

TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	CAS										
Metals											
Antimony	7440-36-0	EPA 6020	3.20E+01	na	na	na	3.20E+01		125	44	35.2%
Arsenic	7440-38-2	EPA 6020	2.40E+01	6.67E-01	2.00E+01	7.30E+00	7.30E+00		129	92	71.3%
Beryllium	7440-41-7	EPA 6020	1.60E+02	na	na	6.10E-01	1.60E+02		93	44	47.3%
Cadmium	7440-43-9	EPA 6020	8.00E+01	na	3.60E+01	7.70E+01	3.60E+01		130	47	36.2%
Chromium (III)	7440-47-3	EPA 6020	na	na	1.35E+02	4.80E+01	1.35E+02		130	130	100.0%
Chromium (VI)	18540-29-9	EPA 6020	2.40E+02	na	na	na	2.40E+02		5	0	0.0%
Copper	7440-50-8	EPA 6020	3.20E+03	na	5.50E+02	3.60E+01	5.50E+02		129	129	100.0%
Lead	7439-92-1	EPA 6020	na	na	2.20E+02	2.40E+01	2.20E+02		140	133	95.0%
Mercury, inorganic	7439-97-6	EPA 7471	na	na	7.00E-01	7.00E-02	7.00E-01		129	37	28.7%
Nickel	7440-02-0	EPA 6020	1.60E+03	na	1.85E+03	4.80E+01	1.60E+03		129	127	98.4%
Selenium	7782-49-2	EPA 6020	4.00E+02	na	8.00E-01	7.80E-01	8.00E-01		93	89	95.7%
Silver	7440-22-4	EPA 6020	4.00E+02	na	na	na	4.00E+02		125	33	26.4%
Thallium	7440-28-0	EPA 6020	8.00E-01	na	na	na	8.00E-01		125	3	2.4%
Zinc	7440-66-6	EPA 6020	2.40E+04	na	5.70E+02	8.50E+01	5.70E+02		129	128	99.2%
PCBs											
Aroclor 1016	na	EPA 8082	5.60E+00	1.43E+00	na	na	1.43E+00	X	132	12	9.1%
Aroclor 1221	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1232	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1242	na	EPA 8082	na	na	na	na	na	X	132	13	9.8%
Aroclor 1248	na	EPA 8082	na	na	na	na	na	X	132	0	0.0%
Aroclor 1254	na	EPA 8082	1.60E+00	5.00E-01	na	na	5.00E-01	X	132	29	22.0%
Aroclor 1260	na	EPA 8082	na	5.00E-01	na	na	5.00E-01	X	132	35	26.5%
Aroclor 1262	na	EPA 8082	na	na	na	na	na	X	96	0	0.0%
Aroclor 1268	na	EPA 8082	na	na	na	na	na	X	96	0	0.0%
Total PCBs	1336-36-3	EPA 8082	na	5.00E-01	2.00E+00	na	5.00E-01	X	132	58	43.9%
VOCs											
1,1,1,2-Tetrachloroethane	630-20-6	EPA 8260C	2.40E+03	3.85E+01	na	na	3.85E+01		87	0	0.0%
1,1,1-Trichloroethane	71-55-6	EPA 8260C	1.60E+05	na	na	na	1.60E+05		87	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	EPA 8260C	1.60E+03	5.00E+00	na	na	5.00E+00		87	1	1.1%
1,1,2-Trichloroethane	79-00-5	EPA 8260C	3.20E+02	1.75E+01	na	na	1.75E+01		87	0	0.0%
1,1-Dichloroethane	75-34-3	EPA 8260C	1.60E+04	1.75E+02	na	na	1.75E+02		87	0	0.0%
1,1-Dichloroethylene	75-35-4	EPA 8260C	4.00E+03	na	na	na	4.00E+03		87	0	0.0%
1,1-Dichloropropene	563-58-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
1,2,3-Trichlorobenzene	87-61-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
1,2,3-Trichloropropane	96-18-4	EPA 8260C	3.20E+02	3.33E-02	na	na	3.33E-02		87	0	0.0%
1,2,4-Trichlorobenzene	120-82-1	EPA 8260C	8.00E+02	3.45E+01	na	na	3.45E+01		87	1	1.1%
1,2,4-Trimethylbenzene	95-63-6	EPA 8260C	na	na	na	na	na		87	8	9.2%
1,2-Dibromo-3-chloropropane	96-12-8	EPA 8260C	1.60E+01	1.25E+00	na	na	1.25E+00		87	0	0.0%
1,2-Dichloroethane (EDC)	107-06-2	EPA 8260C	4.80E+02	1.10E+01	na	na	1.10E+01		87	0	0.0%
1,2-Dichloropropane	78-87-5	EPA 8260C	7.20E+03	2.78E+01	na	na	2.78E+01		87	0	0.0%
1,3,5-Trimethylbenzene	108-67-8	EPA 8260C	8.00E+02	na	na	na	8.00E+02		87	2	2.3%
1,3-Dichloropropane	142-28-9	EPA 8260C	na	na	na	na	na		87	0	0.0%
2,2-Dichloropropane	594-20-7	EPA 8260C	na	na	na	na	na		87	0	0.0%
2-Chlorotoluene	95-49-8	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
4-Chlorotoluene	106-43-4	EPA 8260C	na	na	na	na	na		87	0	0.0%
4-Isopropyltoluene	99-87-6	EPA 8260C	na	na	na	na	na		87	3	3.4%
Acetone	67-64-1	EPA 8260C	7.20E+04	na	na	na	7.20E+04		87	0	0.0%
Benzene	71-43-2	EPA 8260C	3.20E+02	1.82E+01	na	na	1.82E+01		88	3	3.4%
Bromobenzene	108-86-1	EPA 8260C	na	na	na	na	na		87	0	0.0%
Bromoform	75-25-2	EPA 8260C	1.60E+03	1.27E+02	na	na	1.27E+02		87	0	0.0%
Bromomethane	74-83-9	EPA 8260C	1.12E+02	na	na	na	1.12E+02		87	0	0.0%
Carbon disulfide	75-15-0	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	7	8.0%
Carbon tetrachloride	56-23-5	EPA 8260C	3.20E+02	1.43E+01	na	na	1.43E+01		87	0	0.0%

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Chemical	Highest Recorded Soil Concentration at DMC (mg/kg)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedances	Total % of Different Locations with CUL Exceedances	Exceedance Factor for Highest Concentrations	Preliminary Soil COPC List Based on SOIL CUL	Final Soil COPC List If number of locations > 5% and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, OR Exceedance Factor >10	Groundwater COPC List See Table 2.
Metals										
Antimony	3.70E+01	B13	1	0.80%	1	1.41%	1	Antimony		
Arsenic	1.40E+02	MW-2D	26	20.16%	20	28.17%	19	Arsenic	Arsenic	Arsenic
Beryllium	5.24E-01	MW14	0	0.00%	0	0.00%				
Cadmium	4.30E+01	B3-R	1	0.77%	1	1.41%	1	Cadmium		
Chromium (III)	2.70E+03	B4	9	6.92%	9	12.68%	20	Chromium (III)	Chromium (III)	
Chromium (VI)	---	---	0	0.00%	0	0.00%				
Copper	1.42E+04	GLB02	4	3.10%	4	5.63%	25	Copper	Copper	Copper
Lead	1.20E+04	B3-R	27	19.29%	23	32.39%	54	Lead	Lead	Lead
Mercury, inorganic	1.50E+00	B3-R	4	3.10%	4	5.63%	2	Mercury, inorganic		Mercury
Nickel	4.39E+02	GLB10	0	0.00%	0	0.00%				Nickel
Selenium	2.02E+00	MW14	84	90.32%	28	39.44%	2	Selenium		
Silver	7.50E+00	MW14	0	0.00%	0	0.00%				
Thallium	6.20E+00	B3-R	1	0.80%	1	1.41%	7	Thallium		
Zinc	3.10E+04	B3-R	12	9.30%	10	14.08%	54	Zinc	Zinc	Zinc
PCBs										
Aroclor 1016	8.89E+00	MW05	1	0.76%	1	1.41%	6	Aroclor 1016		
Aroclor 1221	---	---	0	0.00%	0	0.00%				
Aroclor 1232	---	---	0	0.00%	0	0.00%				
Aroclor 1242	3.40E+01	B7	0	0.00%	0	0.00%				
Aroclor 1248	---	---	0	0.00%	0	0.00%				
Aroclor 1254	6.95E+00	MW05	11	8.33%	11	15.49%	13	Aroclor 1254	Aroclor 1254	Aroclor 1254
Aroclor 1260	2.40E+00	B1	4	3.03%	4	5.63%	4	Aroclor 1260		
Aroclor 1262	---	---	0	0.00%	0	0.00%				
Aroclor 1268	---	---	0	0.00%	0	0.00%				
Total PCBs	3.40E+01	B7	19	14.39%	14	19.72%	68	Total PCBs	Total PCBs	Total PCBs
VOCs										
1,1,1,2-Tetrachloroethane	---	---	0	0.00%	0	0.00%				
1,1,1-Trichloroethane	---	---	0	0.00%	0	0.00%				
1,1,2,2-Tetrachloroethane	1.54E+00	GLB04	0	0.00%	0	0.00%				
1,1,2-Trichloroethane	---	---	0	0.00%	0	0.00%				
1,1-Dichloroethane	---	---	0	0.00%	0	0.00%				
1,1-Dichloroethylene	---	---	0	0.00%	0	0.00%				
1,1-Dichloropropene	---	---	0	0.00%	0	0.00%				
1,2,3-Trichlorobenzene	---	---	0	0.00%	0	0.00%				
1,2,3-Trichloropropane	---	---	0	0.00%	0	0.00%				
1,2,4-Trichlorobenzene	1.47E+00	GLB06	0	0.00%	0	0.00%				
1,2,4-Trimethylbenzene	1.00E+00	GLB04	0	0.00%	0	0.00%				
1,2-Dibromo-3-chloropropane	---	---	0	0.00%	0	0.00%				
1,2-Dichloroethane (EDC)	---	---	0	0.00%	0	0.00%				
1,2-Dichloropropane	---	---	0	0.00%	0	0.00%				
1,3,5-Trimethylbenzene	1.60E-01	GLB05	0	0.00%	0	0.00%				
1,3-Dichloropropane	---	---	0	0.00%	0	0.00%				
2,2-Dichloropropane	---	---	0	0.00%	0	0.00%				
2-Chlorotoluene	---	---	0	0.00%	0	0.00%				
4-Chlorotoluene	---	---	0	0.00%	0	0.00%				
4-Isopropyltoluene	2.85E-01	GLB04	0	0.00%	0	0.00%				
Acetone	---	---	0	0.00%	0	0.00%				
Benzene	6.27E-02	GLB06	0	0.00%	0	0.00%				
Bromobenzene	---	---	0	0.00%	0	0.00%				
Bromoform	---	---	0	0.00%	0	0.00%				
Bromomethane	---	---	0	0.00%	0	0.00%				
Carbon disulfide	6.34E-02	MW11	0	0.00%	0	0.00%				
Carbon tetrachloride	---	---	0	0.00%	0	0.00%				

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Seattle, Washington

Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	CAS										
VOCs											
Chlorobenzene	108-90-7	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
Chloroethane	75-00-3	EPA 8260C	na	na	na	na	na		87	0	0.0%
Chloroform	67-66-3	EPA 8260C	8.00E+02	3.23E+01	na	na	3.23E+01		87	0	0.0%
Chloromethane	74-87-3	EPA 8260C	na	na	na	na	na		87	0	0.0%
cis-1,2-Dichloroethylene	156-59-2	EPA 8260C	1.60E+02	na	na	na	1.60E+02		87	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	EPA 8260C	na	na	na	na	na		87	1	1.1%
Dibromochloromethane	124-48-1	EPA 8260C	1.60E+03	1.19E+01	na	na	1.19E+01		87	0	0.0%
Dibromomethane	74-95-3	EPA 8260C	8.00E+02	na	na	na	8.00E+02		87	0	0.0%
Dichlorobromomethane	75-27-4	EPA 8260C	1.60E+03	1.61E+01	na	na	1.61E+01		87	0	0.0%
Dichlorodifluoromethane (CFC-12)	75-71-8	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
Ethylbenzene	100-41-4	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	4	4.6%
Ethylene dibromide (EDB)	106-93-4	EPA 8260C	7.20E+02	5.00E-01	na	na	5.00E-01		87	0	0.0%
Isopropylbenzene (Cumene)	98-82-8	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	1	1.1%
m,p-Xylene	179601-23-1	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	8	9.2%
Methyl isobutyl ketone (MIBK)	108-10-1	EPA 8260C	6.40E+03	na	na	na	6.40E+03		87	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	EPA 8260C	na	5.56E+02	na	na	5.56E+02		87	0	0.0%
Methylene chloride	75-09-2	EPA 8260C	4.80E+02	5.00E+02	na	na	4.80E+02		87	7	8.0%
Naphthalene**	91-20-3	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	18	20.7%
n-Butylbenzene	104-51-8	EPA 8260C	4.00E+03	na	na	na	4.00E+03		87	4	4.6%
n-Propylbenzene	103-65-1	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	5	5.7%
o-Xylene	95-47-6	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	4	4.6%
Pentachloroethane	na		na	na	na	na	na		0	---	---
sec-Butylbenzene	135-98-8	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	4	4.6%
Styrene	100-42-5	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
tert-Butylbenzene	98-06-6	EPA 8260C	8.00E+03	na	na	na	8.00E+03		87	1	1.1%
Tetrachloroethylene (PCE)	127-18-4	EPA 8260C	4.80E+02	4.76E+02	na	na	4.76E+02		87	2	2.3%
Toluene	108-88-3	EPA 8260C	6.40E+03	na	na	na	6.40E+03		87	5	5.7%
Total xylenes	1330-20-7	EPA 8260C	1.60E+04	na	na	na	1.60E+04		87	0	0.0%
trans-1,2-Dichloroethylene	156-60-5	EPA 8260C	1.60E+03	na	na	na	1.60E+03		87	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	EPA 8260C	na	na	na	na	na		87	0	0.0%
Trichloroethylene (TCE)	79-01-6	EPA 8260C	4.00E+01	1.20E+01	na	na	1.20E+01		87	3	3.4%
Trichlorofluoroethane	27154-33-2		na	na	na	na	na		0	---	---
Vinyl acetate	108-05-4		8.00E+04	na	na	na	8.00E+04		0	---	---
Vinyl chloride	75-01-4	EPA 8260C	2.40E+02	na	na	na	2.40E+02		87	0	0.0%
SVOCs											
1,2-Dichlorobenzene	95-50-1	EPA 8270D	7.20E+03	na	na	na	7.20E+03		87	0	0.0%
1,3-Dichlorobenzene	541-73-1	EPA 8270D	na	na	na	na	na		87	1	1.1%
1,4-Dichlorobenzene	106-46-7	EPA 8270D	5.60E+03	1.85E+02	na	na	1.85E+02		87	2	2.3%
1,4-Dioxane	123-91-1		2.40E+03	1.00E+01	na	na	1.00E+01		0	---	---
2,4,5-Trichlorophenol	na		8.00E+03	na	na	na	8.00E+03		0	---	---
2,4,6-Trichlorophenol	na		8.00E+01	9.09E+01	na	na	8.00E+01		0	---	---
2,4-Dichlorophenol	120-83-2		2.40E+02	na	na	na	2.40E+02		0	---	---
2,4-Dimethylphenol	105-67-9		1.60E+03	na	na	na	1.60E+03		0	---	---
2,4-Dinitrophenol	51-28-5		1.60E+02	na	na	na	1.60E+02		0	---	---
2,4-Dinitrotoluene	121-14-2		1.60E+02	3.23E+00	na	na	3.23E+00		0	---	---
2,6-Dinitrotoluene	606-20-2		2.40E+01	6.67E-01	na	na	6.67E-01		0	---	---
2-Chloronaphthalene	91-58-7		6.40E+03	na	na	na	6.40E+03		0	---	---
2-Chlorophenol	95-57-8		4.00E+02	na	na	na	4.00E+02		0	---	---
2-Methylphenol (o-Cresol)	95-48-7		4.00E+03	na	na	na	4.00E+03		0	---	---
2-Nitroaniline	88-74-4		8.00E+02	na	na	na	8.00E+02		0	---	---
2-Nitrophenol	88-75-5		na	na	na	na	na		0	---	---
4,6-Dinitro-2-methylphenol	534-52-1		na	na	na	na	na		0	---	---
4-Bromophenyl phenyl ether	na		na	na	na	na	na		0	---	---
4-Chloro-3-methylphenol	59-50-7		na	na	na	na	na		0	---	---
4-Chloroaniline	106-47-8		3.20E+02	5.00E+00	na	na	5.00E+00		0	---	---
4-Chlorophenyl phenyl ether	7005-72-3		na	na	na	na	na		0	---	---
4-Methylphenol (p-Cresol)	106-44-5		8.00E+03	na	na	na	8.00E+03		0	---	---
4-Nitrophenol	100-02-7		na	na	na	na	na		0	---	---

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VOCs										
Chlorobenzene	---	---	0	0.00%	0	0.00%				
Chloroethane	---	---	0	0.00%	0	0.00%				
Chloroform	---	---	0	0.00%	0	0.00%				
Chloromethane	---	---	0	0.00%	0	0.00%				
cis-1,2-Dichloroethylene	---	---	0	0.00%	0	0.00%				
cis-1,3-Dichloropropene	6.65E-02	MW12	0	0.00%	0	0.00%				
Dibromochloromethane	---	---	0	0.00%	0	0.00%				
Dibromomethane	---	---	0	0.00%	0	0.00%				
Dichlorobromomethane	---	---	0	0.00%	0	0.00%				
Dichlorodifluoromethane (CFC-12)	---	---	0	0.00%	0	0.00%				
Ethylbenzene	4.14E-01	GLB05	0	0.00%	0	0.00%				
Ethylene dibromide (EDB)	---	---	0	0.00%	0	0.00%				
Isopropylbenzene (Cumene)	4.42E-01	GLB04	0	0.00%	0	0.00%				
m,p-Xylene	1.26E+00	MW05	0	0.00%	0	0.00%				
Methyl isobutyl ketone (MIBK)	---	---	0	0.00%	0	0.00%				
Methyl tert-butyl ether (MTBE)	---	---	0	0.00%	0	0.00%				
Methylene chloride	7.00E-02	MW14	0	0.00%	0	0.00%				
Naphthalene**	4.77E+00	GLB03	0	0.00%	0	0.00%				
n-Butylbenzene	7.18E-01	GLB04	0	0.00%	0	0.00%				
n-Propylbenzene	8.09E-01	GLB04	0	0.00%	0	0.00%				
o-Xylene	2.24E-01	GLB05	0	0.00%	0	0.00%				
Pentachloroethane	---	---	---	---	---	---				
sec-Butylbenzene	6.27E-01	GLB04	0	0.00%	0	0.00%				
Styrene	---	---	0	0.00%	0	0.00%				
tert-Butylbenzene	2.90E-02	GLB04	0	0.00%	0	0.00%				
Tetrachloroethylene (PCE)	7.89E-01	GLB13	0	0.00%	0	0.00%				
Toluene	8.59E-01	MW12	0	0.00%	0	0.00%				
Total xylenes	---	---	0	0.00%	0	0.00%				
trans-1,2-Dichloroethylene	---	---	0	0.00%	0	0.00%				
trans-1,3-Dichloropropene	---	---	0	0.00%	0	0.00%				
Trichloroethylene (TCE)	1.07E-01	MW12	0	0.00%	0	0.00%				
Trichlorofluoroethane	---	---	---	---	---	---				
Vinyl acetate	---	---	---	---	---	---				
Vinyl chloride	---	---	0	0.00%	0	0.00%				
SVOCs										
1,2-Dichlorobenzene	---	---	0	0.00%	0	0.00%				
1,3-Dichlorobenzene	2.37E-01	GLB06	0	0.00%	0	0.00%				
1,4-Dichlorobenzene	5.55E-01	GLB06	0	0.00%	0	0.00%				
1,4-Dioxane	---	---	---	---	---	---				
2,4,5-Trichlorophenol	---	---	---	---	---	---				
2,4,6-Trichlorophenol	---	---	---	---	---	---				
2,4-Dichlorophenol	---	---	---	---	---	---				
2,4-Dimethylphenol	---	---	---	---	---	---				
2,4-Dinitrophenol	---	---	---	---	---	---				
2,4-Dinitrotoluene	---	---	---	---	---	---				
2,6-Dinitrotoluene	---	---	---	---	---	---				
2-Chloronaphthalene	---	---	---	---	---	---				
2-Chlorophenol	---	---	---	---	---	---				
2-Methylphenol (o-Cresol)	---	---	---	---	---	---				
2-Nitroaniline	---	---	---	---	---	---				
2-Nitrophenol	---	---	---	---	---	---				
4,6-Dinitro-2-methylphenol	---	---	---	---	---	---				
4-Bromophenyl phenyl ether	---	---	---	---	---	---				
4-Chloro-3-methylphenol	---	---	---	---	---	---				
4-Chloroaniline	---	---	---	---	---	---				
4-Chlorophenyl phenyl ether	---	---	---	---	---	---				
4-Methylphenol (p-Cresol)	---	---	---	---	---	---				
4-Nitrophenol	---	---	---	---	---	---				

TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	CAS No.	Analytical Method	Method B Non-Cancer Soil Direct Contact (mg/kg)	Method B Cancer Soil Direct Contact (mg/kg)	TEE Soil CUL Industrial or Commercial Site (mg/kg)	Background Concentrations	Soil Cleanup Level Lowest ARAR (mg/kg), Adjusted for Background Concentration	MDL Used as Reporting Limit (1)	No. of Analyses	Number of Detections	Total % Detections
Chemical	CAS										
SVOCs											
Benzyl alcohol	100-51-6	EPA 8270D	8.00E+03	na	na	na	8.00E+03		46	0	0.0%
Bis(2-chloroethoxy)methane	111-91-1	EPA 8270D	na	na	na	na	na		46	0	0.0%
Bis(2-chloroethyl)ether	111-44-4		na	9.09E-01	na	na	9.09E-01		0	---	---
Bis(2-ethylhexyl) phthalate	117-81-7	EPA 8270D	1.60E+03	7.14E+01	na	na	7.14E+01		94	54	57.4%
bis(2-Ethylhexyl)adipate	na		na	na	na	na	na		0	---	---
Butyl benzyl phthalate	85-68-7	EPA 8270D	1.60E+04	5.26E+02	na	na	5.26E+02		94	15	16.0%
Carbazole	86-74-8	EPA 8270D	na	na	na	na	na		94	31	33.0%
Dibutyl phthalate	84-74-2	EPA 8270D	8.00E+03	na	na	na	8.00E+03		87	0	0.0%
Diethyl phthalate	84-66-2		6.40E+04	na	na	na	6.40E+04		0	---	---
Dimethyl phthalate	131-11-3	EPA 8270D	na	na	na	na	na		46	0	0.0%
Di-n-octyl phthalate	117-84-0		8.00E+02	na	na	na	8.00E+02		0	---	---
Hexachlorobenzene	118-74-1	EPA 8270D	6.40E+01	6.25E-01	3.10E+01	na	6.25E-01		46	1	2.2%
Hexachlorobutadiene	87-68-3	EPA 8270D	8.00E+01	1.28E+01	na	na	1.28E+01		87	0	0.0%
Hexachlorocyclopentadiene	77-47-4		4.80E+02	na	na	na	4.80E+02		0	---	---
Hexachloroethane	67-72-1		5.60E+01	2.50E+01	na	na	2.50E+01		0	---	---
Isophorone	78-59-1		1.60E+04	1.05E+03	na	na	1.05E+03		0	---	---
Nitrobenzene	98-95-3		1.60E+02	na	na	na	1.60E+02		0	---	---
n-Nitrosodi-n-propylamine	621-64-7		na	1.43E-01	na	na	1.43E-01		0	---	---
Pentachlorophenol	87-86-5	EPA 8270D	4.00E+02	2.50E+00	1.10E+01	na	2.50E+00		99	27	27.3%
Phenol	108-95-2	EPA 8270D	2.40E+04	na	na	na	2.40E+04		46	0	0.0%
PAHs											
1-Methylnaphthalene	90-12-0	EPA 8270D SIM	5.60E+03	3.45E+01	na	na	3.45E+01		100	21	21.0%
2-Methylnaphthalene	91-57-6	EPA 8270D SIM	3.20E+02	na	na	na	3.20E+02		101	26	25.7%
Acenaphthene	83-32-9	EPA 8270D SIM	4.80E+03	na	na	na	4.80E+03		101	28	27.7%
Acenaphthylene	208-96-8	EPA 8270D SIM	2.40E+04	na	na	na	2.40E+04		101	10	9.9%
Anthracene	120-12-7	EPA 8270D SIM	2.40E+04	na	na	na	2.40E+04		101	29	28.7%
Benzo(a)anthracene	56-55-3	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	37	36.6%
Benzo(a)pyrene	50-32-8	EPA 8270D SIM	na	1.37E-01	3.00E+02	na	1.37E-01		101	43	42.6%
Benzo(b)fluoranthene	205-99-2	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	42	41.6%
Benzo(g,h,i)perylene	191-24-2	EPA 8270D SIM	na	na	na	na	na		101	29	28.7%
Benzo(k)fluoranthene	207-08-9	EPA 8270D SIM	na	1.37E+01	na	na	1.37E+01		101	36	35.6%
Chrysene	218-01-9	EPA 8270D SIM	na	1.37E+02	na	na	1.37E+02		101	39	38.6%
Dibenz(a,h)anthracene	53-70-3	EPA 8270D SIM	na	1.37E-01	na	na	1.37E-01		101	16	15.8%
Dibenzofuran	132-64-9	EPA 8270D SIM	8.00E+01	na	na	na	8.00E+01		94	13	13.8%
Fluoranthene	206-44-0	EPA 8270D SIM	3.20E+03	na	na	na	3.20E+03		101	42	41.6%
Fluorene	86-73-7	EPA 8270D SIM	3.20E+03	na	na	na	3.20E+03		101	24	23.8%
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 8270D SIM	na	1.37E+00	na	na	1.37E+00		101	27	26.7%
Naphthalene**	91-20-3	EPA 8270D SIM	1.60E+03	na	na	na	1.60E+03		101	25	24.8%
Phenanthrene	85-01-8	EPA 8270D SIM	na	na	na	na	na		101	39	38.6%
Pyrene	129-00-0	EPA 8270D SIM	2.40E+03	na	na	na	2.40E+03		101	46	45.5%
cPAH TEQ (2)	1	EPA 8270D SIM	na	1.37E-01	3.00E+02	na	1.37E-01		101	101	100.0%
Tins											
Tributyltin	36643-28-4		na	na	na	na	na		0	---	---
TPH											
Gasoline range organics (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	1.20E+04	na	1.00E+02		96	17	17.7%
Diesel Range Organics (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	1.50E+04	na	1.00E+02		134	23	17.2%
Oil range organics (Lube Oil) (3)	J	NWTPH-Gx	1.00E+02	1.00E+02	na	na	1.00E+02		134	23	17.2%

Notes:

- (1) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.
- (2) Benzo(a)pyrene Cleanup Levels used for Comparison
- (3) MTCA Method A Cleanup Levels used for Comparison for Petroleum Hydrocarbons
- Yellow Highlight Indicates that Contaminant Was Not Included in Analysis
- Green Highlight Indicates that Analyte is Included in Total PCB and/or cPAH TEQ Calculation
- na Cleanup/Permit Level Not Available
- ** Naphthalene analyzed by methods 8270D SIM and 8260C
- TEE Terrestrial and Ecological Evaluation

TABLE 1-1

Soil Cleanup Levels and Contaminants of Potential Concern

Duwamish Marine Center
6365 First Avenue South
Seattle, Washington

Chemical	Highest Recorded Soil Concentration at DMC (mg/kg)	Location with Highest Concentration	Detections Above CUL	Total % of Samples with Detections Over CUL	Number of Different Locations with CUL Exceedances	Total % of Different Locations with CUL Exceedances	Exceedance Factor for Highest Concentrations	Preliminary Soil COPC List Based on SOIL CUL	Final Soil COPC List If number of locations > 5% and Exceedance Factor > 2 and Total % Detections Over CUL > 5%, OR Exceedance Factor >10	Groundwater COPC List See Table 2.
SVOCs										
Benzyl alcohol	---	---	0	0.00%	0	0.00%				
Bis(2-chloroethoxy)methane	---	---	0	0.00%	0	0.00%				
Bis(2-chloroethyl)ether	---	---	---	---	---	---				
Bis(2-ethylhexyl) phthalate	3.32E+01	MW05	0	0.00%	0	0.00%				Bis(2-ethylhexyl) phthalate
bis(2-Ethylhexyl)adipate	---	---	---	---	---	---				
Butyl benzyl phthalate	4.14E+01	MW05	0	0.00%	0	0.00%				
Carbazole	3.82E+00	GLB03	0	0.00%	0	0.00%				
Dibutyl phthalate	---	---	0	0.00%	0	0.00%				
Diethyl phthalate	---	---	---	---	---	---				
Dimethyl phthalate	---	---	0	0.00%	0	0.00%				
Di-n-octyl phthalate	---	---	---	---	---	---				
Hexachlorobenzene	2.77E-01	MW08	0	0.00%	0	0.00%				
Hexachlorobutadiene	---	---	0	0.00%	0	0.00%				
Hexachlorocyclopentadiene	---	---	---	---	---	---				
Hexachloroethane	---	---	---	---	---	---				
Isophorone	---	---	---	---	---	---				
Nitrobenzene	---	---	---	---	---	---				
n-Nitrosodi-n-propylamine	---	---	---	---	---	---				
Pentachlorophenol	2.35E+02	MW06	1	1.01%	1	1.41%	94	Pentachlorophenol	Pentachlorophenol	Pentachlorophenol
Phenol	---	---	0	0.00%	0	0.00%				
PAHs										
1-Methylnaphthalene	1.29E+01	GLB04	0	0.00%	0	0.00%				
2-Methylnaphthalene	1.75E+01	GLB04	0	0.00%	0	0.00%				
Acenaphthene	6.99E+00	GLB03	0	0.00%	0	0.00%				Acenaphthene
Acenaphthylene	4.12E-01	GLB03	0	0.00%	0	0.00%				
Anthracene	1.01E+01	GLB03	0	0.00%	0	0.00%				
Benzo(a)anthracene	2.44E+01	GLB03	6	5.94%	5	7.04%	17	Benzo(a)anthracene	Benzo(a)anthracene	Benzo(a)anthracene
Benzo(a)pyrene	2.06E+01	GLB03	22	21.78%	18	25.35%	150	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene
Benzo(b)fluoranthene	2.61E+01	GLB03	8	7.92%	7	9.86%	19	Benzo(b)fluoranthene	Benzo(b)fluoranthene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene	7.08E+00	GLB03	0	0.00%	0	0.00%				
Benzo(k)fluoranthene	1.47E+01	GLB03	1	0.99%	1	1.41%	1	Benzo(k)fluoranthene		Benzo(k)fluoranthene
Chrysene	2.21E+01	GLB03	0	0.00%	0	0.00%				Chrysene
Dibenz(a,h)anthracene	1.87E+00	GLB03	7	6.93%	7	9.86%	13	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene
Dibenzofuran	4.56E+00	MW16	0	0.00%	0	0.00%				
Fluoranthene	4.34E+01	GLB03	0	0.00%	0	0.00%				
Fluorene	6.80E+00	GLB03	0	0.00%	0	0.00%				Fluorene
Indeno(1,2,3-cd)pyrene	9.20E+00	GLB03	1	0.99%	1	1.41%	6	Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene
Naphthalene**	1.34E+01	MW16	0	0.00%	0	0.00%				
Phenanthrene	4.04E+01	GLB03	0	0.00%	0	0.00%				
Pyrene	4.46E+01	GLB03	0	0.00%	0	0.00%				
cPAH TEQ (2)	2.84E+01	GLB03	27	26.73%	20	28.17%	207	cPAH TEQ (2)	cPAH TEQ (2)	
Tins										
Tributyltin	---	---	---	---	---	---				
TPH										
Gasoline range organics (3)	3.65E+02	GLB04	2	2.08%	2	2.82%	3	Gasoline range organics (3)		
Diesel Range Organics (3)	5.10E+03	B3-R	2	1.49%	2	2.82%	51	Diesel Range Organics (3)		Diesel range organics (3)
Oil range organics (Lube Oil) (3)	2.10E+04	B3-R	9	6.72%	8	11.27%	210	Oil range organics (Lube Oil) (3)	Oil range organics (Lube Oil) (3)	Oil range organics (Lube Oil) (3)

Notes:

- (1) Laboratory Reported Results to the Method Detection Limit (MDL) for One or More Sampling Events. See Summary Tables for Reporting Limits.
- (2) Benzo(a)pyrene Cleanup Levels used for Comparison
- (3) MTC A Method A Cleanup Levels used for Comparison for Petroleum Hydrocarbons
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- na Cleanup/Permit Level Not Available
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