081A	ENDOSULFAN II	mg/kg	367	3,694	367	0.0040	NO	0.0020	NO	YES
SW8081A	ENDOSULFAN SULFATE	mg/kg	367	3,694	367	0.0040	NO	0.0020	NO	YES
SW8081A	ENDRIN	mg/kg	18	185	18	0.0040	NO	0.0020	NO	YES
SW8081A	ENDRIN ALDEHYDE	mg/kg	18	185	18	0.0040	NO	0.0020	NO	YES
SW8081A	GAMMA-BHC (LINDANE)	mg/kg	0.44	1.7	0.44	0.0040	NO	0.0020	NO	YES
SW8081A	HEPTACHLOR	mg/kg	0.11	0.38	0.11	0.0040	NO	0.0020	NO	YES
SW8081A	HEPTACHLOR EPOXIDE	mg/kg	0.053	0.19	0.053	0.0040	NO	0.0020	NO	YES
SW8081A	METHOXYCHLOR	mg/kg	306	3,078	306	0.020	NO	0.010	NO	YES
SW8081A	TOXAPHENE	mg/kg	0.44	1.6	0.44	0.10	NO	0.050	NO	YES
SW8081A	Y-CHLORDANE	mg/kg	1.6	6.5	1.6	0.0040	NO	0.0020	NO	YES
SW8082	PCB-1016	mg/kg	3.9	21	3.9	0.050	NO	0.025	NO	YES
SW8082	PCB-1221	mg/kg	0.22	0.74	0.22	0.050	NO	0.025	NO	YES
SW8082	PCB-1232	mg/kg	0.22	0.74	0.22	0.050	NO	0.025	NO	YES
SW8082	PCB-1242	mg/kg	0.22	0.74	0.22	0.050	NO	0.025	NO	YES
SW8082	PCB-1248	mg/kg	0.22	0.74	0.22	0.050	NO		NO	YES
SW8082	PCB-1254	mg/kg	0.22	0.74	0.22	0.050	NO	0.025	NO	YES
SW8082	PCB-1260	mg/kg	0.22	0.74	0.22	0.050	NO		NO	YES
SW8151A	2,4,5-T	mg/kg	611	6,156	611	0.50	NO	0.25	NO	YES
SW8151A	2,4,5-TP	mg/kg	6,110	61,561	6,110	0.20	NO	0.10	NO	YES
SW8151A	2,4-D	mg/kg	686	7,683	686	0.20	NO	0.10	NO	YES
SW8151A	2,4-DB	mg/kg	489	4,925	489	0.50	NO	0.25	NO	YES
SW8151A	DALAPON	mg/kg	1,833	18,468	1,833	0.80	NO	0.40	NO	YES
SW8151A	DICAMBA	mg/kg	1,833	18,468	1,833	0.50	NO	0.25	NO	YES
SW8151A	DICHLORPROP	mg/kg	--	--	--	0.50	NA	0.25	NA	YES
SW8151A	DINOSEB	mg/kg	61	616	61	0.10	NO	0.050	NO	YES
SW8151A	MCPA	mg/kg	31	308	31	10	NO	5.0	NO	YES
SW8151A	MCPD	mg/kg	61	616	61	15	NO	7.5	NO	YES
SW8260B	1,1,1,2-TETRACHLOROETHANE	mg/kg	3.2	7.3	3.2	0.0030	NO	0.0015	NO	NO
SW8260B	1,1,1-TCA	mg/kg	1,200	1,200	--	0.0050	NA	0.0025	NA	NO
SW8260B	1,1,2,2-TETRACHLOROETHANE	mg/kg	0.41	0.93	0.41	0.0030	NO	0.0015	NO	NO
SW8260B	1,1,2-TCA	mg/kg	0.73	1.6	0.73	0.0050	NO	0.0025	NO	NO

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening Level <sup>1</sup>	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial						
SW8260B	1,1-DCA	mg/kg	506	1,739	506	0.0050	NO	0.0025	NO	NO
SW8260B	1,1-DCE	mg/kg	124	413	124	0.0060	NO	0.0030	NO	NO
SW8260B	1,1-DICHLOROPROPENE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	1,2,3-TRICHLOROBENZENE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	1,2,3-TRICHLOROPROPANE	mg/kg	0.0050	0.011	0.0050	0.0050	NO	0.0025	NO	NO
SW8260B	1,2,4-TRICHLOROBENZENE	mg/kg	650	3,000	650	0.0050	NO	0.0025	NO	NO
SW8260B	1,2,4-TRIMETHYLBENZENE	mg/kg	52	170	52	0.0060	NO	0.0030	NO	NO
SW8260B	1,2-DCA	mg/kg	0.28	0.60	0.28	0.0030	NO	0.0015	NO	NO
SW8260B	1,2-DCB	mg/kg	370	370	--	0.0050	NA	0.0025	NA	NO
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	0.45	2.0	0.45	0.010	NO	0.0050	NO	NO
SW8260B	1,2-DIBROMOETHANE (EDB)	mg/kg	0.0069	0.028	0.0069	0.0050	NO	0.0025	NO	NO
SW8260B	1,2-DICHLOROPROPANE	mg/kg	0.34	0.74	0.34	0.0050	NO	0.0025	NO	NO
SW8260B	1,3,5-TRIMETHYLBENZENE	mg/kg	21	70	21	0.0050	NO	0.0025	NO	NO
SW8260B	1,3-DCB	mg/kg	16	63	16	0.0060	NO	0.0030	NO	NO
SW8260B	1,3-DICHLOROPROPANE	mg/kg	--	--	--	0.0020	NA	0.0010	NA	NO
SW8260B	1,4-DCB	mg/kg	3.4	7.9	3.4	0.0020	NO	0.0010	NO	NO
SW8260B	1-CHLOROHEXANE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	2,2-DICHLOROPROPANE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	2-CHLOROTOLUENE	mg/kg	158	560	158	0.0050	NO	0.0025	NO	NO
SW8260B	4-CHLOROTOLUENE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	ACETONE	mg/kg	1,570	6,036	1,570	0.050	NO	0.025	NO	NO
SW8260B	BENZENE	mg/kg	0.60	1.3	0.60	0.0020	NO	0.0010	NO	NO
SW8260B	BROMOBENZENE	mg/kg	28	92	28	0.0050	NO	0.0025	NO	NO
SW8260B	BROMOCHLOROMETHANE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	BROMODICHLOROMETHANE	mg/kg	0.82	1.8	0.82	0.0020	NO	0.0010	NO	NO
SW8260B	BROMOFORM	mg/kg	62	218	62	0.0060	NO	0.0030	NO	NO
SW8260B	BROMOMETHANE	mg/kg	3.9	13	3.9	0.010	NO	0.0050	NO	NO
SW8260B	CARBON TETRACHLORIDE	mg/kg	0.25	0.55	0.25	0.0050	NO	0.0025	NO	NO
SW8260B	CHLOROBENZENE	mg/kg	151	530	151	0.0020	NO	0.0010	NO	NO
SW8260B	CHLOROETHANE	mg/kg	3.0	6.5	3.0	0.0050	NO	0.0025	NO	NO
SW8260B	CHLOROFORM	mg/kg	3.6	12	3.6	0.0020	NO	0.0010	NO	NO
SW8260B	CHLOROMETHANE	mg/kg	1.2	2.6	1.2	0.0050	NO	0.0025	NO	NO
SW8260B	CIS-1,2-DCE	mg/kg	43	146	43	0.0050	NO	0.0025	NO	NO
SW8260B	CIS-1,3-DICHLOROPROPENE	mg/kg	--	--	--	0.0030	NA	0.0015	NA	NO

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening Level <sup>1</sup>	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial						
SW8260B	DIBROMOCHLOROMETHANE	mg/kg	1.1	2.6	1.1	0.0030	NO	0.0015	NO	NO
SW8260B	DIBROMOMETHANE	mg/kg	67	234	67	0.0050	NO	0.0025	NO	NO
SW8260B	DICHLORODIFLUOROMETHANE	mg/kg	94	308	94	0.0050	NO	0.0025	NO	NO
SW8260B	ETHYLBENZENE	mg/kg	8.9	20	8.9	0.0050	NO	0.0025	NO	NO
SW8260B	HEXACHLOROBUTADIENE	mg/kg	6.2	22	6.2	0.0030	NO	0.0015	NO	NO
SW8260B	ISOPROPYLBENZENE	mg/kg	572	1,977	572	0.0050	NO	0.0025	NO	NO
SW8260B	M,P-XYLENE	mg/kg	275	420	275	0.0050	NO	0.0025	NO	NO
SW8260B	MEK (2-BUTANONE)	mg/kg	7,325	27,102	7,325	0.020	NO	0.010	NO	NO
SW8260B	METHYL T-BUTYL ETHER (MTBE)	mg/kg	--	--	--	0.020	NA	0.010	NA	NO
SW8260B	METHYLENE CHLORIDE	mg/kg	9.1	21	9.1	0.0050	NO	0.0025	NO	NO
SW8260B	MIBK (METHYL ISOBUTYL KETONE)	mg/kg	787	2,837	787	0.020	NO	0.010	NO	NO
SW8260B	NAPHTHALENE	mg/kg	56	188	56	0.0050	NO	0.0025	NO	NO
SW8260B	N-BUTYLBENZENE	mg/kg	240	240	--	0.0050	NA	0.0025	NA	NO
SW8260B	N-PROPYLBENZENE	mg/kg	240	240	--	0.0050	NA	0.0025	NA	NO
SW8260B	O-XYLENE	mg/kg	275	420	275	0.0050	NO	0.0025	NO	NO
SW8260B	P-ISOPROPYLTOLUENE	mg/kg	--	--	--	0.0060	NA	0.0030	NA	NO
SW8260B	SEC-BUTYLBENZENE	mg/kg	220	220	--	0.0050	NA	0.0025	NA	NO
SW8260B	STYRENE	mg/kg	1,700	1,700	--	0.0050	NA	0.0025	NA	NO
SW8260B	TCE	mg/kg	0.053	0.11	0.053	0.0050	NO	0.0025	NO	NO
SW8260B	TERT-BUTYLBENZENE	mg/kg	390	390	--	0.0050	NA	0.0025	NA	NO
SW8260B	TETRACHLOROETHENE	mg/kg	1.5	3.4	1.5	0.0050	NO	0.0025	NO	NO
SW8260B	TOLUENE	mg/kg	520	520	--	0.0050	NA	0.0025	NA	NO
SW8260B	TRANS-1,2-DCE	mg/kg	69	235	69	0.0050	NO	0.0025	NO	NO
SW8260B	TRANS-1,3-DICHLOROPROPENE	mg/kg	--	--	--	0.0050	NA	0.0025	NA	NO
SW8260B	TRICHLOROFLUOROMETHANE	mg/kg	386	2,000	386	0.0050	NO	0.0025	NO	NO
SW8260B	VINYL CHLORIDE	mg/kg	0.079	0.75	0.079	0.0050	NO	0.0025	NO	NO
SW8270C	1,2,4-TRICHLOROBENZENE	mg/kg	650	3,000	650	0.70	NO	0.35	NO	NO
SW8270C	1,2-DCB	mg/kg	370	370	--	0.70	NA	0.35	NA	NO
SW8270C	1,3-DCB	mg/kg	16	63	16	0.70	NO	0.35	NO	NO
SW8270C	1,4-DCB	mg/kg	3.4	7.9	3.4	0.70	NO	0.35	NO	NO
SW8270C	2,4,5-TRICHLOROPHENOL	mg/kg	6,110	61,561	6,110	3.3	NO	1.7	NO	NO
SW8270C	2,4,6-TRICHLOROPHENOL	mg/kg	6.1	62	6.1	0.30	NO	0.15	NO	NO
SW8270C	2,4-DICHLOROPHENOL	mg/kg	183	1,847	183	0.30	NO	0.15	NO	NO
SW8270C	2,4-DIMETHYLPHENOL	mg/kg	1,222	12,312	1,222	0.30	NO	0.15	NO	NO

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial	Level <sup>1</sup>		Level?	Level?	Method?	
SW8270C	2,4-DINITROPHENOL	mg/kg	122	1,231	122	3.3	NO	1.7	NO	NO
SW8270C	2,4-DNT	mg/kg	122	1,231	122	0.70	NO	0.35	NO	NO
SW8270C	2,6-DNT	mg/kg	61	616	61	0.70	NO	0.35	NO	NO
SW8270C	2-CHLORONAPHTHALENE	mg/kg	4,937	23,383	4,937	0.70	NO	0.35	NO	NO
SW8270C	2-CHLOROPHENOL	mg/kg	63	236	63	0.30	NO	0.15	NO	NO
SW8270C	2-METHYLNAPHTHALENE	mg/kg	--	--	--	0.70	NA	0.35	NA	NO
SW8270C	2-METHYLPHENOL	mg/kg	3,055	30,780	3,055	0.30	NO	0.15	NO	NO
SW8270C	2-NITROANILINE	mg/kg	1.7	18	1.7	3.3	YES	1.7	NO	NO
SW8270C	2-NITROPHENOL	mg/kg	--	--	--	0.30	NA	0.15	NA	NO
SW8270C	3,3'-DICHLOROBENZIDINE	mg/kg	1.1	3.8	1.1	1.3	YES	0.65	NO	NO
SW8270C	3-NITROANILINE	mg/kg	--	--	--	3.3	NA	1.7	NA	NO
SW8270C	4,6-DINITRO-2-METHYLPHENOL	mg/kg	--	--	--	3.3	NA	1.7	NA	NO
SW8270C	4-BROMOPHENYL PHENYL ETHER	mg/kg	--	--	--	0.70	NA	0.35	NA	NO
SW8270C	4-CHLORO-3-METHYLPHENOL	mg/kg	--	--	--	1.3	NA	0.65	NA	NO
SW8270C	4-CHLOROANILINE	mg/kg	244	2,462	244	1.3	NO	0.65	NO	NO
SW8270C	4-CHLOROPHENYL PHENYL ETHER	mg/kg	--	--	--	0.70	NA	0.35	NA	NO
SW8270C	4-METHYLPHENOL	mg/kg	306	3,078	306	2.0	NO	1.0	NO	NO
SW8270C	4-NITROANILINE	mg/kg	--	--	--	3.3	NA	1.7	NA	NO
SW8270C	4-NITROPHENOL	mg/kg	489	7,047	489	1.6	NO	0.80	NO	NO
SW8270C	ACENAPHTHYLENE	mg/kg	--	--	--	0.70	NA	0.35	NA	YES
SW8270C	ACENAPTHENE	mg/kg	3,682	29,219	3,682	0.70	NO	0.35	NO	YES
SW8270C	ANTHRACENE	mg/kg	21,896	100,000	21,896	0.70	NO	0.35	NO	YES
SW8270C	BENZO(A)ANTHRACENE	mg/kg	0.62	2.1	0.62	0.70	YES	0.35	NO	YES
SW8270C	BENZO(A)PYRENE	mg/kg	0.062	0.21	0.062	0.70	YES	0.35	YES	YES
SW8270C	BENZO(B)FLUORANTHENE	mg/kg	0.62	2.1	0.62	0.70	YES	0.35	NO	YES
SW8270C	BENZO(G,H,I)PERYLENE	mg/kg	--	--	--	0.70	NA	0.35	NA	YES
SW8270C	BENZO(K)FLUORANTHENE	mg/kg	6.2	21	6.2	0.70	NO	0.35	NO	YES
SW8270C	BENZOIC ACID	mg/kg	100,000	100,000	--	5.0	NA	2.5	NA	NO
SW8270C	BENZYL ALCOHOL	mg/kg	18,331	100,000	18,331	1.3	NO	0.65	NO	NO
SW8270C	BIS(2-CHLOROETHOXY)METHANE	mg/kg	--	--	--	0.70	NA	0.35	NA	NO
SW8270C	BIS(2-CHLOROETHYL)ETHER	mg/kg	0.21	0.55	0.21	0.70	YES	0.35	YES	NO
SW8270C	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	2.9	7.4	2.9	0.70	NO	0.35	NO	NO
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	35	123	35	0.70	NO	0.35	NO	NO
SW8270C	BUTYL BENZYLPHTHALATE	mg/kg	12,221	100,000	12,221	0.70	NO	0.35	NO	NO

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening	RL	Does RL Exceed Screening	Estimated MDL	Does MDL Exceed Screening	RSE Target Analyte and Method?
			Residential	Industrial	Level <sup>1</sup>		Level?		Level?	
SW8270C	CHRYSENE	mg/kg	62	211	62	0.70	NO	0.35	NO	YES
SW8270C	DIBENZ(A,H)ANTHRACENE	mg/kg	0.062	0.21	0.062	0.70	YES	0.35	YES	YES
SW8270C	DIBENZOFURAN	mg/kg	291	3,127	291	0.70	NO	0.35	NO	NO
SW8270C	DIETHYL PHTHALATE	mg/kg	48,882	100,000	48,882	0.70	NO	0.35	NO	NO
SW8270C	DI-N-BUTYLPHTHALATE	mg/kg	6,110	61,561	6,110	0.70	NO	0.35	NO	NO
SW8270C	DI-N-OCTYLPHTHALATE	mg/kg	2,444	24,624	2,444	0.70	NO	0.35	NO	NO
SW8270C	FLUORANTHENE	mg/kg	2,294	22,000	2,294	0.70	NO	0.35	NO	YES
SW8270C	FLUORENE	mg/kg	2,747	26,281	2,747	0.70	NO	0.35	NO	YES
SW8270C	HEXACHLOROBENZENE	mg/kg	0.30	1.1	0.30	0.70	YES	0.35	YES	NO
SW8270C	HEXACHLOROBTADIENE	mg/kg	6.2	22	6.2	0.70	NO	0.35	NO	NO
SW8270C	HEXACHLOROETHANE	mg/kg	35	123	35	0.70	NO	0.35	NO	NO
SW8270C	INDENO (1,2,3-CD) PYRENE	mg/kg	0.62	2.1	0.62	0.70	YES	0.35	NO	YES
SW8270C	ISOPHORONE	mg/kg	512	1,814	512	0.70	NO	0.35	NO	NO
SW8270C	NAPHTHALENE	mg/kg	56	188	56	0.70	NO	0.35	NO	YES
SW8270C	NITROBENZENE	mg/kg	20	103	20	0.70	NO	0.35	NO	NO
SW8270C	N-NITROSODI-N-PROPYLAMINE	mg/kg	0.069	0.25	0.069	0.70	YES	0.35	YES	NO
SW8270C	N-NITROSODIPHENYLAMINE	mg/kg	99	352	99	0.70	NO	0.35	NO	NO
SW8270C	PENTACHLOROPHENOL	mg/kg	3.0	9.0	3.0	3.3	YES	1.7	NO	NO
SW8270C	PHENANTHRENE	mg/kg	--	--	--	0.70	NA	0.35	NA	YES
SW8270C	PHENOL	mg/kg	36,662	100,000	36,662	0.30	NO	0.15	NO	NO
SW8270C	PYRENE	mg/kg	2,316	29,126	2,316	0.70	NO	0.35	NO	YES
SW8290	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	ug/kg	0.0039	0.016	0.0039	0.001	NO	5.00E-04	NO	YES
SW8290	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	ug/kg	--	--	--	0.001	NA	5.00E-04	NA	YES
SW8290	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	ug/kg	--	--	--	0.005	NA	2.50E-03	NA	YES
SW8290	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	ug/kg	--	--	--	0.001	NA	5.00E-04	NA	YES
SW8290	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	ug/kg	--	--	--	0.001	NA	5.00E-04	NA	YES
SW8290	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	ug/kg	--	--	--	0.001	NA	5.00E-04	NA	YES
SW8290	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES

TABLE I-1

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Soil  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	PRGs		Most Stringent Screening Level <sup>1</sup>	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte and Method?
			Residential	Industrial						
SW8290	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	ug/kg	--	--	--	0.0025	NA	1.25E-03	NA	YES
SW8290	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	ug/kg	--	--	--	0.005	NA	2.50E-03	NA	YES
SW8310	ACENAPHTHENE	mg/kg	3,682	29,219	3,682	0.20	NO	0.10	NO	NO
SW8310	ACENAPHTHYLENE	mg/kg	--	--	--	0.10	NA	0.050	NA	NO
SW8310	ANTHRACENE	mg/kg	21,896	100,000	21,896	0.10	NO	0.050	NO	NO
SW8310	BENZO(A)ANTHRACENE	mg/kg	0.62	2.1	0.62	0.010	NO	0.0050	NO	NO
SW8310	BENZO(A)PYRENE	mg/kg	0.062	0.21	0.062	0.015	NO	0.0075	NO	NO
SW8310	BENZO(B)FLUORANTHENE	mg/kg	0.62	2.1	0.62	0.010	NO	0.0050	NO	NO
SW8310	BENZO(G,H,I)PERYLENE	mg/kg	--	--	--	0.050	NA	0.025	NA	NO
SW8310	BENZO(K)FLUORANTHENE	mg/kg	6.2	21	6.2	0.010	NO	0.0050	NO	NO
SW8310	CHRYSENE	mg/kg	62	211	62	0.10	NO	0.050	NO	NO
SW8310	DIBENZO(A,H)ANTHRACENE	mg/kg	0.062	0.21	0.062	0.010	NO	0.0050	NO	NO
SW8310	FLUORANTHENE	mg/kg	2,294	22,000	2,294	0.10	NO	0.050	NO	NO
SW8310	FLUORENE	mg/kg	2,747	26,281	2,747	0.20	NO	0.10	NO	NO
SW8310	INDENO (1,2,3-CD) PYRENE	mg/kg	0.62	2.1	0.62	0.030	NO	0.015	NO	NO
SW8310	NAPHTHALENE	mg/kg	56	188	56	0.20	NO	0.10	NO	NO
SW8310	PHENANTHRENE	mg/kg	--	--	--	0.10	NA	0.050	NA	NO
SW8310	PYRENE	mg/kg	2,316	29,126	2,316	0.10	NO	0.050	NO	NO
SW9010B/SW901:	TOTAL CYANIDE	mg/kg	--	--	--	0.50	NA	0.25	NA	NO
SW9060	TOTAL ORGANIC CARBON	--	--	--	--		NA		NA	NO

**Notes:**

mg/kg = milligrams per kilograms; ug/kg = micrograms per kilogram

<sup>1</sup>For sediment and soil, most stringent equals: U.S. EPA Region IX preliminary remediation goals (PRGs), residential (November 2000).

  = MDL exceeds most stringent criteria for RSE target analyte and method

RL = reporting limit

MDL = method detection limit

NA = Not applicable, no criteria

For dioxins and furans the screening levels are U.S. EPA soil action levels for residential and industrial soil (U.S. EPA. April 13, 1998. *Approach for Addressing Dioxin in Soil at CERCLA and RCRA Sites*. OSWER 9200.4-26)

TABLE I-2

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	Most Stringent Screening Level <sup>1</sup>	Screen Level Source	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte?
SW6010B	ALUMINUM	mg/L	--	NA	0.20	NA	0.1	NA	NO
SW6010B	ANTIMONY	mg/L	0.50	Saltwater CCC proposed criterion	0.050	NO	0.025	NO	YES
SW6010B	ARSENIC	mg/L	0.036	HDOH WQS Chronic	0.030	NO	0.015	NO	YES
SW6010B	BARIUM	mg/L	--	NA	0.050	NA	0.025	NA	NO
SW6010B	BERYLLIUM	mg/L	--	NA	0.0040	NA	0.002	NA	YES
SW6010B	CADMIUM	mg/L	0.0090	HDOH Tier 1	0.0050	NO	0.0025	NO	YES
SW6010B	CALCIUM	mg/L	--	NA	1.1	NA	0.55	NA	NO
SW6010B	CHROMIUM	mg/L	0.050	Saltwater CMC	0.010	NO	0.005	NO	YES
SW6010B	COBALT	mg/L	--	NA	0.060	NA	0.03	NA	NO
SW6010B	COPPER	mg/L	0.0029	HDOH WQS Chronic	0.010	YES	0.005	YES	YES
SW6010B	IRON	mg/L	--	NA	0.20	NA	0.1	NA	NO
SW6010B	LEAD	mg/L	0.0056	HDOH Tier 1	0.025	YES	0.0125	YES	YES
SW6010B	MAGNESIUM	mg/L	--	NA	1.0	NA	0.5	NA	NO
SW6010B	MANGANESE	mg/L	--	NA	0.010	NA	0.005	NA	NO
SW6010B	MERCURY	mg/L	2.50E-05	HDOH WQS Chronic	0.0010	YES	1.00E-04	YES	YES
SW6010B	MOLYBDENUM	mg/L	--	NA	0.015	NA	0.0075	NA	NO
SW6010B	NICKEL	mg/L	0.0082	Saltwater CCC	0.020	YES	0.01	YES	YES
SW6010B	POTASSIUM	mg/L	--	NA	1.0	NA	0.5	NA	NO
SW6010B	SELENIUM	mg/L	0.071	HDOH WQS Chronic	0.030	NO	0.015	NO	YES
SW6010B	SILVER	mg/L	0.0019	Saltwater CMC	0.010	YES	0.005	YES	YES
SW6010B	SODIUM	mg/L	--	NA	1.0	NA	0.5	NA	NO
SW6010B	THALLIUM	mg/L	0.71	HDOH WQS Chronic	0.080	NO	0.04	NO	YES
SW6010B	VANADIUM	mg/L	--	NA	0.010	NA	0.005	NA	NO
SW6010B	ZINC	mg/L	0.081	Saltwater CCC	0.020	NO	0.01	NO	YES
SW8015 (MOD)	DIESEL	mg/L	--	NA	1.0	NA	0.5	NA	NO
SW8015 (MOD)	GASOLINE	mg/L	--	NA	0.10	NA	0.05	NA	NO
SW8015 (MOD)	JET FUEL	mg/L	--	NA	1.0	NA	0.5	NA	NO
SW8081A	4,4'-DDD	ug/L	0.60	HDOH Tier 1	0.10	NO	0.05	NO	YES
SW8081A	4,4'-DDE	ug/L	14	HDOH Tier 1	0.10	NO	0.05	NO	YES
SW8081A	4,4'-DDT	ug/L	0.0010	HDOH Tier 1	0.10	YES	0.05	YES	YES
SW8081A	A-CHLORDANE	ug/L	0.0040	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8081A	ALDRIN	ug/L	1.3	HDOH WQS Acute	0.10	NO	0.05	NO	YES
SW8081A	ALPHA-BHC	ug/L	0.34	Saltwater CMC LOEL	0.10	NO	0.05	NO	YES
SW8081A	BETA-BHC	ug/L	0.34	Saltwater CMC LOEL	0.10	NO	0.05	NO	YES
SW8081A	DELTA-BHC	ug/L	0.34	Saltwater CMC LOEL	0.10	NO	0.05	NO	YES
SW8081A	DIELDRIN	ug/L	0.0019	HDOH WQS Chronic	0.10	YES	0.05	YES	YES

TABLE I-2

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	Most Stringent Screening Level <sup>1</sup>	Screen Level Source	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte?
SW8081A	ENDOSULFAN I	ug/L	0.0087	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8081A	ENDOSULFAN II	ug/L	0.0087	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8081A	ENDOSULFAN SULFATE	ug/L	--	NA	0.10	NA	0.05	NA	YES
SW8081A	ENDRIN	ug/L	0.0023	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8081A	ENDRIN ALDEHYDE	ug/L	--	NA	0.10	NA	0.05	NA	YES
SW8081A	GAMMA-BHC (LINDANE)	ug/L	0.16	Saltwater CMC	0.10	NO	0.05	NO	YES
SW8081A	HEPTACHLOR	ug/L	0.0036	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8081A	HEPTACHLOR EPOXIDE	ug/L	0.0036	Saltwater CCC	0.10	YES	0.05	YES	YES
SW8081A	METHOXYCHLOR	ug/L	0.030	HDOH WQS Chronic	0.50	YES	0.25	YES	YES
SW8081A	TOXAPHENE	ug/L	2.00E-04	HDOH WQS Chronic	1.0	YES	0.5	YES	YES
SW8081A	Y-CHLORDANE	ug/L	0.0040	HDOH WQS Chronic	0.10	YES	0.05	YES	YES
SW8151A	2,4,5-T	ug/L	--	NA	20	NA	10	NA	YES
SW8151A	2,4,5-TP	ug/L	--	NA	10	NA	5	NA	YES
SW8151A	2,4-D	ug/L	--	NA	10	NA	5	NA	YES
SW8151A	2,4-DB	ug/L	--	NA	20	NA	10	NA	YES
SW8151A	DALAPON	ug/L	--	NA	30	NA	15	NA	YES
SW8151A	DICAMBA	ug/L	--	NA	20	NA	10	NA	YES
SW8151A	DICHLORPROP	ug/L	--	NA	20	NA	10	NA	YES
SW8151A	DINOSEB	ug/L	--	NA	3.0	NA	1.5	NA	YES
SW8151A	MCPA	ug/L	--	NA	100	NA	50	NA	YES
SW8151A	MCPP	ug/L	--	NA	100	NA	50	NA	YES
SW8260B	1,1,1,2-TETRACHLOROETHANE	ug/L	--	NA	0.50	NA	0.25	NA	NO
SW8260B	1,1,1-TCA	ug/L	6,000	HDOH Tier 1	1.0	NO	0.5	NO	NO
SW8260B	1,1,2,2-TETRACHLOROETHANE	ug/L	3,000	HDOH WQS Acute	0.50	NO	0.25	NO	NO
SW8260B	1,1,2-TCA	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	1,1-DCA	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	1,1-DCE	ug/L	3,900	HDOH Tier 1	1.0	NO	0.5	NO	NO
SW8260B	1,1-DICHLOROPROPENE	ug/L	790	Saltwater CMC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,2,3-TRICHLOROBENZENE	ug/L	129	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,2,3-TRICHLOROPROPANE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	1,2,4-TRICHLOROBENZENE	ug/L	129	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,2,4-TRIMETHYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	1,2-DCA	ug/L	38,000	HDOH WQS Acute	0.50	NO	0.25	NO	NO
SW8260B	1,2-DCB	ug/L	129	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	--	NA	2.0	NA	1	NA	NO
SW8260B	1,2-DIBROMOETHANE (EDB)	ug/L	--	NA	1.0	NA	0.5	NA	NO

TABLE I-2

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	Most	Screen Level Source	RL	Does RL	Estimated	Does MDL	RSE Target
			Stringent			Exceed		Exceed	
			Screening			Screening	MDL	Screening	Analyte?
			Level <sup>1</sup>			Level?		Level?	
SW8260B	1,2-DICHLOROPROPANE	ug/L	3,040	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,3,5-TRIMETHYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	1,3-DCB	ug/L	129	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	1,3-DICHLOROPROPANE	ug/L	3,040	Saltwater CCC LOEL	0.40	NO	0.2	NO	NO
SW8260B	1,4-DCB	ug/L	129	Saltwater CCC LOEL	0.50	NO	0.25	NO	NO
SW8260B	1-CHLOROHEXANE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	2,2-DICHLOROPROPANE	ug/L	3,040	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	2-CHLOROTOLUENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	4-CHLOROTOLUENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	ACETONE	ug/L	--	NA	10	NA	5	NA	NO
SW8260B	BENZENE	ug/L	700	Saltwater CCC LOEL	0.40	NO	0.2	NO	NO
SW8260B	BROMOBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	BROMOCHLOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	BROMODICHLOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	0.50	NO	0.25	NO	NO
SW8260B	BROMOFORM	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	BROMOMETHANE	ug/L	6,400	Saltwater CCC LOEL	3.0	NO	1.5	NO	NO
SW8260B	CARBON TETRACHLORIDE	ug/L	12,000	HDOH Tier 1	1.0	NO	0.5	NO	NO
SW8260B	CHLOROBENZENE	ug/L	129	Saltwater CCC LOEL, exclude MC	0.50	NO	0.25	NO	NO
SW8260B	CHLOROETHANE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	CHLOROFORM	ug/L	6,400	Saltwater CCC LOEL	0.30	NO	0.15	NO	NO
SW8260B	CHLOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	CIS-1,2-DCE	ug/L	224,000	Saltwater CMC LOEL	1.0	NO	0.5	NO	NO
SW8260B	CIS-1,3-DICHLOROPROPENE	ug/L	--	NA	0.50	NA	0.25	NA	NO
SW8260B	DIBROMOCHLOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	0.50	NO	0.25	NO	NO
SW8260B	DIBROMOMETHANE	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	DICHLORODIFLUOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	ETHYLBENZENE	ug/L	30	Saltwater CMC LOEL	1.0	NO	0.5	NO	NO
SW8260B	HEXACHLOROBUTADIENE	ug/L	11	HDOH WQS Acute	0.60	NO	0.3	NO	NO
SW8260B	ISOPROPYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	M,P-XYLENE	ug/L	--	NA	2.0	NA	1	NA	NO
SW8260B	MEK (2-BUTANONE)	ug/L	--	NA	10	NA	5	NA	NO
SW8260B	METHYL T-BUTYL ETHER (MTBE)	ug/L	--	NA	5.0	NA	2.5	NA	NO
SW8260B	METHYLENE CHLORIDE	ug/L	6,400	Saltwater CCC LOEL, exclude MC	1.0	NO	0.5	NO	NO
SW8260B	MIBK (METHYL ISOBUTYL KETONE)	ug/L	--	NA	10	NA	5	NA	NO
SW8260B	NAPHTHALENE	ug/L	770	HDOH Tier 1	1.0	NO	0.5	NO	NO
SW8260B	N-BUTYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO

TABLE I-2

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	Most Stringent Screening Level <sup>1</sup>	Screen Level Source	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte?
SW8260B	N-PROPYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	O-XYLENE	ug/L	--	MCL-Based HDOH excluded	1.0	NA	0.5	NA	NO
SW8260B	P-ISOPROPYLTOLUENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	SEC-BUTYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	STYRENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	TCE	ug/L	700	HDOH WQS Acute	1.0	NO	0.5	NO	NO
SW8260B	TERT-BUTYLBENZENE	ug/L	--	NA	1.0	NA	0.5	NA	NO
SW8260B	TETRACHLOROETHENE	ug/L	145	HDOH WQS Chronic	1.0	NO	0.5	NO	NO
SW8260B	TOLUENE	ug/L	2,100	HDOH WQS Acute	1.0	NO	0.5	NO	NO
SW8260B	TRANS-1,2-DCE	ug/L	224,000	Saltwater CMC LOEL	1.0	NO	0.5	NO	NO
SW8260B	TRANS-1,3-DICHLOROPROPENE	ug/L	260	HDOH WQS Chronic	1.0	NO	0.5	NO	NO
SW8260B	TRICHLOROFLUOROMETHANE	ug/L	6,400	Saltwater CCC LOEL	1.0	NO	0.5	NO	NO
SW8260B	VINYL CHLORIDE	ug/L	--	MCL-Based HDOH excluded	1.0	NA	0.5	NA	NO
SW8270C	1,2,4-TRICHLOROBENZENE	ug/L	129	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	1,2-DCB	ug/L	129	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	1,3-DCB	ug/L	129	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	1,4-DCB	ug/L	129	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	2,4,5-TRICHLOROPHENOL	ug/L	11	Saltwater CCC proposed criterion	50	YES	25	YES	NO
SW8270C	2,4,6-TRICHLOROPHENOL	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2,4-DICHLOROPHENOL	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2,4-DIMETHYLPHENOL	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2,4-DINITROPHENOL	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	2,4-DNT	ug/L	200	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	2,6-DNT	ug/L	200	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	2-CHLORONAPHTHALENE	ug/L	7.5	Saltwater CMC LOEL	10	YES	5	NO	NO
SW8270C	2-CHLOROPHENOL	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2-METHYLNAPHTHALENE	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2-METHYLPHENOL	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	2-NITROANILINE	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	2-NITROPHENOL	ug/L	1,600	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	3,3'-DICHLOROBENZIDINE	ug/L	--	NA	20	NA	10	NA	NO
SW8270C	3-NITROANILINE	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	4,6-DINITRO-2-METHYLPHENOL	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	4-BROMOPHENYL PHENYL ETHER	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	4-CHLORO-3-METHYLPHENOL	ug/L	--	NA	20	NA	10	NA	NO
SW8270C	4-CHLOROANILINE	ug/L	--	NA	20	NA	10	NA	NO

TABLE I-2

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
Pier Dump Site RSE, Below AFS

Method	Constituent	Units	Most Stringent Screening Level <sup>1</sup>	Screen Level Source	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte?
SW8270C	4-CHLOROPHENYL PHENYL ETHER	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	4-METHYLPHENOL	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	4-NITROANILINE	ug/L	--	NA	50	NA	25	NA	NO
SW8270C	4-NITROPHENOL	ug/L	1,600	HDOH WQS Acute	50	NO	25	NO	NO
SW8270C	ACENAPHTHYLENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	NO
SW8270C	ACENAPTHENE	ug/L	320	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	ANTHRACENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	BENZO(A)ANTHRACENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	BENZO(A)PYRENE	ug/L	300	Saltwater CMC LOEL, exclude M	10	NO	5	NO	YES
SW8270C	BENZO(B)FLUORANTHENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	BENZO(G,H,I)PERYLENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	BENZO(K)FLUORANTHENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	BENZOIC ACID	ug/L	--	NA	100	NA	50	NA	NO
SW8270C	BENZYL ALCOHOL	ug/L	--	NA	20	NA	10	NA	NO
SW8270C	BIS(2-CHLOROETHOXY)METHANE	ug/L	6,400	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	BIS(2-CHLOROETHYL)ETHER	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	360	Saltwater CCC proposed criterion	10	NO	5	NO	NO
SW8270C	BUTYL BENZYLPHthalate	ug/L	3.4	Saltwater CCC LOEL	10	YES	5	YES	NO
SW8270C	CHRYSENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	DIBENZ(A,H)ANTHRACENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	DIBENZOFURAN	ug/L	--	NA	10	NA	5	NA	NO
SW8270C	DIETHYL PHTHALATE	ug/L	3.4	Saltwater CCC LOEL	10	YES	5	YES	NO
SW8270C	DI-N-BUTYLPHthalate	ug/L	3.4	Saltwater CCC LOEL	10	YES	5	YES	NO
SW8270C	DI-N-OCTYLPHthalate	ug/L	3.4	Saltwater CCC LOEL	10	YES	5	YES	NO
SW8270C	FLUORANTHENE	ug/L	13	HDOH WQS Acute	10	NO	5	NO	YES
SW8270C	FLUORENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	HEXACHLOROENZENE	ug/L	129	Saltwater CCC LOEL	10	NO	5	NO	NO
SW8270C	HEXACHLOROBUTADIENE	ug/L	11	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	HEXACHLOROETHANE	ug/L	310	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	INDENO (1,2,3-CD) PYRENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8270C	ISOPHORONE	ug/L	4,300	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	NAPHTHALENE	ug/L	770	HDOH Tier 1	10	NO	5	NO	YES
SW8270C	NITROBENZENE	ug/L	2,200	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	N-NITROSODI-N-PROPYLAMINE	ug/L	3.30E+06	Saltwater CMC LOEL	10	NO	5	NO	NO
SW8270C	N-NITROSODIPHENYLAMINE	ug/L	3.30E+06	Saltwater CMC LOEL	10	NO	5	NO	NO

**TABLE I-2**

Comparison of AFCEE Reporting Limits to Risk-Screening Levels for Groundwater  
*Pier Dump Site RSE, Below AFS*

Method	Constituent	Units	Most Stringent Screening Level <sup>1</sup>	Screen Level Source	RL	Does RL Exceed Screening Level?	Estimated MDL	Does MDL Exceed Screening Level?	RSE Target Analyte?
SW8270C	PENTACHLOROPHENOL	ug/L	7.9	Saltwater CCC	50	YES	25	YES	NO
SW8270C	PHENANTHRENE	ug/L	4.6	Saltwater CCC proposed criterion	10	YES	5	YES	YES
SW8270C	PHENOL	ug/L	170	HDOH WQS Acute	10	NO	5	NO	NO
SW8270C	PYRENE	ug/L	300	Saltwater CMC LOEL	10	NO	5	NO	YES
SW8310	ACENAPHTHENE	ug/L	320	HDOH WQS Acute	1.0	NO	0.5	NO	YES
SW8310	ACENAPHTHYLENE	ug/L	300	Saltwater CMC LOEL	1.0	NO	0.5	NO	YES
SW8310	ANTHRACENE	ug/L	300	Saltwater CMC LOEL	1.0	NO	0.5	NO	YES
SW8310	BENZO(A)ANTHRACENE	ug/L	300	Saltwater CMC LOEL	0.10	NO	0.05	NO	YES
SW8310	BENZO(A)PYRENE	ug/L	300	Saltwater CMC LOEL, exclude M	0.20	NO	0.1	NO	YES
SW8310	BENZO(B)FLUORANTHENE	ug/L	300	Saltwater CMC LOEL	0.20	NO	0.1	NO	YES
SW8310	BENZO(G,H,I)PERYLENE	ug/L	300	Saltwater CMC LOEL	0.50	NO	0.25	NO	YES
SW8310	BENZO(K)FLUORANTHENE	ug/L	300	Saltwater CMC LOEL	0.20	NO	0.1	NO	YES
SW8310	CHRYSENE	ug/L	300	Saltwater CMC LOEL	0.50	NO	0.25	NO	YES
SW8310	DIBENZO(A,H)ANTHRACENE	ug/L	300	Saltwater CMC LOEL	0.20	NO	0.1	NO	YES
SW8310	FLUORANTHENE	ug/L	13	HDOH WQS Acute	1.0	NO	0.5	NO	YES
SW8310	FLUORENE	ug/L	300	Saltwater CMC LOEL	2.0	NO	1	NO	YES
SW8310	INDENO (1,2,3-CD) PYRENE	ug/L	300	Saltwater CMC LOEL	0.20	NO	0.1	NO	YES
SW8310	NAPHTHALENE	ug/L	770	HDOH Tier 1	1.0	NO	0.5	NO	YES
SW8310	PHENANTHRENE	ug/L	4.6	Saltwater CCC proposed criterion	1.0	NO	0.5	NO	YES
SW8310	PYRENE	ug/L	300	Saltwater CMC LOEL	1.0	NO	0.5	NO	YES
SW9010B/SW9010C	TOTAL CYANIDE	mg/L	--	NA	0.020	NA	0.01	NA	NO
SW9060	TOTAL ORGANIC CARBON	mg/L	--	NA	1.0	NA	0.5	NA	NO

**Notes:**

mg/L = milligrams per liter; ug/L = micrograms per liter    = MDL exceeds most stringent criteria      RL = reporting limit      MDL = method detection limit      NA - Not applicable,

<sup>1</sup> For surface water and groundwater, most stringent of:

Federal ambient water quality criteria (AWQC) (acute and chronic)  
 Federal no observed effects levels (NOELs) (acute and chronic)

HDOH Tier 1 action levels (for protection of marine life)  
 Hawaii Water Quality Standards (HAR Title 11, Chapter 54, April 2000)