APPENDIX H
Remedial Investigation Data Tables

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-02	ST-03		ST-08	ST-11	ST-14		ST-20		ST-21	ST-24	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000038	13116000004	13116000006	13116000029	13116000010	13116000021	13116000023	13116000014	13116000015	13116000027	13116000100	
Sample Date		05/14/07	05/07/07	05/07/07	05/11/07	05/07/07	05/08/07	05/08/07	05/07/07	05/07/07	05/11/07	05/15/07	
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	7.3 - 10.5 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	**90**	**85**	**80**	**100**	**85**	**90**	**90**	**90**	**90**	**70**	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**6.11**	**46.9**	**9.21**	**24.1**	**18.9**	**44.0**	**14.4**	**30.8**	**25.1**	**17.1**	**1.45**	NE
Total Volatile Solids (TVS)	Percent	--	--	--	--	--	--	--	--	--	--	--	NE
Total Solids (TS)	Percent	**29.1**	**25.3**	**42.3**	**25.9**	**28.6**	**17.8**	**23.2**	**20.0**	**22.0**	**43.2**	**64.0**	NE
Total Ammonia	mg-N/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Clay	%	--	--	--	--	--	--	--	--	--	--	--	NE
Total Fines	%	--	--	--	--	--	--	--	--	--	--	--	NE
Metals													
Arsenic	mg/kg	--	--	--	--	--	--	--	--	--	--	7 U	57
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	0.3 U	5.1
Chromium	mg/kg	--	--	--	--	--	--	--	--	--	--	**32.7**	260
Copper	mg/kg	--	--	--	--	--	--	--	--	--	--	**23.1**	390
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	**9**	450
Mercury	mg/kg	--	--	--	--	--	--	--	--	--	--	**0.06 J**	0.41
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	0.4 U	6.1
Zinc	mg/kg	--	--	--	--	--	--	--	--	--	--	**56**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	210.9 J	5.0	413.5	22.3 J	795.2	7.9	24.3	6.3	10.9 J	17.2	**13.3**	370
2-Methylnaphthalene	mg/kg OC	18	0.3	32.6	1.3 J	68.8	0.5	2.3	0.4	0.8	1.2	1.4 U	38
Acenaphthene	mg/kg OC	39.3 J	0.3	58.6	1.2	116.4	0.3	2.4	0.5	1.04 J	2	**1.4**	16

Sample Location[1]		ST-02	ST-03		ST-08	ST-11	ST-14		ST-20		ST-21	ST-24	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000038	13116000004	13116000006	13116000029	13116000010	13116000021	13116000023	13116000014	13116000015	13116000027	13116000100	
Sample Date		05/14/07	05/07/07	05/07/07	05/11/07	05/07/07	05/08/07	05/08/07	05/07/07	05/07/07	05/11/07	05/15/07	
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	7.3 - 10.5 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	1.4	0.4	0.9	0.8	1.5	0.1	0.3	0.2	0.2	0.4	1.4 U	66
Anthracene	mg/kg OC	16.4	0.1	27.1	0.7	58.2	0.1	0.5	0.3	0.4	1.6	**2.3**	220
Fluorene	mg/kg OC	24.5	0.3	65.1	1.1	89.9	0.3	1.3	0.4	1.0	2.1	1.4 U	23
Naphthalene	mg/kg OC	57.3	3.0	44.5	14.1	227.5	6.1	15.3	3.6	5.6	5	**2.0**	99
Phenanthrene	mg/kg OC	54	0.7	184.6	3.2	232.8	0.6	2.2	1.0	1.8	5	**7.6**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**12,888 J**	2,349	**38,079**	**5,380 J**	**150,290**	3,496	3,494	1,955	**2,736 J**	2,947	193	5,200
2-Methylnaphthalene	µg/kg	**1,100**	150	**3,000**	**320 J**	**13,000**	200	330	130	210	210	20 U	670
Acenaphthene	µg/kg	**2,400 J**	130	**5,400**	280	**22,000**	150	350	150	**260 J**	340	20	500
Acenaphthylene	µg/kg	88	170	79	190	290	48	43	52	56	67	20 U	1,300
Anthracene	µg/kg	**1,000**	49	**2,500**	170	**11,000**	38	71	83	110	270	34	960
Fluorene	µg/kg	**1,500**	120	**6,000**	260	**17,000**	110	190	130	240	360	20 U	540
Naphthalene	µg/kg	**3,500**	1,400	**4,100**	3,400	**43,000**	2,700	2,200	1,100	1,400	850	29	2,100
Phenanthrene	µg/kg	**3,300**	330	**17,000**	**760 J**	**44,000**	250	310	310	460	850	110	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	143.9 J	1.4	158.3	5.9 J	477.2	1.4	4.6	2.8	4.7 J	26.2	**67.4 J**	960
Benzo(a)anthracene	mg/kg OC	14.2	0.05 U	8.4	0.2 J	45.5	0.03	0.4	0.3	0.5 J	2	**5.3**	110
Benzo(a)pyrene	mg/kg OC	9.2	0.05 U	2.8	0.1 U	20.6	0.03	0.3	0.2	0.5 J	2.2	**4.5**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	19.1	0.05 U	7.1	0.1 U	46.6	0.1	0.6	0.4	1	3.8	**9.7**	230
Benzo(g,h,i)perylene	mg/kg OC	2.5 J	0.05 U	1.5	0.1 U	7.4	0.02 U	0.1	0.1	0.2	1.3	**1.9**	31
Chrysene	mg/kg OC	18	0.05 U	8.7	0.2 J	45.5	0.1	0.5	0.4	0.8 J	3.3	**8.3**	110
Dibenzo(a,h)anthracene	mg/kg OC	1	0.05 U	0.5	0.1 U	2.1	0.02 U	0.04 U	0.03	0.1 J	0.2	1.4 U	12
Fluoranthene	mg/kg OC	49.1	1.2	82.5	3.9	190.5	0.8	1.5	0.7	0.9	7	**22.8 J**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	2.9	0.05 U	1.3	0.1 U	7.9	0.02 U	0.2	0.1	0.2	1.2	**1.9**	34
Pyrene	mg/kg OC	27.8	0.1	45.6	1.8	111.1	0.4	1	0.6	0.6 J	5.1	**13.1**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**8,792 J**	648	**14,583**	**1,445 J**	**90,190**	599	665	870.8	**1,191 J**	4,481	977 J	12,000
Benzo(a)anthracene	µg/kg	**870**	24 U	**770**	**37 J**	**8,600**	14	51	77	**120 J**	350	77	1,300
Benzo(a)pyrene	µg/kg	**560**	24 U	**260**	28 U	**3,900**	11	38	64	**120 J**	370	65	1,600
Benzofluoranthenes[6] (Total)	µg/kg	**1,170**	24 U	**650**	28 U	**8,800**	40	89	130	250	650	141	3,200
Benzo(g,h,i)perylene	µg/kg	**150 J**	24 U	**140**	28 U	**1,400**	9.6 U	21	33	59	230	27	670
Chrysene	µg/kg	**1,100**	24 U	**800**	**48 J**	**8,600**	34	74	120	**190 J**	560	120	1,400
Dibenzo(a,h)anthracene	µg/kg	**62**	24 U	**43**	28 U	**390**	9.6 U	6.2 U	9.8	**15 J**	41	20 U	230
Fluoranthene	µg/kg	**3,000**	**580**	**7,600**	**930**	**36,000**	330	220	210	230	**1,200**	330 J	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	**180**	24 U	**120**	28 U	**1,500**	9.6 U	22	37	57	200	27	600
Pyrene	µg/kg	**1,700**	**68**	**4,200**	**430**	**21,000**	170	150	190	**150 J**	880	190	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.1 U	0.05 U	0.07 U	0.12 U	**0.04 J**	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.1 U	0.05 U	0.07 U	0.12 U	0.03 U	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.1 U	0.05 U	0.07 U	0.12 U	0.03 U	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	3.1
Hexachlorobenzene	mg/kg OC	0.1 U	0.05 U	0.07 U	0.12 U	**0.07 J**	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	0.38

Sample Location[1]		ST-02	ST-03		ST-08	ST-11	ST-14		ST-20		ST-21	ST-24	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000038	13116000004	13116000006	13116000029	13116000010	13116000021	13116000023	13116000014	13116000015	13116000027	13116000100	
Sample Date		05/14/07	05/07/07	05/07/07	05/11/07	05/07/07	05/08/07	05/08/07	05/07/07	05/07/07	05/11/07	05/15/07	
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	7.3 - 10.5 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	6.1 U	24 U	6.2 U	28 U	**7.4 J**	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	6.1 U	24 U	6.2 U	28 U	6.1 U	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	6.1 U	24 U	6.2 U	28 U	6.1 U	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	110
Hexachlorobenzene	µg/kg	6.1 U	24 U	6.2 U	28 U	**14 J**	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	0.2 U	**0.08 J**	0.1 U	**0.2 J**	**0.2 J**	0.05 U	0.1 U	0.08 U	0.05 U	0.2 U	**3.03 J**	47
Butyl Benzyl Phthalate	mg/kg OC	0.1 U	**0.8**	0.07 U	**2.7**	**0.03**	**0.1 J**	0.04 U	**0.6**	**0.04 J**	**0.8**	1.4 U	4.9
Dibutyl Phthalate	mg/kg OC	0.1 U	**0.2**	**5.7 J**	**1.1 J**	**0.6 J**	0.1 U	0.06 U	0.02 U	0.2 U	**0.4 J**	1.4 U	220
Diethyl Phthalate	mg/kg OC	0.1 U	0.05 U	0.07 U	0.1 U	0.06 U	0.02 U	0.06 U	0.06 U	0.03 U	0.04 U	1.4 U	61
Dimethyl Phthalate	mg/kg OC	0.1 U	0.05 U	0.07 U	0.1 U	0.06 U	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	53
Di-N-Octyl Phthalate	mg/kg OC	**0.1097**	0.05 U	0.07 U	0.1 U	0.06 U	0.02 U	0.04 U	0.02 U	0.03 U	**0.04**	1.4 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	10 U	**36 J**	9.9 U	**37 J**	**37 J**	22 U	18 U	26 U	12 U	30 U	**44 J**	1,300
Butyl Benzyl Phthalate	µg/kg	6.1 U	**390**	6.2 U	**650**	**6.1**	**58 J**	6.2 U	**180**	**9.9 J**	**140**	20 U	63
Dibutyl Phthalate	µg/kg	6.1 U	**90 J**	**520 J**	**270 J**	**110 J**	45 U	8.6 U	7.3 U	48 U	**63 J**	20 U	1,400
Diethyl Phthalate	µg/kg	6.7 U	24 U	6.2 U	28 U	12 U	9.6 U	8.6 U	17 U	7.4 U	6.2 U	20 U	200
Dimethyl Phthalate	µg/kg	6.1 U	24 U	6.2 U	28 U	6.1 U	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	71
Di-N-Octyl Phthalate	µg/kg	**6.7**	24 U	6.2 U	28 U	6.1 U	9.6 U	6.2 U	6.1 U	6.2 U	**7.4**	20 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**170 J**	**34**	**42 J**	**110**	**800**	**250**	**240**	**95**	**87**	**48**	20 U	29
2-Methylphenol (o-Cresol)	µg/kg	**180**	**44**	**23**	**62**	**120**	**290**	**240**	**200**	**170**	**11**	20 U	63
4-Methylphenol (p-Cresol)	µg/kg	**470**	**2,600**	**300**	**3,700**	**480**	**2,600**	**830**	**1,100**	**1,200**	**550**	**24**	670
Pentachlorophenol	µg/kg	30 U	120 U	31 U	140 U	31 U	48 U	31 U	**330**	31 U	31 U	100 U	360
Phenol	µg/kg	15 U	**150 J**	31 U	**85 J**	**260 J**	**62 J**	**37 J**	**90 J**	**33 J**	**45 J**	20 U	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**18**	**0.4**	**52.1**	**0.99**	**68.8**	**0.93**	**1.7**	**0.97**	**0.99**	**1.4**	1.4 U	15
Hexachlorobutadiene	mg/kg OC	0.1 U	0.05 U	0.07 U	0.1 U	**0.05 J**	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	--	0.05 U	0.8 U	0.1 U	--	0.02 U	0.04 U	0.02 U	0.03 U	0.04 U	1.4 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**1,100**	**170**	**4,800**	**240**	**13,000**	**410**	**240**	**300**	**250**	**240**	20 U	540
Hexachlorobutadiene	µg/kg	6.1 U	24 U	6.2 U	28 U	**8.6 J**	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	--	24 U	71 U	28 U	--	9.6 U	6.2 U	6.1 U	6.2 U	6.2 U	20 U	28
Benzoic Acid	µg/kg	61 U	**600 J**	62 U	**530 J**	**680 J**	**110 J**	**69 J**	61 U	62 U	**64 J**	200 U	650
Benzyl Alcohol	µg/kg	30 U	120 U	**510 J**	140 U	**170 J**	**82 J**	31 U	**170 J**	**88 J**	**48 J**	20 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	--	--	--	--	--	--	--	--	1.10 U	12

Sample Location[1]		ST-02	ST-03		ST-08	ST-11	ST-14		ST-20		ST-21	ST-24	Proposed Sediment Cleanup Level[2]
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Sample Date		05/14/07	05/07/07	05/07/07	05/11/07	05/07/07	05/08/07	05/08/07	05/07/07	05/07/07	05/11/07	05/15/07	
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	7.3 - 10.5 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	--	--	--	--	--	--	--	--	16 U	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		ST-02	ST-03		ST-08	ST-11	ST-14		ST-20		ST-21	ST-24	Proposed Sediment Cleanup Level[2]
Sample Identification		**13116000038**	**13116000004**	**13116000006**	**13116000029**	**13116000010**	**13116000021**	**13116000023**	**13116000014**	**13116000015**	**13116000027**	**13116000100**	
Sample Date		**05/14/07**	**05/07/07**	**05/07/07**	**05/11/07**	**05/07/07**	**05/08/07**	**05/08/07**	**05/07/07**	**05/07/07**	**05/11/07**	**05/15/07**	
Sample Interval (dbm)		**5 - 6 ft**	**3.5 - 6.2 ft**	**14 - 15.9 ft**	**7.3 - 10.5 ft**	**0 - 6.2 ft**	**3.4 - 4.6 ft**	**9.4 - 10.5 ft**	**9.9 - 11.2 ft**	**14 - 15.5 ft**	**9.1 - 11.2 ft**	**0-10 cm**	
Sample Type		**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Subsurface**	**Surface**	
Stratigraphic Unit		**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	
Tidal Zone		**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-24	ST-29	ST-30	ST-32	ST-34		ST-37	ST-39		ST-42	ST-43	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106	13116000107	13116000033	13116000108	13116000031	
Sample Date		05/15/07	05/15/07	05/15/07	05/15/07	05/15/07	05/09/07	05/15/07	05/15/07	05/14/07	05/15/07	05/11/07	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	
Sample Type		Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	**35**	**95**	**35**	**15**	**15**	**15**	**10**	**5**	<1	**100**	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**1.14**	**1.26**	**2.14**	**1.74**	**2.05**	**3.93**	**3.27**	**1.69**	**5.47**	**0.800**	**15.9**	NE
Total Volatile Solids (TVS)	Percent	--	--	--	--	--	--	--	--	--	--	--	NE
Total Solids (TS)	Percent	**62.6**	**53.2**	**44.6**	**45.6**	**47.1**	**43.5**	**49.8**	**53.1**	**41.5**	**71.6**	**25.9**	NE
Total Ammonia	mg-N/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Clay	%	--	--	--	--	--	--	--	--	--	--	--	NE
Total Fines	%	--	--	--	--	--	--	--	--	--	--	--	NE
Metals													
Arsenic	mg/kg	7 U	9 U	**10**	**10**	**10**	**40 J**	10 U	9 U	**10**	6 U	--	57
Cadmium	mg/kg	0.3 U	**0.7**	**0.7**	**0.8**	**0.8**	**1.5**	**0.6**	**0.6**	**2.1**	0.2 U	--	5.1
Chromium	mg/kg	**33.3**	**42.2**	**51**	**44**	**39**	**49**	**29**	**34.2**	**60**	**22.8**	--	260
Copper	mg/kg	**22.1**	**44.3**	**47.3**	**46.8**	**41.3**	**104**	**30.3**	**28.2**	**84.3**	**12.4**	--	390
Lead	mg/kg	**9**	**21**	**16**	**17**	**19**	**55**	**13**	**13**	**55**	**3**	--	450
Mercury	mg/kg	0.05 U	**0.09 J**	**0.1 J**	**0.15 J**	**0.14 J**	--	**0.08 J**	**0.11 J**	--	0.05 U	--	0.41
Silver	mg/kg	0.4 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.8 U	0.4 U	--	6.1
Zinc	mg/kg	**50**	**163**	**94**	**98**	**106**	**341 J**	**76**	**67**	**127**	**34**	--	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**9.1**	**56.9**	**11.2**	**28.3**	**35.5**	102.1 J	**20.1**	**24.9**	35	**8.4**	3710.1	370
2-Methylnaphthalene	mg/kg OC	1.8 U	**2.8**	0.9 U	**1.3**	**2.1**	7.4	**1.1**	**1.4**	2.9	2.5 U	54.7	38
Acenaphthene	mg/kg OC	1.8 U	**5.8**	**1.2**	**3.3**	**4.9**	14.5 J	**2.3**	**2.6**	3.3	2.5 U	94.3	16

Sample Location[1]		ST-24	ST-29	ST-30	ST-32	ST-34		ST-37	ST-39		ST-42	ST-43	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106	13116000107	13116000033	13116000108	13116000031	
Sample Date		05/15/07	05/15/07	05/15/07	05/15/07	05/15/07	05/09/07	05/15/07	05/15/07	05/14/07	05/15/07	05/11/07	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	
Sample Type		Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	1.8 U	**2.2**	0.9 U	**1.1**	**1**	0.9	**0.8**	1.2 U	0.8	2.5 U	1.3	66
Anthracene	mg/kg OC	**2.5**	**9.5**	**2**	**4.5**	**4.1**	7.4	**3.1**	**4.4**	3.8	2.5 U	2578.6	220
Fluorene	mg/kg OC	1.8 U	**5.8**	**1.1**	**2.8**	**4.0**	12.7	**1.9**	**2.6**	4.4	2.5 U	327	23
Naphthalene	mg/kg OC	1.8 U	**6.2**	**1.7**	**3.3**	**4.9**	16	**3.1**	**5**	10.4	**3.4**	88.1	99
Phenanthrene	mg/kg OC	**6.7**	**24.6**	**5.1**	**12.1**	**14.6**	43.3	**8**	**8.9**	9.3	**5**	566	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	104	717	240	493	728	**4,014 J**	657	420	**1,914**	67	**589,910**	5,200
2-Methylnaphthalene	µg/kg	20 U	35	20 U	22	43	**290**	36	23	**160**	20 U	**8,700**	670
Acenaphthene	µg/kg	20 U	73	26	57	100	**570 J**	74	44	**180**	20 U	**15,000**	500
Acenaphthylene	µg/kg	20 U	28	20 U	20	20	**34**	26	20 U	**44**	20 U	**210**	1,300
Anthracene	µg/kg	28	120	43	78	84	**290**	100	75	**210**	20 U	**410,000**	960
Fluorene	µg/kg	20 U	73	24	48	81	**500**	61	44	**240**	20 U	**52,000**	540
Naphthalene	µg/kg	20 U	78	37	58	100	**630**	100	84	**570**	27	**14,000**	2,100
Phenanthrene	µg/kg	76	310	110	210	300	**1,700**	260	150	**510**	40	**90,000**	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**50.7 J**	**217.4 J**	**53.9 J**	**108.8 J**	**118.3 J**	163.5 J	**69.5 J**	**91.8 J**	44.5	**38.3 J**	928.4	960
Benzo(a)anthracene	mg/kg OC	**4.1 J**	**17.5 J**	**4.4**	**9.8 J**	**9.3 J**	12.5	**5.5 J**	**8.3 J**	3.3	**3.8 J**	69.2	110
Benzo(a)pyrene	mg/kg OC	**3.8**	**13.5 J**	**3.6**	**8**	**7.8**	11.2	**4.9**	**7.1**	2.7	**2.8**	11.9	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**8.8**	**32.5**	**9.3**	**20.1**	**19.0**	24.7	**12.5**	**16.6**	7.9	**7.8**	29.6	230
Benzo(g,h,i)perylene	mg/kg OC	1.8 U	**7.2**	**1.1**	**4.8**	**4.4**	3.3 J	**2.8**	**4.2**	0.6	2.5 U	2.3	31
Chrysene	mg/kg OC	**7.7**	**28.6 J**	**7.5 J**	**16.1 J**	**16.1 J**	18.8	**10.4 J**	**14.2 J**	5.9	**5.4 J**	106.9	110
Dibenzo(a,h)anthracene	mg/kg OC	1.8 U	1.6 U	0.9 U	1.1 U	1 U	0.7	0.6 U	1.2 U	0.3 U	2.5 U	1.1	12
Fluoranthene	mg/kg OC	**14.9 J**	**66.7**	**15**	**29.3**	**39.5**	61.1	**21.1**	**26**	15.4	**13.8**	478	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	1.8 U	**6.2**	**1.4**	**4.5**	**3.6**	3.3	**2.5**	**1.8**	0.6	2.5 U	3.0	34
Pyrene	mg/kg OC	**11.4**	**45.2**	**11.7 J**	**16.1 J**	**18.5 J**	28 J	**9.8 J**	**13.6**	8.2	**8.8**	226.4	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	578 J	2,739 J	1,154 J	1,893	2,425 J	**6,427 J**	2,272	1,551 J	**2,432**	306 J	**147,610**	12,000
Benzo(a)anthracene	µg/kg	47 J	220 J	95	170 J	190 J	**490**	180 J	140 J	**180**	30 J	**11,000**	1,300
Benzo(a)pyrene	µg/kg	43	170 J	77	140	160	**440**	160	120	**150**	22	**1,900**	1,600
Benzofluoranthenes[6] (Total)	µg/kg	100	410	198	350	390	**970**	410	280	**430**	62	**4,700**	3,200
Benzo(g,h,i)perylene	µg/kg	20 U	91	23	84	91	**130 J**	91	71	**31**	20 U	**360**	670
Chrysene	µg/kg	88	360 J	160 J	280 J	330 J	**740**	340 J	240 J	**320**	43 J	**17,000**	1,400
Dibenzo(a,h)anthracene	µg/kg	20 U	20 U	20 U	20 U	20 U	**27**	20 U	20 U	20 U	20 U	**170**	230
Fluoranthene	µg/kg	170 J	840	320	510	810	**2,400**	690	440	**840**	110	**76,000**	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	20 U	78	31	79	74	**130**	81	30	**31**	20 U	**480**	600
Pyrene	µg/kg	130	570	250 J	280 J	380 J	**1,100 J**	320 J	230	**450**	70	**36,000**	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.04 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	**0.6**	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	**0.1**	3.1
Hexachlorobenzene	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.04 U	0.38

Sample Location[1]		ST-24	ST-29	ST-30	ST-32	ST-34		ST-37	ST-39		ST-42	ST-43	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106	13116000107	13116000033	13116000108	13116000031	
Sample Date		05/15/07	05/15/07	05/15/07	05/15/07	05/15/07	05/09/07	05/15/07	05/15/07	05/14/07	05/15/07	05/11/07	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	
Sample Type		Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.2 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**96**	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**20**	110
Hexachlorobenzene	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.2 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	1.8 U	**3.8 J**	**1.4 J**	**2.1 J**	**1.9 J**	3.3	**1 J**	**2 J**	1.6	2.5 U	0.7 J	47
Butyl Benzyl Phthalate	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	1.8	4.9
Dibutyl Phthalate	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	1.7 NJ	0.6 U	1.2 U	0.9 NJ	2.5 U	1.3 J	220
Diethyl Phthalate	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.06 U	61
Dimethyl Phthalate	mg/kg OC	**5.7 J**	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.04 U	53
Di-N-Octyl Phthalate	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	1 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.04 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	20 U	48 J	30 J	36 J	38 J	**130**	33 J	34 J	**88**	20 U	**110 J**	1,300
Butyl Benzyl Phthalate	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**290**	63
Dibutyl Phthalate	µg/kg	20 U	20 U	20 U	20 U	20 U	**68 NJ**	20 U	20 U	**47 NJ**	20 U	**210 J**	1,400
Diethyl Phthalate	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	9.9 U	200
Dimethyl Phthalate	µg/kg	65 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.2 U	71
Di-N-Octyl Phthalate	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.2 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**20**	20 U	**410**	29
2-Methylphenol (o-Cresol)	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**120**	63
4-Methylphenol (p-Cresol)	µg/kg	20 U	**41**	20 U	**26**	**42**	**540**	**91**	**46**	**530**	20 U	**920**	670
Pentachlorophenol	µg/kg	100 U	100 U	100 U	100 U	100 U	99 U	99 U	100 U	100 U	99 U	31 U	360
Phenol	µg/kg	20 U	**22**	20 U	20 U	**23**	20 U	**25**	20 U	**25**	20 U	**37 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	1.8 U	**4.9**	**1.2**	**2.7**	**3.95**	11.7	**1.9**	**2.2**	3.3	2.5 U	106.9	15
Hexachlorobutadiene	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	0.98 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	0.4 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	1.8 U	1.6 U	0.9 U	1.2 U	0.98 U	0.5 U	0.6 U	1.2 U	0.4 U	2.5 U	6.3 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	20 U	62	25	47	81	**460**	62	37	**180**	20 U	**17,000**	540
Hexachlorobutadiene	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	6.2 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	1,000 U	28
Benzoic Acid	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**86 J**	650
Benzyl Alcohol	µg/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**35 J**	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**1.05**	**4.52**	1.54 U	0.98 U	**3.27**	132.3	**1.90**	0.95 U	2.4	2 U	--	12

Sample Location[1]		ST-24	ST-29	ST-30	ST-32	ST-34		ST-37	ST-39		ST-42	ST-43	Proposed Sediment Cleanup Level[2]
Sample Identification		13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106	13116000107	13116000033	13116000108	13116000031	
Sample Date		05/15/07	05/15/07	05/15/07	05/15/07	05/15/07	05/09/07	05/15/07	05/15/07	05/14/07	05/15/07	05/11/07	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	
Sample Type		Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	12	57	33 U	17 U	67	5,200	62	16 U	131	16 U	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		ST-24	ST-29	ST-30	ST-32	ST-34		ST-37	ST-39		ST-42	ST-43	Proposed Sediment Cleanup Level[2]
Sample Identification		**13116000101**	**13116000103**	**13116000102**	**13116000104**	**13116000105**	**13116000025**	**13116000106**	**13116000107**	**13116000033**	**13116000108**	**13116000031**	
Sample Date		**05/15/07**	**05/15/07**	**05/15/07**	**05/15/07**	**05/15/07**	**05/09/07**	**05/15/07**	**05/15/07**	**05/14/07**	**05/15/07**	**05/11/07**	
Sample Interval (dbm)		**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0 - 2.8 ft**	**0-10 cm**	**0-10 cm**	**0 - 4 ft**	**0-10 cm**	**5.7 - 7.2 ft**	
Sample Type		**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Subsurface**	**Surface**	**Surface**	**Subsurface**	**Surface**	**Subsurface**	
Stratigraphic Unit		**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	
Tidal Zone		**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		SP-151		A1-15			A1-18			A1-23	A1-24		Proposed Sediment Cleanup Level[2]
Sample Identification		7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3	A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	
Sample Date		06/12/2007	06/12/2007	08/01/08	08/13/08	08/13/08	09/04/08	08/14/08	08/14/08	08/04/08	09/04/08	09/04/08	
Sample Interval (dbm)		0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Surface	Surface	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	Trace	<1	<1	50	<1	<1	25	35	30	15
Conventionals													
Total Organic Carbon (TOC)	Percent	1.38	3.31	1.51	0.320	0.170	1.82	1.12	0.830	1.42	1.28	2.47	NE
Total Volatile Solids (TVS)	Percent	--	--	3.8	1.8	1.8	5.2	3.8	2.8	6.4	13.1	18.2	NE
Total Solids (TS)	Percent	--	--	69.5	76.2	73.1	64.8	66.9	73.2	57.4	48.2	43.2	NE
Total Ammonia	mg-N/kg	--	--	4.35	--	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	--	--	13.3 J	23.5 J	12.8 J	11.7 J	98.8 J	187 J	73 J	377 J	799 J	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	21.4	23.7	13.4	2.5	0.2	3.1	0.1	2.9	2.7	3.4	10	NE
Very Coarse Sand	%	8	9	6.7	2.2	0.3	2.6	0.5	4.1	2.7	2.1	4	NE
Coarse Sand	%	16.1	16.2	12	5	1	8.5	2.2	10.6	5.5	3.8	5.5	NE
Medium Sand	%	21.5	21.4	14.9	6.5	2.1	20.9	9.3	16.5	7.4	6.4	7.9	NE
Fine Sand	%	5.8	5.7	5.4	3.7	3.3	10.4	5.3	6.6	8	13.3	5.7	NE
Very Fine Sand	%	9.2	9.3	12.7	30.8	20.9	21.7	21.4	14.1	22.6	23.6	10.1	NE
Coarse Silt	%	14.5	11.5	12.9	33	38	11.6	18.8	18.6	19.8	15.4	10.9	NE
Medium Silt	%			7.2	7.4	11.3	5.9	15.5	10.4	8.3	7.8	11.4	NE
Fine Silt	%			4.2	2.7	5.1	3.9	8.2	5.1	5.6	5.4	9.4	NE
Very Fine Silt	%			2.7	1.4	1.5	3.3	5.4	3.2	4.6	5.9	6.4	NE
Clay	%	3.6	3.2	7.8	5.1	6.2	8.3	13.4	8	12.7	12.9	18.6	NE
Total Fines	%	18.1	14.7	34.9	49.5	62.1	32.9	61.2	45.3	51.1	47.4	56.8	NE
Metals													
Arsenic	mg/kg	5.95	6.02	7 U	6 U	7 U	8 U	11	9	9 U	50	10	57
Cadmium	mg/kg	0.34	0.3	0.4	0.2 U	0.3 U	0.6	0.5	0.3	0.8	1.5	2	5.1
Chromium	mg/kg	26.8	28.3	33.6	26.6	50.8	31	41.7	36.7	43	46	53	260
Copper	mg/kg	26.6	19.6	28.8	15.6	17.9	28.9	47	36.1	38.2	137	81.3	390
Lead	mg/kg	9.99	8.95	10	2 U	3 U	11	11	8	15	47	55	450
Mercury	mg/kg	0.05	0.079	0.1	0.06 U	0.06 U	0.09	0.12	0.09	0.08	0.1	0.3	0.41
Silver	mg/kg	0.1 U	0.1 U	0.4 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.7 U	0.7 U	6.1
Zinc	mg/kg	62.6	52.5	53 J	35	40	56 J	67	57	76 J	415 J	122	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	108	32.9 J	21.3 J	5.9 U	11.8 U	15.4 J	36.3 J	15.7 J	20.8 J	68.3	44.1	370
2-Methylnaphthalene	mg/kg OC	8.6	2	1.3 J	5.9 U	11.8 U	0.98 J	4.8	1.2	1.3 J	4.8	4.5	38
Acenaphthene	mg/kg OC	6	2.2	1.5	5.9 U	11.8 U	0.98 J	1.5 J	2.3 U	1.6	9.4	4.9	16

Sample Location[1]		SP-151		A1-15			A1-18			A1-23	A1-24		Proposed Sediment Cleanup Level[2]
Sample Identification		7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3	A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	
Sample Date		06/12/2007	06/12/2007	08/01/08	08/13/08	08/13/08	09/04/08	08/14/08	08/14/08	08/04/08	09/04/08	09/04/08	
Sample Interval (dbm)		0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Surface	Surface	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	**5.7**	**2**	**1.4**	5.9 U	11.8 U	**0.9 J**	**2**	**1.9 J**	**1.0 J**	**2.2**	**0.8**	66
Anthracene	mg/kg OC	**8.6**	**3.1**	**2.8**	5.9 U	11.8 U	**1.7**	**2**	**1.9 J**	**2.5**	**8.6**	**4.9**	220
Fluorene	mg/kg OC	**6.6**	**2.6**	**1.9**	5.9 U	11.8 U	**1.3**	**1.8**	2.3 U	**1.9**	**7.3**	**6.1**	23
Naphthalene	mg/kg OC	**62**	**14.2 J**	**5.3**	5.9 U	11.8 U	**4.8**	**17.9**	**4.6**	**5.9**	**10.9**	**10.9**	99
Phenanthrene	mg/kg OC	**19.3**	**8.9**	**7.3**	5.9 U	11.8 U	**4.7**	**6.3**	**6**	**6.6**	**25**	**12.1**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	1,491	1,090 J	322 J	19 U	20 U	281 J	406 J	129.9 J	295 J	874	1,090	5,200
2-Methylnaphthalene	µg/kg	118	66	19 J	19 U	20 U	18 J	54	9.9 J	18 J	62	110	670
Acenaphthene	µg/kg	80	73	22	19 U	20 U	18 J	17 J	19 U	23	120	120	500
Acenaphthylene	µg/kg	79	67	21	19 U	20 U	17 J	22	16 J	14 J	28	20	1,300
Anthracene	µg/kg	119	103	42	19 U	20 U	31	22	16 J	35	110	120	960
Fluorene	µg/kg	91	85	28	19 U	20 U	24	20	19 U	27	94	150	540
Naphthalene	µg/kg	855	469 J	80	19 U	20 U	88	200	38	84	140	270	2,100
Phenanthrene	µg/kg	267	293	110	19 U	20 U	85	71	50	94	320	300	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**85**	**44.3**	**46**	12.8 J	11.8 U	**27.5 J**	**36.6**	**39.0 J**	**49.6 J**	**172**	**39.6 J**	960
Benzo(a)anthracene	mg/kg OC	**5.6**	**2.6**	**3.5**	5.9 U	11.8 U	**2.1**	**3.1**	**3.1**	**4.9**	**16.4**	**3.1**	110
Benzo(a)pyrene	mg/kg OC	**4.9**	**3**	**3.5**	5.9 U	11.8 U	**1.5**	**3.7**	**4**	**4.2**	**14.1**	**3.6**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**6.1**	**3.2**	**7.7**	5.9 U	11.8 U	**4**	**6.6**	**6.4**	**9.4**	**31.3**	**8.5**	230
Benzo(g,h,i)perylene	mg/kg OC	**3.2**	**2.4**	**1.8**	5.9 U	11.8 U	**1.5**	3.4 U	3.1 U	**2.7**	**7.4**	1.3 U	31
Chrysene	mg/kg OC	**8.2**	**6.7**	**4.8**	5.9 U	11.8 U	**2.9**	**3.8**	**4.5**	**7.7**	**24.2**	**6.5**	110
Dibenzo(a,h)anthracene	mg/kg OC	**0.7**	**0.5**	1.3 U	5.9 U	11.8 U	**0.7 J**	1.8 U	2.3 U	**0.9 J**	**3.4**	**0.4 J**	12
Fluoranthene	mg/kg OC	**25.1**	**11.1**	**11.3**	3.4 J	11.8 U	**7.1**	**7.5**	**8.7**	**9.2**	**35.2**	**10.9**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	**3.2**	**2.5**	**1.5**	5.9 U	11.8 U	**1.2**	**3**	**2.3 J**	**2.3**	**7.2**	**1.3**	34
Pyrene	mg/kg OC	**25.6**	**11**	**11.9**	9.4	11.8 U	**6.6**	**8.9**	**10.1**	**8.5**	**32.8**	**5.3**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	1,173	1,467	695	**41 J**	20 U	500 J	410	324 J	704 J	2,201	977 J	12,000
Benzo(a)anthracene	µg/kg	77	85	53	19 U	20 U	39	35	26	69	210	77	1,300
Benzo(a)pyrene	µg/kg	67	99	53	19 U	20 U	27	41	33	59	180	88	1,600
Benzofluoranthenes[6] (Total)	µg/kg	84	106	117	19 U	20 U	72	74	53	133	400	210	3,200
Benzo(g,h,i)perylene	µg/kg	44	78	27	19 U	20 U	27	38 U	26 U	38	95	32 U	670
Chrysene	µg/kg	113	223	72	19 U	20 U	52	42	37	110	310	160	1,400
Dibenzo(a,h)anthracene	µg/kg	9.6	16	20 U	19 U	20 U	12 J	20 U	19 U	12 J	44	10 J	230
Fluoranthene	µg/kg	347	368	170	**11 J**	20 U	130	84	72	130	450	270	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	44	82	23	19 U	20 U	21	34	19 J	33	92	32	600
Pyrene	µg/kg	353	365	180	**30**	20 U	120	100	84	120	420	130	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.6 U	0.3 U	1.3 U	5.9 U	11.8 U	1.04 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.6 U	0.3 U	1.3 U	5.9 U	11.8 U	1.04 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.6 U	0.3 U	1.3 U	5.9 U	11.8 U	1.04 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	3.1
Hexachlorobenzene	mg/kg OC	0.035 U	0.015 U	1.3 U	5.9 U	11.8 U	1.04 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	0.38

Sample Location[1]		SP-151		A1-15			A1-18			A1-23	A1-24		Proposed Sediment Cleanup Level[2]
Sample Identification		7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3	A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	
Sample Date		06/12/2007	06/12/2007	08/01/08	08/13/08	08/13/08	09/04/08	08/14/08	08/14/08	08/04/08	09/04/08	09/04/08	
Sample Interval (dbm)		0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Surface	Surface	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	8.5 U	8.6 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	8.5 U	8.6 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	8.5 U	8.6 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	110
Hexachlorobenzene	µg/kg	0.48 U	0.5 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	1.3 U	0.69 U	**0.7 J**	5.9 U	11.8 U	**0.8 J**	**0.98 J**	2.3 U	**2.2**	**15.6 J**	**0.89**	47
Butyl Benzyl Phthalate	mg/kg OC	1.3 U	0.51 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	4.9
Dibutyl Phthalate	mg/kg OC	2.6 U	1.0 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	**1.7**	220
Diethyl Phthalate	mg/kg OC	1.3 U	1.0 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	61
Dimethyl Phthalate	mg/kg OC	1.3 U	0.51 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	53
Di-N-Octyl Phthalate	mg/kg OC	1.3 U	0.51 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	17 U	23 U	**11 J**	19 U	20 U	**14 J**	**11 J**	19 U	**31**	**200 J**	**22**	1,300
Butyl Benzyl Phthalate	µg/kg	17 U	17 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	63
Dibutyl Phthalate	µg/kg	34 U	34 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	**41**	1,400
Diethyl Phthalate	µg/kg	17 U	34 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	200
Dimethyl Phthalate	µg/kg	17 U	17 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	71
Di-N-Octyl Phthalate	µg/kg	17 U	17 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**34 J**	17 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	**23**	29
2-Methylphenol (o-Cresol)	µg/kg	8.5 U	8.6 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	**20**	63
4-Methylphenol (p-Cresol)	µg/kg	**133**	**115**	**68**	19 U	20 U	**50**	**31**	19 U	**45**	**87**	**870**	670
Pentachlorophenol	µg/kg	34 U	34 U	98 U	97 U	98 U	96 U	99 U	97 U	98 U	97 U	97 U	360
Phenol	µg/kg	76 U	65 U	**40**	19 U	20 U	**57**	**15 J**	19 U	**19 J**	**48**	**21**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**10.3**	**4.02**	**1.6**	5.9 U	11.8 U	**1.1**	**1.2 J**	2.3 U	**1.8**	**7.5**	**4.5**	15
Hexachlorobutadiene	mg/kg OC	0.65 U	0.26 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	1.3 U	0.51 U	1.3 U	5.9 U	11.8 U	1 U	1.8 U	2.3 U	1.4 U	1.6 U	0.8 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**142 J**	**133 J**	**24**	19 U	20 U	**20**	**13 J**	19 U	**26**	**96**	**110**	540
Hexachlorobutadiene	µg/kg	8.5 U	8.6 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	17 U	17 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	28
Benzoic Acid	µg/kg	262 U	**671 J**	200 U	190 U	200 U	190 U	200 U	190 U	200 U	200 U	190 U	650
Benzyl Alcohol	µg/kg	85 U	86 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	0.74 U	0.29 U	1.32 U	6.25 U	11.8 U	**1.48**	1.8 U	2.41 U	1.41 U	**5.94**	**1.34**	12

Sample Location[1]		SP-151		A1-15			A1-18			A1-23	A1-24		Proposed Sediment Cleanup Level[2]
Sample Identification		7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3	A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	
Sample Date		06/12/2007	06/12/2007	08/01/08	08/13/08	08/13/08	09/04/08	08/14/08	08/14/08	08/04/08	09/04/08	09/04/08	
Sample Interval (dbm)		0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Surface	Surface	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	9.6 U	9.6 U	20 U	20 U	20 U	**27**	20 U	20 U	20 U	**76**	**33**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		SP-151		A1-15			A1-18			A1-23	A1-24		Proposed Sediment Cleanup Level[2]
Sample Identification		7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3	A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	
Sample Date		06/12/2007	06/12/2007	08/01/08	08/13/08	08/13/08	09/04/08	08/14/08	08/14/08	08/04/08	09/04/08	09/04/08	
Sample Interval (dbm)		0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Surface	Surface	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		A1-24	A1-31	A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	PT-5	PT-6	PT-8	Proposed Sediment Cleanup Level[2]
Sample Identification		A1-24-C3-5	A1-31-S	A1-31B-S	EPAX019F24	NAVHP85EDS404XX	BNWS008DBPS28	RB14-PG-62-S	PT-3-43.0-44.0	PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	
Sample Date		08/14/08	08/04/08	09/04/08	06/19/2012	06/19/2012	06/19/2012	04/22/2014	01/13/15	01/13/15	01/13/15	01/12/15	
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	
Sample Type		Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	30	<1	<1	--	--	--	--	<1	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	7.10	0.270	0.420	1.27	3.56	1.51	1.30 J	0.237	0.193	0.109	0.114	NE
Total Volatile Solids (TVS)	Percent	15.4	1.0	1.1	3.5	7.9	4.1	2.6	1.2	1.1	1.0	1.1	NE
Total Solids (TS)	Percent	52.5	78.9	76.6	71.6	54.2	66.6	--	75.7	79.9	82.6	82.7	NE
Total Ammonia	mg-N/kg	--	--	--	3.14	4.92	1.74	--	2.46	11.6	6.99	0.630	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	300 J	1.84	1.25 U	3.67 J	44.6 J	1.76 J	--	5.47	1.74	4.15	1.71	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	2.5	--	2.3	5.2	1.5	9.4	--	0.1 U	0.2	0.2	0.1	NE
Very Coarse Sand	%	3.3	--	8.0	6.9	0.80	6.4	--	0.3	0.7	0.1	0.1	NE
Coarse Sand	%	4.7	--	17.8	18	1.6	10.9	--	3.7	5.5	0.3	0.5	NE
Medium Sand	%	8.4	--	44.1	23.3	4.0	19.2	--	10.3	16.3	23.5	34.5	NE
Fine Sand	%	11.8	--	22.2	7.0	8.1	11.9	--	59.9	41.3	51	43.4	NE
Very Fine Sand	%	12.1	--	3	12.7	28.4	16.1	--	15.6	27.2	16	15.1	NE
Coarse Silt	%	12.7	--	2.6 U	21.9	45.6	21.1	--	2.4	3.6	2.9	1.7	NE
Medium Silt	%	11.6	--	2.6 U				--	1.7	1.2	1.4	0.9	NE
Fine Silt	%	8.5	--	2.6 U				--	1.3	0.9	1.1	0.7	NE
Very Fine Silt	%	7	--	2.6 U				--	0.9	0.7	0.9	0.7	NE
Clay	%	17.5	--	2.6 U	5.1	10.1	5.0	--	3.8	2.5	2.7	2.3	NE
Total Fines	%	57.3	--	2.6	27	55.7	26.1	--	10.2	8.8	8.9	6.3	NE
Metals													
Arsenic	mg/kg	22	--	6 U	5.77	7.92	5.89	3.7	4.39 J	4.64 J	5.16 J	6	57
Cadmium	mg/kg	1.8	--	0.3 U	0.281	0.681	0.281	0.20	0.3	0.3	0.3	0.220 J	5.1
Chromium	mg/kg	47.4	--	28.1	27.5	41.5	30.4	--	26.3	23.5	30.1	29	260
Copper	mg/kg	82	--	12	1,040	32.8	26	--	8.7	7.9	10.5	10.2	390
Lead	mg/kg	50	--	4.0	27	14.4	10.9	--	2.15 J	1.55 J	2.20 J	2.04 J	450
Mercury	mg/kg	0.28	--	0.05 U	0.0723	0.123	0.0875	0.040	0.0116 J	0.0107 J	0.0101 J	0.0079 J	0.41
Silver	mg/kg	0.5 U	--	0.4 U	0.1	0.174	0.089	--	0.4 U	0.3 U	0.3 U	0.3 U	6.1
Zinc	mg/kg	159	--	39	41	65.6	76.6	--	30	27	32	31	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	31.9	--	4.5 U	33.2 J	38.0	33.7	--	1 J	2.5 U	4.3 U	4.1 U	370
2-Methylnaphthalene	mg/kg OC	3.4	--	4.5 U	4.7	2.7	2.5	--	2 U	2.5 U	4.3 U	4.1 U	38
Acenaphthene	mg/kg OC	3.5	--	4.5 U	2.8	2.5	2.4	--	2 U	2.5 U	4.3 U	4.1 U	16

Sample Location[1]		A1-24	A1-31	A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	PT-5	PT-6	PT-8	Proposed Sediment Cleanup Level[2]
Sample Identification		A1-24-C3-5	A1-31-S	A1-31B-S	EPAX019F24	NAVHP85EDS404XX	BNWS008DBPS28	RB14-PG-62-S	PT-3-43.0-44.0	PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	
Sample Date		08/14/08	08/04/08	09/04/08	06/19/2012	06/19/2012	06/19/2012	04/22/2014	01/13/15	01/13/15	01/13/15	01/12/15	
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	
Sample Type		Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	0.5	--	4.5 U	2.1 J	1.9	1.8	--	2 U	2.5 U	4.3 U	4.1 U	66
Anthracene	mg/kg OC	3.5	--	4.5 U	3.5	4.2	3.2	--	2 U	2.5 U	4.3 U	4.1 U	220
Fluorene	mg/kg OC	5.1	--	4.5 U	2.9	3.1	2.5	--	2 U	2.5 U	4.3 U	4.1 U	23
Naphthalene	mg/kg OC	7.2	--	4.5 U	11.8	15.7	15.2	--	2 U	2.5 U	4.3 U	4.1 U	99
Phenanthrene	mg/kg OC	8.7	--	4.5 U	10.2	10.7	8.6	--	1 J	2.5 U	4.3 U	4.1 U	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	2,266	--	19 U	422	1,355	509	--	2.4 J	4.9 U	4.7 U	4.7 U	5,200
2-Methylnaphthalene	µg/kg	240	--	19 U	59	95	38	--	4.8 U	4.9 U	4.7 U	4.7 U	670
Acenaphthene	µg/kg	250	--	19 U	35	89	36	--	4.8 U	4.9 U	4.7 U	4.7 U	500
Acenaphthylene	µg/kg	36	--	19 U	26	66	27	--	4.8 U	4.9 U	4.7 U	4.7 U	1,300
Anthracene	µg/kg	250	--	19 U	44	150	49	--	4.8 U	4.9 U	4.7 U	4.7 U	960
Fluorene	µg/kg	360	--	19 U	37	110	37	--	4.8 U	4.9 U	4.7 U	4.7 U	540
Naphthalene	µg/kg	510	--	19 U	150	560	230	--	4.8 U	4.9 U	4.7 U	4.7 U	2,100
Phenanthrene	µg/kg	620	--	19 U	130	380	130	--	2.4 J	4.9 U	4.7 U	4.7 U	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	16.6	--	4.5 U	45.8 J	44.8 J	39.5 J	--	2 U	2.5 U	4.3 U	4.1 U	960
Benzo(a)anthracene	mg/kg OC	1.2	--	4.5 U	3.4	3.4	2.8	1.41	2 U	2.5 U	4.3 U	4.1 U	110
Benzo(a)pyrene	mg/kg OC	1.4	--	4.5 U	3.1	2.7	2.3	1.20	2 U	2.5 U	4.3 U	4.1 U	99
Benzofluoranthenes[6] (Total)	mg/kg OC	3.1	--	4.5 U	5.8	5.5	4.8	1.29	2 U	2.5 U	4.3 U	4.1 U	230
Benzo(g,h,i)perylene	mg/kg OC	0.6 U	--	4.5 U	1.34 J	1.01 J	1.06 J	--	2 U	2.5 U	4.3 U	4.1 U	31
Chrysene	mg/kg OC	2.3	--	4.5 U	5.1	4.5	3.8	1.88	2 U	2.5 U	4.3 U	4.1 U	110
Dibenzo(a,h)anthracene	mg/kg OC	0.3 U	--	4.5 U	0.9 UJ	0.28 J	0.9 UJ	0.166	2 U	2.5 U	4.3 U	4.1 U	12
Fluoranthene	mg/kg OC	5.5	--	4.5 U	11	12.4	10.6	--	2 U	2.5 U	4.3 U	4.1 U	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	0.5	--	4.5 U	2	1.4	1.7	0.729	2 U	2.5 U	4.3 U	4.1 U	34
Pyrene	mg/kg OC	2.8	--	4.5 U	14.2	13.8	12.6	--	2 U	2.5 U	4.3 U	4.1 U	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	1,182	--	19 U	582 J	1,551 J	597 J	--	4.8 U	4.9 U	4.7 U	4.7 U	12,000
Benzo(a)anthracene	µg/kg	82	--	19 U	43	120	42	18.1	4.8 U	4.9 U	4.7 U	4.7 U	1,300
Benzo(a)pyrene	µg/kg	97	--	19 U	39	96	34	15.3	4.8 U	4.9 U	4.7 U	4.7 U	1,600
Benzofluoranthenes[6] (Total)	µg/kg	220	--	19 U	73	195	72	16.5	4.8 U	4.9 U	4.7 U	4.7 U	3,200
Benzo(g,h,i)perylene	µg/kg	41 U	--	19 U	17 J	36 J	16 J	--	4.8 U	4.9 U	4.7 U	4.7 U	670
Chrysene	µg/kg	160	--	19 U	65	160	57	24.1	4.8 U	4.9 U	4.7 U	4.7 U	1,400
Dibenzo(a,h)anthracene	µg/kg	19 U	--	19 U	34 UJ	9.8 J	36 UJ	2.13	4.8 U	4.9 U	4.7 U	4.7 U	230
Fluoranthene	µg/kg	390	--	19 U	140	440	160	--	4.8 U	4.9 U	4.7 U	4.7 U	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	33	--	19 U	25	50	26	9.33	4.8 U	4.9 U	4.7 U	4.7 U	600
Pyrene	µg/kg	200	--	19 U	180	490	190	--	4.8 U	4.9 U	4.7 U	4.7 U	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.3 U	--	4.5 U	3 U	2 U	1 U	--	2 U	2.5 U	4.3 U	4.1 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.3 U	--	4.5 U	5 U	5 U	3 U	--	2 U	2.5 U	4.3 U	4.1 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.3 U	--	4.5 U	5 U	5 U	3 U	--	2 U	2.5 U	4.3 U	4.1 U	3.1
Hexachlorobenzene	mg/kg OC	0.3 U	--	4.5 U	1 U	1 U	0.6 U	--	0.41 U	0.51 U	0.87 U	0.84 U	0.38

Sample Location[1]		A1-24	A1-31	A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	PT-5	PT-6	PT-8	Proposed Sediment Cleanup Level[2]
Sample Identification		A1-24-C3-5	A1-31-S	A1-31B-S	EPAX019F24	NAVHP85EDS404XX	BNWS008DBPS28	RB14-PG-62-S	PT-3-43.0-44.0	PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	
Sample Date		08/14/08	08/04/08	09/04/08	06/19/2012	06/19/2012	06/19/2012	04/22/2014	01/13/15	01/13/15	01/13/15	01/12/15	
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	
Sample Type		Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	19 U	--	19 U	34 U	46 U	36 U	--	4.8 U	4.9 U	4.7 U	4.7 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	19 U	--	19 U	67 U	91 U	73 U	--	4.8 U	4.9 U	4.7 U	4.7 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	19 U	--	19 U	67 U	91 U	73 U	--	4.8 U	4.9 U	4.7 U	4.7 U	110
Hexachlorobenzene	µg/kg	19 U	--	19 U	17 U	23 U	18 U	--	0.98 U	0.99 U	0.95 U	0.96 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	0.3 U	--	**5.7**	3 U	1 U	2 U	--	20 U	25 U	43 U	41 U	47
Butyl Benzyl Phthalate	mg/kg OC	0.3 U	--	4.5 U	3 U	1 U	**1 J**	--	2 U	2.5 U	4.3 U	4.1 U	4.9
Dibutyl Phthalate	mg/kg OC	**0.7**	--	4.5 U	3 UJ	0.6 U	1 U	--	8 U	10 U	17 U	17 U	220
Diethyl Phthalate	mg/kg OC	0.3 U	--	4.5 U	1 U	0.6 U	1 U	--	8 U	10 U	17 U	17 U	61
Dimethyl Phthalate	mg/kg OC	0.3 U	--	4.5 U	1 U	0.6 U	1 U	--	8 U	10 U	17 U	17 U	53
Di-N-Octyl Phthalate	mg/kg OC	0.3 U	--	4.5 U	3 UJ	1 UJ	2 U	--	8 U	10 U	17 U	17 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	19 U	--	**24**	34 U	46 U	36 U	--	48 U	49 U	47 U	47 U	1,300
Butyl Benzyl Phthalate	µg/kg	19 U	--	19 U	34 U	46 U	**16 J**	--	4.8 U	4.9 U	4.7 U	4.7 U	63
Dibutyl Phthalate	µg/kg	**47**	--	19 U	32 UJ	23 U	43 UJ	--	19 U	20 U	19 U	19 U	1,400
Diethyl Phthalate	µg/kg	19 U	--	19 U	17 U	23 U	18 U	--	19 U	20 U	19 U	19 U	200
Dimethyl Phthalate	µg/kg	19 U	--	19 U	17 U	23 U	18 U	--	19 U	20 U	19 U	19 U	71
Di-N-Octyl Phthalate	µg/kg	19 U	--	19 U	32 UJ	46 UJ	36 UJ	--	19 U	20 U	19 U	19 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**30**	--	19 U	170 U	230 U	180 U	--	24 U	24 U	24 U	24 U	29
2-Methylphenol (o-Cresol)	µg/kg	**34**	--	19 U	170 U	230 U	180 U	--	19 U	20 U	19 U	19 U	63
4-Methylphenol (p-Cresol)	µg/kg	**890**	--	19 U	**63 J**	**240**	**81 J**	--	19 U	20 U	19 U	19 U	670
Pentachlorophenol	µg/kg	97 U	--	97 U	170 UJ	230 UJ	180 UJ	--	96 U	98 U	94 U	95 U	360
Phenol	µg/kg	**24**	--	19 U	67 U	**43 J**	**73 NJ**	--	19 U	20 U	19 U	19 U	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**3.1**	--	4.5 U	**2.52 J**	**3**	**2.0**	--	2 U	2.5 U	4.3 U	4.1 U	15
Hexachlorobutadiene	mg/kg OC	0.3 U	--	4.5 U	5 U	3 U	5 U	--	0.41 U	0.51 U	0.87 U	0.84 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.3 U	--	4.5 U	3 U	1 U	2 U	--	2 U	2.5 U	4.3 U	4.1 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**220**	--	19 U	**32 J**	**120**	**37**	--	4.8 U	4.9 U	4.7 U	4.7 U	540
Hexachlorobutadiene	µg/kg	19 U	--	19 U	67 U	91 U	73 U	--	0.98 U	0.99 U	0.95 U	0.96 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	19 U	--	19 U	34 U	46 U	36 U	--	4.8 U	4.9 U	4.7 U	4.7 U	28
Benzoic Acid	µg/kg	190 U	--	190 U	--	--	--	--	190 U	200 U	190 U	190 U	650
Benzyl Alcohol	µg/kg	19 U	--	19 U	170 U	230 U	180 U	--	19 U	20 U	19 U	19 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.3**	--	4.5 U	**0.37**	**0.53**	**0.99**	--	**0.00068 J**	**0.0020 J**	**0.0051 J**	**0.0073 J**	12

Sample Location[1]		A1-24	A1-31	A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	PT-5	PT-6	PT-8	Proposed Sediment Cleanup Level[2]
Sample Identification		A1-24-C3-5	A1-31-S	A1-31B-S	EPAX019F24	NAVHP85EDS404XX	BNWS008DBPS28	RB14-PG-62-S	PT-3-43.0-44.0	PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	
Sample Date		08/14/08	08/04/08	09/04/08	06/19/2012	06/19/2012	06/19/2012	04/22/2014	01/13/15	01/13/15	01/13/15	01/12/15	
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	
Sample Type		Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**21**	--	19 U	4.7	**19**	15	--	**0.0016 J**	**0.0038 J**	**0.0055 J**	**0.0048 J**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		A1-24	A1-31	A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	PT-5	PT-6	PT-8	Proposed Sediment Cleanup Level[2]
Sample Identification		**A1-24-C3-5**	**A1-31-S**	**A1-31B-S**	**EPAX019F24**	**NAVHP85EDS404XX**	**BNWS008DBPS28**	**RB14-PG-62-S**	**PT-3-43.0-44.0**	**PT-5-43.0-44.0**	**PT-6-43.0-44.0**	**PT-8-43.0-44.0**	
Sample Date		**08/14/08**	**08/04/08**	**09/04/08**	**06/19/2012**	**06/19/2012**	**06/19/2012**	**04/22/2014**	**01/13/15**	**01/13/15**	**01/13/15**	**01/12/15**	
Sample Interval (dbm)		**3 - 5 ft**	**0-10 cm**	**0-10 cm**	**0 - 17 cm**	**0 - 17 cm**	**0 - 17 cm**	**0-10 cm**	**0 - 1 ft**	**0 - 1 ft**	**0 - 1 ft**	**0 - 1 ft**	
Sample Type		**Subsurface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Subsurface[8]**	**Subsurface[8]**	**Subsurface[8]**	**Subsurface[8]**	
Stratigraphic Unit		**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Native Deposit**	**Native Deposit**	**Native Deposit**	**Native Deposit**	
Tidal Zone		**Subtidal**	**Subtidal**	**Intertidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102				Proposed Sediment Cleanup Level[2]
Sample Identification		PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10	ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	
Sample Date		01/14/15	01/15/15	01/15/15	01/15/15	01/15/15	10/24/18	10/23/18	10/24/18	10/23/18	10/23/18	10/23/18	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	
Sample Type		Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**2.70**	**0.228**	**7.76**	**0.214**	**0.092**	**0.480**	**0.270**	**0.230**	**2.24**	**1.45**	**0.500**	NE
Total Volatile Solids (TVS)	Percent	**5.1**	**1.0**	**10.3**	**0.9**	**0.7**	**2.75**	**1.19**	**1.52**	**4.35**	**3.41**	**2.51**	NE
Total Solids (TS)	Percent	**71.6**	**81.6**	**61.2**	**82.1**	**83.5**	**69.6**	**83.0**	**78.6**	**67.6**	**74.0**	**81.3**	NE
Total Ammonia	mg-N/kg	**13.2**	**26.6**	**42.2**	**1.93**	**0.650**	**6.16**	**4.14**	**3.24**	**62.10**	**53.6**	**42.1**	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	**16.0**	**1.32**	**4.80**	**4.05**	**2.25**	**198**	1.07 U	**39.4**	**111**	**28.4**	1.16 UJ	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	**1.1**	**0.1**	**0.8**	**0.1 U**	**0.2**	**0.2**	**16.3**	**0.0**	**0.2**	**0.6**	**6.9**	NE
Very Coarse Sand	%	**0.8**	**0.4**	**1.6**	**0.1**	**0.2**	**0.6**	**8.4**	**0.2**	**0.4**	**0.9**	**2.2**	NE
Coarse Sand	%	**2.2**	**2.8**	**2.3**	**0.6**	**0.9**	**6.4**	**16.3**	**5.6**	**1.3**	**1.6**	**3.0**	NE
Medium Sand	%	**20.4**	**10.9**	**5.2**	**19.9**	**29.8**	**30.8**	**30.5**	**36.3**	**3.2**	**4.3**	**8.7**	NE
Fine Sand	%	**51.2**	**46.3**	**14.7**	**55.1**	**51.3**	**36.0**	**11.8**	**41.7**	**10.2**	**16.3**	**32.2**	NE
Very Fine Sand	%	**6**	**29.2**	**23.4**	**13**	**10.8**	**15.2**	**6.3**	**9.3**	**25.2**	**25.7**	**22.1**	NE
Coarse Silt	%	**4**	**4.1**	**13.6**	**3.7**	**3.7**	**5.8**	**3.4**	**2.1**	**21.2**	**17.4**	**10.7**	NE
Medium Silt	%	**3.3**	**1.6**	**11.3**	**2**	**0.7**	**2.6**	**2.0**	**1.6**	**14.8**	**14.9**	**6.0**	NE
Fine Silt	%	**2.7**	**1.1**	**7.9**	**1.6**	**0.6**	**0.4**	**1.2**	**0.8**	**7.0**	**6.6**	**2.8**	NE
Very Fine Silt	%	**2**	**0.8**	**5.3**	**1.2**	**0.4**	**0.1**	**0.8**	**0.3**	**5.1**	**4.0**	**1.7**	NE
Clay	%	**6.2**	**2.7**	**13.6**	**2.8**	**1.5**	**2.0**	**2.9**	**2.0**	**11.4**	**7.7**	**3.6**	NE
Total Fines	%	**18.3**	**10.3**	**51.8**	**11.3**	**6.9**	**10.8**	**10.4**	**6.8**	**59.5**	**50.6**	**24.8**	NE
Metals													
Arsenic	mg/kg	**6.08 J**	**3.92 J**	**9**	**7**	**3.95 J**	**3.22**	**4.14**	**2.63**	**5.33**	**5.44**	**4.86**	57
Cadmium	mg/kg	**0.4**	**0.211 J**	**1.1**	**0.2**	**0.165 J**	**0.16**	**0.12**	**0.05 J**	**0.42**	**0.31**	**0.13**	5.1
Chromium	mg/kg	**28.2**	**24.2**	**47.9**	**22.2**	**18.2**	**25.7**	**25.5**	**25**	**49.2**	**45.3**	**38.5**	260
Copper	mg/kg	**12.8**	**7.6**	**44.2**	**6.6**	**5.9**	**15**	**10.6**	**13.6**	**56**	**47.9**	**35**	390
Lead	mg/kg	**10**	**1.48 J**	**26**	**1.25 J**	**1.12 J**	**5.98**	**1.79**	**6.06**	**29.7**	**10.8**	**5.83**	450
Mercury	mg/kg	**0.08**	**0.0071 J**	**0.11**	**0.0072 J**	**0.0104 J**	**0.0195 J**	**0.0137 J**	**0.0158 J**	**0.102**	**0.0706 J**	**0.0443**	0.41
Silver	mg/kg	0.4 U	0.3 U	0.5 U	0.3 U	**0.131 J**	**0.04 J**	**0.04 J**	**0.03 J**	**0.11 J**	**0.10 J**	**0.07 J**	6.1
Zinc	mg/kg	**34**	**28**	**70**	**25**	**22**	**43.4**	**30.8**	**43.1**	**71.1**	**61.9**	**51.1**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**41.1**	**1.4 J**	**33.8**	**2**	**2.7 J**	**24.8 J**	1.82 U	**8.35 J**	**52.2 J**	**179 J**	**111**	370
2-Methylnaphthalene	mg/kg OC	**2.8**	2.1 U	**2.3**	2.3 U	5.4 U	**2.19**	1.82 U	2.07 U	**2.73**	**11.4**	**5.8**	38
Acenaphthene	mg/kg OC	**2.7**	2.1 U	**2.7**	2.3 U	5.4 U	**2.15 J**	1.82 UJ	2.07 U J	**2.98 J**	**11.1 J**	**6.72**	16

Sample Location[1]		PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102				Proposed Sediment Cleanup Level[2]
Sample Identification		PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10	ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	
Sample Date		01/14/15	01/15/15	01/15/15	01/15/15	01/15/15	10/24/18	10/23/18	10/24/18	10/23/18	10/23/18	10/23/18	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	
Sample Type		Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	**2**	2.1 U	**1**	2.3 U	5.4 U	**1.04 J**	1.82 UJ	2.07 U J	**3.13 J**	**12.5 J**	**6.38**	66
Anthracene	mg/kg OC	**4**	2.1 U	**2.1**	2.3 U	5.4 U	**4.67**	1.82 U	**1.57 J**	**2.82**	**7.5**	**6.6**	220
Fluorene	mg/kg OC	**3.3**	2.1 U	**3.1**	2.3 U	5.4 U	**2.69**	1.82 U	2.07 U	**3.59**	**12.2**	**7.78**	23
Naphthalene	mg/kg OC	**17**	**1.4 J**	**14**	**2.3**	**2.7 J**	**4.06 J**	1.82 UJ	**1.38 J**	**23.8 J**	**88.4 J**	**47.8**	99
Phenanthrene	mg/kg OC	**9.6**	2.1 U	**8.4**	2.3 U	5.4 U	**10.1**	1.82 U	**5.39**	**16**	**47.1**	**35.8**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**1,110**	**3.3 J**	**2,620**	**5**	**2.5 J**	**119 J**	4.92 U	**19.2 J**	**1,170 J**	**2,610 J**	**555**	5,200
2-Methylnaphthalene	µg/kg	**75**	4.7 U	**180**	4.9 U	5.0 U	**10.5**	4.92 U	4.75 U	**61.1**	**166**	**29**	670
Acenaphthene	µg/kg	**73**	4.7 U	**210**	4.9 U	5.0 U	**10.3 J**	4.92 UJ	4.75 UJ	**66.8 J**	**162 J**	**33.6**	500
Acenaphthylene	µg/kg	**53**	4.7 U	**80**	4.9 U	5.0 U	**5.01 J**	4.92 UJ	4.75 UJ	**70.1 J**	**182 J**	**31.9**	1,300
Anthracene	µg/kg	**100**	4.7 U	**160**	4.9 U	5.0 U	**22.4**	4.92 U	**3.62 J**	**63.2**	**110**	**33**	960
Fluorene	µg/kg	**89**	4.7 U	**240**	4.9 U	5.0 U	**12.9**	4.92 U	4.75 U	**80.5**	**178**	**38.9**	540
Naphthalene	µg/kg	**460**	**3.3 J**	**1,100**	**5**	**2.5 J**	**19.5 J**	4.92 UJ	**3.18 J**	**534 J**	**1,290 J**	**239**	2,100
Phenanthrene	µg/kg	**260**	4.7 U	**650**	4.9 U	5.0 U	**48.4**	4.92 U	**12.4**	**360**	**687**	**179**	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**30.4**	2.1 U	**16.43**	2.3 U	5.4 U	**101 J**	1.82 U	**72.6 J**	**33 J**	**71.9 J**	**73.4**	960
Benzo(a)anthracene	mg/kg OC	**2.2**	2.1 U	**0.91**	2.3 U	5.4 U	**7.94**	1.82 U	**5.87**	**1.79**	**2.66**	**3.94**	110
Benzo(a)pyrene	mg/kg OC	**1.9**	2.1 U	**0.63**	2.3 U	5.4 U	**8.75 J**	1.82 U	**6.52 J**	**1.27 J**	**1.49 J**	**2.34**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**3.1**	2.1 U	**1.3**	2.3 U	5.4 U	**20.3**	3.64 U	**12.8**	**2.73**	**4.12**	**8.38**	230
Benzo(g,h,i)perylene	mg/kg OC	**1.4**	2.1 U	**0.57**	2.3 U	5.4 U	**4.5**	1.82 U	**5.26**	**1.1**	**1.31**	**2.5**	31
Chrysene	mg/kg OC	**2.3**	2.1 U	**1.3**	2.3 U	5.4 U	**9.33**	1.82 U	**9.39**	**2.5**	**4.38**	**5.62**	110
Dibenzo(a,h)anthracene	mg/kg OC	0.89 U	2.1 U	0.31 U	2.3 U	5.4 U	**2.54 J**	1.82 U	**3.5 J**	**0.408 J**	**0.512 J**	**0.32**	12
Fluoranthene	mg/kg OC	**9.6**	2.1 U	**5.9**	2.3 U	5.4 U	**21.7**	1.82 U	**13.4**	**12.7**	**31.9**	**26.6**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	**1**	2.1 U	**0.32**	2.3 U	5.4 U	**4.81**	1.82 U	**4.29**	**0.866**	**0.681**	**1.55**	34
Pyrene	mg/kg OC	**8.9**	2.1 U	**5.5**	2.3 U	5.4 U	**20.8**	1.82 U	**11.7**	**9.64**	**25**	**22.2**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**821**	4.7 U	**1,275**	4.9 U	5 U	**483 J**	9.84 U	**167 J**	**739 J**	**1,050 J**	**367**	12,000
Benzo(a)anthracene	µg/kg	**59**	4.7 U	**71**	4.9 U	5.0 U	**38.1**	4.92 U	**13.5**	**40.1**	**38.8**	**19.7**	1,300
Benzo(a)pyrene	µg/kg	**51**	4.7 U	**49**	4.9 U	5.0 U	**42.0 J**	4.92 UJ	**15.0 J**	**28.5 J**	**21.7 J**	**11.7**	1,600
Benzofluoranthenes[6] (Total)	µg/kg	**84**	4.7 U	**98**	4.9 U	5.0 U	**97.4**	9.84 U	**29.5**	**61.2**	**60.1**	**41.9**	3,200
Benzo(g,h,i)perylene	µg/kg	**38**	4.7 U	**44**	4.9 U	5.0 U	**21.6**	4.92 U	**12.1**	**24.6**	**19.1**	**12.5**	670
Chrysene	µg/kg	**62**	4.7 U	**98**	4.9 U	5.0 U	**44.8**	4.92 U	**21.6**	**55.9**	**64**	**28.1**	1,400
Dibenzo(a,h)anthracene	µg/kg	24 U	4.7 U	24 U	4.9 U	5.0 U	**12.2 J**	4.92 UJ	**8.06 J**	**9.13 J**	**7.48 J**	**1.60 J**	230
Fluoranthene	µg/kg	**260**	4.7 U	**460**	4.9 U	5.0 U	**104**	4.92 U	**30.9**	**284**	**466**	**133**	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	**27**	4.7 U	**25**	4.9 U	5.0 U	**23.1**	4.92 U	**9.86**	**19.4**	**9.94**	**7.77**	600
Pyrene	µg/kg	**240**	4.7 U	**430**	4.9 U	5.0 U	**99.6**	4.92 U	**26.9**	**216**	**360**	**111**	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.18 U	2.1 U	0.062 U	2.3 U	5.4 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.18 U	2.1 U	0.062 U	2.3 U	5.4 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.18 U	2.1 U	0.062 U	2.3 U	5.4 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	3.1
Hexachlorobenzene	mg/kg OC	0.036 U	0.42 U	0.012 U	0.46 U	1.1 U	0.100 U	0.190 U	0.210 U	0.0220 U	0.269 U	0.960 U	0.38

Sample Location[1]		PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102				Proposed Sediment Cleanup Level[2]
Sample Identification		PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10	ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	
Sample Date		01/14/15	01/15/15	01/15/15	01/15/15	01/15/15	10/24/18	10/23/18	10/24/18	10/23/18	10/23/18	10/23/18	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	
Sample Type		Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	4.9 U	4.7 U	4.8 U	4.9 U	5.0 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	4.9 U	4.7 U	4.8 U	4.9 U	5.0 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	4.9 U	4.7 U	4.8 U	4.9 U	5.0 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	110
Hexachlorobenzene	µg/kg	0.97 U	0.95 U	0.96 U	0.98 U	1.0 U	0.48 U	0.50 U	0.48 U	0.50 U	3.93 U	4.8 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	1.8 U	21 U	0.62 U	23 U	50 U	10.3 U	18.3 U	20.7 U	**1.26**	3.28 U	9.68 U	47
Butyl Benzyl Phthalate	mg/kg OC	0.18 U	**3.2**	**0.11**	2.3 U	5.4 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	4.9
Dibutyl Phthalate	mg/kg OC	0.7 U	8.3 U	0.24 U	9 U	20 U	4.10 U	7.30 U	8.26 U	0.857 U	16.8	13.5 U	220
Diethyl Phthalate	mg/kg OC	0.7 U	8.3 U	**0.44**	9 U	20 U	4.10 U	**8.04**	8.26 U	0.835	**7.12**	3.88 U	61
Dimethyl Phthalate	mg/kg OC	0.7 U	8.3 U	0.24 U	9 U	20 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	53
Di-N-Octyl Phthalate	mg/kg OC	0.7 U	8.3 U	0.24 U	9 U	20 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	49 U	47 U	48 U	49 U	50 U	49.3 U	49.3 U	47.6 U	**28.2 J**	47.9 U	48.4 U	1,300
Butyl Benzyl Phthalate	µg/kg	4.9 U	**7.4**	**8.8**	4.9 U	5.0 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	63
Dibutyl Phthalate	µg/kg	20 U	19 U	19 U	20 U	20 U	19.7 U	19.7 U	19.0 U	19.2 U	246 J	67.6 U	1,400
Diethyl Phthalate	µg/kg	20 U	19 U	**34**	20 U	20 U	19.7 U	21.7 U	19.0 U	18.7 U	**104**	19.4 U	200
Dimethyl Phthalate	µg/kg	20 U	19 U	19 U	20 U	20 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	71
Di-N-Octyl Phthalate	µg/kg	20 U	19 U	19 U	20 U	20 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	24 U	23 U	**24 J**	25 U	25 U	24.7 U	24.7 U	23.8 U	**6.7 J**	**10.6 J**	**5.1 J**	29
2-Methylphenol (o-Cresol)	µg/kg	20 U	19 U	**36**	20 U	20 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	**10.6 J**	63
4-Methylphenol (p-Cresol)	µg/kg	20 U	**92**	**180**	20 U	20 U	19.7 U	19.7 U	19.0 U	**275**	**81.7**	**58.8**	670
Pentachlorophenol	µg/kg	98 U	94 U	96 U	99 U	99 U	**2.8 J**	19.7 U	19.0 U	**5.5 J**	**4.2 J**	19.4 U	360
Phenol	µg/kg	20 U	**38**	**59**	20 U	20 U	**23.2**	**21.2**	**14.5 J**	**20.9**	19.2 U	**14.6 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**3.2**	2.1 U	**3**	2.3 U	5.4 U	**4.79**	7.30 U	8.26 U	**3.88**	**9.18**	**14.3**	15
Hexachlorobutadiene	mg/kg OC	0.036 U	0.42 U	0.012 U	0.46 U	1.1 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.18 U	2.1 U	0.062 U	2.3 U	5.4 U	4.10 U	7.30 U	8.26 U	0.857 U	1.32 U	3.88 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**86**	4.7 U	**200**	4.9 U	5.0 U	**23**	19.7 U	19.0 U	**86.8**	**134**	**71.7**	540
Hexachlorobutadiene	µg/kg	0.97 U	0.95 U	0.96 U	0.98 U	1.0 U	19.7 U	19.7 U	19.0 U	19.2 U	19.2 U	19.4 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	4.9 U	4.7 U	4.8 U	4.9 U	5.0 U	19.7 U	19.7 U	19.0 U	**19.2**	**19.2**	19.4 U	28
Benzoic Acid	µg/kg	200 U	**82 J**	**150 J**	200 U	200 U	71.8 U	64.0 U	31.8 U	**77.8 J**	**83.5 J**	**51.3 J**	650
Benzyl Alcohol	µg/kg	20 U	19 U	19 U	20 U	20 U	19.7 U	19.7 U	**19.0 J**	**19.2 J**	19.2 U	19.4 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.0019 J**	**0.0018 J**	**0.0046 J**	**0.0017 J**	**0.0015 J**	**0.38 J**	0.008 U	**0.33 J**	**0.8 J**	**0.31 J**	**0.13 J**	12

Sample Location[1]		PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102				Proposed Sediment Cleanup Level[2]
Sample Identification		PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10	ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	
Sample Date		01/14/15	01/15/15	01/15/15	01/15/15	01/15/15	10/24/18	10/23/18	10/24/18	10/23/18	10/23/18	10/23/18	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	
Sample Type		Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**0.043 J**	**0.0041 J**	**0.24 J**	**0.0037 J**	**0.0014 J**	**1.81 J**	0.022 U	**0.75 J**	**18 J**	**4.59 J**	**0.64 J**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	0.97 U	1.00 U	0.96 U	0.99 U	0.98 U	1.97 UJ	NE
4,4'-DDE	µg/kg	--	--	--	--	--	0.97 U	1.00 U	0.96 U	0.99 U	0.98 U	1.97 UJ	NE
4,4'-DDT	µg/kg	--	--	--	--	--	0.97 U	1.00 U	0.96 U	0.99 U	0.98 U	7.86 UJ	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	0.970 U	1.00 U	0.960 U	0.990 U	0.980 U	7.86 U	NE
Aldrin	µg/kg	--	--	--	--	--	0.48 U	0.50 U	0.48 U	0.50 U	0.49 U	0.98 UJ	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	0.48 U	0.50 U	0.48 U	0.50 U	0.49 U	19.7 UJ	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	0.48 U	0.50 U	0.48 U	0.50 U	0.49 U	19.7 UJ	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	0.970 U	1.00 U	0.960 U	0.990 U	0.980 U	19.7 U	NE
Dieldrin	µg/kg	--	--	--	--	--	0.97 U	1.00 U	0.96 U	0.99 U	0.98 U	1.97 UJ	NE
Heptachlor	µg/kg	--	--	--	--	--	0.48 U	0.50 U	0.48 U	0.50 U	0.49 U	0.98 UJ	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102				Proposed Sediment Cleanup Level[2]
Sample Identification		PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10	ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	
Sample Date		01/14/15	01/15/15	01/15/15	01/15/15	01/15/15	10/24/18	10/23/18	10/24/18	10/23/18	10/23/18	10/23/18	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	
Sample Type		Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Subsurface[8]	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-103	ST-104				ST-105		ST-106				Proposed Sediment Cleanup Level[2]
Sample Identification		ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10	ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	
Sample Date		10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18	10/26/18	10/26/18	10/26/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	
Sample Type		Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**0.360**	**0.730**	**0.400**	**0.950**	**2.90**	**2.20**	**0.170**	**1.30**	**1.64**	**1.38**	**2.33**	NE
Total Volatile Solids (TVS)	Percent	**1.83**	**2.51**	**2.49**	**4.00**	**5.36**	**5.43**	**1.47**	**3.14**	**2.84**	**5.41**	**6.65**	NE
Total Solids (TS)	Percent	**73.5**	**70.2**	**76.0**	**75.5**	**72.7**	**59.8**	**84.0**	**67.3**	**71.6**	**69.9**	**68.5**	NE
Total Ammonia	mg-N/kg	**2.73**	**4.71**	**15.4 J**	**18.70**	**25.3**	**10.50**	**6.73**	**7.06**	**9.36**	**13.20**	**22.2**	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	**89.3**	**22.3**	**9.73**	**29.5 J**	**17.1 J**	**1,170**	1.16 U	**320**	**500**	**643 J**	**318 J**	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	**0.0**	**0.5**	**0.3**	**3.9**	**0.9**	**2.1**	**22.6**	**0.8**	**0.3**	**2.5**	**2.3**	NE
Very Coarse Sand	%	**0.5**	**0.1**	**1.0**	**1.7**	**1.9**	**1.1**	**13.5**	**0.7**	**0.8**	**0.9**	**1.6**	NE
Coarse Sand	%	**6.2**	**4.2**	**8.5**	**6.7**	**4.9**	**2.6**	**20.7**	**2.7**	**4.8**	**3.4**	**5.8**	NE
Medium Sand	%	**31.1**	**19.6**	**40.8**	**23.4**	**14.9**	**7.1**	**30.4**	**13.2**	**23.3**	**16.7**	**22.0**	NE
Fine Sand	%	**40.2**	**39.1**	**36.4**	**33.8**	**34.6**	**29.7**	**7.3**	**36.2**	**40.9**	**37.8**	**29.5**	NE
Very Fine Sand	%	**13.9**	**21.0**	**6.6**	**13.3**	**20.7**	**36.4**	**1.9**	**29.8**	**20.4**	**23.1**	**18.4**	NE
Coarse Silt	%	**2.7**	**6.9**	**1.7**	**6.2**	**8.3**	**10.5**	3.6 U	**9.9**	**3.8**	**6.5**	**8.0**	NE
Medium Silt	%	**2.4**	**4.8**	**1.4**	**3.5**	**5.0**	**6.8**	3.6 U	**4.1**	**1.2**	**2.5**	**3.0**	NE
Fine Silt	%	**0.7**	**0.9**	**0.5**	**1.9**	**2.5**	**0.5**	3.6 U	**0.3**	**1.0**	**1.5**	**2.0**	NE
Very Fine Silt	%	**0.3**	**0.4**	**0.4**	**1.5**	**1.9**	**0.3**	3.6 U	**0.1**	**0.7**	**1.2**	**1.8**	NE
Clay	%	**2.0**	**2.5**	**2.3**	**4.1**	**4.3**	**2.9**	3.6 U	**2.3**	**2.8**	**3.9**	**5.8**	NE
Total Fines	%	**8.1**	**15.4**	**6.4**	**17.2**	**22.1**	**21.0**	**3.6**	**16.7**	**9.5**	**15.6**	**20.5**	NE
Metals													
Arsenic	mg/kg	**3.08**	**3.15**	**2.56**	**2.99**	**3.98**	**3.81**	**3.57**	**3.51**	**3.1**	**3.19**	**3.62**	57
Cadmium	mg/kg	**0.08 J**	**0.05 J**	**0.10 J**	**0.2**	**0.21**	**0.19**	**0.05 J**	**0.11 J**	**0.16**	**0.18**	**0.24**	5.1
Chromium	mg/kg	**26.6**	**27.2**	**27**	**39.1**	**35.3**	**34.1**	**26.3**	**31.5**	**31.5**	**31**	**32.9**	260
Copper	mg/kg	**16.1**	**18.5**	**27.2**	**38.4**	**36.2**	**27.9**	**11.3**	**21.4**	**23.9**	**22.3**	**25.2**	390
Lead	mg/kg	**7.28**	**8.84**	**21.3**	**64.8 J**	**52.8**	**9.65**	**1.87**	**9.05**	**14**	**17.9 J**	**14.7**	450
Mercury	mg/kg	**0.0250 J**	**0.0189 J**	**0.0725**	**0.0843 J**	**0.142**	**0.0559**	**0.0126 J**	**0.0205 J**	**0.0331**	**0.0450 J**	**0.0563**	0.41
Silver	mg/kg	**0.04 J**	**0.05 J**	**0.04 J**	**0.03 J**	**0.07 J**	**0.07 J**	**0.03 J**	**0.06 J**	**0.06 J**	**0.03 J**	**0.08 J**	6.1
Zinc	mg/kg	**45.9**	**50.5**	**35.9**	**59.1**	**51.3**	**56.6**	**32.4**	**51.4**	**55.5**	**57**	**58.5**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**13.4 J**	**12.2 J**	**28 J**	**90.2 J**	**55**	**14.6 J**	2.82 U	**14.3 J**	**6.89 J**	**32.1 J**	**28.2**	370
2-Methylnaphthalene	mg/kg OC	**1.69**	**0.388 J**	**1.76**	**6.88**	**4.5**	**0.759**	2.82 U	**0.566**	**0.374**	**3.19**	**2.49**	38
Acenaphthene	mg/kg OC	**1.52 J**	**0.727 J**	**1.53 J**	**6.08 J**	**4.59**	**1.19 J**	2.82 U	**1.62 J**	**0.385 J**	**2.7 J**	**3.1**	16

Sample Location[1]		ST-103	ST-104				ST-105		ST-106				Proposed Sediment Cleanup Level[2]
Sample Identification		ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10	ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	
Sample Date		10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18	10/26/18	10/26/18	10/26/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	
Sample Type		Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	1.35 UJ	**1.37 J**	0.808 J	**2.94 J**	**1.91**	**0.559 J**	2.82 U	**0.403 J**	**0.238 J**	**1.16 J**	**0.747**	66
Anthracene	mg/kg OC	1.81	**2.45**	4.9	**9.13**	**3.3**	**2.5**	2.82 U	**1.92**	**1.5**	**4.44**	**4.11**	220
Fluorene	mg/kg OC	1.26 J	**0.93**	2.12	**8.07**	**4.69**	**1.44**	2.82 U	**1.37**	**0.574**	**3.09**	**3.44**	23
Naphthalene	mg/kg OC	1.7 J	**0.659 J**	8.23 J	**28.7 J**	**26**	**1.45 J**	2.82 U	**0.962 J**	**0.582 J**	**9.13 J**	**7.08**	99
Phenanthrene	mg/kg OC	7.11	**6.07**	9.93	**35.3**	**14.9**	**7.45**	2.82 U	**8**	**3.6**	**12**	**9.66**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**48.2 J**	89.1 J	**110 J**	857 J	1,600	321 J	4.80 U	186 J	113 J	443 J	656	5,200
2-Methylnaphthalene	µg/kg	**6.07**	2.83 J	**7.05**	65.4	130	16.7	4.80 U	7.36	6.14	44	58.1	670
Acenaphthene	µg/kg	**5.47 J**	5.31 J	**6.10 J**	57.8 J	133	26.1 J	4.80 UJ	21.0 J	6.32 J	37.2 J	72.2	500
Acenaphthylene	µg/kg	4.85 UJ	10.0 J	**3.23 J**	27.9 J	55.3	12.3 J	4.80 UJ	5.24 J	3.90 J	16.0 J	17.4	1,300
Anthracene	µg/kg	**6.51**	17.9	**19.6**	86.7	95.8	55	4.80 U	25	24.6	61.3	95.8	960
Fluorene	µg/kg	**4.52 J**	6.79	**8.46**	76.7	136	31.6	4.80 U	17.8	9.41	42.7	80.1	540
Naphthalene	µg/kg	**6.11 J**	4.81 J	**32.9 J**	273 J	750	32.0 J	4.80 UJ	12.5 J	9.55 J	126 J	165	2,100
Phenanthrene	µg/kg	**25.6**	44.3	**39.7**	335	432	164	4.80 U	104	59	160	225	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	65 J	**144 J**	29.3 J	**160 J**	**29**	**45.9 J**	5.64 U	**61.1 J**	**52.4**	**61.3**	**61.8**	960
Benzo(a)anthracene	mg/kg OC	5.72	**8.63**	1.84	**15.5**	**1.34**	**4.39**	2.82 U	**5.45**	**5.41**	**6.09**	**4.24**	110
Benzo(a)pyrene	mg/kg OC	5.92 J	**4.75 J**	1.5 J	**12.9 J**	**0.897**	**3.47 J**	2.82 U	**5.98 J**	**5.9 J**	**4.09 J**	**2.88**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	10.8	**16**	3.83	**20.6**	**2.72**	**6.45**	5.64 U	**10.4**	**10.2**	**9.2**	**8.97**	230
Benzo(g,h,i)perylene	mg/kg OC	4.33	**2.29**	1.24	**7.2**	**0.893**	**2.15**	2.82 U	**4.42**	**3.5**	**2.42**	**1.79**	31
Chrysene	mg/kg OC	5.97	**15.6**	2.21	**17.4**	**2.16**	**5.5**	2.82 U	**6.21**	**6.22**	**8.77**	**7.85**	110
Dibenzo(a,h)anthracene	mg/kg OC	2.81 J	**1.47 J**	1.78 J	**2.75 J**	**0.455**	**0.777 J**	2.82 U	**1.48 J**	**1.18 J**	**1.1 J**	**0.717**	12
Fluoranthene	mg/kg OC	14.1	**57.9**	8.8	**39.1**	**11**	**11**	2.82 U	**12.2**	**7.99**	**11.2**	**13**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	4.11	**2.47**	1.1 J	**7.66**	**0.49**	**2.13**	2.82 U	**4.14**	**3.59**	**2.34**	**1.67**	34
Pyrene	mg/kg OC	11.2	**34.8**	7	**34.8**	**9**	**10.2**	2.82 U	**11**	**8.35**	**16.1**	**21**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**234 J**	1,050 J	**117 J**	1,500 J	850	1,010 J	9.59 U	794 J	859	846	1440	12,000
Benzo(a)anthracene	µg/kg	**20.6**	63	**7.37**	147	38.9	96.5	4.80 U	70.9	88.8	84	98.9	1,300
Benzo(a)pyrene	µg/kg	**21.3 J**	34.7 J	**5.98 J**	123 J	26	76.3 J	4.80 UJ	77.7 J	96.7 J	56.4 J	67.2	1,600
Benzofluoranthenes[6] (Total)	µg/kg	**38.8**	120	**15.3**	196	79	142	9.59 U	135	168	127	209	3,200
Benzo(g,h,i)perylene	µg/kg	**15.6**	16.7	**4.95**	68.4	25.9	47.4	4.80 U	57.5	57.4	33.4	41.8	670
Chrysene	µg/kg	**21.5**	114	**8.82**	165	62.7	121	4.80 U	80.7	102	121	183	1,400
Dibenzo(a,h)anthracene	µg/kg	**10.1 J**	10.7 J	**7.10 J**	26.1 J	13.2	17.1 J	4.80 UJ	19.2 J	19.3 J	15.2 J	16.7	230
Fluoranthene	µg/kg	**50.6**	423	**35.2**	371	330	242	4.80 U	159	131	155	302	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	**14.8**	18	**4.40 J**	72.8	14.2	46.8	4.80 U	53.8	58.9	32.3	38.9	600
Pyrene	µg/kg	**40.3**	254	**28**	331	260	224	4.80 U	140	137	222	480	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	3.1
Hexachlorobenzene	mg/kg OC	0.140 U	0.0660 U	0.120 U	0.0520 U	0.170 U	0.0230 U	0.280 U	0.0380 U	0.0290 U	0.0360 U	0.210 U	0.38

Sample Location[1]		ST-103	ST-104				ST-105		ST-106				Proposed Sediment Cleanup Level[2]
Sample Identification		ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10	ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	
Sample Date		10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18	10/26/18	10/26/18	10/26/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	
Sample Type		Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	110
Hexachlorobenzene	µg/kg	0.49 U	0.48 U	0.49 U	0.49 U	5.0 U	0.50 U	0.48 U	0.50 U	0.48 U	0.49 U	4.9 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	13.5 U	**7.47**	12.0 U	4.95 U	1.71 U	**2.54**	**18.9**	**35.6**	3.04 U	**10.0**	**51.1**	47
Butyl Benzyl Phthalate	mg/kg OC	5.39 U	2.73 U	4.80 U	**1.46 J**	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	**4.85**	4.9
Dibutyl Phthalate	mg/kg OC	5.39 U	2.73 U	4.80 U	**19.4 J**	2.30 U	0.905 U	**32.3**	1.49 U	1.22 U	**16.4 J**	2.28 U	220
Diethyl Phthalate	mg/kg OC	**5.92**	2.73 U	4.80 U	1.98 U	**0.752**	0.905 U	11.4 U	1.49 U	**1.9**	1.38 U	0.841 U	61
Dimethyl Phthalate	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	53
Di-N-Octyl Phthalate	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	48.5 U	**54.5**	48.0 U	47.0 U	49.6 U	**55.9**	**32.1 J**	**463**	49.9 U	**200**	**1190**	1,300
Butyl Benzyl Phthalate	µg/kg	19.4 U	19.9 U	19.2 U	**13.9 J**	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	**113**	63
Dibutyl Phthalate	µg/kg	19.4 U	19.9 U	19.2 U	**184 J**	66.7 U	19.9 U	**54.9**	19.4 U	20.0 U	**226 J**	53.1 U	1,400
Diethyl Phthalate	µg/kg	**21.3**	19.9 U	19.2 U	18.8 U	**21.8**	19.9 U	19.3 U	19.4 U	30.3	19.0 U	19.6 U	200
Dimethyl Phthalate	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	71
Di-N-Octyl Phthalate	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	24.2 U	24.9 U	24.0 U	**9.9 J**	**21.1**	24.9 U	24.1 U	24.2 U	25.0 U	**3.4 J**	**5.4 J**	29
2-Methylphenol (o-Cresol)	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	63
4-Methylphenol (p-Cresol)	µg/kg	19.4 U	19.9 U	**46.4**	**393**	**1,820**	**27.5**	19.3 U	19.4 U	20.0 U	**210**	**229**	670
Pentachlorophenol	µg/kg	19.4 U	19.9 U	19.2 U	**11.4 J**	**25.4**	19.9 U	19.3 U	19.4 U	20.0 U	**4.1 J**	**8.9 J**	360
Phenol	µg/kg	**13.8 J**	**11.1 J**	19.2 U	**52.2**	**62.8**	**29.1**	19.3 U	**13.4 J**	**10.3 J**	**71.2**	**57.3**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	5.39 U	**1.48 J**	4.80 U	**7.87**	**5.5**	**1.64**	11.4 U	**0.90**	**0.57 J**	**4.3**	**5.45**	15
Hexachlorobutadiene	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	5.39 U	2.73 U	4.80 U	1.98 U	0.683 U	0.905 U	11.4 U	1.49 U	1.22 U	1.38 U	0.841 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	19.4 U	**10.8 J**	19.2 U	**74.8**	**160**	**36.1**	19.3 U	**11.7 J**	**9.4 J**	**59**	**127**	540
Hexachlorobutadiene	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	19.4 U	19.9 U	19.2 U	18.8 U	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	19.0 U	19.6 U	28
Benzoic Acid	µg/kg	50.4 U	53.8 U	96.0 U	**186**	**388**	58.5 U	96.4 U	44.1 U	**32.3 J**	**288**	**197**	650
Benzyl Alcohol	µg/kg	**19.4 J**	19.9 U	19.2 U	**17.6 J**	19.8 U	19.9 U	19.3 U	19.4 U	20.0 U	**32.1**	19.6 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.39 J**	**0.26 J**	**1.8 J**	**4.13 J**	**0.96 J**	**0.14 J**	**0.023 J**	**0.14 J**	**0.3 J**	**0.57 J**	**0.31 J**	12

Sample Location[1]		ST-103	ST-104				ST-105		ST-106				Proposed Sediment Cleanup Level[2]
Sample Identification		ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10	ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	
Sample Date		10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18	10/26/18	10/26/18	10/26/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	
Sample Type		Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**1.38 J**	1.88 J	**7.07 J**	**39.2 J**	27.8 J	3.04 J	**0.039 J**	1.78 J	4.99 J	7.85 J	7.14 J	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	0.98 U	0.96 U	0.98 U	0.97 U	1.96 U	0.99 U	0.96 U	0.99 U	0.97 U	0.99 U	1.93 U	NE
4,4'-DDE	µg/kg	0.98 U	0.96 U	0.98 U	0.97 U	1.96 U	0.99 U	0.96 U	0.99 U	0.97 U	0.99 U	1.93 U	NE
4,4'-DDT	µg/kg	0.98 U	0.96 U	0.98 U	1.46 U	1.96 U	0.99 U	0.96 U	0.99 U	0.97 U	0.99 U	1.93 U	NE
Total DDT (4,4 isomers)	µg/kg	0.980 U	0.960 U	0.980 U	1.46 U	1.96 U	0.990 U	0.960 U	0.990 U	0.970 U	0.990 U	1.93 U	NE
Aldrin	µg/kg	0.49 U	0.48 U	0.49 U	0.49 U	0.98 U	0.50 U	0.48 U	0.50 U	0.48 U	0.49 U	0.96 U	NE
Alpha-Chlordane (cis)	µg/kg	0.49 U	0.48 U	0.49 U	0.49 U	0.98 U	0.50 U	0.48 U	0.50 U	0.48 U	0.49 U	0.96 U	NE
Beta or Gamma-Chlordane (trans	µg/kg	0.49 U	0.48 U	0.49 U	0.49 U	0.98 U	9.91 U	0.48 U	0.50 U	0.48 U	0.49 U	0.96 U	NE
Chlordane (Total)	µg/kg	0.980 U	0.960 U	0.980 U	0.970 U	98.0 U	9.91 U	0.960 U	0.990 U	0.970 U	0.990 U	1.93 U	NE
Dieldrin	µg/kg	0.98 U	0.96 U	0.98 U	0.97 U	1.96 U	0.99 U	0.96 U	0.99 U	0.97 U	0.99 U	1.93 U	NE
Heptachlor	µg/kg	0.49 U	0.48 U	0.49 U	0.49 U	5.88 U	0.50 U	0.48 U	0.50 U	0.48 U	0.49 U	0.96 U	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		ST-103	ST-104				ST-105		ST-106				Proposed Sediment Cleanup Level[2]
Sample Identification		ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10	ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	
Sample Date		10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18	10/26/18	10/26/18	10/26/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	
Sample Type		Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-107			ST-108			ST-109			South DMMU Area		Proposed Sediment Cleanup Level[2]
Sample Identification		ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3	ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	
Sample Date		10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/23/18	10/23/18	
Sample Interval (dbm)		0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	
Sample Type		Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	<1	<1	<1	5	30	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	1.14	0.540	0.230	1.33	5.20	0.150	3.80	3.60	0.090	1.27	1.02	NE
Total Volatile Solids (TVS)	Percent	6.24	1.16	1.00	8.34	15.54	0.86	12.85	7.79	0.86	3.21 J	3.83 J	NE
Total Solids (TS)	Percent	56.6	82.8	84.2	53.2	58.1	80.4	49.9	58.3	79.6	72.2	72.0	NE
Total Ammonia	mg-N/kg	12.80	4.48	3.50	13.10	73.90	13.30	10.50	50.60	8.22	5.47	11.90	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	1,260	2.44	1.79	1,980	940	1.21 U	774	114 J	1.35 J	124	13.4	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	3.4	6.3	0.7	19.5	7.5	0.7	15.8	8.0	0.2	2.1	1.2	NE
Very Coarse Sand	%	3.3	4.3	3.2	12.8	6.0	0.6	16.7	3.3	0.4	1.5	2.9	NE
Coarse Sand	%	4.5	17.0	21.1	10.5	5.9	2.2	13.5	2.7	1.8	8.2	10.6	NE
Medium Sand	%	8.9	35.6	50.8	10.0	10.8	20.2	11.3	9.0	17.1	28.5	25.5	NE
Fine Sand	%	33.4	14.8	14.0	16.3	29.9	65.0	15.4	27.9	67.5	33.4	24.9	NE
Very Fine Sand	%	31.3	7.8	3.2	15.5	8.7	6.4	14.0	7.1	6.8	13.4	15.7	NE
Coarse Silt	%	7.1	4.9	1.8	5.7	3.1	1.8	2.2	4.1	2.8	4.0	5.3	NE
Medium Silt	%	4.7	2.9	1.1	6.2	6.6	0.8	5.7	12.4	1.1	2.0	4.0	NE
Fine Silt	%	0.3	1.5	0.8	0.4	5.5	0.6	0.7	7.0	0.6	2.2	2.8	NE
Very Fine Silt	%	0.1	1.2	0.7	0.1	4.2	0.5	0.6	5.1	0.5	1.0	1.8	NE
Clay	%	3.1	3.8	2.5	3.2	11.7	1.3	4.0	13.3	1.3	3.7	5.4	NE
Total Fines	%	15.2	14.3	7.0	15.4	31.1	5.0	13.2	41.9	6.3	12.8	19.2	NE
Metals													
Arsenic	mg/kg	5.15	3.59	3.20	15	8.26	2.8	15.2	8.1	2.38	3.02	3.62	57
Cadmium	mg/kg	0.43	0.16	0.10 J	0.74	1.74	0.05 J	1.14	0.57	0.05 J	0.18	0.32	5.1
Chromium	mg/kg	31.6	23.7	23.70	31.3	32.8	19.4	14.9	37.7	17.4	29.3	35.6	260
Copper	mg/kg	27	12.4	10.5	30.6	49.9	6.39	28.9	59.5	5.05	19.3	28.9	390
Lead	mg/kg	9.75	4.38	1.99	21.9	94.7	3.84 J	22	67.3	2.20 J	10.6	25.7	450
Mercury	mg/kg	0.0326 J	0.0261 J	0.0172 J	0.0293 J	0.176	0.0117 J	0.0399 J	0.295	0.00746 J	0.0393	0.0548	0.41
Silver	mg/kg	0.07 J	0.04 J	0.03 J	0.08 J	0.20 J	0.23 U	0.08 J	0.16 J	0.24 U	0.06 J	0.08 J	6.1
Zinc	mg/kg	62.4	31.2	30.4	131	904	26.9	150	99.1	22.1	47	52.5	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	54.3 J	11.9 J	2.16 U	190 J	70 J	103 J	99.2 J	221 J	201 J	27.1 J	67.8 J	370
2-Methylnaphthalene	mg/kg OC	4.25	1.04	2.16 U	12.2	4.83	7.6	9.45	9.36	102	2.96	6.06	38
Acenaphthene	mg/kg OC	7.12 J	1.1 J	2.16 U	24.2 J	8.73 J	11.7 J	15.4 J	35 J	77.9 J	2.91 J	5.76 J	16

Sample Location[1]		ST-107			ST-108			ST-109			South DMMU Area		Proposed Sediment Cleanup Level[2]
Sample Identification		ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3	ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	
Sample Date		10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/23/18	10/23/18	
Sample Interval (dbm)		0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	
Sample Type		Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	**2 J**	0.915 UJ	2.16 U	**2.37 J**	0.337 J	1.69 J	3.18 J	1.99 J	2.68 J	**0.929 J**	**2.08 J**	66
Anthracene	mg/kg OC	**8.36**	**1.34**	2.16 U	**24**	6.31	15.3	10.9	31.9	2.29 J	**3.28**	**6.14**	220
Fluorene	mg/kg OC	**6.47**	**1.45**	2.16 U	**23**	10.3	13.5	12.1	35	2.99 J	**2.87**	**5.78**	23
Naphthalene	mg/kg OC	**10.4 J**	**2.81 J**	2.16 U	**39 J**	9.29 J	16.1 J	35 J	39 J	109 J	**7.23 J**	**28.5 J**	99
Phenanthrene	mg/kg OC	**20**	**5.17**	2.16 U	**80**	35	44.3	22.7	78.1	6.8	**9.84**	**19.5**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	619 J	64.1 J	4.96 U	2,500 J	**3,640 J**	**154 J**	**3,770 J**	**7,950 J**	**181 J**	344 J	692 J	5,200
2-Methylnaphthalene	µg/kg	48.5	5.63	4.96 U	162	**251**	**11.4**	**359**	**337**	**91.7**	37.6	61.8	670
Acenaphthene	µg/kg	81.2 J	5.95 J	4.96 UJ	322 J	**454 J**	**17.6 J**	**587 J**	**1,260 J**	**70.1 J**	37.0 J	58.8 J	500
Acenaphthylene	µg/kg	22.8 J	4.94 UJ	4.96 UJ	31.5 J	**17.5 J**	**2.54 J**	**121 J**	**71.6 J**	**2.41 J**	11.8 J	21.2 J	1,300
Anthracene	µg/kg	95.3	7.26	4.96 U	320	**328**	**23**	**415**	**1,150**	**2.06 J**	41.6	62.6	960
Fluorene	µg/kg	73.8	7.81	4.96 U	310	**533**	**20.2**	**458**	**1,260**	**2.69 J**	36.4	59	540
Naphthalene	µg/kg	118 J	15.2 J	4.96 UJ	520 J	**483 J**	**24.1 J**	**1,330 J**	**1,400 J**	**97.8 J**	91.8 J	291 J	2,100
Phenanthrene	µg/kg	228	27.9	4.96 U	1000	**1820**	**66.4**	**861**	**2,810**	**6.12**	125	199	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**200**	**9.76**	--	**570 J**	64.2 J	117 J	274 J	235 J	17 J	**62.4 J**	**90 J**	960
Benzo(a)anthracene	mg/kg OC	**15.4**	**0.607 J**	2.16 U	**39.8**	4.3	8.4	26	19.7	1.28 J	**4.51**	**7.55**	110
Benzo(a)pyrene	mg/kg OC	**11.1 J**	**0.469 J**	2.16 U	**23.6 J**	1.75 J	3.54 J	16.9 J	5.44 J	1.11 J	**2.78 J**	**4.55 J**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**25**	**1.2 J**	4.32 U	**61.0**	4.0	8.4	43.7	12.3	10.7 U	**7.23**	**9.52**	230
Benzo(g,h,i)perylene	mg/kg OC	**5.63**	0.915 U	2.16 U	**10.2**	0.9	1.67 J	6.0	2.86	1.26 J	**1.56**	**2.75**	31
Chrysene	mg/kg OC	**23.8**	**1.05**	2.16 U	**184**	5.4	8.7	44.5	24.8	1.68 J	**6.16**	**7.62**	110
Dibenzo(a,h)anthracene	mg/kg OC	**2.02 J**	0.915 UJ	2.16 U	**4.65 J**	0.383 J	4.35 J	2.36 J	1.03 J	5.33 UJ	**0.827 J**	**1.23 J**	12
Fluoranthene	mg/kg OC	**40**	**3.31**	2.16 U	**130**	26.7	44.5	72.6	101	6.06	**18**	**25.4**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	**5.86**	0.915 U	2.16 U	**11.7**	0.9	1.65 J	7.2	2.71	5.33 U	**1.46**	**2.39**	34
Pyrene	mg/kg OC	**46.1**	**3.13**	2.16 U	**105**	19.8	35.1	54.2	65.6	5.58	**19.9**	**29**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	2000	52.7	9.93 U	7,580 J	**3,340 J**	**175 J**	**10,400 J**	**8,470 J**	**15.3 J**	792 J	918 J	12,000
Benzo(a)anthracene	µg/kg	176	3.28 J	4.96 U	529	**222**	**12.6**	**989**	**708**	**1.15 J**	57.3	77	1,300
Benzo(a)pyrene	µg/kg	127 J	2.53 J	4.96 UJ	314 J	**90.8 J**	**5.31 J**	**642 J**	**196 J**	**1.00 J**	35.3 J	46.4 J	1,600
Benzofluoranthenes[6] (Total)	µg/kg	290	6.48 J	9.93 U	810	**207**	**12.6**	**1,660**	**442**	9.60 U	91.8	97.1	3,200
Benzo(g,h,i)perylene	µg/kg	64.2	4.94 U	4.96 U	136	**48.4**	**2.50 J**	**229**	**103**	**1.13 J**	19.8	28	670
Chrysene	µg/kg	271	5.65	4.96 U	2,450	**282**	**13.1**	**1,690**	**892**	**1.51 J**	78.2	77.7	1,400
Dibenzo(a,h)anthracene	µg/kg	23.0 J	4.94 UJ	4.96 UJ	61.8 J	**19.9 J**	**6.52 J**	**89.6 J**	**37.0 J**	4.80 UJ	10.5 J	12.5 J	230
Fluoranthene	µg/kg	460	17.9	4.96 U	1,730	**1,390**	**66.8**	**2,760**	**3,630**	**5.45**	228	259	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	66.8	4.94 U	4.96 U	155	**47**	**2.47 J**	**272**	**97.5**	4.80 U	18.6	24.4	600
Pyrene	µg/kg	526	16.9	4.96 U	1,390	**1,030**	**52.7**	**2,060**	**2,360**	**5.02**	253	296	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	3.1
Hexachlorobenzene	mg/kg OC	0.0440 U	0.0930 U	0.150 U	0.0360 U	0.0100 U	0.310 U	0.0130 U	0.0230 U	0.530 U	0.0390 U	0.0470 U	0.38

Sample Location[1]		ST-107			ST-108			ST-109			South DMMU Area		Proposed Sediment Cleanup Level[2]
Sample Identification		ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3	ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	
Sample Date		10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/23/18	10/23/18	
Sample Interval (dbm)		0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	
Sample Type		Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	110
Hexachlorobenzene	µg/kg	0.50 U	0.50 U	0.35 U	0.48 U	0.52 U	0.47 U	0.49 U	0.81 U	0.48 U	0.49 U	0.48 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	4.38 U	9.15 U	21.7 U	**19.5**	9.52 U	**19.8**	**6.1**	1.39 U	53.0 U	3.78 U	4.85 U	47
Butyl Benzyl Phthalate	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	4.9
Dibutyl Phthalate	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	**32.0**	0.526 U	0.556 U	**64.7**	1.51 U	1.94 U	220
Diethyl Phthalate	mg/kg OC	**1.7**	3.65 U	8.65 U	1.6	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	61
Dimethyl Phthalate	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	53
Di-N-Octyl Phthalate	mg/kg OC	**5.0**	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	49.9 U	49.4 U	49.8 U	**259**	495 U	**29.7 J**	**231**	50.0 U	47.7 U	48.0 U	49.5 U	1,300
Butyl Benzyl Phthalate	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	63
Dibutyl Phthalate	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	**48 J**	20.0 U	20.0 U	**58.2 J**	19.2 U	19.8 U	1,400
Diethyl Phthalate	µg/kg	**19.5**	19.7 U	19.9 U	21.2	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	200
Dimethyl Phthalate	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	71
Di-N-Octyl Phthalate	µg/kg	**57.3**	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	24.9 U	24.7 U	24.9 U	**15.1 J**	**69.5 J**	24.9 U	24.9 U	**119**	**12.1 J**	**2.5 J**	**6.9 J**	29
2-Methylphenol (o-Cresol)	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	63
4-Methylphenol (p-Cresol)	µg/kg	74.3	19.7 U	19.9 U	**629**	**14,900**	**113**	**786**	215	19.1 U	**94.9**	**681**	670
Pentachlorophenol	µg/kg	20.0 U	19.7 U	19.9 U	**4.8 J**	198 U	19.9 U	**5.6 J**	20.0 U	19.1 U	13.7 J	**9.8 J**	360
Phenol	µg/kg	**78.7**	19.7 U	19.9 U	**170**	**200**	19.9 U	**141**	**45.7**	19.1 U	**54**	**65.2**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**6.8**	3.65 U	8.65 U	**96.2**	**31.3**	**20.5**	**34.5**	**30.8**	21.2 U	**3.65**	**6.44**	15
Hexachlorobutadiene	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	1.75 U	3.65 U	8.65 U	1.50 U	3.81 U	13.3 U	0.526 U	0.556 U	21.2 U	1.51 U	1.94 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**77**	19.7 U	19.9 U	**1,280**	**1,630**	**30.7**	**1,310**	**1,110**	19.1 U	**46.3**	**65.7**	540
Hexachlorobutadiene	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	19.1 U	19.2 U	19.8 U	28
Benzoic Acid	µg/kg	**61.2 J**	98.7 U	99.6 U	**77.8 J**	989 U	**18.8 J**	**126**	99.9 U	95.4 U	203 U	233 U	650
Benzyl Alcohol	µg/kg	20.0 U	19.7 U	19.9 U	20.0 U	198 U	19.9 U	20.0 U	20.0 U	**14.6 J**	19.2 U	19.8 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.64 J**	**0.3 J**	**0.016 J**	**0.44 J**	**0.93 J**	**0.88 J**	**2 J**	**0.0087 J**	**0.012 J**	**0.04 J**	**2.6 J**	12

Sample Location[1]		ST-107			ST-108			ST-109			South DMMU Area		Proposed Sediment Cleanup Level[2]
Sample Identification		ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3	ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	
Sample Date		10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/23/18	10/23/18	
Sample Interval (dbm)		0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	
Sample Type		Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	7.28 J	1.63 J	0.037 J	5.8 J	48.4 J	1.32 J	74.2 J	0.31 J	0.011 J	0.51 J	26.1 J	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	0.99 U	1.00 U	0.71 U	0.97 U	**18.8**	0.95 U	0.98 U	1.62 U	0.96 U	0.98 U	0.96 U	NE
4,4'-DDE	µg/kg	0.99 U	1.00 U	0.71 U	0.97 U	1.03 U	0.95 U	0.98 U	1.62 U	0.96 U	0.98 U	0.96 U	NE
4,4'-DDT	µg/kg	0.99 U	1.00 U	0.71 U	0.97 U	61.9 U	0.95 U	**3.09**	1.62 U	0.96 U	0.98 U	0.96 U	NE
Total DDT (4,4 isomers)	µg/kg	0.990 U	1.00 U	0.710 U	0.970 U	**18.8**	0.950 U	**3.09**	1.62 U	0.960 U	0.980 U	0.960 U	NE
Aldrin	µg/kg	0.50 U	0.50 U	0.35 U	0.48 U	0.52 U	0.47 U	0.49 U	0.81 U	0.48 U	0.49 U	0.48 U	NE
Alpha-Chlordane (cis)	µg/kg	0.50 U	0.50 U		0.48 U	7.74 U	0.47 U	0.49 U	0.81 U	0.48 U	0.49 U	0.48 U	NE
Beta or Gamma-Chlordane (trans	µg/kg	0.50 U	0.50 U		0.48 U	7.23 U	1.95	0.49 U	0.81 U	0.48 U	0.49 U	0.48 U	NE
Chlordane (Total)	µg/kg	0.990 U	1.00 U	0.710 U	0.970 U	9.29 U	**1.95**	0.980 U	1.62 U	0.960 U	0.980 U	0.960 U	NE
Dieldrin	µg/kg	0.99 U	1.00 U	0.71 U	0.97 U	1.03 U	0.95 U	0.98 U	1.62 U	0.96 U	0.98 U	0.96 U	NE
Heptachlor	µg/kg	0.50 U	0.50 U	0.35 U	0.48 U	11.4 U	0.47 U	0.49 U	0.81 U	0.48 U	0.49 U	0.48 U	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		ST-107			ST-108			ST-109			South DMMU Area		Proposed Sediment Cleanup Level[2]
Sample Identification		ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3	ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	
Sample Date		10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/23/18	10/23/18	
Sample Interval (dbm)		0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	
Sample Type		Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		South DMMU Area					North DMMU Area	MAF-01					Proposed Sediment Cleanup Level[2]
Sample Identification		DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01	MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_2-4	
Sample Date		10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/15	10/20/15	11/11/15	11/11/15	11/11/15	
Sample Interval (dbm)		5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	<1	<1	<1	<5	<5	**100**	**100**	**100**	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**1.47**	**2.86**	**3.34**	**1.53**	**0.810**	**5.68**	**1.22**	**1.11**	**14.1 J**	**4.32 J**	--	NE
Total Volatile Solids (TVS)	Percent	**4.36 J**	**4.98 J**	**7.12**	**4.55**	**2.61**	**15.66**	**6.2**	**5.5**	**16.3**	**15.1**	--	NE
Total Solids (TS)	Percent	**69.9**	**70.9**	**67.2**	**72.7**	**82.2**	**47.4**	**61.3**	**64.3**	**49.6**	**50.3**	--	NE
Total Ammonia	mg-N/kg	**28.60**	**32.70**	**78.60**	**85**	**11.3**	**102**	--	--	**5.04**	**4.21**	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	--	**11.70**	**14.0**	--	--	--	NE
Total Sulfide	mg/kg	1.12 U	1.15 U	**66.9 J**	**116 J**	**2.02 J**	**40.48**	--	--	**874**	**1110**	--	NE
Porewater Sulfide	mg/L	--	--	--	--	--	--	**4.36 J**	**13.0 J**	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	**7.65**	**7.68**	--	--	--	NE
Grain Size													
Gravel	%	**4.2**	**1.9**	**0.4**	**0.1**	**7.5**	**15.3**	**0.7**	**0.6**	**9**	**8.8**	--	NE
Very Coarse Sand	%	**3.9**	**3.3**	**0.6**	**0.4**	**7.0**	**5.5**	**1.5**	**1.4**	**6.5**	**6.9**	--	NE
Coarse Sand	%	**12.1**	**10.2**	**1.4**	**0.6**	**17.3**	**4.8**	**4**	**4.2**	**12.7**	**12.4**	--	NE
Medium Sand	%	**23.8**	**25.2**	**3.3**	**1.3**	**33.7**	**5**	**16.3**	**16.9**	**21.1**	**22.3**	--	NE
Fine Sand	%	**19.4**	**21.7**	**15.3**	**13.1**	**17.3**	**7.7**	**31.6**	**30.6**	**24.4**	**26.6**	--	NE
Very Fine Sand	%	**14.1**	**14.3**	**29.8**	**31.5**	**6.5**	**6.8**	**25.7**	**24.7**	**11.7**	**13.6**	--	NE
Coarse Silt	%	**6.5**	**10.0**	**20.6**	**15.4**	**3.5**	**7.8**	**10.7**	**11.6**	**7**	**0.9**	--	NE
Medium Silt	%	**4.7**	**1.6**	**9.9**	**14.9**	**2.1**	**15.6**	**4.1**	**3.6**	**2.8**	**3.5**	--	NE
Fine Silt	%	**2.5**	**2.7**	**5.1**	**7.6**	**1.4**	**5.1**	**1.5**	**1.8**	**1.3**	**1.3**	--	NE
Very Fine Silt	%	**2.3**	**2.4**	**3.9**	**4.7**	**1.4**	**7**	**0.6**	**0.8**	**0.6**	**0.4**	--	NE
Clay	%	**6.4**	**6.6**	**9.9**	**10.4**	**2.2**	**19.3**	**3.4**	**3.9**	**3**	**3.3**	--	NE
Total Fines	%	**22.5**	**23.4**	**49.3**	**53.1**	**10.6**	**54.9**	**20.2**	**21.7**	**14.7**	**9.4**	--	NE
Metals													
Arsenic	mg/kg	**3.32**	**3.67**	**4.76**	**4.46**	**3.43**	**9.68**	**23**	**19**	**20 J**	**33 J**	--	57
Cadmium	mg/kg	**0.26**	**0.23**	**0.42**	**0.34**	**0.15**	**1.44**	**0.9**	**0.9**	**0.7 J**	**1.3 J**	--	5.1
Chromium	mg/kg	**35.8**	**36**	**52.4**	**47.3**	**29.7**	**48.3**	**31.3**	**33.5**	**15 J**	**26.4 J**	--	260
Copper	mg/kg	**28.9**	**35.7**	**59.3**	**54.5**	**16.1**	**77.2**	**34.1**	**30.4**	**51.2 J**	**154 J**	--	390
Lead	mg/kg	**23**	**39.6**	**70.7 J**	**46.4**	**9.62 J**	**149**	**65**	**103**	**130**	**176**	--	450
Mercury	mg/kg	**0.0749**	**0.0906**	**0.209 J**	**0.129**	**0.0250 J**	**0.515**	**0.09**	**0.11**	**0.21**	**0.23**	--	0.41
Silver	mg/kg	**0.07 J**	**0.08 J**	**0.12 J**	**0.10 J**	**0.05 J**	**0.26 J**	**0.07 J**	0.5 U	**0.1 J**	**0.31 J**	--	6.1
Zinc	mg/kg	**52.6**	**58.3**	**74.2**	**67.4**	**39.5**	**404**	**84**	**81**	**80**	**114**	--	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**52.2 J**	**31 J**	**62 J**	**87.6**	**24.9 J**	521 J	**327 J**	**296 J**	32.8 J	186 J	--	370
2-Methylnaphthalene	mg/kg OC	**4.48**	**2.36**	**4.46**	**4.8**	**2.2**	47.4	**30**	**30**	2.7 J	17 J	--	38
Acenaphthene	mg/kg OC	**4.46 J**	**2.79 J**	**4.37 J**	**4.24**	**2.52 J**	86.6 J	**51**	**46**	5.2 J	32 J	--	16

Sample Location[1]		South DMMU Area					North DMMU Area	MAF-01					Proposed Sediment Cleanup Level[2]
Sample Identification		DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01	MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_2-4	
Sample Date		10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/15	10/20/15	11/11/15	11/11/15	11/11/15	
Sample Interval (dbm)		5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	2.01 J	0.846 J	3.08 J	5.78	0.651 J	4.79 J	6.7 J	5 J	0.6 J	3.2 J	--	66
Anthracene	mg/kg OC	5.67	3.28	2.88	4.61	2.1	35.9	20	21	3	9	--	220
Fluorene	mg/kg OC	5.41	3.3	4.8	5.1	2.5	76.0	39	40	4	23	--	23
Naphthalene	mg/kg OC	17.8 J	10.1 J	31.4 J	39.5	9.72 J	160 J	130	120	11 J	72 J	--	99
Phenanthrene	mg/kg OC	16.9	10.6	15.5	28.2	7.4	159.0	80	71	8.5	50	--	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	768 J	886 J	2,070 J	1,340	202 J	29,600 J	3,992 J	3,285 J	4,627 J	8,030 J	--	5,200
2-Methylnaphthalene	µg/kg	65.9	67.4	149	73.4	17.6	2,690	360	330	380 J	720 J	--	670
Acenaphthene	µg/kg	65.6 J	79.9 J	146 J	64.9	20.4 J	4,920 J	620	510	740 J	1,400 J	--	500
Acenaphthylene	µg/kg	29.5 J	24.2 J	103 J	88.5	5.27 J	272 J	82 J	55 J	87 J	140 J	--	1,300
Anthracene	µg/kg	83.4	93.9	96.2	70.6	17.3	2,040	250	230	400	400	--	960
Fluorene	µg/kg	79.6	94.5	160	78.1	20.6	4,300	470	400	600	990	--	540
Naphthalene	µg/kg	261 J	289 J	1,050 J	605	78.7 J	9,070 J	1,600	1,300	1,600 J	3,100 J	--	2,100
Phenanthrene	µg/kg	249	304	518	431	59.6	9,020	970	790	1,200	2,000	--	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	60 J	31.4 J	27.5 J	51.7	19.1 J	239 J	190.8 J	146 J	28.6	95.8 J	--	960
Benzo(a)anthracene	mg/kg OC	4.2	1.98	1.54	2.16	1.2	13.3	13 J	9	2.3	5.8	--	110
Benzo(a)pyrene	mg/kg OC	3.11 J	1.24 J	1.11 J	1.42	0.6	3.38 J	9.8 J	5.3 J	1.3	3.7	--	99
Benzofluoranthenes[6] (Total)	mg/kg OC	6.28	3.01	2.48	4.63	1.6	9.2	21 J	13 J	2.3	8.1	--	230
Benzo(g,h,i)perylene	mg/kg OC	2.63	1	1.12	1.35	0.574 J	1.5	5.9 J	3.1 J	0.54	2	--	31
Chrysene	mg/kg OC	5.43	2.99	2.1	3.76	1.3	20.0	20	13	2.3	7.9	--	110
Dibenzo(a,h)anthracene	mg/kg OC	0.891 J	0.43 J	0.308 J	0.454	0.9	0.377 J	4 U	1.3 U	0.19	1.3 U	--	12
Fluoranthene	mg/kg OC	20.3	11.2	10.4	20.6	7.3	118.0	67	59	8.5	32	--	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	2.14	0.906	0.749	0.837	0.436 J	1.4	4.6 J	2.4 J	0.5	1.2 J	--	34
Pyrene	mg/kg OC	16.3	8.57	7.66	16.5	5.4	76.9	52	41	11	35	--	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	900 J	897 J	919 J	791	155 J	13,600 J	2,328 J	1,620 J	4,033	4,139 J	--	12,000
Benzo(a)anthracene	µg/kg	61.7	56.7	51.3	33.1	9.93	753	160	100	330	250	--	1,300
Benzo(a)pyrene	µg/kg	45.7 J	35.5 J	37.0 J	21.8	4.48 J	192 J	120 J	59 J	190	160	--	1,600
Benzofluoranthenes[6] (Total)	µg/kg	92.3	86	82.7	70.8	13.2	525	260 J	140 J	320	350	--	3,200
Benzo(g,h,i)perylene	µg/kg	38.7	28.7	37.5	20.7	4.65 J	87.6	72 J	34 J	76	86	--	670
Chrysene	µg/kg	79.8	85.5	70	57.5	10.1	900	200	140	320	340	--	1,400
Dibenzo(a,h)anthracene	µg/kg	13.1 J	12.3 J	10.3 J	6.94	6.9	21.4 J	49 U	14 U	27	54 U	--	230
Fluoranthene	µg/kg	298	321	349	315	58.9	6,690	820	660	1,200	1,400	--	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	31.4	25.9	25	12.8	3.53 J	76.5	56 J	27 J	70	53 J	--	600
Pyrene	µg/kg	239	245	256	252	43.5	4,370	640	460	1,500	1,500	--	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	1.35 U	0.692 U	0.587 U	0.320 U	2.40 U	1.70 U	0.4 U	0.43 U	0.11 J	0.56	--	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	1.35 U	0.692 U	0.587 U	0.320 U	2.40 U	1.70 U	0.4 U	0.13 J	0.16 U	0.25 U	--	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	1.35 U	0.692 U	0.587 U	0.16	2.40 U	1.70 U	0.2 J	0.24 J	0.11 J	0.23 J	--	3.1
Hexachlorobenzene	mg/kg OC	0.0330 U	0.0170 U	0.0140 U	0.320 U	0.0600 U	0.0856 U	0.4 U	0.43 U	0.16 U	0.44	--	0.38

Sample Location[1]		South DMMU Area					North DMMU Area	MAF-01					Proposed Sediment Cleanup Level[2]
Sample Identification		DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01	MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_2-4	
Sample Date		10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/15	10/20/15	11/11/15	11/11/15	11/11/15	
Sample Interval (dbm)		5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	19.8 U	19.8 U	19.6 U	4.9 U	19.4 U	96.3 U	4.9 U	4.8 U	**16 J**	**24**	--	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	19.8 U	19.8 U	19.6 U	4.9 U	19.4 U	96.3 U	4.9 U	**1.4 J**	22 U	11 U	--	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	19.8 U	19.8 U	19.6 U	**2.4 J**	19.4 U	96.3 U	**2.4 J**	**2.7 J**	**15 J**	**9.8 J**	--	110
Hexachlorobenzene	µg/kg	0.49 U	0.48 U	0.48 U	4.9 U	0.49 U	4.86 U	4.9 U	4.8 U	22 U	**19**	--	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	**2.37 J**	1.73 U	1.46 U	**6.33**	**3.83 J**	4.24 U	**2.3 J**	**3.4 J**	**3.3 J**	**7.4 J**	--	47
Butyl Benzyl Phthalate	mg/kg OC	1.35 U	0.692 U	**1.78**	0.320 U	2.40 U	1.70 U	**0.25 J**	0.43 U	0.16 U	0.25 U	--	4.9
Dibutyl Phthalate	mg/kg OC	1.35 U	0.692 U	**8.20**	2.20 U	**30.5 J**	1.70 U	**0.72 J**	1.7 U	0.62 U	1 U	--	220
Diethyl Phthalate	mg/kg OC	1.35 U	0.692 U	0.587 U	**1.54**	2.40 U	1.70 U	2 U	1.7 U	**0.6 J**	**1.2**	--	61
Dimethyl Phthalate	mg/kg OC	1.35 U	0.692 U	0.587 U	0.320 U	2.40 U	1.70 U	2 U	1.7 U	0.62 U	**1.5**	--	53
Di-N-Octyl Phthalate	mg/kg OC	1.35 U	0.692 U	0.587 U	1.29 U	2.40 U	1.70 U	2 U	1.7 U	0.62 U	1 U	--	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	**34.8 J**	49.6 U	48.9 U	**96.9**	**31.0 J**	241 U	**28 J**	**38 J**	**470 J**	**320 J**	--	1,300
Butyl Benzyl Phthalate	µg/kg	19.8 U	19.8 U	**59.3**	4.9 U	19.4 U	96.3 U	**3.1 J**	4.8 U	22 U	11 U	--	63
Dibutyl Phthalate	µg/kg	19.8 U	19.8 U	**274**	33.6 U	**247 J**	96.3 U	**8.8 J**	19 U	88 U	44 U	--	1,400
Diethyl Phthalate	µg/kg	19.8 U	19.8 U	19.6 U	**23.6**	19.4 U	96.3 U	20 UJ	19 UJ	**80 J**	**52**	--	200
Dimethyl Phthalate	µg/kg	19.8 U	19.8 U	19.6 U	4.9 U	19.4 U	96.3 U	20 U	19 U	88 U	**66**	--	71
Di-N-Octyl Phthalate	µg/kg	19.8 U	19.8 U	19.6 U	19.7 U	19.4 U	96.3 U	20 U	19 U	88 U	44 U	--	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**10.8 J**	**8.2 J**	**24.6 J**	**17.0 J**	**3.5 J**	**438**	**10 J**	**15 J**	**56 J**	**110**	--	29
2-Methylphenol (o-Cresol)	µg/kg	19.8 U	19.8 U	19.6 U	4.9 U	19.4 U	96.3 U	**8.8 J**	**11 J**	88 U	**46**	--	63
4-Methylphenol (p-Cresol)	µg/kg	**765**	**730**	**1,920**	**1,590**	**109**	**5,130**	**330**	**390**	**3,200**	**2,500**	--	670
Pentachlorophenol	µg/kg	**8.1 J**	**4.4 J**	**19.1 J**	**12.1 J**	**8.2 J**	**10.3 J**	98 U	96 U	440 U	220 U	--	360
Phenol	µg/kg	**86.1**	**51.5**	**59**	**54.8**	**13.2 J**	**403**	**73**	**69**	**170 J**	**120 J**	--	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**6.69**	**2.9**	**5.81**	**11.6**	**2.3 J**	53	**42**	**39**	**4.4 J**	**28 J**	--	15
Hexachlorobutadiene	mg/kg OC	1.35 U	0.692 U	**6.41**	0.320 U	0.6 U	0.4 U	0.4 U	0.43 U	**0.09 J**	**1.4 J**	--	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	1.35 U	0.692 U	0.587 U	0.320 U	1.1 U	0.8 U	0.4 U	0.43 U	0.16 U	0.25 U	--	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**98.4**	**83**	**194**	**177**	**18.8 J**	**3,010**	**510**	**430**	**620 J**	**1,200 J**	--	540
Hexachlorobutadiene	µg/kg	19.8 U	19.8 U	**214**	4.9 U	4.9 U	24.1 U	4.9 U	4.8 U	**12 J**	**62 J**	--	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	19.8 U	19.8 U	19.6 U	4.9 U	9.3 U	46.1 U	4.9 U	4.8 U	22 U	11 U	--	28
Benzoic Acid	µg/kg	221 U	141 U	**409**	**216**	**68.3 J**	540 U	**80 J**	**120 J**	**340 J**	**380 J**	--	650
Benzyl Alcohol	µg/kg	19.8 U	19.8 U	**27.2**	19.7 U	**16.1 J**	71.7 U	20 U	**16 J**	88 U	44 U	--	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**1.3 J**	**1.1 J**	**1.01 J**	**0.86 J**	**0.56 J**	**0.26**	**30.2**	--	**11.6**	--	--	12

Sample Location[1]		South DMMU Area					North DMMU Area	MAF-01					Proposed Sediment Cleanup Level[2]
Sample Identification		DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01	MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_2-4	
Sample Date		10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/15	10/20/15	11/11/15	11/11/15	11/11/15	
Sample Interval (dbm)		5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	19.7 J	32.8 J	33.6 J	13.1 J	4.52 J	14.5	368	--	**1,630**	--	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	20 U	19 U	--	--	94 U	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	98 U	96 U	--	--	470 U	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	98 U	96 U	--	--	470 U	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	98 U	96 U	--	--	470 U	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	20 U	19 U	--	--	94 U	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	39 U	38 U	--	--	190 U	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	20 U	19 U	--	--	94 U	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	20 U	19 U	--	--	94 U	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	20 U	19 U	--	--	94 U	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 U	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 U	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 U	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	**260 J**	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	**1,400**	**1,200**	--	--	**7,700**	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 UJ	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	**740 J**	**410 J**	--	--	**3,200 J**	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	100 UJ	98 UJ	--	--	420 UJ	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 U	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	**95**	**100**	--	--	**1,400**	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	50 U	49 U	--	--	**440**	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	100 U	98 U	--	--	420 U	NE
Pesticides													
4,4'-DDD	µg/kg	0.98 U	0.97 U	0.96 U	1.99 U	0.98 U	9.73 U	--	--	--	--	--	NE
4,4'-DDE	µg/kg	9.80 U	0.97 U	0.96 U	1.99 U	0.98 U	9.73 U	--	--	--	--	--	NE
4,4'-DDT	µg/kg	0.98 U	0.97 U	0.96 U	1.99 U	0.98 U	9.73 U	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	9.80 U	0.970 U	0.960 U	1.99 U	0.980 U	9.73 U	--	--	--	--	--	NE
Aldrin	µg/kg	0.49 U	0.48 U	0.48 U	1.00 U	0.49 U	4.86 U	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	0.49 U	0.48 U	0.48 U	1.00 U	0.49 U	4.86 U	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	0.49 U	0.48 U	0.48 U	1.00 U	0.49 U	4.86 U	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	21.6 U	0.970 U	1.93 U	1.99 U	0.980 U	185 U	--	--	--	--	--	NE
Dieldrin	µg/kg	0.98 U	0.97 U	0.96 U	1.99 U	0.98 U	9.73 U	--	--	--	--	--	NE
Heptachlor	µg/kg	0.49 U	0.48 U	0.48 U	1.00 U	0.49 U	4.86 U	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		South DMMU Area					North DMMU Area	MAF-01					Proposed Sediment Cleanup Level[2]
Sample Identification		DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01	MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_2-4	
Sample Date		10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/15	10/20/15	11/11/15	11/11/15	11/11/15	
Sample Interval (dbm)		5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-01			MAF-02						MAF-03		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_2-4	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10	MAF-SC-03_0-2	
Sample Date		11/11/15	11/11/15	11/11/15	10/20/15	11/10/15	11/10/15	11/10/15	11/10/15	11/10/15	10/20/15	11/11/15	
Sample Interval (dbm)		4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	2 - 4 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	**100**	<1	<1	**10**	**100**	**100**	**100**	<1	<1	**50**	**100**	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**12.4 J**	**0.210 J**	**0.27 J**	**2.85**	**28.8**	--	**13.8**	**0.350 J**	**0.35 J**	**9.68**	**13.4 J**	NE
Total Volatile Solids (TVS)	Percent	**26.2**	**1.0**	**1.0**	**7.4**	**43.4**	--	**66.7**	**1.4**	**1.3**	**17.8**	**57.6**	NE
Total Solids (TS)	Percent	**38.8**	**78.0**	**76.7**	**61.5**	**30.4**	--	**30.4**	**78.7**	**78.7**	**41.5**	**22.3**	NE
Total Ammonia	mg-N/kg	--	--	--	--	**8.75**	--	--	--	--	--	**27.20**	NE
Porewater Ammonia	mg-N/L	--	--	--	**12.40**	--	--	--	--	--	**5.54**	--	NE
Total Sulfide	mg/kg	--	--	--	--	**182**	--	--	--	--	--	**6,350**	NE
Porewater Sulfide	mg/L	--	--	--	**0.05**	--	--	--	--	--	**0.30**	--	NE
Porewater pH	pH	--	--	--	**7.47**	--	--	--	--	--	**7.67**	--	NE
Grain Size													
Gravel	%	**11.9**	0.1 U	0.1 U	**2**	**11**	--	**4.3**	**5.7**	**6.8**	**17**	**24.9**	NE
Very Coarse Sand	%	**9.2**	**0.1**	**0.1**	**3.6**	**13.9**	--	**8.5**	**2.5**	**2.7**	**14.3**	**11.5**	NE
Coarse Sand	%	**16.4**	**0.4**	**0.4**	**7.4**	**19.2**	--	**14.3**	**1.7**	**1.3**	**14**	**13.8**	NE
Medium Sand	%	**20.3**	**5**	**4.8**	**20.9**	**15**	--	**16**	**7.3**	**7.1**	**17.8**	**10.5**	NE
Fine Sand	%	**17.5**	**62.3**	**61.5**	**36.9**	**12.5**	--	**12.3**	**60.7**	**60**	**17.3**	**8.6**	NE
Very Fine Sand	%	**9.1**	**19.7**	**19.8**	**20.2**	**7.6**	--	**7.5**	**11.9**	**10**	**8**	**4.2**	NE
Coarse Silt	%	**4.3**	**3.9**	**4.1**	**3.6**	**5.5**	--	**6.3**	**3.4**	**5**	**2.5**	**9.4**	NE
Medium Silt	%	**3.2**	**2.1**	**2.1**	**2**	**4.3**	--	**17.6**	**1.6**	**1.6**	**2.2**	**3.4**	NE
Fine Silt	%	**1.9**	**1.6**	**1.8**	**1**	**2**	--	**3.7**	**1.6**	**1.5**	**1.2**	**1.7**	NE
Very Fine Silt	%	**1**	**1.3**	**1.3**	**0.2**	**1**	--	**1.4**	**1**	**1.2**	**0.8**	**1.3**	NE
Clay	%	**5.2**	**3.8**	**4.1**	**2.2**	**8.1**	--	**7.9**	**2.5**	**2.8**	**4.8**	**10.7**	NE
Total Fines	%	**15.6**	**12.6**	**13.3**	**8.9**	**20.8**	--	**37**	**10.3**	**12.1**	**11.6**	**26.5**	NE
Metals													
Arsenic	mg/kg	**22.9 J**	**7**	**8**	**18**	**20**	--	**14.5 J**	**10**	**20**	**60**	**11.8 J**	57
Cadmium	mg/kg	**1**	**0.05 J**	**0.092 J**	**0.9**	**0.7**	--	**0.535 J**	0.6 U	0.7 U	**1.8**	**0.791 J**	5.1
Chromium	mg/kg	**18**	**26.9**	**27.9**	**21.4**	**35 J**	--	**40 J**	**19 J**	**27 J**	**19**	**30**	260
Copper	mg/kg	**64**	**8.1**	**8.3**	**31.1**	**90.8**	--	**123**	**7.1 J**	**9 J**	**42.9**	**63.3**	390
Lead	mg/kg	**80**	**4**	**4**	**27**	**45**	--	**37**	**3.17 J**	**4.45 J**	**115**	**122**	450
Mercury	mg/kg	**0.23**	**0.0074 J**	**0.008 J**	**0.2**	**0.0396 J**	--	**0.22**	**0.0101 J**	**0.0055 J**	**0.22**	**0.3**	0.41
Silver	mg/kg	2 U	0.4 U	0.4 U	0.5 U	0.9 U	--	1 U	0.9 U	1 U	**0.39 J**	1 U	6.1
Zinc	mg/kg	**102**	**27**	**30**	**97**	**833 J**	--	**1,010 J**	**25 J**	**32 J**	**98**	**464 J**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	68.7	13.7 J	3.5 J	**154**	30.7	--	114	89.6 J	270 J	132	346 J	370
2-Methylnaphthalene	mg/kg OC	6	1.6 J	0.9 J	**12**	2.2	--	8.7	6.6 J	11 J	9.4	47.0 J	38
Acenaphthene	mg/kg OC	9.7	1.8 J	1.8 U	**30**	3	--	9.4	17 J	31 J	28	40	16

Sample Location[1]		MAF-01			MAF-02						MAF-03		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_2-4	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10	MAF-SC-03_0-2	
Sample Date		11/11/15	11/11/15	11/11/15	10/20/15	11/10/15	11/10/15	11/10/15	11/10/15	11/10/15	10/20/15	11/11/15	
Sample Interval (dbm)		4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	2 - 4 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	2.9	2.3 U	1.8 U	3.1	1.1	--	2.7	1.1 J	2.1	1.2	7	66
Anthracene	mg/kg OC	2	2.3 U	1.8 U	11	0.3	--	0.2	9 J	19 J	18	7	220
Fluorene	mg/kg OC	6.1	1.5 J	1.8 U	19	1.5	--	3.7	9.5 J	18 J	17	57 J	23
Naphthalene	mg/kg OC	39	6.7 J	2.4 J	56	22	--	94	40 J	180 J	44	160	99
Phenanthrene	mg/kg OC	9.7	3.7	1.0 J	40	3	--	3.3	13 J	24 J	25	72	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	8,520	28.5 J	9.3 J	4,390	8,840	--	15,700	312.8 J	960 J	12,820	46,400 J	5,200
2-Methylnaphthalene	µg/kg	700	3.4 J	2.4 J	350	620	--	1,200	23 J	39 J	910	6,300 J	670
Acenaphthene	µg/kg	1,200	3.8 J	4.8 U	850	850	--	1,300	59 J	110 J	2,700	6,000	500
Acenaphthylene	µg/kg	360	4.8 U	4.8 U	89	310	--	370	3.8 J	7.4	120	1,000	1,300
Anthracene	µg/kg	200	4.8 U	4.8 U	320	100	--	26	30 J	66 J	1,700	1,000	960
Fluorene	µg/kg	760	3.1 J	4.8 U	530	420	--	510	33 J	62 J	1,600	7,700 J	540
Naphthalene	µg/kg	4,800	14 J	6.5 J	1,600	6,300	--	13,000	140 J	630 J	4,300	21,000	2,100
Phenanthrene	µg/kg	1,200	7.6	2.8 J	1,000	860	--	450	47 J	85 J	2,400	9,700	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	13.1 J	5.0 J	1.8 U	67.0 J	2.4 J	--	1.3	101 J	145.4 J	165.9	30.9 J	960
Benzo(a)anthracene	mg/kg OC	0.44 J	2.3 U	1.8 U	4.0	0.1	--	0.1 U	9	10	12	1 J	110
Benzo(a)pyrene	mg/kg OC	0.69 U	2.3 U	1.8 U	3.0	0.1	--	0.1 U	5.2	5.1	4.3	2.1 U	99
Benzofluoranthenes[6] (Total)	mg/kg OC	0.48 J	2.3 U	1.8 U	7.0	0.2	--	0.1 U	9.7	9.3	9.4	2.1 U	230
Benzo(g,h,i)perylene	mg/kg OC	0.69 U	2.3 U	1.8 U	1.8	0.05	--	0.1 U	3	3	2	2.1 U	31
Chrysene	mg/kg OC	0.6 J	2.3 U	1.8 U	4.9	0.2	--	0.1 U	12	13	11	1 J	110
Dibenzo(a,h)anthracene	mg/kg OC	0.69 U	2.3 U	1.8 U	0.4 J	0.01 J	--	0.1 U	1.3 U	0.9 J	0.7	2.1 U	12
Fluoranthene	mg/kg OC	6.5	2.8	1.8 U	25.0	1.2	--	0.7	34.0 J	59 J	74	17	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	0.69 U	2.3 U	1.8 U	1.4	0.0	--	0.1 U	1.9	2.2	1.8	2.1 U	34
Pyrene	mg/kg OC	5	2.2 J	1.8 U	20.0	0.7	--	0.6	26	42	50	11	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	1,624 J	10.4 J	4.8 U	1,910 J	704.1 J	--	176	352.6 J	514.8 J	16,060	4,140 J	12,000
Benzo(a)anthracene	µg/kg	55 J	4.8 U	4.8 U	100	28	--	16 U	30	37	1,200	140 J	1,300
Benzo(a)pyrene	µg/kg	86 U	4.8 U	4.8 U	85	18	--	16 U	18	18	420	280 U	1,600
Benzofluoranthenes[6] (Total)	µg/kg	59 J	4.8 U	4.8 U	200	45	--	16 U	34	33	910	280 U	3,200
Benzo(g,h,i)perylene	µg/kg	86 U	4.8 U	4.8 U	52	13	--	16 U	10	10	190	280 U	670
Chrysene	µg/kg	80 J	4.8 U	4.8 U	140	48	--	16 U	43	46	1,100	200 J	1,400
Dibenzo(a,h)anthracene	µg/kg	86 U	4.8 U	4.8 U	12 J	3.8 J	--	16 U	4.7 U	3.1 J	65	280 U	230
Fluoranthene	µg/kg	810	5.8	4.8 U	720	340	--	100	120 J	210 J	7,200	2,300	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	86 U	4.8 U	4.8 U	41	8.3	--	16 U	6.6	7.7	170	280 U	600
Pyrene	µg/kg	620	4.6 J	4.8 U	560	200	--	76	91	150	4,800	1,500	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.017 U	--	0.12 U	1.3 U	1.4 U	0.065	1.2 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.011 J	--	0.12 U	1.3 U	1.4 U	0.024 J	1.2 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.1 J	2.3 U	1.8 U	0.11 J	0.026	--	0.28	1.3 U	1.4 U	0.11	1.2 U	3.1
Hexachlorobenzene	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.017 U	--	0.43	1.3 U	1.4 U	0.05 U	1.2 U	0.38

Sample Location[1]		MAF-01			MAF-02						MAF-03		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_2-4	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10	MAF-SC-03_0-2	
Sample Date		11/11/15	11/11/15	11/11/15	10/20/15	11/10/15	11/10/15	11/10/15	11/10/15	11/10/15	10/20/15	11/11/15	
Sample Interval (dbm)		4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	2 - 4 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	17 U	4.8 U	4.8 U	4.7 U	4.9 U	--	16 U	4.7 U	4.9 U	**6.3**	160 UJ	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	17 U	4.8 U	4.8 U	4.7 U	**3.2 J**	--	16 U	4.7 U	4.9 U	**2.3 J**	160 UJ	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	**13 J**	4.8 U	4.8 U	**3.0 J**	**7.5**	--	**39**	4.7 U	4.9 U	**11**	160 U	110
Hexachlorobenzene	µg/kg	17 U	4.8 U	4.8 U	4.7 U	4.9 U	--	**59**	4.7 U	4.9 U	4.8 U	160 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	2.8 U	**15**	18 U	**1 J**	**2.9**	--	**5.5**	**13 J**	14 U	0.5 U	**16 J**	47
Butyl Benzyl Phthalate	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.017 U	--	**0.28**	1.3 U	1.4 U	0.05 U	1.2 U	4.9
Dibutyl Phthalate	mg/kg OC	1.1 U	9.1 U	7.1 U	0.67 U	0.07 U	--	1.4 U	**3.4 J**	**2.7 J**	0.2 U	4.9 U	220
Diethyl Phthalate	mg/kg OC	1.1 U	**10**	7.1 U	0.67 U	**0.07**	--	1.4 U	**6**	5.4 U	0.2 U	**5.8 J**	61
Dimethyl Phthalate	mg/kg OC	1.1 U	9.1 U	7.1 U	0.67 U	0.07 U	--	1.4 U	5.4 U	5.4 U	0.2 U	4.9 U	53
Di-N-Octyl Phthalate	mg/kg OC	1.1 U	9.1 U	7.1 U	0.67 U	**0.19**	--	1.4 U	5.4 U	5.4 U	0.2 U	4.9 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	350 U	**31 J**	48 U	**30 J**	**840**	--	**760**	**44 J**	49 U	48 U	**2,200 J**	1,300
Butyl Benzyl Phthalate	µg/kg	17 U	4.8 U	4.8 U	4.7 U	4.9 U	--	**39**	4.7 U	4.9 U	4.8 U	160 U	63
Dibutyl Phthalate	µg/kg	140 U	19 U	19 U	19 U	20 U	--	190 U	**12 J**	**9.7 J**	19 U	650 U	1,400
Diethyl Phthalate	µg/kg	140 U	**20**	19 U	19 UJ	**20**	--	190 U	**20**	19 U	19 UJ	**780 J**	200
Dimethyl Phthalate	µg/kg	140 U	19 U	19 U	19 U	20 U	--	190 U	19 U	19 U	19 U	650 U	71
Di-N-Octyl Phthalate	µg/kg	140 U	19 U	19 U	19 U	**56**	--	190 U	19 U	19 U	19 U	650 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**380**	24 U	24 U	**11 J**	**130**	--	**1,000**	**13 J**	**15 J**	**320**	**1,800 J**	29
2-Methylphenol (o-Cresol)	µg/kg	**83 J**	19 U	19 U	**10 J**	**290**	--	**930**	19 U	19 U	**63**	**620 J**	63
4-Methylphenol (p-Cresol)	µg/kg	**8,500**	**19**	19 U	**150**	**1,800**	--	**16,000**	**22**	**15 J**	**2,400**	**51,000 J**	670
Pentachlorophenol	µg/kg	690 U	96 U	95 U	95 U	97 U	--	970 U	94 U	97 U	97 U	3,300 U	360
Phenol	µg/kg	**130 J**	19 U	19 U	**71**	**430**	--	**420**	19 U	19 U	**120**	**2,300 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**6.9**	**2.2 J**	1.8 U	**24**	**1.6**	--	**3.3**	**9.7**	**15**	**32**	**46 J**	15
Hexachlorobutadiene	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.017 U	--	**1.2**	1.3 U	1.4 U	**0.02 J**	1.2 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.14 U	2.3 U	1.8 U	0.16 U	0.017 U	--	0.12 U	1.3 U	1.4 U	0.05 U	1.2 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**860**	**4.6 J**	4.8 U	**680**	**470**	--	**450**	**34**	**52**	**3,100**	**6,200 J**	540
Hexachlorobutadiene	µg/kg	17 U	4.8 U	4.8 U	4.7 U	4.9 U	--	**170**	4.7 U	4.9 U	**1.6 J**	160 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	17 U	4.8 U	4.8 U	4.7 U	4.9 U	--	16 U	4.7 U	4.9 U	4.8 U	160 U	28
Benzoic Acid	µg/kg	**890 J**	190 U	190 U	**64 J**	**200**	--	1,900 U	190 UJ	190 U	190 U	**7,100 J**	650
Benzyl Alcohol	µg/kg	140 U	19 U	19 U	19 U	**73**	--	190 U	19 U	19 UJ	19 U	650 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	--	--	--	--	--	--	--	**2.87 J**	**22.2 J**	12

Sample Location[1]		MAF-01			MAF-02						MAF-03		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_2-4	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10	MAF-SC-03_0-2	
Sample Date		11/11/15	11/11/15	11/11/15	10/20/15	11/10/15	11/10/15	11/10/15	11/10/15	11/10/15	10/20/15	11/11/15	
Sample Interval (dbm)		4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	2 - 4 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	--	--	--	--	--	--	--	**278 J**	**2,980 J**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	19 U	--	38 U	--	--	--	**16 J**	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	95 U	--	190 U	--	--	--	97 U	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	95 U	--	190 U	--	--	--	97 U	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	95 U	--	190 U	--	--	--	97 U	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	19 U	--	**720**	--	--	--	**82**	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	38 U	--	76 U	--	--	--	39 U	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	19 U	--	38 U	--	--	--	19 U	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	19 U	--	38 U	--	--	--	19 U	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	19 U	--	38 U	--	--	--	19 U	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	99 UJ	--	190 U	--	--	--	2,900 U	--	NE
Pimaric Acid	µg/kg	--	--	--	99 U	--	190 U	--	--	--	2,900 U	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	99 U	--	190 U	--	--	--	2,900 U	--	NE
Isopimaric Acid	µg/kg	--	--	--	99 UJ	--	**210**	--	--	--	2,900 U	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	**830**	--	**17,000**	--	--	--	**3,900**	--	NE
Palustric Acid	µg/kg	--	--	--	99 UJ	--	190 UJ	--	--	--	2,900 U	--	NE
Abietic Acid	µg/kg	--	--	--	**140 J**	--	**900 J**	--	--	--	**5,100 J**	--	NE
Neoabietic Acid	µg/kg	--	--	--	99 UJ	--	190 UJ	--	--	--	2,900 UJ	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	99 U	--	190 U	--	--	--	2,900 U	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	49 U	--	96 U	--	--	--	1,500 U	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	49 U	--	**97**	--	--	--	1,500 U	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	99 U	--	190 U	--	--	--	2,900 U	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-01			MAF-02						MAF-03		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_2-4	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10	MAF-SC-03_0-2	
Sample Date		11/11/15	11/11/15	11/11/15	10/20/15	11/10/15	11/10/15	11/10/15	11/10/15	11/10/15	10/20/15	11/11/15	
Sample Interval (dbm)		4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	2 - 4 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-03	MAF-SC-03_2-4	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[9]	MAF-SC-DUP-05	MAF-SC-04_2-4[10]	MAF-SC-04_4-6	MAF-SC-04_8-10	
Sample Date		11/11/15	11/11/15	11/11/15	11/11/15	11/11/2015	10/20/15	10/26/15	10/26/15	10/26/15	10/26/15	10/26/15	
Sample Interval (dbm)		0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	**100**	**100**	**100**	**100**	<1	**75**	**75**	**75**	**75**	**85**	**25**	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**28.2 J**	--	**34.1**	**41.5**	**0.270**	**20.2**	**41.0 J**	**37.6 J**	**47.8 J**	**52.5**	**5.00 J**	NE
Total Volatile Solids (TVS)	Percent	**53.3**	--	**70.2**	**62.4**	**1.0**	**30.4**	**50.5**	**52.0**	**56.9**	**46.2**	**35.1**	NE
Total Solids (TS)	Percent	**21.2**	--	**25.0**	**28.3**	**78.1**	**36.0**	**21.0**	**20.8**	**21.2**	**21.9**	**26.7**	NE
Total Ammonia	mg-N/kg	**28.70**	--	--	--	--	--	**21.40**	**22.00**	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	--	**21.1**	--	--	--	--	--	NE
Total Sulfide	mg/kg	**2840**	--	--	--	--	--	**825**	**1,050**	--	--	--	NE
Porewater Sulfide	mg/L	--	--	--	--	--	**0.091**	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	**7.46**	--	--	--	--	--	NE
Grain Size													
Gravel	%	**36.4**	--	**37.1**	**35.9**	--	**3.7**	**2.2**	**1.9**	**1.8**	**2.4**	**3.1**	NE
Very Coarse Sand	%	**12.5**	--	**13.6**	**12.1**	--	**6.7**	**8.9**	**8.9**	**8.3**	**8.4**	**7.2**	NE
Coarse Sand	%	**12.1**	--	**15.2**	**12.7**	--	**13.5**	**16.6**	**15.9**	**16.4**	**15.6**	**11.3**	NE
Medium Sand	%	**8.8**	--	**9.6**	**8.2**	--	**18**	**15.7**	**15.4**	**15.1**	**14.9**	**12**	NE
Fine Sand	%	**8.6**	--	**6.9**	**10.9**	--	**23.4**	**8**	**8.3**	**8.2**	**8.9**	**7.1**	NE
Very Fine Sand	%	**4.5**	--	**3.4**	**4**	--	**17**	**5.6**	**5.8**	**5.7**	**6.2**	**6.4**	NE
Coarse Silt	%	**4.2**	--	**2**	**4.9**	--	**4.8**	**3.2**	**5.1**	**5.5**	**5.8**	**8.1**	NE
Medium Silt	%	**3**	--	**2.7**	**2.1**	--	**4.5**	**10.9**	**12.7**	**12.9**	**13.3**	**8.7**	NE
Fine Silt	%	**1.3**	--	**1.4**	**1.6**	--	**2.5**	**8.2**	**7.1**	**7.8**	**7.7**	**10.4**	NE
Very Fine Silt	%	**1.1**	--	**1**	**0.9**	--	**1.1**	**4.9**	**4.1**	**4.2**	**3.9**	**7.2**	NE
Clay	%	**7.3**	--	**7**	**6.6**	--	**4.9**	**15.8**	**14.8**	**13.9**	**12.8**	**18.5**	NE
Total Fines	%	**17**	--	**14.1**	**16.1**	--	**17.7**	**43.1**	**43.8**	**44.4**	**43.6**	**52.9**	NE
Metals													
Arsenic	mg/kg	**9 J**	--	**10.8 J**	**8.8 J**	**2.9**	**20**	20 U	20 U	20 U	20 U	**20**	57
Cadmium	mg/kg	**1**	--	**0.725 J**	**0.449 J**	**0.1**	**1.1**	**1**	1 U	1 U	0.9 U	**1**	5.1
Chromium	mg/kg	**24**	--	**28**	**23**	**18.5**	**26**	**26**	**25**	**14**	**24**	**33**	260
Copper	mg/kg	**56.3**	--	**56.6**	**44.5**	**5.17**	**39.7**	**68.3**	**69**	**45**	**67.7**	**71.4**	390
Lead	mg/kg	**169**	--	**112**	**62**	**2.1**	**31**	**60 J**	**50 J**	**30 J**	**42 J**	**54 J**	450
Mercury	mg/kg	**0.4**	--	**0.25**	**0.15**	**0.0264**	**0.09**	**0.28 J**	**0.37 J**	**0.16 J**	**0.24 J**	**0.20 J**	0.41
Silver	mg/kg	1 U	--	1 U	1 U	0.35 U	0.8 U	1 U	1 U	1 U	1 U	1 U	6.1
Zinc	mg/kg	**146 J**	--	**742**	**995**	**20.5**	**113**	**67**	**51**	**41**	**228**	**104**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	124 J	--	79.8	64.8	210 J	57.4	64.6	49.5	54.1	63.1	887	370
2-Methylnaphthalene	mg/kg OC	9.6 J	--	5.3	5.1	11.2	4.2	6.3	5.1	5.2	6.3	100	38
Acenaphthene	mg/kg OC	10	--	8.5	5.5	9.2	12	8.8	6.9	7.3	8.4	160	16

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-03	MAF-SC-03_2-4	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[9]	MAF-SC-DUP-05	MAF-SC-04_2-4[10]	MAF-SC-04_4-6	MAF-SC-04_8-10	
Sample Date		11/11/15	11/11/15	11/11/15	11/11/15	11/11/2015	10/20/15	10/26/15	10/26/15	10/26/15	10/26/15	10/26/15	
Sample Interval (dbm)		0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	4.3	--	3	1.8	1.1 J	0.9	2	1.5	1.7	1.7	20	66
Anthracene	mg/kg OC	2.7	--	2	0.9	9.7	2.4	0.2	0.2	0.3	0.6	20	220
Fluorene	mg/kg OC	12 J	--	7	4.1	11.8	6.4	4.6	3.7	3.8	5	110	23
Naphthalene	mg/kg OC	64	--	44	46	137	26	46	35	38	42	420	99
Phenanthrene	mg/kg OC	27	--	15	6.7	39.3	9.4	2.7	3	3.3	5.5	160	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**34,850 J**	--	**27,200**	**26,910**	**560 J**	**11,600**	**26,504**	**18,600**	**25,860**	**33,110**	**44,600**	5,200
2-Methylnaphthalene	µg/kg	**2,700 J**	--	**1,800**	**2,100**	**30.2**	**850**	**2,600**	**1,900**	**2,500**	**3,300**	**5,200**	670
Acenaphthene	µg/kg	**4,000**	--	**2,900**	**2,300**	**24.9**	**2,400**	**3,600**	**2,600**	**3,500**	**4,400**	**7,800**	500
Acenaphthylene	µg/kg	**1,200**	--	**900**	**740**	**2.88 J**	**190**	**840**	**570**	**830**	**910**	**1,000**	1,300
Anthracene	µg/kg	**750**	--	**800**	**370**	**26.2**	**480**	**64**	**68**	**130**	**300**	**1,000**	960
Fluorene	µg/kg	**3,400 J**	--	**2,400**	**1,700**	**31.8**	**1,300**	**1,900**	**1,400**	**1,800**	**2,600**	**5,600**	540
Naphthalene	µg/kg	**18,000**	--	**15,000**	**19,000**	**369**	**5,300**	**19,000**	**13,000**	**18,000**	**22,000**	**21,000**	2,100
Phenanthrene	µg/kg	**7,500**	--	**5,200**	**2,800**	**106**	**1,900**	**1,100**	**1,000**	**1,600**	**2,900**	**8,200**	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	17.1 J	--	8.6 J	3.4 J	--	16.4	0.9 J	1.1 J	1.4 J	2.9 J	93.9 J	960
Benzo(a)anthracene	mg/kg OC	1.2 U	--	**0.2**	**0.05 J**	--	**1**	0.05 U	0.051 U	0.04 U	**0.04**	**3**	110
Benzo(a)pyrene	mg/kg OC	1.2 U	--	**0.1 J**	0.089 U	--	**0.9**	0.05 U	0.051 U	0.04 U	0.036 U	**0.9**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	1.2 U	--	**0.3**	0.089 U	--	**2.1**	0.05 U	0.051 U	0.04 U	**0.04**	**2.2**	230
Benzo(g,h,i)perylene	mg/kg OC	1.2 U	--	0.15 U	0.089 U	--	**0.4**	**0.03 J**	0.051 U	0.04 U	0.036 U	**0.5**	31
Chrysene	mg/kg OC	**0.78 J**	--	**0.3**	**0.08 J**	--	**1**	**0.03 J**	**0.03 J**	**0.04**	**0.08**	**4.2**	110
Dibenzo(a,h)anthracene	mg/kg OC	1.2 U	--	0.15 U	0.089 U	--	0.24 U	**0.01 J**	**0.008 J**	**0.03 J**	**0.02 J**	**1.3 J**	12
Fluoranthene	mg/kg OC	9.6	--	**5.0**	**2**	--	**5.9**	**0.5**	**0.6**	**0.8**	**1.7**	**50**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	1.2 U	--	0.15 U	0.089 U	--	**0.4**	0.05 U	0.051 U	0.04 U	0.036 U	**0.4**	34
Pyrene	mg/kg OC	6.7	--	2.7	1.3	--	4.2	0.3	0.4	0.5	1	32	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**4,820 J**	--	**2,934 J**	**1,423 J**	--	**3,316**	**377 J**	**395.1 J**	**653 J**	**1,528 J**	**4,726 J**	12,000
Benzo(a)anthracene	µg/kg	340 U	--	**70**	**22 J**	--	**200**	20 U	19 U	19 U	**23**	**150**	1,300
Benzo(a)pyrene	µg/kg	340 U	--	**34 J**	37 U	--	**180**	20 U	19 U	19 U	19 U	**43**	1,600
Benzofluoranthenes[6] (Total)	µg/kg	340 U	--	**110**	37 U	--	**430**	20 U	19 U	19 U	**20**	**110**	3,200
Benzo(g,h,i)perylene	µg/kg	340 U	--	52 U	37 U	--	**89**	**11 J**	19 U	19 U	19 U	**27**	670
Chrysene	µg/kg	**220 J**	--	**100**	**31 J**	--	**300**	**11 J**	**12 J**	**21**	**43**	**210**	1,400
Dibenzo(a,h)anthracene	µg/kg	340 U	--	52 U	37 U	--	49 U	**5.0 J**	**3.1 J**	**12 J**	**12 J**	**67 J**	230
Fluoranthene	µg/kg	**2,700**	--	**1700**	**850**	--	**1,200**	**220**	**240**	**400**	**880**	**2,500**	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	340 U	--	52 U	37 U	--	**77**	20 U	19 U	19 U	19 U	**19**	600
Pyrene	µg/kg	**1,900**	--	**920**	**520**	--	**840**	**130**	**140**	**220**	**550**	**1,600**	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	**1.9 J**	--	0.15 U	**0.094**	1.80 U	0.024 U	**0.0059 J**	**0.011 J**	**0.0044 J**	**0.0042 J**	**0.04 J**	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	**0.078 J**	--	0.15 U	0.089 U	1.80 U	**0.0084 J**	**0.011 J**	**0.017 J**	**0.0077 J**	**0.008 J**	**0.074 J**	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.24 U	--	0.15 U	0.089 U	1.80 U	**0.018 J**	**0.0063 J**	**0.01 J**	**0.0052 J**	**0.0046 J**	**0.044 J**	3.1
Hexachlorobenzene	mg/kg OC	0.24 U	--	0.15 U	0.089 U	1.80 U	0.024 U	0.012 U	0.013 U	0.01 U	0.0093 U	0.097 U	0.38

Sample Location[1]		MAF-03					MAF-04						
Sample Identification		MAF-SC-DUP-03	MAF-SC-03_2-4	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[9]	MAF-SC-DUP-05	MAF-SC-04_2-4[10]	MAF-SC-04_4-6	MAF-SC-04_8-10	Proposed Sediment Cleanup Level[2]
Sample Date		11/11/15	11/11/15	11/11/15	11/11/15	11/11/2015	10/20/15	10/26/15	10/26/15	10/26/15	10/26/15	10/26/15	
Sample Interval (dbm)		0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	**530 J**	--	52 U	**39**	4.8 U	4.9 U	**2.4 J**	**4.2 J**	**2.1 J**	**2.2 J**	**2.0 J**	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	**22 J**	--	52 U	37 U	4.8 U	**1.7 J**	**4.5 J**	**6.4**	**3.7 J**	**4.2 J**	**3.7 J**	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	68 U	--	52 U	37 U	4.8 U	**3.6 J**	**2.6 J**	**3.8 J**	**2.5 J**	**2.4 J**	**2.2 J**	110
Hexachlorobenzene	µg/kg	68 U	--	52 U	37 U	4.8 U	4.9 U	5.0 U	5.0 U	5.0 U	4.9 U	4.9 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	**1 J**	--	**2.8 J**	0.89 U	17.8 U	0.24 U	0.1 U	0.1 U	0.1 U	0.093 U	0.97 U	47
Butyl Benzyl Phthalate	mg/kg OC	0.24 U	--	0.15 U	0.089 U	1.80 U	0.024 U	0.012 U	0.013 U	0.01 U	0.0093 U	0.097 U	4.9
Dibutyl Phthalate	mg/kg OC	0.96 U	--	1.2 U	0.36 U	7.11 U	0.1 U	0.05 U	0.05 U	0.04 U	0.04 U	0.4 U	220
Diethyl Phthalate	mg/kg OC	0.96 U	--	1.2 U	**0.43**	7.11 U	0.1 UJ	0.05 UJ	0.05 UJ	0.04 UJ	**0.07 J**	**1.1 J**	61
Dimethyl Phthalate	mg/kg OC	0.96 U	--	1.2 U	0.36 U	7.11 U	0.1 U	0.05 U	0.05 U	0.04 U	0.04 U	0.4 U	53
Di-N-Octyl Phthalate	mg/kg OC	0.96 U	--	1.2 U	0.36 U	7.11 U	0.1 U	0.05 U	0.05 U	0.04 U	0.04 U	0.4 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	**400 J**	--	**940 J**	370 U	48.1 U	49 U	50 U	50 U	50 U	49 U	49 U	1,300
Butyl Benzyl Phthalate	µg/kg	68 U	--	52 U	37 U	4.8 U	4.9 U	5.0 U	5.0 U	5.0 U	4.9 U	4.9 U	63
Dibutyl Phthalate	µg/kg	270 U	--	420 U	150 U	19.2 U	20 U	20 U	20 U	20 U	20 U	20 U	1,400
Diethyl Phthalate	µg/kg	270 UJ	--	420 U	**180**	19.2 U	20 UJ	20 UJ	20 UJ	20 UJ	**37 J**	**55 J**	200
Dimethyl Phthalate	µg/kg	270 U	--	420 U	150 U	19.2 U	20 U	20 U	20 U	20 U	20 U	20 U	71
Di-N-Octyl Phthalate	µg/kg	270 U	--	420 U	150 U	19.2 U	20 U	20 U	20 U	20 U	20 U	20 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**540 J**	--	**640**	**1,600**	**16.0 J**	**170**	**820**	**900**	**660**	**820**	**1,500 J**	29
2-Methylphenol (o-Cresol)	µg/kg	**300 J**	--	**330 J**	**660**	19.2 U	**140**	**1,500**	**1,600**	**1,300**	**1,400**	**1,600**	63
4-Methylphenol (p-Cresol)	µg/kg	**22,000 J**	--	**23,000**	**31,000**	**47.5**	**1,000**	**22,000**	**25,000**	**17,000**	**19,000**	**8,600**	670
Pentachlorophenol	µg/kg	1,400 U	--	2,100 U	750 U	96.2 U	97 U	100 U	99 U	100 U	98 U	98 U	360
Phenol	µg/kg	**380 J**	--	**330 J**	**390**	19.2 U	**340**	**450**	**480**	**370**	**420**	**290**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**10 J**	--	**6 J**	**4.1**	**11.3**	**7.4**	**3.4**	**3.0**	**3.3**	**4.0**	**72**	15
Hexachlorobutadiene	mg/kg OC	0.24 U	--	0.15 U	0.089 U	1.80 U	0.024 U	0.012 U	0.013 U	0.01 U	0.0093 U	0.097 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.24 U	--	0.15 U	0.089 U	7.11 U	0.024 U	0.012 U	0.013 U	0.01 U	0.0093 U	0.097 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**3,000 J**	--	**2,000**	**1,700**	**30.4**	**1,500**	**1,400**	**1,000**	**1,600**	**2,000**	**3,600**	540
Hexachlorobutadiene	µg/kg	68 U	--	52 U	37 U	4.8 U	4.9 U	5.0 U	5.0 U	5.0 U	4.9 U	4.9 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	68 U	--	52 U	37 U	19.2 U	4.9 U	5.0 U	5.0 U	5.0 U	4.9 U	4.9 U	28
Benzoic Acid	µg/kg	**2,200 J**	--	**1,600 J**	**2,000**	192 U	**88 J**	200 U	200 U	200 U	200 U	200 U	650
Benzyl Alcohol	µg/kg	270 U	--	420 U	150 U	19.2 U	**69**	**110 J**	**87 J**	**61**	**80**	**63**	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**9.4 J**	--	--	--	**2.62 J**	**0.55 J**	**0.014 J**	--	**0.013 J**	--	--	12

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-03	MAF-SC-03_2-4	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[9]	MAF-SC-DUP-05	MAF-SC-04_2-4[10]	MAF-SC-04_4-6	MAF-SC-04_8-10	
Sample Date		11/11/15	11/11/15	11/11/15	11/11/15	11/11/2015	10/20/15	10/26/15	10/26/15	10/26/15	10/26/15	10/26/15	
Sample Interval (dbm)		0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**2,650 J**	--	--	--	**7.07 J**	**111 J**	**34 J**	--	**6.32 J**	--	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	230 U	--	--	--	20 U	--	--	**9.8 J**	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	1,200 U	--	--	--	97 U	--	--	98 U	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	1,200 U	--	--	--	**25 J**	--	--	**79 J**	--	--	NE
2,4-Dichlorophenol	µg/kg	--	1,200 U	--	--	--	97 U	--	--	**50 J**	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	**1,100**	--	--	--	**170**	--	--	**1,700 J**	--	--	NE
Tetrachloroguaiacol	µg/kg	--	460 U	--	--	--	39 U	--	--	39 U	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	230 UJ	--	--	--	20 U	--	--	20 U	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	230 U	--	--	--	20 U	--	--	20 U	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	230 U	--	--	--	20 U	--	--	20 U	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	900 U	--	--	--	100 U	--	99 U	99 U	--	--	NE
Pimaric Acid	µg/kg	--	900 U	--	--	--	100 U	--	99 U	99 U	--	--	NE
Sandaracopimaric Acid	µg/kg	--	900 U	--	--	--	**270**	--	**150**	**120**	--	--	NE
Isopimaric Acid	µg/kg	--	**1,000**	--	--	--	**180**	--	**230**	**170**	--	--	NE
Dehydroabietic Acid	µg/kg	--	**94,000**	--	--	--	**7,700 J**	--	**16,000**	**12,000**	--	--	NE
Palustric Acid	µg/kg	--	900 UJ	--	--	--	100 U	--	99 UJ	99 UJ	--	--	NE
Abietic Acid	µg/kg	--	**6,200 J**	--	--	--	**6,200 J**	--	**7,700 J**	**1,700 J**	--	--	NE
Neoabietic Acid	µg/kg	--	900 UJ	--	--	--	100 UJ	--	99 UJ	99 UJ	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	900 U	--	--	--	100 U	--	99 U	99 U	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	**3,000**	--	--	--	**130**	--	50 U	50 U	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	**1,200**	--	--	--	50 U	--	50 U	50 U	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	900 U	--	--	--	100 U	--	99 U	99 U	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-03	MAF-SC-03_2-4	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[9]	MAF-SC-DUP-05	MAF-SC-04_2-4[10]	MAF-SC-04_4-6	MAF-SC-04_8-10	
Sample Date		11/11/15	11/11/15	11/11/15	11/11/15	11/11/2015	10/20/15	10/26/15	10/26/15	10/26/15	10/26/15	10/26/15	
Sample Interval (dbm)		0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2	
Sample Date		11/10/2015	10/20/15	11/11/15	11/11/15	11/11/2015	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/29/15	
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	**100**	**100**	<1	**5**	<1	<1	**25**	<5	<5	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**0.170**	**7.38**	**13.9 J**	**19.2 J**	**0.280**	**1.35**	**0.0800 J**	**0.077 J**	**2.15**	**4.17**	**5.26**	NE
Total Volatile Solids (TVS)	Percent	**1.09**	**13.4**	**29.3**	**45.3**	**2.05**	**4.01**	**0.8**	**0.9**	**11.3**	**13.4**	**17.0**	NE
Total Solids (TS)	Percent	**78.7**	**52.1**	**35.6**	**31.2**	**76.1**	**68.4**	**82.0**	**81.7**	**55.0**	**51.3**	**45.0**	NE
Total Ammonia	mg-N/kg	--	--	**11.80**	--	--	--	--	--	--	--	**77.20**	NE
Porewater Ammonia	mg-N/L	--	**17.10**	--	--	--	**9.62**	**1.35**	**1.54**	**11.80**	**9.12**	--	NE
Total Sulfide	mg/kg	--	--	**829**	--	--	--	--	--	--	--	**371**	NE
Porewater Sulfide	mg/L	--	**0.13**	--	--	--	**0.73**	**3.73**	--	**0.15**	**1.31**	--	NE
Porewater pH	pH	--	**7.66**	--	--	--	**7.92**	**7.72**	--	**7.69**	**7.66**	--	NE
Grain Size													
Gravel	%	--	**2.4**	**28.3**	**31.5**	--	**0.3**	**0.6**	**0.4**	**5.4**	**1**	**7**	NE
Very Coarse Sand	%	--	**6.1**	**4.4**	**7**	--	**1**	**2.7**	**2.9**	**2.9**	**1.8**	**3.4**	NE
Coarse Sand	%	--	**17.6**	**6.2**	**9.2**	--	**6.5**	**28**	**26.5**	**5.9**	**2.7**	**3.3**	NE
Medium Sand	%	--	**28.2**	**8.4**	**11.4**	--	**27.4**	**54.9**	**55.4**	**19.4**	**6.9**	**4.6**	NE
Fine Sand	%	--	**22.1**	**14.2**	**16.3**	--	**38**	**10.9**	**12.9**	**27.4**	**18.3**	**14.6**	NE
Very Fine Sand	%	--	**11.4**	**12**	**10.2**	--	**17.6**	**1.3**	**1.7**	**19.4**	**24.1**	**9.4**	NE
Coarse Silt	%	--	**3.3**	**4.7**	**2.3**	--	**3.1**	1.5 U	0.2 U	**5.6**	**18**	**13.7**	NE
Medium Silt	%	--	**3.6**	**7.2**	**4.2**	--	**1.7**	1.5 U	0.2 U	**3.4**	**7.5**	**9.7**	NE
Fine Silt	%	--	**1.3**	**4.2**	**1.9**	--	**1.3**	1.5 U	0.2 U	**2.7**	**4.1**	**9.8**	NE
Very Fine Silt	%	--	**0.4**	**2**	**1.2**	--	**0.6**	1.5 U	0.2 U	**1.7**	**4**	**6.4**	NE
Clay	%	--	**3.6**	**8.3**	**4.9**	--	**2.5**	1.5 U	0.2 U	**6.2**	**11.6**	**18.1**	NE
Total Fines	%	--	**12.2**	**26.5**	**14.5**	--	**9.2**	**1.5**	**0.2**	**19.5**	**45.1**	**57.7**	NE
Metals													
Arsenic	mg/kg	--	**16**	**20**	**14.4 J**	--	**10**	**8**	**8**	**11**	**20**	**20**	57
Cadmium	mg/kg	--	**0.6**	**1.2**	**0.9**	--	**0.256 J**	0.044 U	0.047 U	0.114 U	**0.9**	**1.4 J**	5.1
Chromium	mg/kg	--	**23.3**	**43**	**25**	--	**23.4**	**21.2**	**22.3**	**29.3**	**43**	**53**	260
Copper	mg/kg	--	**24.7**	**70.7**	**31.5**	--	**12.1**	**6.3 J**	**11.0 J**	**8.9**	**43.1**	**52.9**	390
Lead	mg/kg	--	**28**	**34**	**21**	--	**5**	**2 J**	**6 J**	**6**	**19**	**68**	450
Mercury	mg/kg	--	**0.06**	**0.12**	**0.0752 J**	--	**0.05**	0.03 U	0.03 U	**0.05**	**0.11**	**0.16**	0.41
Silver	mg/kg	--	**0.09 J**	0.8 U	1 U	--	0.4 U	0.4 U	0.4 U	0.5 U	0.6 U	**0.20 J**	6.1
Zinc	mg/kg	--	**59**	**120**	**72**	--	**34**	**24 J**	**35 J**	**34**	**102**	**101**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	320 J	131	43.8	42.9	69.6 J	**83**	7.7 J	4.5 J	**90.1**	143	132	370
2-Methylnaphthalene	mg/kg OC	2.1 J	10	3	3.7	4.6	**7**	3.5 J	6.2 U	**9.8**	15	11	38
Acenaphthene	mg/kg OC	3.2	19	7	7.3	9.8	**9.6**	5.8 U	6.2 U	**10**	20	21	16

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2	
Sample Date		11/10/2015	10/20/15	11/11/15	11/11/15	11/11/2015	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/29/15	
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	2.7 U	3.3	0.7	0.8	1.7 J	2	5.8 U	6.2 U	3.6	4.3	2.3	66
Anthracene	mg/kg OC	2.7 U	6.4	3	2.2	7.4	7.2	5.8 U	6.2 U	7.9	9.4	14	220
Fluorene	mg/kg OC	1.6 J	12	5.5	5.1	9.3	10	5.8 U	6.2 U	11	18	21	23
Naphthalene	mg/kg OC	23.1	64	18	19	22.3	31	7.7	4.5 J	36	55	40	99
Phenanthrene	mg/kg OC	4.4	30	9.4	8.9	19.1	20	5.7 U	5.7 U	21	36	34	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	55 J	9,670	6,090	8,240	195 J	1,120	6.2 J	3.5 J	1,937	5,970	6,940	5,200
2-Methylnaphthalene	µg/kg	3.64 J	900	400	710	12.9	94	2.8 J	4.8 U	210	630	580	670
Acenaphthene	µg/kg	5.47	1,400	1,000	1,400	27.3	130	4.7 U	4.8 U	220	850	1,100	500
Acenaphthylene	µg/kg	4.6 U	240	100	150	4.85 J	30	4.7 U	4.8 U	77	180	120	1,300
Anthracene	µg/kg	4.6 U	470	420	420	20.6	97	4.7 U	4.8 U	170	390	720	960
Fluorene	µg/kg	2.73 J	860	770	970	26	140	4.7 U	4.8 U	230	750	1,100	540
Naphthalene	µg/kg	39.3	4,700	2,500	3,600	62.5	420	6.2	3.5 J	780	2,300	2,100	2,100
Phenanthrene	µg/kg	7.47	2,000	1,300	1,700	53.5	300	4.6 U	4.4 U	460	1,500	1,800	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	2.6 J	54.4	27.9	18.19	--	55.8 J	13.5	15.3	59.3	71.3	84 J	960
Benzo(a)anthracene	mg/kg OC	2.7 U	2.8	1.8	0.78	--	3.5	5.8 U	6.2 U	3.5	5	6	110
Benzo(a)pyrene	mg/kg OC	2.7 U	1.8	1.7	0.39	--	2.1	5.8 U	6.2 U	3	3.6	4.2 J	99
Benzofluoranthenes[6] (Total)	mg/kg OC	5.5 U	5	3	1.2	--	4.9	5.8 U	6.2 U	6.5	8.6	8.9	230
Benzo(g,h,i)perylene	mg/kg OC	2.7 U	1.1	0.9	0.29	--	1.1	5.8 U	6.2 U	1.5	2	2.3 J	31
Chrysene	mg/kg OC	2.7 U	4.3	3.1	1.1	--	4.5	5.8 U	6.2 U	4.6	6.2	9.1	110
Dibenzo(a,h)anthracene	mg/kg OC	2.7 U	0.7 U	0.2	0.1	--	0.3 J	5.8 U	6.2 U	0.4	0.5	0.6 J	12
Fluoranthene	mg/kg OC	2.6 J	22	8.6	8.9	--	21	5.9	7.4	20	20	30	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	2.7 U	0.9	0.7	0.28	--	0.89	5.8 U	6.2 U	1	2	1.8 J	34
Pyrene	mg/kg OC	2.7 U	16	7.9	5	--	18	7.5	7.9	19	20	21	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	4.4 J	4,012	3,874	3,493	--	752.6 J	10.9	11.8	1,275	2,974	4,418 J	12,000
Benzo(a)anthracene	µg/kg	4.6 U	210	250	150	--	47	4.7 U	4.8 U	75	210	300	1,300
Benzo(a)pyrene	µg/kg	4.6 U	130	230	75	--	28	4.7 U	4.8 U	60	150	220 J	1,600
Benzofluoranthenes[6] (Total)	µg/kg	9.3 U	400	420	230	--	66	4.7 U	4.8 U	140	360	470	3,200
Benzo(g,h,i)perylene	µg/kg	4.6 U	84	120	55	--	15	4.7 U	4.8 U	32	82	120 J	670
Chrysene	µg/kg	4.6 U	320	430	210	--	61	4.7 U	4.8 U	98	260	480	1,400
Dibenzo(a,h)anthracene	µg/kg	4.6 U	48 U	30	20	--	3.6 J	4.7 U	4.8 U	9.5	22	31 J	230
Fluoranthene	µg/kg	4.4 J	1,600	1,200	1,700	--	280	4.8	5.7	420	1,000	1,600	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	4.6 U	68	94	53	--	12	4.7 U	4.8 U	30	70	97 J	600
Pyrene	µg/kg	4.6 U	1,200	1,100	1,000	--	240	6.1	6.1	410	820	1,100	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	--	0.031 J	0.035 U	0.026 U	--	0.35 U	6 U	6.2 U	0.079 J	0.055 J	0.093 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	--	0.051 J	0.035 U	0.02 J	--	0.16 J	6 U	6.2 U	0.56	0.12	0.18	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	--	0.1	0.035 U	0.041	--	0.35 U	6 U	6.2 U	0.28	0.15	0.15	3.1
Hexachlorobenzene	mg/kg OC	--	0.065 U	0.035 U	0.026 U	--	0.35 U	6 U	6.2 U	0.12 J	0.12 U	0.093 UJ	0.38

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2	
Sample Date		11/10/2015	10/20/15	11/11/15	11/11/15	11/11/2015	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/29/15	
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	--	**2.3 J**	4.9 U	4.9 U	--	4.7 U	4.9 U	4.8 U	**1.7 J**	**2.3 J**	4.9 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	--	**3.8 J**	4.9 U	**4 J**	--	**2.1 J**	4.9 U	4.8 U	**12**	**4.9**	**9.5**	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	--	**7.4**	4.9 U	**7.8**	--	4.7 U	4.9 U	4.8 U	**6**	**6.1**	**7.8**	110
Hexachlorobenzene	µg/kg	--	4.8 U	4.9 U	4.9 U	--	4.7 U	4.9 U	4.8 U	**2.6 J**	4.8 U	4.9 UJ	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	--	**0.38 J**	**1.1**	**1.3**	--	3.5 U	60 U	62 U	2.2 U	**1.2 J**	**2.3 J**	47
Butyl Benzyl Phthalate	mg/kg OC	--	**0.092**	**0.25**	0.026 U	--	**0.81**	6 U	6.2 U	0.22 U	0.12 U	0.093 U	4.9
Dibutyl Phthalate	mg/kg OC	--	0.26 U	0.1 U	0.1 U	--	1.4 U	20 U	25 U	0.88 U	0.46 U	0.4 U	220
Diethyl Phthalate	mg/kg OC	--	**0.43 J**	**0.53**	**0.63**	--	**1.3 J**	20 U	**31 J**	**1.2 J**	0.46 U	**0.7**	61
Dimethyl Phthalate	mg/kg OC	--	0.26 U	0.1 U	0.1 U	--	1.4 U	20 U	25 U	0.88 U	0.46 U	0.4 U	53
Di-N-Octyl Phthalate	mg/kg OC	--	0.26 U	0.1 U	0.1 U	--	1.4 U	20 U	25 U	0.88 U	**0.21 J**	0.4 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	--	**28 J**	**150**	**250**	--	47 U	49 U	48 U	48 U	**52 J**	**120 J**	1,300
Butyl Benzyl Phthalate	µg/kg	--	**6.8**	**35**	4.9 U	--	**11**	4.9 U	4.8 U	4.8 U	4.8 U	4.9 U	63
Dibutyl Phthalate	µg/kg	--	19 U	20 U	20 U	--	19 U	20 U	19 U	19 U	19 U	20 UJ	1,400
Diethyl Phthalate	µg/kg	--	**32 J**	**74**	**120**	--	**17 J**	20 UJ	**24 J**	**26 J**	19 UJ	**37**	200
Dimethyl Phthalate	µg/kg	--	19 U	20 U	20 U	--	19 U	20 U	19 U	19 U	19 U	20 U	71
Di-N-Octyl Phthalate	µg/kg	--	19 U	20 U	20 U	--	19 U	20 U	19 U	19 U	**8.6 J**	20 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**14.4 J**	**37**	**56**	**86**	24.4 U	24 U	25 U	24 U	**18 J**	**43**	**39 J**	29
2-Methylphenol (o-Cresol)	µg/kg	18.7 U	**33**	**31**	**64**	19.5 U	19 U	20 U	19 U	**12 J**	**37**	20 U	63
4-Methylphenol (p-Cresol)	µg/kg	18.7 U	**620**	**710**	**1,100**	19.5 U	**160**	20 U	19 U	**350**	**980 J**	**1,900**	670
Pentachlorophenol	µg/kg	93.6 U	96 U	98 U	98 U	97.5 U	94 U	98 U	97 U	96 U	**40 J**	98 UJ	360
Phenol	µg/kg	18.7 U	**250**	**150**	**390**	19.5 U	**53**	**17 J**	19 U	**460**	**270 J**	**210 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	11.0 U	**18**	**6.0**	**5.7**	**5.04 J**	**10**	**3.1 J**	**3.5 J**	**11**	**20**	**17**	15
Hexachlorobutadiene	mg/kg OC	2.80 U	0.065 U	0.035 U	0.026 U	1.8 U	0.35 U	6 U	6.2 U	0.22 U	0.12 U	0.093 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	11.0 U	0.065 U	0.035 U	0.026 U	6.96 U	0.35 U	6 U	6.2 U	0.22 U	0.12 U	0.093 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	18.7 U	**1,300**	**840**	**1,100**	**14.1 J**	**140**	**2.5 J**	**2.7 J**	**230**	**800**	**920**	540
Hexachlorobutadiene	µg/kg	4.7 U	4.8 U	4.9 U	4.9 U	4.9 U	4.7 U	4.9 U	4.8 U	4.8 U	4.8 U	4.9 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	18.7 U	4.8 U	4.9 U	4.9 U	19.5 U	4.7 U	4.9 U	4.8 U	4.8 U	4.8 U	4.9 U	28
Benzoic Acid	µg/kg	187 U	**230**	**220**	**510**	195 U	**100 J**	200 U	190 U	**410**	**550**	**260 J**	650
Benzyl Alcohol	µg/kg	18.7 U	**56**	20 U	20 U	19.5 U	19 U	20 U	19 U	**34**	**51**	**43**	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.001 J**	**1.46 J**	**0.084 J**	--	**0.01 J**	**0.39 J**	--	--	**0.24 J**	**0.40 J**	**0.2 J**	12

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2	
Sample Date		11/10/2015	10/20/15	11/11/15	11/11/15	11/11/2015	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/29/15	
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	0.0017 U	**108 J**	**11.6 J**	--	**0.0281 J**	5.3 J	--	--	5.1 J	**16.6 J**	**10.5 J**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2	
Sample Date		11/10/2015	10/20/15	11/11/15	11/11/15	11/11/2015	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/29/15	
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	Pass	Pass	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	Pass	Pass	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	Pass	**Fail**	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10	
Sample Date		10/29/15	10/29/2015	10/20/15	10/28/15	10/28/15	10/28/2015	10/20/15	10/28/15	10/28/15	10/20/15	10/21/15	
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	
Field Screening													
Visual Wood Content[3]	%	<5	<1	**75**	**25**	**50**	<1	**15**	**10**	<5	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**4.66**	**2.82**	**7.32**	**4.11**	**6.51**	**3.69**	**0.99**	**3.95**	**2.10**	**0.380**	**0.455**	NE
Total Volatile Solids (TVS)	Percent	**15.0**	**6.0**	**23.9**	**18.3**	**17.2**	**8.2**	**11.6**	**12.0**	**5.0**	**2.3**	**2.5**	NE
Total Solids (TS)	Percent	**43.3**	**68.3**	**39.5**	**43.3**	**45.4**	**62.2**	**46.5**	**49.9**	**67.6**	**73.4**	**67.7**	NE
Total Ammonia	mg-N/kg	**94.40**	--	--	**42.10**	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	**11.50**	--	--	--	**8.27**	--	--	**13.20**	**24.50**	NE
Total Sulfide	mg/kg	**459**	--	--	**1240**	--	--	--	--	--	--	--	NE
Porewater Sulfide	mg/L	--	--	**0.69**	--	--	--	**17.3 J**	--	--	**0.09**	**0.24**	NE
Porewater pH	pH	--	--	**7.80**	--	--	--	**7.49**	--	--	**7.71**	**7.53**	NE
Grain Size													
Gravel	%	**1.8**	--	**10.8**	**9.1**	**1.9**	--	**10**	**1.8**	**0.2**	**1.3**	**0.1**	NE
Very Coarse Sand	%	**3**	--	**4.2**	**3.4**	**2.9**	--	**2.1**	**1.3**	**0.9**	**2.9**	**0.3**	NE
Coarse Sand	%	**3.7**	--	**4.4**	**4.6**	**4**	--	**2.7**	**2.1**	**3**	**12.2**	**0.8**	NE
Medium Sand	%	**5**	--	**5.4**	**5**	**4.5**	--	**4.3**	**7**	**13.9**	**27.3**	**4.7**	NE
Fine Sand	%	**9.4**	--	**8.9**	**6.8**	**6.9**	--	**9.6**	**11.7**	**17.9**	**26.9**	**25.2**	NE
Very Fine Sand	%	**15.2**	--	**20**	**13.7**	**11**	--	**18.9**	**16.2**	**17.7**	**20.2**	**45.9**	NE
Coarse Silt	%	**14.1**	--	**11.6**	**13.3**	**13.7**	--	**14**	**16.2**	**16.6**	**4.4**	**14.8**	NE
Medium Silt	%	**12.9**	--	**12.7**	**12.3**	**15.3**	--	**11.4**	**13.3**	**12.9**	**1.2**	**3.7**	NE
Fine Silt	%	**9.3**	--	**7.2**	**8**	**10.7**	--	**7.7**	**7.4**	**7.1**	**0.7**	**1**	NE
Very Fine Silt	%	**6.3**	--	**2.5**	**6.5**	**7.1**	--	**4.9**	**6**	**3.8**	**0.5**	**0.6**	NE
Clay	%	**19.4**	--	**12.2**	**17.2**	**21.9**	--	**14.5**	**17**	**6.1**	**2.3**	**2.9**	NE
Total Fines	%	**61.9**	--	**46.3**	**57.3**	**68.8**	--	**52.5**	**59.9**	**46.4**	**9.2**	**23**	NE
Metals													
Arsenic	mg/kg	**20**	--	**30**	**70**	**40**	**9.1**	**20**	**19**	**14**	**11**	**10**	57
Cadmium	mg/kg	**2.0 J**	--	**0.9**	**1.2**	**1.6**	**0.73**	**0.9**	**1**	**0.4**	**0.179 J**	0.131 U	5.1
Chromium	mg/kg	**56**	--	**44**	**53**	**59**	**39.6**	**50**	**47.3**	**37.7**	**39.4**	**34**	260
Copper	mg/kg	**70.4**	--	**45.3**	**236**	**118**	**132**	**44.1**	**62.7**	**37.2**	**18.6**	**20**	390
Lead	mg/kg	**45**	--	**21**	**93**	**65**	**32.7**	**21**	**50 J**	**15 J**	**8**	**10**	450
Mercury	mg/kg	**0.18**	--	**0.1**	**0.14**	**0.22**	**0.3**	**0.12**	**0.14**	**0.09**	**0.0202 J**	**0.0182 J**	0.41
Silver	mg/kg	**0.24 J**	--	0.7 U	**0.30 J**	**0.17 J**	0.45 U	0.6 U	0.6 U	0.4 U	0.4 U	0.4 U	6.1
Zinc	mg/kg	**123**	--	**98**	**559**	**269**	**65.6**	**119**	**128 J**	**55 J**	**51**	**47**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	177	**91.1**	42.8	131	127	91.6	**120**	75.4	**111**	123	24.6 J	370
2-Methylnaphthalene	mg/kg OC	15	**6.0**	4	7.8	12	7.7	**21**	5	**7.6**	8.9	1.3	38
Acenaphthene	mg/kg OC	28	**6.8**	6.4	22	22	10	**14**	7.1	**10**	16	1.6	16

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10	
Sample Date		10/29/15	10/29/2015	10/20/15	10/28/15	10/28/15	10/28/2015	10/20/15	10/28/15	10/28/15	10/20/15	10/21/15	
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	
Acenaphthylene	mg/kg OC	2.6	5.1	1	2.3	2.2	3.6	5.1	3.3	7.1	3.7	0.7 J	66
Anthracene	mg/kg OC	17	4.6	3.3	10	6	1.7	13	6.3	4.5	13	3.7	220
Fluorene	mg/kg OC	30	6.3	4.5	19	20	7.5	13	8.9	10	15	2	23
Naphthalene	mg/kg OC	56	47.9	18	27	43	56.6	44	28	52	32	3.5	99
Phenanthrene	mg/kg OC	40	20.4	9.7	51	34	12.1	30	22	27	45	13	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	8,230	2,570	3,130	5,390	8,240	3,380	1,191	2,980	2,340	467	112 J	5,200
2-Methylnaphthalene	µg/kg	690	168	290	320	790	284	210	200	160	34	5.7	670
Acenaphthene	µg/kg	1,300	193	470	910	1,400	370	140	280	210	59	7.3	500
Acenaphthylene	µg/kg	120	145	80	94	140	131	51	130	150	14	3.2 J	1,300
Anthracene	µg/kg	810	129	240	420	400	61.5	130	250	94	48	17	960
Fluorene	µg/kg	1,400	177	330	770	1,300	277	130	350	220	56	10	540
Naphthalene	µg/kg	2,600	1350	1,300	1,100	2,800	2,090	440	1,100	1,100	120	16	2,100
Phenanthrene	µg/kg	2,000	576	710	2,100	2,200	447	300	870	570	170	58	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	88.1 J	38.3	44.8	195.2	55.67	12 J	110	85.44	31.43	157 J	65.4 J	960
Benzo(a)anthracene	mg/kg OC	5.6	2.0	3.6	18	2.9	0.4	8.8	6.3	1.2	8.4	5.7	110
Benzo(a)pyrene	mg/kg OC	2.8 J	1.6	3	10	2	0.2	6.1	3	0.67	7.1	5.1	99
Benzofluoranthenes[6] (Total)	mg/kg OC	7.3	3.2	6.4	20	4.5	0.5	14	6.8	1.6	18	9.9	230
Benzo(g,h,i)perylene	mg/kg OC	1.3 J	1.4	1	7	1	0.2	3.3	2	0.62	4.2	3.3	31
Chrysene	mg/kg OC	7.5	2.8	5.9	20	3.7	0.6	10	6.1	1.8	12	6.2	110
Dibenzo(a,h)anthracene	mg/kg OC	0.3 J	0.2	0.4	2	0.28	0.135 U	0.92	0.33	0.22 U	1.1 J	0.8 J	12
Fluoranthene	mg/kg OC	39	15.5	11	54	23	6.3	30	33	10	50	18	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	1.1 J	0.9	1.3	6.6	1	0.09 J	3	1.1	0.29	3.7	3.1	34
Pyrene	mg/kg OC	24	11	12	50	17	4	33	28	11	50	13	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	4,106 J	1,080	3,282	8,022	3,624	450 J	1,090	3,375	660.1	598 J	297.7 J	12,000
Benzo(a)anthracene	µg/kg	260	55.1	260	730	190	13	87	250	26	32	26	1,300
Benzo(a)pyrene	µg/kg	130 J	44.3	200	600	130	7.5	61	100	14	27	23	1,600
Benzofluoranthenes[6] (Total)	µg/kg	340	91.5	470	1,000	290	17.4	140	270	33	68	45	3,200
Benzo(g,h,i)perylene	µg/kg	61 J	38.7	100	300	90	7.7	33	60	13	16	15	670
Chrysene	µg/kg	350	78.2	430	840	240	20.9	100	240	38	47	28	1,400
Dibenzo(a,h)anthracene	µg/kg	16 J	5.73	29	82	18	5 U	9.1	13	4.7 U	4.0 J	3.7 J	230
Fluoranthene	µg/kg	1,800	436	840	2,200	1,500	234	300	1,300	300	200	82	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	49 J	24.2	93	270	66	3.5 J	30	42	6.1	14	14	600
Pyrene	µg/kg	1,100	309	860	2,000	1,100	146	330	1,100	230	190	61	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.11 U	--	0.067 U	0.12 U	0.077 U	--	0.5 U	0.12 U	0.22 U	1.3 U	1.1 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.28	--	0.027 J	0.088 J	0.23	--	0.5 U	0.063 J	0.062 J	1.3 U	1.1 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.24	--	0.082	0.14	0.15	--	0.26 J	0.096 J	0.22 U	0.74 J	1.1 U	3.1
Hexachlorobenzene	mg/kg OC	0.11 UJ	--	0.067 U	0.12 UJ	0.077 UJ	--	0.5 U	0.12 UJ	0.22 UJ	1.3 U	1.1 U	0.38

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10	
Sample Date		10/29/15	10/29/2015	10/20/15	10/28/15	10/28/15	10/28/2015	10/20/15	10/28/15	10/28/15	10/20/15	10/21/15	
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	4.9 U	--	4.9 U	4.9 U	5.0 U	--	5.0 U	4.9 U	4.7 U	4.9 U	4.8 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	**13**	--	**2.0 J**	**3.6 J**	**15**	--	5.0 U	**2.5 J**	**1.3 J**	4.9 U	4.8 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	**11**	--	**6.0**	**5.7**	**9.9**	--	**2.6 J**	**3.8 J**	4.7 U	**2.8 J**	4.8 U	110
Hexachlorobenzene	µg/kg	4.9 UJ	--	4.9 U	4.9 UJ	5.0 UJ	--	5.0 U	4.9 UJ	4.7 UJ	4.9 U	4.8 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	**1.5 J**	--	**0.89**	**10**	**2 J**	--	**14**	1.2 U	2.2 U	13 U	11 U	47
Butyl Benzyl Phthalate	mg/kg OC	0.11 UJ	--	**0.082**	0.12 U	0.077 U	--	0.5 U	0.12 U	0.22 U	1.3 U	1.1 U	4.9
Dibutyl Phthalate	mg/kg OC	**1.4 J**	--	0.3 U	0.5 U	0.91 U	--	2 U	**0.91**	**1.1**	**6.3**	4.2 U	220
Diethyl Phthalate	mg/kg OC	**1**	--	0.3 UJ	**0.8**	0.91 U	--	2 UJ	**0.46 J**	**1.6**	5 UJ	4.2 U	61
Dimethyl Phthalate	mg/kg OC	0.84 U	--	0.3 U	0.5 U	0.91 U	--	2 U	0.5 U	0.9 U	5 U	4.2 U	53
Di-N-Octyl Phthalate	mg/kg OC	0.84 U	--	0.3 U	0.5 U	0.91 U	--	2 U	0.5 U	0.9 U	5 U	4.2 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	**69 J**	--	**65**	**500**	**130 J**	--	**140**	49 U	47 U	49 U	48 U	1,300
Butyl Benzyl Phthalate	µg/kg	4.9 UJ	--	**6.0**	4.9 U	5.0 U	--	5.0 U	4.9 U	4.7 U	4.9 U	4.8 U	63
Dibutyl Phthalate	µg/kg	**63 J**	--	20 U	20 U	59 U	--	20 U	**36**	**24**	**24**	19 U	1,400
Diethyl Phthalate	µg/kg	**47**	--	20 UJ	**33**	59 U	--	20 UJ	**18 J**	**34**	20 UJ	19 U	200
Dimethyl Phthalate	µg/kg	39 U	--	20 U	20 U	59 U	--	20 U	20 U	19 U	20 U	19 U	71
Di-N-Octyl Phthalate	µg/kg	39 U	--	20 U	20 U	59 U	--	20 U	20 U	19 U	20 U	19 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**68 J**	**21.9 J**	**21 J**	**24 J**	**81**	**80**	25 U	**16 J**	**21 J**	24 U	24 U	29
2-Methylphenol (o-Cresol)	µg/kg	39 U	**27**	**20**	20 U	59 U	20.0 U	20 U	20 U	**49**	20 U	19 U	63
4-Methylphenol (p-Cresol)	µg/kg	**3,000**	**249**	**720**	**1,300**	**4,300**	**1,260**	**150**	**680 J**	**560**	**40**	19 U	670
Pentachlorophenol	µg/kg	200 UJ	96.3 U	97 U	98 UJ	300 UJ	99.8 U	99 U	98 UJ	94 UJ	97 U	96 UJ	360
Phenol	µg/kg	**650 J**	**42.7**	**440**	**240 J**	**140**	**54.2**	**200**	**140 J**	**66 J**	**24**	19 U	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**24**	**6.1**	**4.9**	**18**	**20**	**7.0**	**16**	**8.1**	**10**	**15**	**2.2**	15
Hexachlorobutadiene	mg/kg OC	0.11 U	0.17 U	0.067 U	0.12 U	**0.054 J**	0.14 U	0.5 U	0.12 U	0.22 U	1.3 U	1.1 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.11 U	0.684 U	0.067 U	0.12 U	0.077 U	**0.3**	0.5 U	0.12 U	0.22 U	1.3 U	1.1 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**1,100**	**171**	**360**	**740**	**1,000**	**259**	**160**	**320**	**220**	**58**	**9.9**	540
Hexachlorobutadiene	µg/kg	4.9 U	4.8 U	4.9 U	4.9 U	**3.5 J**	5.0 U	5.0 U	4.9 U	4.7 U	4.9 U	4.8 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	4.9 U	19.3 U	4.9 U	4.9 U	5.0 U	**10.4 J**	5.0 U	4.9 U	4.7 U	4.9 U	4.8 U	28
Benzoic Acid	µg/kg	**650 J**	**145 J**	**200**	**340**	**280 J**	**137 J**	**100 J**	**140 J**	**130 J**	200 U	190 U	650
Benzyl Alcohol	µg/kg	**59 J**	19.3 U	**52**	**37 J**	59 UJ	20.0 U	**33**	20 U	**25 J**	20 U	19 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**1.42 J**	--	**0.029 J**	**0.68 J**	**10.1 J**	**0.12 J**	**19.6 J**	--	**0.15 J**	**0.63 J**	**0.22 J**	12

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10	
Sample Date		10/29/15	10/29/2015	10/20/15	10/28/15	10/28/15	10/28/2015	10/20/15	10/28/15	10/28/15	10/20/15	10/21/15	
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**66.4 J**	--	**2.14 J**	**27.8 J**	**657 J**	**4.58 J**	195 J	--	3.11 J	**2.39 J**	**0.988 J**	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10	
Sample Date		10/29/15	10/29/2015	10/20/15	10/28/15	10/28/15	10/28/2015	10/20/15	10/28/15	10/28/15	10/20/15	10/21/15	
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	Pass	--	--	--	Pass	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	Pass	--	--	--	Pass	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	Pass	--	--	--	**Fail**	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20_0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04	
Sample Date		10/21/15	10/28/15	10/28/15	10/21/15	10/21/15	10/21/15	10/20/15	10/20/15	10/29/2015	10/21/15	10/21/15	
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<5	<5	<1	<1	<1	**10**	<5	<1	**10**	**10**	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**0.124**	**0.415**	**0.499**	**0.291**	**0.257**	**0.766**	**3.70**	**3.83**	**0.940**	**5.30 J**	**1.8**	NE
Total Volatile Solids (TVS)	Percent	**1.4**	**2.8**	**2.3**	**1.5**	**1.5**	**2.6**	**7.3**	**12.0**	**4.0**	**15.6**	**13.2**	NE
Total Solids (TS)	Percent	**80.0**	**72.9**	**74.9**	**74.0**	**74.4**	**72.5**	**60.5**	**51.6**	**70.5**	**48.5**	**53.5**	NE
Total Ammonia	mg-N/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	**1.45**	--	--	**1.44**	**3.90**	**9.00**	**7.29**	**8.99**	--	**6.51**	**5.70**	NE
Total Sulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Sulfide	mg/L	**0.24**	--	--	0.050 U	**0.05**	**0.09**	**0.70**	**0.60**	--	**0.239 J**	**0.438 J**	NE
Porewater pH	pH	**7.77**	--	--	**7.59**	**7.58**	**7.66**	**7.57**	**7.54**	--	**7.49**	**7.51**	NE
Grain Size													
Gravel	%	**20.3**	**5.2**	**1.6**	**2.1**	**0.4**	**0.9**	**1.4**	**3.9**	--	**1.5**	**1.9**	NE
Very Coarse Sand	%	**5.4**	**1.3**	**1.4**	**0.7**	**2.2**	**2.5**	**1.2**	**1.5**	--	**2**	**2.3**	NE
Coarse Sand	%	**36.4**	**5.5**	**5.7**	**4.4**	**16.4**	**14.8**	**1.9**	**1.9**	--	**2.6**	**2.4**	NE
Medium Sand	%	**31.4**	**17.1**	**19.2**	**34.4**	**44.4**	**33.1**	**6.6**	**4.2**	--	**6.1**	**5.4**	NE
Fine Sand	%	**4.4**	**23.9**	**28.5**	**34.3**	**27.2**	**21.9**	**13.5**	**8.7**	--	**12.6**	**11.8**	NE
Very Fine Sand	%	**1.9**	**23.3**	**23**	**19.1**	**5**	**15.1**	**29**	**22**	--	**20.2**	**22.1**	NE
Coarse Silt	%	0.2 U	**11.5**	**10.7**	**2.7**	**0.8**	**5.3**	**19.7**	**17.7**	--	**15.3**	**15.5**	NE
Medium Silt	%	0.2 U	**6.1**	**4.9**	**0.5**	**0.8**	**1.6**	**7.8**	**10.9**	--	**9.6**	**9.5**	NE
Fine Silt	%	0.2 U	**2.1**	**1.8**	**0.2**	**0.6**	**1.4**	**4.5**	**7.1**	--	**7.9**	**7**	NE
Very Fine Silt	%	0.2 U	**1.3**	**0.9**	**0.2**	**0.3**	**0.6**	**3**	**5.2**	--	**5.4**	**5.3**	NE
Clay	%	0.2 U	**2.8**	**2.3**	**1.4**	**1.9**	**2.8**	**11.3**	**16.8**	--	**16.8**	**17**	NE
Total Fines	%	**0.2**	**23.7**	**20.7**	**4.9**	**4.5**	**11.7**	**46.3**	**57.7**	--	**55**	**54.2**	NE
Metals													
Arsenic	mg/kg	**11**	**13**	**12**	**9**	**9**	**11**	**19**	**23**	--	**20**	**20**	57
Cadmium	mg/kg	0.2 U	**0.135 J**	**0.096 J**	0.068 U	**0.3**	**0.250 J**	**0.7**	**1.4**	--	**1**	**1.1**	5.1
Chromium	mg/kg	**27.7**	**39**	**34.1**	**30.8**	**18.1**	**32.3**	**45.3**	**52.4**	--	**48**	**46**	260
Copper	mg/kg	**13.7**	**32.3**	**25.4**	**13.2**	**12.7**	**15.1**	**162**	**58**	--	**50.2**	**46.9**	390
Lead	mg/kg	**11**	**11**	**11**	**8**	**8**	**7**	**19**	**30**	--	**25**	**26**	450
Mercury	mg/kg	**0.0127 J**	**0.04**	**0.05**	**0.0094 J**	**0.0138 J**	**0.05**	**0.11**	**0.15**	--	**0.13**	**0.15**	0.41
Silver	mg/kg	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5 U	**0.15 J**	--	**0.10 J**	**0.16 J**	6.1
Zinc	mg/kg	**42**	**51**	**47**	**39**	**30**	**41**	**100**	**118**	--	**85**	**82**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**9 J**	**67.2 J**	**39.9 J**	**0.9 J**	**3.6 J**	**33**	**48.9**	**66.6**	**83.1**	**64.2**	**147**	370
2-Methylnaphthalene	mg/kg OC	**2.6 J**	**2.7**	**2.2**	1.6 U	1.8 U	**2.3**	**3.2**	**5**	**5.8**	**5**	**10**	38
Acenaphthene	mg/kg OC	4 U	**3.9**	**2.6**	1.6 U	1.8 U	**4.4**	**4.3**	**6.8**	**4.5**	**6.7**	**14**	16

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20_0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04	
Sample Date		10/21/15	10/28/15	10/28/15	10/21/15	10/21/15	10/21/15	10/20/15	10/20/15	10/29/2015	10/21/15	10/21/15	
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	4 U	**5.3 J**	**2.8 J**	1.6 U	1.8 U	**1**	**2**	**3**	**6.3**	**2.4**	**5**	66
Anthracene	mg/kg OC	4 U	**8.7**	**4.8**	1.6 U	1.8 U	**5.1**	**4.3**	**5.5**	**6.8**	**5.9**	**14**	220
Fluorene	mg/kg OC	4 U	**6.3 J**	**3.6 J**	1.6 U	1.8 U	**3.8**	**4.9**	**7.3**	**5.5**	**7.2**	**20**	23
Naphthalene	mg/kg OC	**3 J**	**17**	**11**	1.6 U	**1.1 J**	**8.1**	**21**	**30**	**38.1**	**24**	**60**	99
Phenanthrene	mg/kg OC	**6**	**27**	**15**	**0.9 J**	**2.5**	**9.9**	**12**	**20**	**21.9**	**18**	**40**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**11.1 J**	**279 J**	**199 J**	**2.5 J**	**9.3 J**	**250**	**1,810**	**2,550**	**781**	**3,460**	**2,710**	5,200
2-Methylnaphthalene	µg/kg	**3.2 J**	**11**	**11**	4.6 U	4.7 U	**18**	**120**	**190**	**54.8**	**270**	**200**	670
Acenaphthene	µg/kg	4.9 U	**16**	**13**	4.6 U	4.7 U	**34**	**160**	**260**	**42.7**	**360**	**250**	500
Acenaphthylene	µg/kg	4.9 U	**22 J**	**14 J**	4.6 U	4.7 U	**10**	**90**	**100**	**59**	**130**	**100**	1,300
Anthracene	µg/kg	4.9 U	**36**	**24**	4.6 U	4.7 U	**39**	**160**	**210**	**64.2**	**320**	**260**	960
Fluorene	µg/kg	4.9 U	**26 J**	**18 J**	4.6 U	4.7 U	**29**	**180**	**280**	**51.3**	**390**	**300**	540
Naphthalene	µg/kg	**3.7 J**	**69**	**55**	4.6 U	**2.9 J**	**62**	**770**	**1,000**	**358**	**1,300**	**1,100**	2,100
Phenanthrene	µg/kg	**7.4**	**110**	**75**	**2.5 J**	**6.4**	**76**	**450**	**700**	**206**	**960**	**700**	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**26.8 J**	**156.1 J**	**80.4 J**	**8.5 J**	**37.2 J**	**50.6 J**	**36**	**42.8**	**61 J**	**45.7 J**	**111.3 J**	960
Benzo(a)anthracene	mg/kg OC	**2.3 J**	**13 J**	**5.4 J**	1.6 U	**3**	**4.2**	**2.6**	**3**	**4.2**	**2.8**	**7.6**	110
Benzo(a)pyrene	mg/kg OC	**2.7 J**	**14 J**	**6 J**	1.6 U	**5.1**	**3**	**1.8**	**2.1**	**4**	**1.7**	**5**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**5.6**	**27 J**	**10 J**	**1.9**	**5.8**	**6.1**	**4.3**	**4.7**	**7.1**	**4.3**	**12**	230
Benzo(g,h,i)perylene	mg/kg OC	4 U	**8.7 J**	**4.6 J**	1.6 U	**1.7 J**	**1.7**	**1**	**1.4**	**3.8**	**1**	**3**	31
Chrysene	mg/kg OC	**3.7 J**	**18 J**	**7.4 J**	**1.5 J**	**4**	**5**	**3.2**	**3.1**	**5.4**	**3.3**	**9.8**	110
Dibenzo(a,h)anthracene	mg/kg OC	4 U	**2.3**	**1.1**	1.6 U	1.8 U	**0.3 J**	**0.2**	**0.3**	**0.4 J**	**0.2 J**	**0.6 J**	12
Fluoranthene	mg/kg OC	**6.8**	**39**	**22**	**2.9**	**6.6**	**14**	**11**	**15**	**19.8**	**16**	**37**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	4 U	**7 J**	**3.6 J**	1.6 U	**1.4 J**	**1**	**0.9**	**1.1**	**2.4**	**0.85**	**2**	34
Pyrene	mg/kg OC	**5.6**	**29**	**18**	**2.3**	**9.7**	**14**	**11**	**13**	**13.5**	**15**	**35**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**33.2 J**	**647.7 J**	**401.3 J**	**24.8 J**	**95.5 J**	**387.6 J**	**1,333**	**1,639**	**570 J**	**2,461 J**	**2,047 J**	12,000
Benzo(a)anthracene	µg/kg	**2.9 J**	**52 J**	**27 J**	4.6 U	**7.6**	**32**	**97**	**100**	**39.7**	**150**	**140**	1,300
Benzo(a)pyrene	µg/kg	**3.3 J**	**57 J**	**30 J**	4.6 U	**13**	**23**	**66**	**82**	**37.9**	**94**	**90**	1,600
Benzofluoranthenes[6] (Total)	µg/kg	**7**	**110 J**	**60 J**	**5.5**	**15**	**47**	**160**	**180**	**66.5**	**230**	**220**	3,200
Benzo(g,h,i)perylene	µg/kg	4.9 U	**36 J**	**23 J**	4.6 U	**4.4 J**	**13**	**40**	**54**	**35.5**	**60**	**50**	670
Chrysene	µg/kg	**4.6 J**	**73 J**	**37 J**	**4.3 J**	**10**	**40**	**120**	**120**	**50.9**	**180**	**180**	1,400
Dibenzo(a,h)anthracene	µg/kg	4.9 U	**9.7**	**5.3**	4.6 U	4.7 U	**2.6 J**	**8.4**	**12**	**4.03 J**	**11 J**	**11 J**	230
Fluoranthene	µg/kg	**8.4**	**160**	**110**	**8.4**	**17**	**110**	**420**	**570**	**186**	**880**	**680**	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	4.9 U	**30 J**	**18 J**	4.6 U	**3.5 J**	**10**	**32**	**41**	**22.5**	**46**	**36**	600
Pyrene	µg/kg	**7**	**120**	**91**	**6.6**	**25**	**110**	**390**	**480**	**127**	**810**	**640**	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	4 U	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	0.13 U	0.13 U	--	**0.046 J**	0.27 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	4 U	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	**0.11 J**	**0.11 J**	--	**0.063 J**	**0.17 J**	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	4 U	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	**0.21**	**0.31**	--	**0.11**	**0.34**	3.1
Hexachlorobenzene	mg/kg OC	4 U	1.1 UJ	0.94 UJ	1.6 U	1.8 U	0.64 U	0.13 U	0.13 U	--	0.093 U	0.27 U	0.38

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20_0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04	
Sample Date		10/21/15	10/28/15	10/28/15	10/21/15	10/21/15	10/21/15	10/20/15	10/20/15	10/29/2015	10/21/15	10/21/15	
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	4.9 U	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	4.7 U	4.8 U	--	**2.5 J**	4.9 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	4.9 U	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	**4.0 J**	**4.4 J**	--	**3.4 J**	**3.2 J**	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	4.9 U	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	**7.9**	**12**	--	**6.1**	**6.3**	110
Hexachlorobenzene	µg/kg	4.9 U	4.7 UJ	4.7 UJ	4.6 U	4.7 U	4.9 U	4.7 U	4.8 U	--	5.0 U	4.9 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	40 U	11 U	9.4 U	16 U	18 U	6.4 U	**1.4**	1.3 U	--	**0.91 J**	**1.8 J**	47
Butyl Benzyl Phthalate	mg/kg OC	**12**	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	0.13 U	0.13 U	--	0.093 U	0.27 U	4.9
Dibutyl Phthalate	mg/kg OC	20 U	**5.3**	**4.4**	6.2 U	7.4 U	3 U	0.51 U	0.5 U	--	0.4 U	1 U	220
Diethyl Phthalate	mg/kg OC	20 U	4.6 U	3.8 U	6.2 U	7.4 U	3 U	0.51 UJ	0.5 UJ	--	0.4 U	1 U	61
Dimethyl Phthalate	mg/kg OC	20 U	4.6 U	3.8 U	6.2 U	7.4 U	3 U	0.51 U	0.5 U	--	0.4 U	1 U	53
Di-N-Octyl Phthalate	mg/kg OC	20 U	4.6 U	3.8 U	6.2 U	7.4 U	3 U	0.51 U	0.5 U	--	0.4 U	1 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	49 U	47 U	47 U	46 U	47 U	49 U	**51**	48 U	--	**49 J**	**34 J**	1,300
Butyl Benzyl Phthalate	µg/kg	**15**	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	4.7 U	4.8 U	--	5.0 U	4.9 U	63
Dibutyl Phthalate	µg/kg	20 U	**22**	**22**	18 U	19 U	20 U	19 U	19 U	--	20 U	20 U	1,400
Diethyl Phthalate	µg/kg	20 U	19 U	19 U	18 U	19 U	20 U	19 UJ	19 UJ	--	20 U	20 U	200
Dimethyl Phthalate	µg/kg	20 U	19 U	19 U	18 U	19 U	20 U	19 U	19 U	--	20 U	20 U	71
Di-N-Octyl Phthalate	µg/kg	20 U	19 U	19 U	18 U	19 U	20 U	19 U	19 U	--	20 U	20 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	25 U	24 U	23 U	23 U	24 U	24 U	24 U	**22 J**	24.3 U	**22 J**	**17 J**	29
2-Methylphenol (o-Cresol)	µg/kg	20 U	19 U	19 U	18 U	19 U	20 U	**7.5 J**	**17 J**	19.4 U	20 U	20 U	63
4-Methylphenol (p-Cresol)	µg/kg	20 U	**42 J**	**95 J**	18 U	19 U	**20**	**250**	**740**	**75.5**	**1,400**	**1,200**	670
Pentachlorophenol	µg/kg	98 UJ	94 UJ	93 UJ	93 UJ	94 UJ	97 UJ	94 U	96 U	97.1 U	**34 J**	98 UJ	360
Phenol	µg/kg	20 U	**18 J**	**25 J**	18 U	15 U	22 U	**110**	**370**	**16.8 J**	**820 J**	**300 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**2.3 J**	**5.5 J**	**3.4 J**	1.6 U	1.8 U	**4.4**	**5.0**	**7.3**	**5.9**	**8.2**	**17**	15
Hexachlorobutadiene	mg/kg OC	4 U	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	0.13 U	0.13 U	0.52 U	0.093 U	0.27 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	4 U	1.1 U	0.94 U	1.6 U	1.8 U	0.64 U	**0.13**	0.13 U	2.06 U	0.093 U	0.27 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**2.8 J**	**23 J**	**17 J**	4.6 U	4.7 U	**34**	**200**	**280**	**55.7**	**440**	**310**	540
Hexachlorobutadiene	µg/kg	4.9 U	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	4.7 U	4.8 U	4.9 U	5.0 U	4.9 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	4.9 U	4.7 U	4.7 U	4.6 U	4.7 U	4.9 U	**4.7**	4.8 U	19.4 U	5.0 U	4.9 U	28
Benzoic Acid	µg/kg	200 U	190 U	190 U	180 U	190 U	200 U	**160 J**	**250**	194 U	**450**	**530**	650
Benzyl Alcohol	µg/kg	20 UJ	19 U	19 U	18 U	19 U	20 U	**17 J**	**42**	19.4 U	20 U	20 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**2.56 J**	--	--	**0.13 J**	--	--	**0.043 J**	**0.19 J**	**0.15 J**	**1.29 J**	**0.40 J**	12

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20_0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04	
Sample Date		10/21/15	10/28/15	10/28/15	10/21/15	10/21/15	10/21/15	10/20/15	10/20/15	10/29/2015	10/21/15	10/21/15	
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	**3.17 J**	--	--	**0.38 J**	--	--	**1.6 J**	**7.11 J**	1.44 J	**69.3 J**	7.27 J	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	0.99 U	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	0.99 U	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	0.99 U	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	0.99 U	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	0.49 U	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	0.49 U	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	0.49 U	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	0.49 U	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	0.99 U	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	0.49 U	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20_0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04	
Sample Date		10/21/15	10/28/15	10/28/15	10/21/15	10/21/15	10/21/15	10/20/15	10/20/15	10/29/2015	10/21/15	10/21/15	
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	Pass	--	Pass	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	Pass	--	Pass	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	Pass	--	Pass	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-28		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-28_0-10	MAF-SS-DUP-05	
Sample Date		10/29/15	10/29/15	10/29/2015	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	
Field Screening													
Visual Wood Content[3]	%	**10**	**10**	<1	<1	<1	<1	<1	<1	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**5.30**	**4.34**	**1.14**	**6.30 J**	**0.161**	**0.084**	**0.139**	**0.138**	**0.579**	**0.178**	**0.142**	NE
Total Volatile Solids (TVS)	Percent	**12.7**	**12.6**	**3.4**	**11.4**	**1.3**	**1.1**	**1.3**	**1.3**	**1.5**	**1.3**	**1.4**	NE
Total Solids (TS)	Percent	**47.9**	**44.6**	**72.7**	**56.5**	**75.3**	**77.3**	**72.9**	**77.4**	**73.3**	**80.3**	**83.2**	NE
Total Ammonia	mg-N/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	**7.44**	**4.37**	**2.59**	**5.73**	**69.10**	**12.10**	**7.98 J**	**13.0 J**	NE
Total Sulfide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Porewater Sulfide	mg/L	--	--	--	**0.17**	**0.10**	0.050 U	0.050 U	**0.30**	**0.06**	0.050 U	**0.06**	NE
Porewater pH	pH	--	--	--	**7.63**	**7.55**	**7.63**	**7.59**	**7.63**	**7.66**	**7.66**	**7.63**	NE
Grain Size													
Gravel	%	**2.4**	**7.3**	--	**2.9**	**1**	**2.1**	**0.4**	**23.5**	**0.5**	**12.9**	**10.9**	NE
Very Coarse Sand	%	**3.5**	**3.7**	--	**2.5**	**5.3**	**3.5**	**1.1**	**4.8**	**2.3**	**9.5**	**10.5**	NE
Coarse Sand	%	**3.4**	**3.5**	--	**3.9**	**15**	**13.3**	**6**	**10.9**	**9.5**	**19.6**	**19.9**	NE
Medium Sand	%	**5.3**	**4.9**	--	**8.6**	**41.3**	**42.2**	**22.4**	**29.4**	**40.1**	**29.9**	**30.7**	NE
Fine Sand	%	**6.7**	**6.8**	--	**18.5**	**31.1**	**32.3**	**57.8**	**21.4**	**29.6**	**16.7**	**16.9**	NE
Very Fine Sand	%	**13.9**	**12.4**	--	**33.2**	**3.1**	**5.2**	**9**	**4.6**	**11.3**	**7.4**	**7.5**	NE
Coarse Silt	%	**12.8**	**12**	--	**13**	3.2 U	1.3 U	3.2 U	**2.6**	**3.7**	3.9 U	3.7 U	NE
Medium Silt	%	**12.2**	**11.9**	--	**4.9**	3.2 U	1.3 U	3.2 U	**0.7**	**0.6**	3.9 U	3.7 U	NE
Fine Silt	%	**10.1**	**9.2**	--	**2.9**	3.2 U	1.3 U	3.2 U	**0.4**	**0.6**	3.9 U	3.7 U	NE
Very Fine Silt	%	**7.4**	**8**	--	**1.6**	3.2 U	1.3 U	3.2 U	**0.3**	**0.3**	3.9 U	3.7 U	NE
Clay	%	**22.2**	**20.5**	--	**7.9**	3.2 U	1.3 U	3.2 U	**1.2**	**1.5**	3.9 U	3.7 U	NE
Total Fines	%	**64.7**	**61.4**	--	**30.5**	**3.2**	**1.3**	**3.2**	**5.3**	**6.6**	**3.9**	**3.7**	NE
Metals													
Arsenic	mg/kg	**20**	**20**	--	--	--	**9**	**9**	**8**	**9**	--	--	57
Cadmium	mg/kg	**2**	**1.9**	--	--	--	0.033 U	0.054 U	0.053 U	0.074 U	--	--	5.1
Chromium	mg/kg	**59**	**57**	--	--	--	**27.5**	**26.1**	**25.3**	**31.4**	--	--	260
Copper	mg/kg	**79.6**	**86.8**	--	--	--	**11.4**	**11.7**	**11.8**	**13.9**	--	--	390
Lead	mg/kg	**44**	**46**	--	--	--	**5**	**7**	**4**	**8**	--	--	450
Mercury	mg/kg	**0.24**	**0.26**	--	--	--	**0.0123 J**	**0.0084 J**	**0.0110 J**	**0.0154 J**	--	--	0.41
Silver	mg/kg	**0.17 J**	**0.16 J**	--	--	--	0.4 U	0.4 U	0.4 U	0.4 U	--	--	6.1
Zinc	mg/kg	**109**	**109**	--	--	--	**35**	**38**	**35**	**41**	--	--	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**55.5 J**	**101 J**	**68**	**27.4**	--	5.6 U	4.0 U	**9.3**	**2.7 J**	--	--	370
2-Methylnaphthalene	mg/kg OC	**4.2 J**	**9.0 J**	**4.4**	**2.7**	--	5.6 U	4.0 U	3.6 U	0.81 U	--	--	38
Acenaphthene	mg/kg OC	**5.1**	**8.3**	**4.5**	**3.3**	--	5.6 U	4.0 U	3.6 U	0.81 U	--	--	16

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-28		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-28_0-10	MAF-SS-DUP-05	
Sample Date		10/29/15	10/29/15	10/29/2015	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	
Acenaphthylene	mg/kg OC	2.3	3.5	**5.2**	1.1	--	5.6 U	4.0 U	3.6 U	0.81 U	--	--	66
Anthracene	mg/kg OC	4	7	**6.5**	2.1	--	5.6 U	4.0 U	**2.5 J**	**0.5 J**	--	--	220
Fluorene	mg/kg OC	6.2 J	13.0 J	**5.4**	3	--	5.6 U	4.0 U	3.6 U	0.81 U	--	--	23
Naphthalene	mg/kg OC	23	41	**26.7**	14.1	--	5.6 U	4.0 U	3.6 U	**0.6 J**	--	--	99
Phenanthrene	mg/kg OC	15	28	**19**	6.6	--	5.6 U	4.0 U	6.8	**1.7**	--	--	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	**2,940**	**4,390 J**	770	**1,740**	--	4.7 U	5.6 U	**12.8 J**	15.8 J	--	--	5,200
2-Methylnaphthalene	µg/kg	**220 J**	**400 J**	50.4	**171**	--	4.7 U	5.6 U	5.0 U	4.7 U	--	--	670
Acenaphthene	µg/kg	**270**	**360**	50.9	**210**	--	4.7 U	5.6 U	5.0 U	4.7 U	--	--	500
Acenaphthylene	µg/kg	**120**	**150**	58.7	**67**	--	4.7 U	5.6 U	5.0 U	4.7 U	--	--	1,300
Anthracene	µg/kg	**200**	**300**	74	**127**	--	4.7 U	5.6 U	**3.4 J**	2.6 J	--	--	960
Fluorene	µg/kg	**330 J**	**580 J**	61.9	**184**	--	4.7 U	5.6 U	5.0 U	4.7 U	--	--	540
Naphthalene	µg/kg	**1,200**	**1,800**	304	**787**	--	4.7 U	5.6 U	5.0 U	3.5 J	--	--	2,100
Phenanthrene	µg/kg	**820**	**1,200**	220	**368**	--	4.7 U	5.6 U	**9.4**	9.7	--	--	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	38.3	64	--	17	--	5.6 U	4 U	39.4 J	**9.8 J**	--	--	960
Benzo(a)anthracene	mg/kg OC	2.1	3.7	--	1	--	5.6 U	4 U	3.8	**0.8 J**	--	--	110
Benzo(a)pyrene	mg/kg OC	1.2	2.2	--	0.7	--	5.6 U	4 U	3.9	**1.1**	--	--	99
Benzofluoranthenes[6] (Total)	mg/kg OC	3	5.5	--	1.7	--	5.6 U	4 U	6.2	**2**	--	--	230
Benzo(g,h,i)perylene	mg/kg OC	0.9	2	--	0.5	--	5.6 U	4 U	2.7 J	**0.9**	--	--	31
Chrysene	mg/kg OC	2.3	4.4	--	1.4	--	5.6 U	4 U	4.4	**1**	--	--	110
Dibenzo(a,h)anthracene	mg/kg OC	0.1	0.3	--	0.1	--	5.6 U	4 U	3.6 U	0.8 U	--	--	12
Fluoranthene	mg/kg OC	16	25	--	6.5	--	5.6 U	4 U	7	**1.9**	--	--	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	0.6	1	--	0.4	--	5.6 U	4 U	2.5 J	**0.7 J**	--	--	34
Pyrene	mg/kg OC	12	20	--	4.9	--	5.6 U	4 U	8.7	**1.6**	--	--	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	**2,029**	**2,779**	--	**1,080**	--	4.7 U	5.6 U	**54.4 J**	56.6 J	--	--	12,000
Benzo(a)anthracene	µg/kg	**110**	**160**	--	**62.2**	--	4.7 U	5.6 U	**5.2**	4.6 J	--	--	1,300
Benzo(a)pyrene	µg/kg	**64**	**96**	--	**43**	--	4.7 U	5.6 U	**5.4**	6.3	--	--	1,600
Benzofluoranthenes[6] (Total)	µg/kg	**160**	**240**	--	**108**	--	4.7 U	5.6 U	**8.5**	10	--	--	3,200
Benzo(g,h,i)perylene	µg/kg	**48**	**70**	--	**29.5**	--	4.7 U	5.6 U	**3.7 J**	5.2	--	--	670
Chrysene	µg/kg	**120**	**190**	--	**86.2**	--	4.7 U	5.6 U	**6.1**	5.9	--	--	1,400
Dibenzo(a,h)anthracene	µg/kg	**7.2**	**11**	--	**6.42**	--	4.7 U	5.6 U	5.0 U	4.7 U	--	--	230
Fluoranthene	µg/kg	**850**	**1,100**	--	**364**	--	4.7 U	5.6 U	**10**	11	--	--	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	**30**	**42**	--	**22.6**	--	4.7 U	5.6 U	**3.5 J**	4.2 J	--	--	600
Pyrene	µg/kg	**640**	**870**	--	**283**	--	4.7 U	5.6 U	**12**	9.4	--	--	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.092 U	0.11 U	--	--	--	5.6 U	3.4 U	3.6 U	0.81 U	--	--	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	**0.085 J**	**0.069 J**	--	--	--	5.6 U	3.4 U	3.6 U	0.81 U	--	--	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	**0.13**	**0.15**	--	--	--	5.6 U	3.4 U	3.6 U	0.81 U	--	--	3.1
Hexachlorobenzene	mg/kg OC	0.092 UJ	0.11 UJ	--	--	--	5.6 U	3.4 U	3.6 U	0.81 U	--	--	0.38

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-28		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-28_0-10	MAF-SS-DUP-05	
Sample Date		10/29/15	10/29/15	10/29/2015	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	4.9 U	4.8 U	--	--	--	4.7 U	4.7 U	5.0 U	4.7 U	--	--	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	**4.5 J**	**3.0 J**	--	--	--	4.7 U	4.7 U	5.0 U	4.7 U	--	--	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	**7.0**	**6.5**	--	--	--	4.7 U	4.7 U	5.0 U	4.7 U	--	--	110
Hexachlorobenzene	µg/kg	4.9 UJ	4.8 UJ	--	--	--	4.7 U	4.7 U	5.0 U	4.7 U	--	--	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	**1.8 J**	2.2 U	--	--	--	60 U	34 U	33 U	8.1 U	--	--	47
Butyl Benzyl Phthalate	mg/kg OC	0.092 U	0.11 U	--	--	--	5.6 U	3.4 U	3.6 U	0.81 U	--	--	4.9
Dibutyl Phthalate	mg/kg OC	**0.66 J**	0.9 U	--	--	--	20 U	14 U	13 U	3.3 U	--	--	220
Diethyl Phthalate	mg/kg OC	0.74 U	0.9 U	--	--	--	20 U	14 U	13 U	3.3 U	--	--	61
Dimethyl Phthalate	mg/kg OC	0.74 U	0.9 U	--	--	--	20 U	14 U	13 U	3.3 U	--	--	53
Di-N-Octyl Phthalate	mg/kg OC	0.74 U	0.9 U	--	--	--	20 U	14 U	13 U	3.3 U	--	--	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	**94 J**	97 U	--	--	--	50 U	47 U	46 U	47 U	--	--	1,300
Butyl Benzyl Phthalate	µg/kg	4.9 U	4.8 U	--	--	--	4.7 U	4.7 U	5.0 U	4.7 U	--	--	63
Dibutyl Phthalate	µg/kg	**35 J**	39 U	--	--	--	20 U	19 U	18 U	19 U	--	--	1,400
Diethyl Phthalate	µg/kg	39 U	39 U	--	--	--	20 U	19 U	18 U	19 U	--	--	200
Dimethyl Phthalate	µg/kg	39 U	39 U	--	--	--	20 U	19 U	18 U	19 U	--	--	71
Di-N-Octyl Phthalate	µg/kg	39 U	39 U	--	--	--	20 U	19 U	18 U	19 U	--	--	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**25**	**20 J**	24.2 U	**12.1 J**	--	23 U	24 U	25 U	24 U	--	--	29
2-Methylphenol (o-Cresol)	µg/kg	39 U	39 U	19.3 U	19.9 U	--	20 U	19 U	18 U	19 U	--	--	63
4-Methylphenol (p-Cresol)	µg/kg	**3,100**	**2,200**	**31**	**825**	--	20 U	19 U	18 U	19 U	--	--	670
Pentachlorophenol	µg/kg	200 UJ	190 UJ	96.6 U	99.4 U	--	100 UJ	95 UJ	92 UJ	94 UJ	--	--	360
Phenol	µg/kg	**160**	**130**	**16.1 J**	**242**	--	20 U	12 U	18 U	11 U	--	--	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**6.0**	**10**	--	**3.3**	11.7 U	5.6 U	4 U	3.6 U	0.81 U	--	--	15
Hexachlorobutadiene	mg/kg OC	0.092 U	0.11 U	--	0.079 U	2.9 U	5.6 U	3.4 U	3.6 U	0.81 U	--	--	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.092 U	0.11 U	--	0.079 U	2.9 U	5.6 U	3.4 U	3.6 U	0.81 U	--	--	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**300**	**440**	--	**206**	18.9 U	4.7 U	5.6 U	5.0 U	4.7 U	--	--	540
Hexachlorobutadiene	µg/kg	4.9 U	4.8 U	--	5.0 U	4.7 U	4.7 U	4.7 U	5.0 U	4.7 U	--	--	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	4.9 U	4.8 U	--	5.0 U	4.7 U	4.7 U	4.7 U	5.0 U	4.7 U	--	--	28
Benzoic Acid	µg/kg	**450**	**240 J**	--	**583**	189 U	200 U	190 U	180 U	190 U	--	--	650
Benzyl Alcohol	µg/kg	39 UJ	39 UJ	--	**38.9**	18.9 U	20 U	19 U	18 U	19 U	--	--	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	**0.003 J**	**0.034 J**	--	--	**0.16 J**	--	**0.076 J**	--	--	12

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-28		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-28_0-10	MAF-SS-DUP-05	
Sample Date		10/29/15	10/29/15	10/29/2015	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	0.035 J	**2.14 J**	--	--	**0.23 J**	--	0.44 J	--	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-28		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-28_0-10	MAF-SS-DUP-05	
Sample Date		10/29/15	10/29/15	10/29/2015	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15	
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	Pass	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	Pass	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	**Fail**	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-29	MAF-30		MAF-31	MAF-32	MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-29_0-10	MAF-SS-30_0-10	MAF-SS-DUP-03	MAF-SS-31_0-10	MAF-SS-32_0-10	MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	
Sample Date		10/21/15	10/21/15	10/21/15	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/19/15	10/19/15	09/13/2016	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	10	40	<1	<1	<1	10	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	0.108	0.125	0.131	4.76	1.25	1.47	1.88	1.66	5.45	2.12	1.59	NE
Total Volatile Solids (TVS)	Percent	1.1	1.2	1.8	13.6	3.7	5.1	5.0	4.7	10.9	4.0	7.0	NE
Total Solids (TS)	Percent	78.4	75.6	76.4	49.2	67.2	63.7	63.5	67.4	50.5	58.4	55.8	NE
Total Ammonia	mg-N/kg	--	--	--	5.46	9.68	--	--	--	--	--	--	NE
Porewater Ammonia	mg-N/L	7.46	7.79	6.49	8.03	23.90	24.20	23.70	22.0	9.82	35.40	5.55	NE
Total Sulfide	mg/kg	--	--	--	157	700	--	--	338	--	--	--	NE
Porewater Sulfide	mg/L	1.20	0.341 J	0.056 J	30.50	0.27	10.9 J	0.458 J	0.13	8.32	0.12	0.050 U	NE
Porewater pH	pH	7.77	7.68	7.67	7.54	7.91	7.72	7.70	7.51	7.68	7.69	7.51	NE
Grain Size													
Gravel	%	6.4	3.3	2.2	3.4	24.9	1.1	0.8	26.8	4.4	45.7	--	NE
Very Coarse Sand	%	10.1	6.1	5.5	3.4	5.9	1.5	1.4	16.8	3.9	14.7	--	NE
Coarse Sand	%	21.6	16	16	7.2	17.1	7	6.9	16.9	4.8	9	--	NE
Medium Sand	%	42.5	40.5	41	17.7	21.6	28.1	28.5	11.3	10.2	10.3	--	NE
Fine Sand	%	15.6	26.1	26.4	20.6	12.5	29.2	28.4	8.5	10.1	5.7	--	NE
Very Fine Sand	%	1.2	5.2	5.3	14	6.7	16.8	16.9	9.5	17.6	4.6	--	NE
Coarse Silt	%	2.6 U	2.8 U	3.6 U	9.3	1.7	4.2	5.4	3	10.8	0.7	--	NE
Medium Silt	%	2.6 U	2.8 U	3.6 U	6.1	2.6	4.4	2.6	3.1	9.5	4.7	--	NE
Fine Silt	%	2.6 U	2.8 U	3.6 U	4.5	2	2	2.1	1.1	7.2	1.2	--	NE
Very Fine Silt	%	2.6 U	2.8 U	3.6 U	3.2	1	1.3	1.6	0.6	5	0.5	--	NE
Clay	%	2.6 U	2.8 U	3.6 U	10.4	4	4.5	5.2	2.4	16.7	2.9	--	NE
Total Fines	%	2.6	2.8	3.6	33.6	11.3	16.3	16.9	10.1	49.1	10	--	NE
Metals													
Arsenic	mg/kg	--	--	--	10	13	14	13	20	--	40 U	--	57
Cadmium	mg/kg	--	--	--	1.1	0.291 J	0.3	0.4	0.356 J	--	0.50 J	--	5.1
Chromium	mg/kg	--	--	--	36	23.4	27.6	30.6	25	--	9	--	260
Copper	mg/kg	--	--	--	35.7	16.3	19.3	18.9	24.5	--	13	--	390
Lead	mg/kg	--	--	--	22	6	9	7	11	--	20 U	--	450
Mercury	mg/kg	--	--	--	0.11	0.04 U	0.03 U	0.04 U	0.07	--	0.03	--	0.41
Silver	mg/kg	--	--	--	0.6 U	0.4 U	0.5 U	0.5 U	1 U	--	2 U	--	6.1
Zinc	mg/kg	--	--	--	79	37	45	45	66	--	32	--	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	--	--	--	78	98.2	139	97.6	155	57.2	85.8	--	370
2-Methylnaphthalene	mg/kg OC	--	--	--	7.8	8.8	12	8.5	15	7.2	6.6	--	38
Acenaphthene	mg/kg OC	--	--	--	7.8	14	17	12	23	6.2	11	--	16

Sample Location[1]		MAF-29	MAF-30		MAF-31	MAF-32	MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-29_0-10	MAF-SS-30_0-10	MAF-SS-DUP-03	MAF-SS-31_0-10	MAF-SS-32_0-10	MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	
Sample Date		10/21/15	10/21/15	10/21/15	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/19/15	10/19/15	09/13/2016	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	--	--	--	3.2	**3**	**3.9**	**2.9**	**3.5**	2.6	**2**	--	66
Anthracene	mg/kg OC	--	--	--	5	**20**	**10**	**9.6**	**13**	4.8	**13**	--	220
Fluorene	mg/kg OC	--	--	--	8.6	**12**	**17**	**12**	**19**	7.7	**12**	--	23
Naphthalene	mg/kg OC	--	--	--	36	**34**	**54**	**40**	**56**	22	**15**	--	99
Phenanthrene	mg/kg OC	--	--	--	17	**20**	**33**	**20**	**41**	14	**33**	--	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	--	--	--	**3,700**	1,228	2,040	1,834	2,568	**3,120**	1,820	--	5,200
2-Methylnaphthalene	µg/kg	--	--	--	**370**	110	180	160	250	**390**	140	--	670
Acenaphthene	µg/kg	--	--	--	**370**	170	250	230	380	**340**	240	--	500
Acenaphthylene	µg/kg	--	--	--	**150**	38	58	54	58	**140**	40	--	1,300
Anthracene	µg/kg	--	--	--	**240**	200	200	180	210	**260**	280	--	960
Fluorene	µg/kg	--	--	--	**410**	150	250	220	310	**420**	250	--	540
Naphthalene	µg/kg	--	--	--	**1,700**	420	790	750	930	**1,200**	320	--	2,100
Phenanthrene	µg/kg	--	--	--	**830**	250	490	400	680	**760**	690	--	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	--	--	--	33.8	**133.7**	**105.5 J**	**71.4 J**	**101.1**	41.1	**111.3 J**	--	960
Benzo(a)anthracene	mg/kg OC	--	--	--	2.3	**13**	**9.5**	**5.9**	**8.4**	2.6	**9**	--	110
Benzo(a)pyrene	mg/kg OC	--	--	--	1.5	**6.2**	**4.8**	**3.1**	**5.1**	2	**4.6**	--	99
Benzofluoranthenes[6] (Total)	mg/kg OC	--	--	--	3.8	**14**	**12**	**7.4**	**10**	4.8	**11**	--	230
Benzo(g,h,i)perylene	mg/kg OC	--	--	--	0.8	**2.2**	**2.2 J**	**1.2 J**	**2**	0.9	**1.7**	--	31
Chrysene	mg/kg OC	--	--	--	4	**14**	**16 J**	**7.4 J**	**10**	3.3	**14**	--	110
Dibenzo(a,h)anthracene	mg/kg OC	--	--	--	0.23	**0.7**	**0.56**	**0.36**	**0.6**	0.22	**0.5 J**	--	12
Fluoranthene	mg/kg OC	--	--	--	11	**44**	**31**	**24**	**33**	12	**35**	--	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	--	--	--	0.71	**2.2**	**1.9 J**	**1.2 J**	**1.9**	0.72	**1.7**	--	34
Pyrene	mg/kg OC	--	--	--	8.8	**37**	**28**	**20**	**26**	10	**34**	--	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	--	--	--	**1,607**	1,671	1550 J	1,342	1,679	**2,240**	2,359 J	--	12,000
Benzo(a)anthracene	µg/kg	--	--	--	**110**	160	140	110	140	**140**	200	--	1,300
Benzo(a)pyrene	µg/kg	--	--	--	**72**	78	71	59	84	**110**	98	--	1,600
Benzofluoranthenes[6] (Total)	µg/kg	--	--	--	**180**	180	170	140	200	**260**	230	--	3,200
Benzo(g,h,i)perylene	µg/kg	--	--	--	**40**	27	33 J	23 J	34	**49**	35	--	670
Chrysene	µg/kg	--	--	--	**200**	180	240 J	140 J	200	**180**	290	--	1,400
Dibenzo(a,h)anthracene	µg/kg	--	--	--	**11**	9.1	8.2	6.7	10	**12**	11 J	--	230
Fluoranthene	µg/kg	--	--	--	**540**	550	450	460	550	**650**	740	--	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	--	--	--	**34**	27	28 J	23 J	31	**39**	35	--	600
Pyrene	µg/kg	--	--	--	**420**	460	410	380	430	**800**	720	--	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	--	--	--	0.055 J	0.38 U	0.33 U	0.26 U	0.28 U	--	0.22 U	--	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	--	--	--	0.34	**0.14 J**	**0.27 J**	**0.11 J**	0.28 U	--	0.22 U	--	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	--	--	--	0.18	**0.18 J**	**0.21 J**	**0.14 J**	**0.19 J**	--	0.22 U	--	3.1
Hexachlorobenzene	mg/kg OC	--	--	--	0.1 U	0.38 U	0.33 U	0.26 U	0.28 U	--	0.22 U	--	0.38

Sample Location[1]		MAF-29	MAF-30		MAF-31	MAF-32	MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-29_0-10	MAF-SS-30_0-10	MAF-SS-DUP-03	MAF-SS-31_0-10	MAF-SS-32_0-10	MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	
Sample Date		10/21/15	10/21/15	10/21/15	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/19/15	10/19/15	09/13/2016	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	--	--	--	**2.6 J**	4.8 U	4.9 U	4.9 U	4.7 U	--	4.7 U	--	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	--	--	--	**16**	**1.7 J**	**3.9 J**	**2.1 J**	4.7 U	--	4.7 U	--	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	--	--	--	**8.7**	**2.2 J**	**3.1 J**	**2.6 J**	**3.2 J**	--	4.7 U	--	110
Hexachlorobenzene	µg/kg	--	--	--	4.8 U	4.8 U	4.9 U	4.9 U	4.7 U	--	4.7 U	--	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	--	--	--	1 U	**2.7**	3.3 U	**1.9 J**	**2 J**	--	2.2 U	--	47
Butyl Benzyl Phthalate	mg/kg OC	--	--	--	0.1 U	0.38 U	0.33 U	**0.43**	**0.34**	--	0.22 U	--	4.9
Dibutyl Phthalate	mg/kg OC	--	--	--	0.4 U	1.5 U	**0.6 J**	**1.2**	**3.3**	--	0.9 U	--	220
Diethyl Phthalate	mg/kg OC	--	--	--	0.4 UJ	1.5 UJ	1 UJ	1 UJ	**1.6 J**	--	0.9 UJ	--	61
Dimethyl Phthalate	mg/kg OC	--	--	--	0.4 U	1.5 U	1 U	1 U	1.1 U	--	0.9 U	--	53
Di-N-Octyl Phthalate	mg/kg OC	--	--	--	0.4 U	1.5 U	1 U	1 U	1.1 U	--	0.9 U	--	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	--	--	--	48 U	**34 J**	49 U	**36 J**	**33 J**	--	47 U	--	1,300
Butyl Benzyl Phthalate	µg/kg	--	--	--	4.8 U	4.8 U	4.9 U	**8**	**5.6**	--	4.7 U	--	63
Dibutyl Phthalate	µg/kg	--	--	--	19 U	19 U	**8.8 J**	**22**	**55**	--	19 U	--	1,400
Diethyl Phthalate	µg/kg	--	--	--	19 UJ	19 UJ	20 UJ	20 UJ	**26 J**	--	19 UJ	--	200
Dimethyl Phthalate	µg/kg	--	--	--	19 U	19 U	20 U	20 U	19 U	--	19 U	--	71
Di-N-Octyl Phthalate	µg/kg	--	--	--	19 U	19 U	20 U	20 U	19 U	--	19 U	--	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	--	--	--	**61**	**9.9 J**	24 U	24 U	24 U	--	**20 J**	26.3 U	29
2-Methylphenol (o-Cresol)	µg/kg	--	--	--	**36**	19 U	**8.8 J**	20 U	19 U	--	**19 U**	19.9 U	63
4-Methylphenol (p-Cresol)	µg/kg	--	--	--	**1,300**	**250**	**230**	**240**	**120**	--	**130**	**241**	670
Pentachlorophenol	µg/kg	--	--	--	**92 J**	95 U	97 U	**97 U**	94 U	--	**94 U**	99.3 U	360
Phenol	µg/kg	--	--	--	**290**	**93**	**130 J**	**68 J**	**81**	--	**90**	**104**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	--	--	--	7.8	**13**	**17**	**12**	**23**	6.8	**10**	--	15
Hexachlorobutadiene	mg/kg OC	--	--	--	0.1 U	0.38 U	0.33 U	0.26 U	0.28 U	0.09 U	0.22 U	--	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	--	--	--	0.1 U	0.38 U	0.33 U	0.26 U	**3.4**	0.09 U	0.22 U	--	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	--	--	--	**370**	160	250	220	380	**384**	220	--	540
Hexachlorobutadiene	µg/kg	--	--	--	4.8 U	4.8 U	4.9 U	4.9 U	4.7 U	4.9 U	4.7 U	--	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	--	--	--	4.8 U	4.8 U	4.9 U	4.9 U	**56**	4.9 U	4.7 U	--	28
Benzoic Acid	µg/kg	--	--	--	**730**	**120 J**	**210**	**150 J**	190 U	**502**	**75 J**	--	650
Benzyl Alcohol	µg/kg	--	--	--	**31**	**17 J**	**18 J**	**15 J**	19 U	**53.4**	**14 J**	--	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	--	--	**0.29 J**	--	**0.35 J**	**13 J**	2.26 J	**0.32 J**	--	12

Sample Location[1]		MAF-29	MAF-30		MAF-31	MAF-32	MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-29_0-10	MAF-SS-30_0-10	MAF-SS-DUP-03	MAF-SS-31_0-10	MAF-SS-32_0-10	MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	
Sample Date		10/21/15	10/21/15	10/21/15	10/19/15	10/19/15	10/19/15	10/19/15	10/20/15	10/19/15	10/19/15	09/13/2016	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	--	--	3.65 J	--	6.64 J	216 J	**123 J**	6.68 J	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	19 U	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	95 U	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	95 U	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	95 U	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	19 U	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	38 U	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	19 U	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	19 U	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	19 U	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	**330**	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	**120 J**	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	100 UJ	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	50 U	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	50 U	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	100 U	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	1.0 U	--	--	0.98 U	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	1.0 U	--	--	3.5 U	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	1.0 U	--	--	22 U	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	1 U	--	--	22 U	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	5.3 U	--	--	3.9 U	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	0.50 U	--	--	0.49 U	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	1.5 U	--	--	0.49 U	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	1.5 U	--	--	0.49 U	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	1.0 U	--	--	3.1 U	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	0.50 U	--	--	0.52 U	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE

Sample Location[1]		MAF-29	MAF-30		MAF-31	MAF-32	MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	Proposed Sediment Cleanup Level[2]
Sample Identification		**MAF-SS-29_0-10**	**MAF-SS-30_0-10**	**MAF-SS-DUP-03**	**MAF-SS-31_0-10**	**MAF-SS-32_0-10**	**MAF-SS-33_0-10**	**MAF-SS-DUP-06**	**MAF-SS-34_0-10**	**MAF-SS-35_0-10**	**MAF-SS-36_0-10**	**MAF-SS-37_0-10**	
Sample Date		**10/21/15**	**10/21/15**	**10/21/15**	**10/19/15**	**10/19/15**	**10/19/15**	**10/19/15**	**10/20/15**	**10/19/15**	**10/19/15**	**09/13/2016**	
Sample Interval (dbm)		**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	**0-10 cm**	
Sample Type		**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	**Surface**	
Stratigraphic Unit		**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	**Recent Deposit**	
Tidal Zone		**Intertidal**	**Intertidal**	**Intertidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	**Subtidal**	
Dicamba	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	65 U	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	Pass	--	--	--	--	Pass	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	Pass	--	--	--	--	Pass	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	Pass	--	--	--	--	Pass	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-38		MAF-56				MAF-57			MAF-58		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-38_0-10	MAF-DUP-07	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10	MAF-SC-58_2-4	
Sample Date		09/13/2016	09/13/2016	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18	11/13/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	2-4 ft	
Sample Type		Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Field Screening													
Visual Wood Content[3]	%	<1	<1	<1	<5	<5	<1	<1	**15**	<1	**5**	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**2.68**	**1.60**	**0.570**	**0.560**	**0.490 J**	**0.0700**	**1.78**	**1.75**	**0.300**	**4.94**	**0.900**	NE
Total Volatile Solids (TVS)	Percent	**10.3**	**56.9**	**1.99**	**1.53**	**1.58 J**	**0.94**	**6.42**	**2.34**	**1.07**	**10.69**	**2.14 J**	NE
Total Solids (TS)	Percent	**49.4**	**6.8**	**72.66**	**78.03**	**77.36**	**82.48**	**54.90**	**75.12**	**81.39**	**52.47**	**77.45**	NE
Total Ammonia	mg-N/kg	--	--	--	**1.47**	**1.71 J**	**1.31**	--	**2.53**	**1.39**	--	**19 J**	NE
Porewater Ammonia	mg-N/L	**3.63**	**5.24**	**6.08**	--	--	--	**7.01**	--	--	**5.51**	--	NE
Total Sulfide	mg/kg	--		**3.38 J**	**35.4**	**27.3 J**	**4.35**	--	**193**	**39.9**	--	**70 J**	NE
Porewater Sulfide	mg/L	0.050 U	0.050 U	--	--	--	--	**0.196**	--	--	0.05 U	--	NE
Porewater pH	pH	**7.48**	**7.46 J**	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Clay	%	--	--	--	--	--	--	--	--	--	--	--	NE
Total Fines	%	--	--	--	--	--	--	--	--	--	--	--	NE
Metals													
Arsenic	mg/kg	--	--	**3.52**	**4.63**	**4.72**	**4.4**	**5.77**	**5.18**	**3.89**	**9.6**	**5.67**	57
Cadmium	mg/kg	--	--	**0.08 J**	**0.10 J**	**0.11 J**	0.12 U	**0.47**	**0.22**	**0.15**	**0.85**	**0.21**	5.1
Chromium	mg/kg	--	--	**21.8**	**22.4**	**24.1**	**19.1**	**34.8**	**27.8**	**19**	**41.2**	**26.2**	260
Copper	mg/kg	--	--	**10.1**	**10.1**	**10.5 J**	**6.62**	**32**	**17.4**	**9.74**	**42.5**	**17.8 J**	390
Lead	mg/kg	--	--	**4.57**	**5.07**	**4.85 J**	**2.99**	**10.3**	**9.18**	**3.89**	**20.3**	**8.44 J**	450
Mercury	mg/kg	--	--	**0.0261 J**	**0.0321**	**0.0745**	**0.00636 J**	**0.0551**	**0.0270 J**	**0.0107 J**	**0.105**	**0.0676**	0.41
Silver	mg/kg	--	--	**0.03 J**	**0.03 J**	**0.04 J**	0.24 U	**0.11 J**	**0.07 J**	**0.03 J**	**0.22 J**	**0.07 J**	6.1
Zinc	mg/kg	--	--	**30.2**	**30**	**32.6**	**26**	**58.4**	**45**	**28.6**	**85.2**	**36.7**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	--	--	**55.6**	**48**	**54.1 J**	**4.13 J**	**56.7 J**	**37.1**	**18.4 J**	**43.1**	**50.6 J**	370
2-Methylnaphthalene	mg/kg OC	--	--	**5.25**	**3.46**	**3.29**	7.14 U	**6.12**	**3.43**	**1.42 J**	**4.13**	**3.62**	38
Acenaphthene	mg/kg OC	--	--	**6.05**	**3.73**	**3.43**	7.14 U	**9.1**	**4.8**	**2.16**	**5.95**	**3.87**	16

Sample Location[1]		MAF-38		MAF-56				MAF-57			MAF-58		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-38_0-10	MAF-DUP-07	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10	MAF-SC-58_2-4	
Sample Date		09/13/2016	09/13/2016	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18	11/13/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	2-4 ft	
Sample Type		Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Acenaphthylene	mg/kg OC	--	--	**2.32**	**2.36**	3.06	7.14 U	**2.37 J**	**1.16**	0.717 J	1.16	**2.84**	66
Anthracene	mg/kg OC	--	--	**5.68**	**3.61**	4.37	7.14 U	**7.75**	**3.53**	2.06	4.31	**4.09**	220
Fluorene	mg/kg OC	--	--	**5.61**	**4.09**	4.39	7.14 U	**7.81**	**4.55**	2.19	6.01	**4.12**	23
Naphthalene	mg/kg OC	--	--	**18.9**	**20**	22.2	4.13 J	**12.2**	**13.5**	5.47	10.6	**20.1**	99
Phenanthrene	mg/kg OC	--	--	**16.9**	**14.8**	16.6 J	3.79 U	**17.5**	**9.49**	5.83	15	**16 J**	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	--	--	317.0	270	**265 J**	**2.89 J**	1,010 J	649	**55.3 J**	**2,130**	455 J	5,200
2-Methylnaphthalene	µg/kg	--	--	29.9	19.4	**16.1**	5.00 U	109	60.1	**4.27 J**	**204**	32.6	670
Acenaphthene	µg/kg	--	--	34.5	20.9	**16.8**	5.00 U	162	84	**6.49**	**294**	34.8	500
Acenaphthylene	µg/kg	--	--	13.2	13.2	**15**	5.00 U	42.2 J	20.3	**2.15 J**	**57.2**	25.6	1,300
Anthracene	µg/kg	--	--	32.4	20.2	**21.4**	5.00 U	138	61.8	**6.17**	**213**	36.8	960
Fluorene	µg/kg	--	--	32	22.9	**21.5**	5.00 U	139	79.7	**6.57**	**297**	37.1	540
Naphthalene	µg/kg	--	--	108	110	**109**	**2.89 J**	218	237	**16.4**	**523**	181	2,100
Phenanthrene	µg/kg	--	--	96.5	82.7	**81.3 J**	2.65 U	311	166	**17.5**	**742**	140 J	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	--	--	**59.1**	**43.9**	44.5 J	3.38 J	**111 J**	**33.7**	21.2 J	50.8	**50.1**	960
Benzo(a)anthracene	mg/kg OC	**2.58**	**9.50**	**3.75**	**2.8**	2.73	1.79 J	**8.54**	**2.3**	1.51 J	3.79	**3.11**	110
Benzo(a)pyrene	mg/kg OC	**2.21**	**7.44**	**2.54**	**2.16**	2.27	1.83 U	**5.15**	**2.31**	1.05 U	2.87	**2.88**	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**4.70**	**17.0**	**5.63**	**4.5**	5	14.3 U	**13.1**	**5.39**	3.3 J	6.8	**5.83**	230
Benzo(g,h,i)perylene	mg/kg OC	--	--	**1.74**	**1.7**	1.89	7.14 U	**2.45 J**	**1.31**	0.907 U	1.78	**2.48**	31
Chrysene	mg/kg OC	**3.73**	**14.19**	**3.98**	**3.23**	3.02	7.14 U	**10.8**	**2.86**	1.79	5.04	**3.93**	110
Dibenzo(a,h)anthracene	mg/kg OC	**0.29**	**1.15**	1.47 U	1.44 U	1.51 U	9.44 U	**4.33**	1.42 U	2.23 U	1.08	**2.46**	12
Fluoranthene	mg/kg OC	--	--	**21.4**	**14.4**	15 J	4.93 U	**25.2**	**7.66**	6.03	14	**14**	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	**1.13**	**3.41**	**1.44**	**1.39**	1.21	1.59 j	**2.81**	**1.12**	0.743 J	1.63	**2.01**	34
Pyrene	mg/kg OC	--	--	**18.6**	**13.7**	13.4 J	4.84 U	**38.5**	**10.7**	7.8	13.9	**13.4**	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	--	--	337	255	**218 J**	**2.36 J**	1,974 J	590	**63.5 J**	**2,510**	451 J	12,000
Benzo(a)anthracene	µg/kg	69.1	152	21.4	15.7	**13.4**	**1.25 J**	152	40.2	**4.53 J**	**187**	28	1,300
Benzo(a)pyrene	µg/kg	59.3	119	14.5	12.1	**11.1**	1.28 U	91.7	40.5	3.16 U	**142**	25.9	1,600
Benzofluoranthenes[6] (Total)	µg/kg	126	272	32.1	25.2	**24.5**	10.0 U	234	94.4	**9.89 J**	**336**	52.5	3,200
Benzo(g,h,i)perylene	µg/kg	--	--	9.93	9.54	**9.26**	5.00 U	43.6 J	23	2.72 U	**87.7**	22.3	670
Chrysene	µg/kg	100	227	22.7	18.1	**14.8**	5.00 U	192	50	**5.36**	**249**	35.4	1,400
Dibenzo(a,h)anthracene	µg/kg	7.64	18.4	8.38 U	8.06 U	7.38 U	6.61 U	77	24.8 U	6.70 U	**53.2**	22.1	230
Fluoranthene	µg/kg	--	--	122	80.9	**73.3 J**	3.45 U	448	134	**18.1**	**690**	126 J	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	30.2	54.5	8.23	7.81	**5.93**	**1.11 J**	50.1	19.6	**2.23 J**	**80.7**	18.1	600
Pyrene	µg/kg	--	--	106	76.5	**65.7 J**	3.39 U	686	188	**23.4**	**688**	121 J	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	3.1
Hexachlorobenzene	mg/kg OC	--	--	0.860 U	0.890 U	1.00 U	7.10 U	0.280 U	0.270 U	1.70 U	0.0970 U	0.530 U	0.38

Sample Location[1]		MAF-38		MAF-56				MAF-57			MAF-58		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-38_0-10	MAF-DUP-07	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10	MAF-SC-58_2-4	
Sample Date		09/13/2016	09/13/2016	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18	11/13/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	2-4 ft	
Sample Type		Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	--	--	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	--	--	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 UJ	19.3 U	19.8 U	19.3 U	19.3 U	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	--	--	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 UJ	19.3 U	19.8 U	19.3 U	19.3 U	110
Hexachlorobenzene	µg/kg	--	--	4.9 U	5.0 U	4.9 U	5.0 U	4.9 U	4.8 U	5.0 U	4.8 U	4.8 U	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	--	--	**5.00**	8.91 U	10.1 U	71.3 U	2.73 U	2.75 U	16.5 U	**1.08**	5.37 U	47
Butyl Benzyl Phthalate	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	4.9
Dibutyl Phthalate	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	220
Diethyl Phthalate	mg/kg OC	--	--	3.46 U	**5.39**	4.02 U	**26.4**	1.09 U	**2.74**	6.60 U	0.391 U	2.14 U	61
Dimethyl Phthalate	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	53
Di-N-Octyl Phthalate	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	--	--	**28.5 J**	49.9 U	49.3 U	49.9 U	48.6 U	48.2 U	49.6 U	**53.4**	48.3 U	1,300
Butyl Benzyl Phthalate	µg/kg	--	--	19.7 U	19.9 U	19.7 U	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	63
Dibutyl Phthalate	µg/kg	--	--	19.7 U	19.9 U	19.7 U	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	1,400
Diethyl Phthalate	µg/kg	--	--	19.7 U	**30.2**	19.7 U	18.5 J	19.4 U	**48**	19.8 U	19.3 U	19.3 U	200
Dimethyl Phthalate	µg/kg	--	--	19.7 U	19.9 U	19.7 U	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	71
Di-N-Octyl Phthalate	µg/kg	--	--	19.7 U	19.9 U	19.7 U	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**13.8 J**	25.7 U	24.6 U	24.9 U	24.7 U	24.9 U	24.3 U	24.1 U	24.8 U	**7.6 J**	**2.8 J**	29
2-Methylphenol (o-Cresol)	µg/kg	19.5 U	19.6 U	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 UJ	19.3 U	19.8 U	19.3 U	19.3 U	63
4-Methylphenol (p-Cresol)	µg/kg	**351**	**172**	19.7 UJ	**18.3 J**	19.7 UJ	19.9 U	130 J	**98**	19.8 U	**132**	**43**	670
Pentachlorophenol	µg/kg	97.3 U	97.9 U	**4.6 J**	19.9 U	**2.7 J**	19.9 U	**11.0 J**	19.3 U	19.8 U	**5.8 J**	19.3 U	360
Phenol	µg/kg	**127**	**38.8**	**19.8 J**	**16.3 J**	**11.2 UJ**	**12.8 J**	**58.6 J**	**21.1**	19.8 U	**146 J**	**12.5 J**	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	--	--	**6.2**	**4.3**	4.71	28.4 U	**8.3**	**3.4**	3.3	2.29	**4.7**	15
Hexachlorobutadiene	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	--	--	3.46 U	3.55 U	4.02 U	28.4 U	1.09 U	1.10 U	6.60 U	0.391 U	2.14 U	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	--	--	**35.4**	**23.9**	**23.1**	19.9 U	**148**	**59.9**	**9.9 J**	**113**	**42.2**	540
Hexachlorobutadiene	µg/kg	--	--	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	--	--	19.7 U	19.9 U	19.7 U	19.9 U	19.4 U	19.3 U	19.8 U	19.3 U	19.3 U	28
Benzoic Acid	µg/kg	--	--	**32.3 J**	**23.3 J**	**19.3 J**	**14.3 J**	**76.8 J**	**19.7 J**	99.2 U	**64.3 J**	**22.5 J**	650
Benzyl Alcohol	µg/kg	--	--	19.7 UJ	19.9 U	19.7 UJ	19.9 U	19.4 UJ	19.3 U	19.8 U	19.3 U	19.3 U	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	**0.29 J**	**0.30 J**	1.35 J	19.4 J	**0.029 J**	**0.030 J**	1.06 J	0.0037 J	**0.063 J**	12

Sample Location[1]		MAF-38		MAF-56				MAF-57			MAF-58		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-38_0-10	MAF-DUP-07	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10	MAF-SC-58_2-4	
Sample Date		09/13/2016	09/13/2016	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18	11/13/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	2-4 ft	
Sample Type		Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	8.12 J	1.63 J	**6.64 J**	**0.25 J**	3.18 J	9.34 J	**1.03 J**	**14.2 J**	0.57 J	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-38		MAF-56				MAF-57			MAF-58		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-38_0-10	MAF-DUP-07	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10	MAF-SC-58_2-4	
Sample Date		09/13/2016	09/13/2016	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18	11/13/18	
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	2-4 ft	
Sample Type		Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-59				MAF-60			EDP62		EDP63		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	EDP62_0.0-1.0	EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	
Sample Date		11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	
Field Screening													
Visual Wood Content[3]	%	**20**	<5	<1	<1	<1	**10**	<1	<1	<1	<1	<1	15
Conventionals													
Total Organic Carbon (TOC)	Percent	**2.83**	**3.71**	**1.33**	--	**1.48**	**1.33**	**0.210**	--	--	--	--	NE
Total Volatile Solids (TVS)	Percent	**11.00**	**8.03**	**3.39**	--	**7.02**	**2.30**	**0.91**	--	--	--	--	NE
Total Solids (TS)	Percent	**49.20**	**64.33**	**72.97**	--	**55.64**	**77.90**	**81.15**	--	--	--	--	NE
Total Ammonia	mg-N/kg	--	**51.1**	**32.8**	--	--	**20.8**	**2.64**	--	--	--	--	NE
Porewater Ammonia	mg-N/L	**3.97**	--	--	--	**10.70**	--	--	--	--	--	--	NE
Total Sulfide	mg/kg	--	**97.2**	**34.1**	--	--	**251**	**1.69**	--	--	--	--	NE
Porewater Sulfide	mg/L	0.05 U	--	--	--	**0.052**	--	--	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	--	--	--	--	--	--	--	NE
Grain Size													
Gravel	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Sand	%	--	--	--	--	--	--	--	--	--	--	--	NE
Coarse Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Medium Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Very Fine Silt	%	--	--	--	--	--	--	--	--	--	--	--	NE
Clay	%	--	--	--	--	--	--	--	--	--	--	--	NE
Total Fines	%	--	--	--	--	--	--	--	--	--	--	--	NE
Metals													
Arsenic	mg/kg	**9.15**	**7.06**	**4.9**	**2.92**	**5.89**	**3.5**	**3.24**	**1.51 J**	**2.53 J**	**2.95 J**	**3.50 J**	57
Cadmium	mg/kg	**0.54**	**0.65**	**0.28**	**0.07 J**	**0.61**	**0.22**	0.12 U	0.236 U	0.239 U	0.269 U	0.246 U	5.1
Chromium	mg/kg	**39.5**	**35.6**	**28.5**	**20.2**	**32.1**	**21.4**	**17.4**	**23.6 J**	**23.6**	**27.8**	**27.9**	260
Copper	mg/kg	**41.1**	**39.2**	**24.7**	**7.33**	**30.5**	**20**	**5.62**	**11.8**	**11**	**11.8**	**12.6**	390
Lead	mg/kg	**14.4**	**35.9**	**23.2**	**2.21**	**10.4**	**7.47**	**2.39**	**3.31**	**8.8**	**3.75**	**4.45**	450
Mercury	mg/kg	**0.119**	**0.223**	**38.5**	**0.00839 J**	**0.0808**	**0.0485**	**0.0156 J**	**0.00586 J**	**0.00782 J**	**0.0403**	**0.0337**	0.41
Silver	mg/kg	**0.15 J**	**0.15 J**	**0.08 J**	**0.03 J**	**0.11 J**	**0.08 J**	**0.03 J**	0.354 U	0.358 U	0.404 U	**0.118 J**	6.1
Zinc	mg/kg	**80.1**	**65.4**	**50.5**	**25.2**	**62.4**	**59.9**	**20.3**	**34.9**	**41.5**	**37.6**	**39.1**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)													
Sum of LPAHs[4]	mg/kg OC	**59**	79.8	**127.8 J**	--	**170**	**177**	20.9 J	--	--	--	--	370
2-Methylnaphthalene	mg/kg OC	**5.62**	8.81	**10 J**	--	**18.6**	**16.7**	2.48	--	--	--	--	38
Acenaphthene	mg/kg OC	**6.75**	8.38	**11.1 J**	--	**26.2**	**28**	3.27	--	--	--	--	16

Sample Location[1]		MAF-59				MAF-60			EDP62		EDP63		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	EDP62_0.0-1.0	EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	
Sample Date		11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	
Acenaphthylene	mg/kg OC	**2.2**	2.35	**7.01 J**	--	**6.06**	**4.41**	2.24 U	--	--	--	--	66
Anthracene	mg/kg OC	**6.18**	5.7	**7.5 J**	--	**23.9**	**24.6**	1.58 J	--	--	--	--	220
Fluorene	mg/kg OC	**6.22**	9.68	**12.3 J**	--	**23.1**	**22.3**	2.88	--	--	--	--	23
Naphthalene	mg/kg OC	**21.2**	32.6	**55.3 J**	--	**44.8**	**38.7**	7.67	--	--	--	--	99
Phenanthrene	mg/kg OC	**16.3**	21.1	**34.5 J**	--	**46.6**	**58.7**	5.48	--	--	--	--	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)													
Sum of LPAHs[4]	µg/kg	1,670	**2,960**	1,700.2 J	--	2,520	2,350	**43.8 J**	--	--	--	--	5,200
2-Methylnaphthalene	µg/kg	159	**327**	133 J	--	275	222	**5.21**	--	--	--	--	670
Acenaphthene	µg/kg	191	**311**	148 J	--	388	373	**6.87**	--	--	--	--	500
Acenaphthylene	µg/kg	62.3	**87.3**	93.2 J	--	89.7	58.6	4.70 U	--	--	--	--	1,300
Anthracene	µg/kg	175	**210**	100 J	--	353	327	**3.32 J**	--	--	--	--	960
Fluorene	µg/kg	176	**359**	164 J	--	342	296	**6.04**	--	--	--	--	540
Naphthalene	µg/kg	601	**1,210**	736 J	--	663	515	**16.1**	--	--	--	--	2,100
Phenanthrene	µg/kg	461	**781**	459 J	--	689	781	**11.5**	--	--	--	--	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)													
Sum of HPAHs[5]	mg/kg OC	**75.6**	89	**67.7 J**	--	**259**	**281**	15.8 J	--	--	--	--	960
Benzo(a)anthracene	mg/kg OC	**5.69**	7.74	**3.7**	--	**20.7**	**22**	1.18 J	--	--	--	--	110
Benzo(a)pyrene	mg/kg OC	**4.1**	6.55	**2.5**	--	**11**	**14.7**	0.795 U	--	--	--	--	99
Benzofluoranthenes[6] (Total)	mg/kg OC	**10.8**	11.7	**5.4**	--	**29.6**	**39.2**	1.94 J	--	--	--	--	230
Benzo(g,h,i)perylene	mg/kg OC	**2.56**	5.23	**2.4**	--	**5.11**	**5.48**	2.24 U	--	--	--	--	31
Chrysene	mg/kg OC	**9.68**	7.76	**4.7**	--	**27.8**	**33.5**	1.61 J	--	--	--	--	110
Dibenzo(a,h)anthracene	mg/kg OC	**1.88**	2.36	**1.6 J**	--	**4.04**	**2.77**	2.24 U	--	--	--	--	12
Fluoranthene	mg/kg OC	**20**	22	**24.5**	--	**68.2**	**93.2**	4.95	--	--	--	--	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	**2.3**	3.8	**1.4**	--	**4.69**	**5.59**	0.505 J	--	--	--	--	34
Pyrene	mg/kg OC	**18.7**	21.4	**21.7**	--	**88**	**65**	5.62	--	--	--	--	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)													
Sum of HPAHs[5]	µg/kg	2,140	**3,300**	900.7 J	--	3,840	3,740	**33.2 J**	--	--	--	--	12,000
Benzo(a)anthracene	µg/kg	161	**287**	49.5	--	306	292	**2.48 J**	--	--	--	--	1,300
Benzo(a)pyrene	µg/kg	116	**243**	32.9	--	170	195	1.67 U	--	--	--	--	1,600
Benzofluoranthenes[6] (Total)	µg/kg	307	**435**	71.2	--	438	522	**4.08 J**	--	--	--	--	3,200
Benzo(g,h,i)perylene	µg/kg	72.5	**194**	31.8	--	75.7	72.9	4.70 U	--	--	--	--	670
Chrysene	µg/kg	274	**288**	61.9	--	412	445	**3.39 J**	--	--	--	--	1,400
Dibenzo(a,h)anthracene	µg/kg	53.2	**87.6**	21.2 J	--	59.8	36.9	4.70 U	--	--	--	--	230
Fluoranthene	µg/kg	566	**830**	326	--	1,010	1,240	**10.4**	--	--	--	--	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	65.1	**141**	18.2	--	69.4	74.3	**1.06 J**	--	--	--	--	600
Pyrene	µg/kg	529	**794**	288	--	1,300	860	**11.8**	--	--	--	--	2,600
Chlorinated Hydrocarbons (OC Normalized)													
1,2,4-Trichlorobenzene	mg/kg OC	0.686 U	0.523 U	0.40 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	0.686 U	0.523 U	0.30 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	0.686 U	0.523 U	0.30 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	3.1
Hexachlorobenzene	mg/kg OC	0.170 U	0.130 U	0.10 U	--	0.320 U	0.370 U	2.20 U	--	--	--	--	0.38

Sample Location[1]		MAF-59				MAF-60			EDP62		EDP63		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	EDP62_0.0-1.0	EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	
Sample Date		11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	
Chlorinated Hydrocarbons (Dry Weight)													
1,2,4-Trichlorobenzene	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	110
Hexachlorobenzene	µg/kg	4.9 U	4.9 U	4.9 U	--	4.8 U	4.9 U	4.7 U	--	--	--	--	22
Phthalates (OC Normalized)													
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	**3.82**	**0.803**	2.10 U	--	**10.0**	**5.29**	22.6 U	--	--	--	--	47
Butyl Benzyl Phthalate	mg/kg OC	0.686 U	0.523 U	0.60 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	4.9
Dibutyl Phthalate	mg/kg OC	0.686 U	0.523 U	2.30 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	220
Diethyl Phthalate	mg/kg OC	0.686 U	0.523 U	**2.40**	--	1.30 U	1.48 U	9.05 U	--	--	--	--	61
Dimethyl Phthalate	mg/kg OC	**0.777**	0.523 U	0.50 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	53
Di-N-Octyl Phthalate	mg/kg OC	0.686 U	0.523 U	0.60 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	58
Phthalates (Dry Weight)													
Bis(2-Ethylhexyl) Phthalate	µg/kg	**108**	**29.8 J**	27.6 U	--	**200**	**70.4**	47.4 U	--	--	--	--	1,300
Butyl Benzyl Phthalate	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	63
Dibutyl Phthalate	µg/kg	19.4 U	19.4 U	30 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	1,400
Diethyl Phthalate	µg/kg	19.4 U	19.4 U	**31.9**	--	19.3 U	19.7 U	19.0 U	--	--	--	--	200
Dimethyl Phthalate	µg/kg	**22**	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	71
Di-N-Octyl Phthalate	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	6,200
Phenols (Dry Weight)													
2,4-Dimethylphenol	µg/kg	**10.0 J**	**44**	**11.9 J**	--	**5.4 J**	**7.2 J**	23.7 U	--	--	--	--	29
2-Methylphenol (o-Cresol)	µg/kg	19.4 U	**56.3**	**12 J**	--	19.3 U	19.7 U	19.0 U	--	--	--	--	63
4-Methylphenol (p-Cresol)	µg/kg	**141**	**1,170**	**270**	--	**146**	**55.3**	19.0 U	--	--	--	--	670
Pentachlorophenol	µg/kg	**6.2 J**	**5.7 J**	**2.1 J**	--	**2.9 J**	**3.0 J**	19.0 U	--	--	--	--	360
Phenol	µg/kg	**82.4 J**	**60.1**	**27.9**	--	**46.6 J**	**33.1**	19.0 U	--	--	--	--	420
Miscellaneous Extractables (OC Normalized)													
Dibenzofuran	mg/kg OC	**8.6**	**10.9**	**11.6**	--	**18.5**	**21**	**4.76**	--	--	--	--	15
Hexachlorobutadiene	mg/kg OC	0.2 U	0.1 U	0.4 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	0.3 U	0.3 U	0.7 U	--	1.30 U	1.48 U	9.05 U	--	--	--	--	11
Miscellaneous Extractables (Dry Weight)													
Dibenzofuran	µg/kg	**244**	**406**	**154**	--	**274**	**279**	**10.0 J**	--	--	--	--	540
Hexachlorobutadiene	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	28
Benzoic Acid	µg/kg	**70.4 J**	**121 J**	**59 J**	--	**65.5 J**	**55.0 J**	94.8 U	--	--	--	--	650
Benzyl Alcohol	µg/kg	19.4 U	19.4 U	19.4 U	--	19.3 U	19.7 U	19.0 U	--	--	--	--	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)													
Total PCBs (Aroclors or Congeners)	mg/kg OC	**0.36 J**	**0.56 J**	**0.052 J**	--	**0.47 J**	**1.05 J**	**0.069 J**	--	--	--	--	12

Sample Location[1]		MAF-59				MAF-60			EDP62		EDP63		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	EDP62_0.0-1.0	EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	
Sample Date		11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)													
Total PCBs (Aroclors or Congeners)	µg/kg	10.3 J	20.9 J	**12.8 J**	--	7.02 J	13.9 J	**0.14 J**	--	--	--	--	130
Chlorinated Phenols and Guaiacols													
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Resin Acids													
Linolenic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Pesticides													
4,4'-DDD	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Herbicides													
2,4,5-T	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE

Sample Location[1]		MAF-59				MAF-60			EDP62		EDP63		Proposed Sediment Cleanup Level[2]
Sample Identification		MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	EDP62_0.0-1.0	EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	
Sample Date		11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	
Dicamba	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	NE
Bioassay Tests[7]													
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	--	--	--	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-1

Summary of Sediment Analytical Results for the Protection of Benthic Organisms

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		EDP64		EDP65		Proposed Sediment Cleanup Level[2]
Sample Identification		EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0	
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	
Field Screening						
Visual Wood Content[3]	%	<1	<1	<1	<1	15
Conventionals						
Total Organic Carbon (TOC)	Percent	--	--	--	--	NE
Total Volatile Solids (TVS)	Percent	--	--	--	--	NE
Total Solids (TS)	Percent	--	--	--	--	NE
Total Ammonia	mg-N/kg	--	--	--	--	NE
Porewater Ammonia	mg-N/L	--	--	--	--	NE
Total Sulfide	mg/kg	--	--	--	--	NE
Porewater Sulfide	mg/L	--	--	--	--	NE
Porewater pH	pH	--	--	--	--	NE
Grain Size						
Gravel	%	--	--	--	--	NE
Very Coarse Sand	%	--	--	--	--	NE
Coarse Sand	%	--	--	--	--	NE
Medium Sand	%	--	--	--	--	NE
Fine Sand	%	--	--	--	--	NE
Very Fine Sand	%	--	--	--	--	NE
Coarse Silt	%	--	--	--	--	NE
Medium Silt	%	--	--	--	--	NE
Fine Silt	%	--	--	--	--	NE
Very Fine Silt	%	--	--	--	--	NE
Clay	%	--	--	--	--	NE
Total Fines	%	--	--	--	--	NE
Metals						
Arsenic	mg/kg	**4.44 J**	**5.28 J**	**3.43 J**	**5.43 J**	57
Cadmium	mg/kg	0.257 U	0.248 U	0.245 U	0.238 U	5.1
Chromium	mg/kg	**29.6**	**35.9**	**30.9**	**27.6**	260
Copper	mg/kg	**13.4**	**14.7**	**11.9**	**11.1**	390
Lead	mg/kg	**7.27**	**7.36**	**5.52**	**3.58**	450
Mercury	mg/kg	**0.00621 J**	**0.0164 J**	**0.00838 J**	**0.0105 J**	0.41
Silver	mg/kg	0.386 U	0.372 U	0.368 U	0.357 U	6.1
Zinc	mg/kg	**43.2**	**43.5**	**39.1**	**29.5**	410
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (OC Normalized)						
Sum of LPAHs[4]	mg/kg OC	--	--	--	--	370
2-Methylnaphthalene	mg/kg OC	--	--	--	--	38
Acenaphthene	mg/kg OC	--	--	--	--	16

Sample Location[1]		EDP64		EDP65		Proposed Sediment Cleanup Level[2]
Sample Identification		EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0	
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	
Acenaphthylene	mg/kg OC	--	--	--	--	66
Anthracene	mg/kg OC	--	--	--	--	220
Fluorene	mg/kg OC	--	--	--	--	23
Naphthalene	mg/kg OC	--	--	--	--	99
Phenanthrene	mg/kg OC	--	--	--	--	100
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs) (Dry Weight)						
Sum of LPAHs[4]	µg/kg	--	--	--	--	5,200
2-Methylnaphthalene	µg/kg	--	--	--	--	670
Acenaphthene	µg/kg	--	--	--	--	500
Acenaphthylene	µg/kg	--	--	--	--	1,300
Anthracene	µg/kg	--	--	--	--	960
Fluorene	µg/kg	--	--	--	--	540
Naphthalene	µg/kg	--	--	--	--	2,100
Phenanthrene	µg/kg	--	--	--	--	1,500
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (OC Normalized)						
Sum of HPAHs[5]	mg/kg OC	--	--	--	--	960
Benzo(a)anthracene	mg/kg OC	--	--	--	--	110
Benzo(a)pyrene	mg/kg OC	--	--	--	--	99
Benzofluoranthenes[6] (Total)	mg/kg OC	--	--	--	--	230
Benzo(g,h,i)perylene	mg/kg OC	--	--	--	--	31
Chrysene	mg/kg OC	--	--	--	--	110
Dibenzo(a,h)anthracene	mg/kg OC	--	--	--	--	12
Fluoranthene	mg/kg OC	--	--	--	--	160
Indeno(1,2,3-c,d)pyrene	mg/kg OC	--	--	--	--	34
Pyrene	mg/kg OC	--	--	--	--	1,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs) (Dry Weight)						
Sum of HPAHs[5]	µg/kg	--	--	--	--	12,000
Benzo(a)anthracene	µg/kg	--	--	--	--	1,300
Benzo(a)pyrene	µg/kg	--	--	--	--	1,600
Benzofluoranthenes[6] (Total)	µg/kg	--	--	--	--	3,200
Benzo(g,h,i)perylene	µg/kg	--	--	--	--	670
Chrysene	µg/kg	--	--	--	--	1,400
Dibenzo(a,h)anthracene	µg/kg	--	--	--	--	230
Fluoranthene	µg/kg	--	--	--	--	1,700
Indeno(1,2,3-c,d)pyrene	µg/kg	--	--	--	--	600
Pyrene	µg/kg	--	--	--	--	2,600
Chlorinated Hydrocarbons (OC Normalized)						
1,2,4-Trichlorobenzene	mg/kg OC	--	--	--	--	0.81
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg OC	--	--	--	--	2.3
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg OC	--	--	--	--	3.1
Hexachlorobenzene	mg/kg OC	--	--	--	--	0.38

Sample Location[1]		EDP64		EDP65		Proposed Sediment Cleanup Level[2]
Sample Identification		EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0	
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	
Chlorinated Hydrocarbons (Dry Weight)						
1,2,4-Trichlorobenzene	µg/kg	--	--	--	--	31
1,2-Dichlorobenzene (o-Dichlorobenzene)	µg/kg	--	--	--	--	35
1,4-Dichlorobenzene (p-Dichlorobenzene)	µg/kg	--	--	--	--	110
Hexachlorobenzene	µg/kg	--	--	--	--	22
Phthalates (OC Normalized)						
Bis(2-Ethylhexyl) Phthalate	mg/kg OC	--	--	--	--	47
Butyl Benzyl Phthalate	mg/kg OC	--	--	--	--	4.9
Dibutyl Phthalate	mg/kg OC	--	--	--	--	220
Diethyl Phthalate	mg/kg OC	--	--	--	--	61
Dimethyl Phthalate	mg/kg OC	--	--	--	--	53
Di-N-Octyl Phthalate	mg/kg OC	--	--	--	--	58
Phthalates (Dry Weight)						
Bis(2-Ethylhexyl) Phthalate	µg/kg	--	--	--	--	1,300
Butyl Benzyl Phthalate	µg/kg	--	--	--	--	63
Dibutyl Phthalate	µg/kg	--	--	--	--	1,400
Diethyl Phthalate	µg/kg	--	--	--	--	200
Dimethyl Phthalate	µg/kg	--	--	--	--	71
Di-N-Octyl Phthalate	µg/kg	--	--	--	--	6,200
Phenols (Dry Weight)						
2,4-Dimethylphenol	µg/kg	--	--	--	--	29
2-Methylphenol (o-Cresol)	µg/kg	--	--	--	--	63
4-Methylphenol (p-Cresol)	µg/kg	--	--	--	--	670
Pentachlorophenol	µg/kg	--	--	--	--	360
Phenol	µg/kg	--	--	--	--	420
Miscellaneous Extractables (OC Normalized)						
Dibenzofuran	mg/kg OC	--	--	--	--	15
Hexachlorobutadiene	mg/kg OC	--	--	--	--	3.9
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg OC	--	--	--	--	11
Miscellaneous Extractables (Dry Weight)						
Dibenzofuran	µg/kg	--	--	--	--	540
Hexachlorobutadiene	µg/kg	--	--	--	--	11
N-Nitrosodiphenylamine (as Diphenylamine)	µg/kg	--	--	--	--	28
Benzoic Acid	µg/kg	--	--	--	--	650
Benzyl Alcohol	µg/kg	--	--	--	--	57
Polychlorinated Biphenyls (PCBs) (OC Normalized)						
Total PCBs (Aroclors or Congeners)	mg/kg OC	--	--	--	--	12

Sample Location[1]		EDP64		EDP65		Proposed Sediment Cleanup Level[2]
Sample Identification		EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0	
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	
Polychlorinated Biphenyls (PCBs) (Dry Weight)						
Total PCBs (Aroclors or Congeners)	µg/kg	--	--	--	--	130
Chlorinated Phenols and Guaiacols						
2,3,4,6-Tetrachlorophenol	µg/kg	--	--	--	--	NE
2,4,5-Trichlorophenol	µg/kg	--	--	--	--	NE
2,4,6-Trichlorophenol	µg/kg	--	--	--	--	NE
2,4-Dichlorophenol	µg/kg	--	--	--	--	NE
Guaiacol (2-Methoxyphenol)	µg/kg	--	--	--	--	NE
Tetrachloroguaiacol	µg/kg	--	--	--	--	NE
3,4,5-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	NE
3,4,6-Trichloroguaiacol (Ac)	µg/kg	--	--	--	--	NE
4,5,6 Trichloroguaiacol	µg/kg	--	--	--	--	NE
Resin Acids						
Linolenic Acid	µg/kg	--	--	--	--	NE
Pimaric Acid	µg/kg	--	--	--	--	NE
Sandaracopimaric Acid	µg/kg	--	--	--	--	NE
Isopimaric Acid	µg/kg	--	--	--	--	NE
Dehydroabietic Acid	µg/kg	--	--	--	--	NE
Palustric Acid	µg/kg	--	--	--	--	NE
Abietic Acid	µg/kg	--	--	--	--	NE
Neoabietic Acid	µg/kg	--	--	--	--	NE
9,10-Dichlorostearic acid	µg/kg	--	--	--	--	NE
12-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	NE
14-Chlorodehydroabietic Acid	µg/kg	--	--	--	--	NE
Dichlorodehydroabietic Acid	µg/kg	--	--	--	--	NE
Pesticides						
4,4'-DDD	µg/kg	--	--	--	--	NE
4,4'-DDE	µg/kg	--	--	--	--	NE
4,4'-DDT	µg/kg	--	--	--	--	NE
Total DDT (4,4 isomers)	µg/kg	--	--	--	--	NE
Aldrin	µg/kg	--	--	--	--	NE
Alpha-Chlordane (cis)	µg/kg	--	--	--	--	NE
Beta or Gamma-Chlordane (trans	µg/kg	--	--	--	--	NE
Chlordane (Total)	µg/kg	--	--	--	--	NE
Dieldrin	µg/kg	--	--	--	--	NE
Heptachlor	µg/kg	--	--	--	--	NE
Herbicides						
2,4,5-T	µg/kg	--	--	--	--	NE
2,4-D	µg/kg	--	--	--	--	NE
2,4-DB	µg/kg	--	--	--	--	NE
Dalapon (DPA)	µg/kg	--	--	--	--	NE

Sample Location[1]		EDP64		EDP65		Proposed Sediment Cleanup Level[2]
Sample Identification		EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0	
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	
Sample Interval (dbm)		0-1 ft	2-3 ft	0-1 ft	2-3 ft	
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	
Dicamba	µg/kg	--	--	--	--	NE
Dichlorprop	µg/kg	--	--	--	--	NE
Silvex (Fenoprop or 2,4,5-TP)	µg/kg	--	--	--	--	NE
Bioassay Tests[7]						
10-Day Amphipod Mortality Test (acute toxicity)	n/a	--	--	--	--	NE
20-Day Juvenile Infaunal Growth Test (chronic toxicity)	n/a	--	--	--	--	NE
Larval Development Test (acute toxicity)	n/a	--	--	--	--	NE

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) area presented in Table 4. The organic carbon normalized screening levels are applicable to sediment with a total organic carbon (TOC) concentration ranging from 0.5 to 3.5 percent. Results for sediment samples with TOC concentrations outside of the 0.5 to 3.5 percent range are screened against the dry weight screening levels (EPA, 1988).

[3] Visual wood content values of <1 indicate that wood debris was not identified in the sample.

[4] Total LPAH represents the sum of the detected concentrations of the following LPAH compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported. The result for 2-Methylnaphthalene is not included in the LPAH sum.

[5] Total HPAH represents the sum of the detected concentrations of the following HPAH compounds: benz[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, indeno[1,2,3-c,d]pyrene, pyrene, and total benzofluoranthenes. When all compounds are undetected, only the single highest individual chemical quantitation limit is reported.

[6] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[7] See Table H-3 through H-5 for a summary of bioassay test results.

[8] Sediment sample collected from the Z-Layer during the 2015 Pacific Terminal Dredged Material Characterization (GeoEngineers, 2016) and is representative of current surface sediment conditions following completion of the 2016/2017 Interim Action.

[9] The polychlorinated phenols (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[10] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

µg/L = microgram per liter

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/L = milligram per liter

mg-N/kg = milligrams of nitrogen per kilogram

mg-N/L = milligrams of nitrogen per liter

n/a = not applicable

NE = not established

U = The analyte was not detected at a concentration greater than the value identified.

mg/kg = milligram per kilogram

mg/kg OC = milligram per kilogram normalized to organic carbon

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) or the organic carbon normalized value calculated from the PQL exceeds the preliminary cleanup level.

Grey text indicates that the shaded value is not compared to the preliminary cleanup level because the preliminary cleanup level is not appropriate based on the TOC concentration in the sample (see Note 2).

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037		
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007		
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	--	--	--	--	--	--	--	--	--	--	--	12	12
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.80	0.80
Chromium (as Chromium III)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	25,000	400,000
Copper	mg/kg	--	--	--	--	--	--	--	--	--	--	--	8,000	90,000
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	21	21
Mercury	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.20	0.20
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--	200	4,000
Zinc	mg/kg	--	--	--	--	--	--	--	--	--	--	--	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**1.1**	**0.15**	**3.0**	--	**0.32 J**	--	**13**	**0.2**	**0.33**	--	--	320	4,500
Acenaphthene	mg/kg	**2.4 J**	**0.13**	**5.4**	--	**0.28**	--	**22**	**0.15**	**0.35**	--	--	4,800	67,000
Acenaphthylene	mg/kg	**0.088**	**0.17**	**0.079**	--	**0.19**	--	**0.29**	**0.048**	**0.043**	--	--	4,800	67,300
Anthracene	mg/kg	**1.0**	**0.049**	**2.5**	--	**0.17**	--	**11**	**0.038**	**0.071**	--	--	24,000	340,000
Fluorene	mg/kg	**1.5**	**0.12**	**6.0**	--	**0.26**	--	**17**	**0.11**	**0.19**	--	--	3,200	40,000
Naphthalene	mg/kg	**3.5**	**1.4**	**4.1**	--	**3.4**	--	**43**	**2.7**	**2.2**	--	--	1,600	22,000
Phenanthrene	mg/kg	**3.3**	**0.33**	**17**	--	**0.76 J**	--	**44**	**0.25**	**0.31**	--	--	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.87**	0.024 U	**0.77**	--	**0.037 J**	--	**8.6**	**0.014**	**0.051**	--	--	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.56**	0.024 U	**0.26**	--	0.028 U	--	**3.9**	**0.011**	**0.038**	--	--	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**1.17**	0.024 U	**0.65**	--	0.028 U	--	**8.8**	**0.04**	**0.089**	--	--	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.15 J**	0.024 U	**0.14**	--	0.028 U	--	**1.4**	0.0096 U	**0.021**	--	--	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**1.1**	0.024 U	**0.8**	--	**0.048 J**	--	**8.6**	**0.034**	**0.074**	--	--	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.062**	0.024 U	**0.043**	--	0.028 U	--	**0.39**	0.0096 U	0.0062 U	--	--	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**3.0**	**0.58**	**7.6**	--	**0.93**	--	**36**	**0.33**	**0.22**	--	--	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.18**	0.024 U	**0.12**	--	0.028 U	--	**1.5**	0.0096 U	**0.022**	--	--	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**1.7**	**0.068**	**4.2**	--	**0.43**	--	**21**	**0.17**	**0.15**	--	--	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.799**	0 U	**0.426**	--	**0.0042**	--	**5.915**	**0.0167**	**0.0549**	--	--	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.799**	0.018 U	**0.426**	--	**0.0238**	--	**5.915**	**0.0177**	**0.0553**	--	--	0.056	0.056

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037		
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007		
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	**0.0074 J**	0.0096 U	0.0062 U	--	--	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	0.0061 U	0.0096 U	0.0062 U	--	--	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	0.0061 U	0.0096 U	0.0062 U	--	--	200	474
Hexachlorobenzene	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	**0.014 J**	0.0096 U	0.0062 U	--	--	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.01 U	**0.036 J**	0.0099 U	--	**0.037 J**	--	**0.037 J**	0.022 U	0.018 U	--	--	24	60
Butyl Benzyl Phthalate	mg/kg	0.0061 U	**0.39**	0.0062 U	--	**0.65**	--	**0.0061**	**0.058 J**	0.0062 U	--	--	180	460
Dibutyl Phthalate	mg/kg	0.0061 U	**0.09 J**	**0.52 J**	--	**0.27 J**	--	**0.11 J**	0.045 U	0.0086 U	--	--	6,000	90,000
Diethyl Phthalate	mg/kg	0.0067 U	0.024 U	0.0062 U	--	0.028 U	--	0.012 U	0.0096 U	0.0086 U	--	--	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	0.0061 U	0.0096 U	0.0062 U	--	--	NE	NE
Di-N-Octyl Phthalate	mg/kg	**0.0067**	0.024 U	0.0062 U	--	0.028 U	--	0.0061 U	0.0096 U	0.0062 U	--	--	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.17 J**	**0.034**	**0.042 J**	--	**0.11**	--	**0.8**	**0.25**	**0.24**	--	--	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	**0.18**	**0.044**	**0.023**	--	**0.062**	--	**0.12**	**0.29**	**0.24**	--	--	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**0.47**	**2.6**	**0.3**	--	**3.7**	--	**0.48**	**2.6**	**0.83**	--	--	6,000	90,000
Pentachlorophenol	mg/kg	0.03 U	0.12 U	0.031 U	--	0.14 U	--	0.031 U	0.048 U	0.031 U	--	--	0.55	1.4
Phenol	mg/kg	0.015 U	**0.15 J**	0.031 U	--	**0.085 J**	--	**0.26 J**	**0.062 J**	**0.037 J**	--	--	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**1.1**	**0.17**	**4.8**	--	**0.24**	--	**13**	**0.41**	**0.24**	--	--	170	2,000
Hexachlorobutadiene	mg/kg	0.0061 U	0.024 U	0.0062 U	--	0.028 U	--	**0.0086 J**	0.0096 U	0.0062 U	--	--	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	**--**	0.024 U	0.071 U	--	0.028 U	--	**--**	0.0096 U	0.0062 U	--	--	70	180
Benzoic Acid	mg/kg	0.061 U	**0.6 J**	0.062 U	--	**0.53 J**	--	**0.68 J**	**0.11 J**	**0.069 J**	--	--	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.03 U	0.12 U	**0.51 J**	--	0.14 U	--	**0.17 J**	**0.082 J**	0.031 U	--	--	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg		--	--	**0.967**	--	**5.85**	--	--	--	**2.72**	**18.6**	NE	NE
2,3,7,8-TCDF	ng/Kg		--	--	**105**	--	**25.2**	--	--	--	**50.2**	**87.4**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	**1.57 J**	--	**11.9**	--	--	--	**5.22**	**46.4**	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	**3.01**	--	**10.6**	--	--	--	**7.31**	**37**	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	**3.51**	--	**12.9**	--	--	--	**8.76**	**33.3**	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	**2.57**	--	**20.8**	--	--	--	**13.6**	**64.8**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	**4.29**	--	**6.89**	--	--	--	**10.2**	**23.6**	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	**5.85**	--	**23.6**	--	--	--	**33.1**	**79**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	**2.49**	--	**7.59**	--	--	--	**5.34**	**22.8**	NE	NE

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037		
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007		
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	**3.21**	--	**19.5**	--	--	--	**17.8**	**63.8**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	**0.781 J**	--	**2.58**	--	--	--	**3.57**	**7.36**	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	**2.75**	--	**8.78**	--	--	--	**6.2**	**25.9**	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	**91.8**	--	**153**	--	--	--	**799**	**500**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	**43.8**	--	**16.7**	--	--	--	**58.5**	**74**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	**1.74 J**	--	**2.48 J**	--	--	--	**3.42**	**8.95**	NE	NE
OCDD	ng/Kg	--	--	--	**552**	--	**138**	--	--	--	**8,930**	**592**	NE	NE
OCDF	ng/Kg	--	--	--	**68.3**	--	**5.59**	--	--	--	**103**	**61.3**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	**17.9 J**	--	**35.2 J**	--	--	--	**36.1**	**120**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	**17.9 J**	--	**35.2 J**	--	--	--	**36.1**	**120**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106		
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007		
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	--	--	--	7 U	7 U	9 U	**10**	**10**	**10**	**40 J**	10 U	12	12
Cadmium	mg/kg	--	--	--	0.3 U	0.3 U	**0.7**	**0.7**	**0.8**	**0.8**	**1.5**	**0.6**	0.80	0.80
Chromium (as Chromium III)	mg/kg	--	--	--	**32.7**	**33.3**	**42.2**	**51**	**44**	**39**	**49**	**29**	25,000	400,000
Copper	mg/kg	--	--	--	**23.1**	**22.1**	**44.3**	**47.3**	**46.8**	**41.3**	**104**	**30.3**	8,000	90,000
Lead	mg/kg	--	--	--	**9.0**	**9.0**	**21**	**16**	**17**	**19**	**55**	**13**	21	21
Mercury	mg/kg	--	--	--	**0.06 J**	0.05 U	**0.09 J**	**0.1 J**	**0.15 J**	**0.14 J**	**--**	**0.08 J**	0.20	0.20
Silver	mg/kg	--	--	--	0.4 U	0.4 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	200	4,000
Zinc	mg/kg	--	--	--	**56**	**50**	**163**	**94**	**98**	**106**	**341 J**	**76**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.13**	**0.21**	**0.21**	0.02 U	0.02 U	**0.035**	0.02 U	**0.022**	**0.043**	**0.29**	**0.036**	320	4,500
Acenaphthene	mg/kg	**0.15**	**0.26 J**	**0.34**	**0.02**	0.02 U	**0.073**	**0.026**	**0.057**	**0.1**	**0.57 J**	**0.074**	4,800	67,000
Acenaphthylene	mg/kg	**0.052**	**0.056**	**0.067**	0.02 U	0.02 U	**0.028**	0.02 U	**0.02**	**0.02**	**0.034**	**0.026**	4,800	67,300
Anthracene	mg/kg	**0.083**	**0.11**	**0.27**	**0.034**	**0.028**	**0.12**	**0.043**	**0.078**	**0.084**	**0.29**	**0.1**	24,000	340,000
Fluorene	mg/kg	**0.13**	**0.24**	**0.36**	0.02 U	0.02 U	**0.073**	**0.024**	**0.048**	**0.081**	**0.5**	**0.061**	3,200	40,000
Naphthalene	mg/kg	**1.1**	**1.4**	**0.85**	**0.029**	0.02 U	**0.078**	**0.037**	**0.058**	**0.1**	**0.63**	**0.1**	1,600	22,000
Phenanthrene	mg/kg	**0.31**	**0.46**	**0.85**	**0.11**	**0.076**	**0.31**	**0.11**	**0.21**	**0.3**	**1.7**	**0.26**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.077**	**0.12 J**	**0.35**	**0.077**	**0.047 J**	**0.22 J**	**0.095**	**0.17 J**	**0.19 J**	**0.49**	**0.18 J**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.064**	**0.12 J**	**0.37**	**0.065**	**0.043**	**0.17 J**	**0.077**	**0.14**	**0.16**	**0.44**	**0.16**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.13**	**0.25**	**0.65**	**0.1**	**0.141**	**0.41**	**0.198**	**0.35**	**0.39**	**0.97**	**0.41**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.033**	**0.059**	**0.23**	**0.027**	0.02 U	**0.091**	**0.023**	**0.084**	**0.091**	**0.13 J**	**0.091**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.12**	**0.19 J**	**0.56**	**0.12**	**0.088**	**0.36 J**	**0.16 J**	**0.28 J**	**0.33 J**	**0.74**	**0.34 J**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.0098**	**0.015 J**	**0.041**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.027**	0.02 U	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.21**	**0.23**	**1.2**	**0.33 J**	**0.17 J**	**0.84**	**0.32**	**0.51**	**0.81**	**2.4**	**0.69**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.037**	**0.057**	**0.2**	**0.027**	0.02 U	**0.078**	**0.031**	**0.079**	**0.074**	**0.13**	**0.081**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.19**	**0.15 J**	**0.88**	**0.19**	**0.13**	**0.57**	**0.25 J**	**0.28 J**	**0.38 J**	**1.1 J**	**0.32 J**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.091**	**0.166**	**0.500**	**0.091**	**0.059**	**0.244**	**0.111**	**0.203**	**0.229**	**0.609**	**0.231**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.091**	**0.166**	**0.500**	**0.092**	**0.061**	**0.245**	**0.112**	**0.204**	**0.230**	**0.609**	**0.232**	0.056	0.056

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106		
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007		
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	200	474
Hexachlorobenzene	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.026 U	0.012 U	0.03 U	**0.044 J**	0.02 U	**0.048 J**	**0.03 J**	**0.036 J**	**0.038 J**	**0.13**	**0.033 J**	24	60
Butyl Benzyl Phthalate	mg/kg	**0.18**	**0.0099 J**	**0.14**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	180	460
Dibutyl Phthalate	mg/kg	0.0073 U	0.048 U	**0.063 J**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.068 NJ**	0.02 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.017 U	0.0074 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	**0.065 J**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.0061 U	0.0062 U	**0.0074**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.095**	**0.087**	**0.048**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	**0.2**	**0.17**	**0.011**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**1.1**	**1.2**	**0.55**	**0.024**	0.02 U	**0.041**	0.02 U	**0.026**	**0.042**	**0.54**	**0.091**	6,000	90,000
Pentachlorophenol	mg/kg	**0.33**	0.031 U	0.031 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.099 U	0.099 U	0.55	1.4
Phenol	mg/kg	**0.09 J**	**0.033 J**	**0.045 J**	0.02 U	0.02 U	**0.022**	0.02 U	0.02 U	**0.023**	0.02 U	**0.025**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.3**	**0.25**	**0.24**	0.02 U	0.02 U	**0.062**	**0.025**	**0.047**	**0.081**	**0.46**	**0.062**	170	2,000
Hexachlorobutadiene	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0061 U	0.0062 U	0.0062 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	70	180
Benzoic Acid	mg/kg	0.061 U	0.062 U	**0.064 J**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	**0.17 J**	**0.088 J**	**0.048 J**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	--	0.016 U	**0.012**	**0.057**	0.033 U	0.017 U	**0.067**	**5.2**	**0.062**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37	Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106		
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007		
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18		Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3		
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008		
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft		
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	9 U	**10**	6 U	--	**5.95**	**6.02**	7 U	6 U	7 U	8 U	**11**	12	12
Cadmium	mg/kg	**0.6**	**2.1**	0.2 U	--	**0.34**	**0.3**	**0.4**	0.2 U	0.3 U	**0.6**	**0.5**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**34.2**	**60**	**22.8**	--	**26.8**	**28.3**	**33.6**	**26.6**	**50.8**	**31**	**41.7**	25,000	400,000
Copper	mg/kg	**28.2**	**84.3**	**12.4**	--	**26.6**	**19.6**	**28.8**	**15.6**	**17.9**	**28.9**	**47**	8,000	90,000
Lead	mg/kg	**13**	**55**	**3.0**	--	**9.99**	**8.95**	**10**	2 U	3 U	**11**	**11**	21	21
Mercury	mg/kg	**0.11 J**	**--**	0.05 U	--	**0.05**	**0.079**	**0.1**	0.06 U	0.06 U	**0.09**	**0.12**	0.20	0.20
Silver	mg/kg	0.6 U	0.8 U	0.4 U	--	0.1 U	0.1 U	0.4 U	0.4 U	0.4 U	0.5 U	0.4 U	200	4,000
Zinc	mg/kg	**67**	**127**	**34**	--	**62.6**	**52.5**	**53 J**	**35**	**40**	**56 J**	**67**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	3.8 U	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.023**	**0.16**	0.02 U	**8.7**	**0.118**	**0.066**	**0.019 J**	0.019 U	0.02 U	**0.018 J**	**0.054**	320	4,500
Acenaphthene	mg/kg	**0.044**	**0.18**	0.02 U	**15**	**0.08**	**0.073**	**0.022**	0.019 U	0.02 U	**0.018 J**	**0.017 J**	4,800	67,000
Acenaphthylene	mg/kg	0.02 U	**0.044**	0.02 U	**0.21**	**0.079**	**0.067**	**0.021**	0.019 U	0.02 U	**0.017 J**	**0.022**	4,800	67,300
Anthracene	mg/kg	**0.075**	**0.21**	0.02 U	**410**	**0.119**	**0.103**	**0.042**	0.019 U	0.02 U	**0.031**	**0.022**	24,000	340,000
Fluorene	mg/kg	**0.044**	**0.24**	0.02 U	**52**	**0.091**	**0.085**	**0.028**	0.019 U	0.02 U	**0.024**	**0.02**	3,200	40,000
Naphthalene	mg/kg	**0.084**	**0.57**	**0.027**	**14**	**0.855**	**0.469 J**	**0.08**	0.019 U	0.02 U	**0.088**	**0.2**	1,600	22,000
Phenanthrene	mg/kg	**0.15**	**0.51**	**0.04**	**90**	**0.267**	**0.293**	**0.11**	0.019 U	0.02 U	**0.085**	**0.071**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.14 J**	**0.18**	**0.03 J**	**11**	**0.077**	**0.085**	**0.053**	0.019 U	0.02 U	**0.039**	**0.035**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.12**	**0.15**	**0.022**	**1.9**	**0.067**	**0.099**	**0.053**	0.019 U	0.02 U	**0.027**	**0.041**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.28**	**0.43**	**0.062**	**4.7**	**0.084**	**0.106**	0.02 U	**0.117**	0.019 U	**0.053**	**0.072**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.071**	**0.031**	0.02 U	**0.36**	**0.044**	**0.078**	**0.027**	0.019 U	0.02 U	**0.027**	0.038 U	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.24 J**	**0.32**	**0.043 J**	**17**	**0.113**	**0.223**	**0.072**	0.019 U	0.02 U	**0.052**	**0.042**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.02 U	0.02 U	0.02 U	**0.17**	**0.0096**	**0.016**	0.02 U	0.019 U	0.02 U	**0.012 J**	0.02 U	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.44**	**0.84**	**0.11**	**76**	**0.347**	**0.368**	**0.17**	**0.011 J**	0.02 U	**0.13**	**0.084**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.03**	**0.031**	0.02 U	**0.48**	**0.044**	**0.082**	**0.023**	0.019 U	0.02 U	**0.021**	**0.034**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.23**	**0.45**	**0.07**	**36**	**0.353**	**0.365**	**0.18**	**0.03**	0.02 U	**0.12**	**0.1**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.167**	**0.217**	**0.029**	**3.705**	**0.093**	**0.135**	**0.073**	0 U	0 U	**0.042**	**0.056**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.168**	**0.218**	**0.032**	**3.705**	**0.093**	**0.135**	**0.074**	0.014 U	0.015 U	**0.042**	**0.057**	0.056	0.056

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18		Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3		
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008		
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.02 U	0.02 U	0.02 U	0.0062 U	0.0085 U	0.0086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.02 U	0.02 U	0.02 U	**0.096**	0.0085 U	0.0086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.02 U	0.02 U	0.02 U	**0.02**	0.0085 U	0.0086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	200	474
Hexachlorobenzene	mg/kg	0.02 U	0.02 U	0.02 U	0.0062 U	0.00048 U	0.0005 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**0.034 J**	**0.088**	0.02 U	**0.11 J**	0.017 U	0.023 U	**0.011 J**	0.019 U	**0.02 U**	**0.014 J**	**0.011 J**	24	60
Butyl Benzyl Phthalate	mg/kg	0.02 U	0.02 U	0.02 U	**0.29**	0.017 U	0.017 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	180	460
Dibutyl Phthalate	mg/kg	0.02 U	**0.047 NJ**	0.02 U	**0.21 J**	0.034 U	0.034 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.02 U	0.02 U	0.02 U	0.0099 U	0.017 U	0.034 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.02 U	0.02 U	0.02 U	0.0062 U	0.017 U	0.017 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.02 U	0.02 U	0.02 U	0.0062 U	0.017 U	0.017 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.02 U	**0.02**	0.02 U	**0.41**	**0.034 J**	0.017 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.02 U	0.02 U	0.02 U	**0.12**	0.0085 U	0.0086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**0.046**	**0.53**	0.02 U	**0.92**	**0.133**	**0.115**	**0.068**	0.019 U	0.02 U	**0.05**	**0.031**	6,000	90,000
Pentachlorophenol	mg/kg	0.1 U	0.1 U	0.099 U	0.031 U	0.034 U	0.034 U	0.098 U	0.097 U	0.098 U	0.096 U	0.099 U	0.55	1.4
Phenol	mg/kg	0.02 U	**0.025**	0.02 U	**0.037 J**	0.076 U	0.065 U	**0.04**	0.019 U	0.02 U	**0.057**	**0.015 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.037**	**0.18**	0.02 U	**17**	**0.142 J**	**0.133 J**	**0.024**	0.019 U	0.02 U	**0.02**	**0.013 J**	170	2,000
Hexachlorobutadiene	mg/kg	0.02 U	0.02 U	0.02 U	0.0062 U	0.0085 U	0.0086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.02 U	0.02 U	0.02 U	1 U	0.017 U	0.017 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	70	180
Benzoic Acid	mg/kg	0.2 U	0.2 U	0.2 U	**0.086 J**	0.262 U	**0.671 J**	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.02 U	0.02 U	0.02 U	**0.035 J**	0.085 U	0.086 U	0.02 U	0.019 U	0.02 U	0.019 U	0.02 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	0.016 U	**0.131**	0.016 U	--	0.0096 U	0.0099 U	0.02 U	0.02 U	0.02 U	**0.027**	0.02 U	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**0.35 J**	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**9.04**	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**0.9 J**	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**0.61 J**	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**1.11 J**	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**1.09 J**	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**1.19 J**	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**4.41**	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**0.64 J**	--	NE	NE

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18		Proposed Sediment Cleanup Level[2]	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3		
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008		
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**3.07 J**	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**0.08 J**	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**0.69 J**	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**56.2**	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**12.7**	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**0.73 J**	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**422**	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**25.3**	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	**4.45 J**	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	**4.45 J**	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	Proposed Sediment Cleanup Level[2]	
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0		
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015		
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft		
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[7]	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**9.0**	9 U	**50**	**10**	**22**	6 U	**5.77**	**7.92**	**5.89**	**3.7**	**4.39 J**	12	12
Cadmium	mg/kg	**0.3**	**0.8**	**1.5**	**2.0**	**1.8**	0.3 U	**0.281**	**0.681**	**0.281**	**0.20**	**0.3**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**36.7**	**43**	**46**	**53**	**47.4**	**28.1**	**27.5**	**41.5**	**30.4**	--	**26.3**	25,000	400,000
Copper	mg/kg	**36.1**	**38.2**	**137**	**81.3**	**82**	**12**	**1,040**	**32.8**	**26**	--	**8.7**	8,000	90,000
Lead	mg/kg	**8.0**	**15**	**47**	**55**	**50**	**4.0**	**27**	**14.4**	**10.9**	--	**2.15 J**	21	21
Mercury	mg/kg	**0.09**	**0.08**	**0.1**	**0.3**	**0.28**	0.05 U	**0.0723**	**0.123**	**0.0875**	**0.040**	**0.0116 J**	0.20	0.20
Silver	mg/kg	0.4 U	0.5 U	0.7 U	0.7 U	0.5 U	0.4 U	**0.1**	**0.174**	**0.089**	--	0.4 U	200	4,000
Zinc	mg/kg	**57**	**76 J**	**415 J**	**122**	**159**	**39**	**41**	**65.6**	**76.6**	--	**30**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	3.5 U	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.0099 J**	**0.018 J**	**0.062**	**0.11**	**0.24**	0.019 U	**0.059**	**0.038**	**0.095**	--	0.0048 U	320	4,500
Acenaphthene	mg/kg	0.019 U	**0.023**	**0.12**	**0.12**	**0.25**	0.019 U	**0.035**	**0.036**	**0.089**	--	0.0048 U	4,800	67,000
Acenaphthylene	mg/kg	**0.016 J**	**0.014 J**	**0.028**	**0.02**	**0.036**	0.019 U	**0.026**	**0.027**	**0.066**	--	0.0048 U	4,800	67,300
Anthracene	mg/kg	**0.016 J**	**0.035**	**0.11**	**0.12**	**0.25**	0.019 U	**0.044**	**0.049**	**0.15**	--	0.0048 U	24,000	340,000
Fluorene	mg/kg	0.019 U	**0.027**	**0.094**	**0.15**	**0.36**	0.019 U	**0.037**	**0.037**	**0.11**	--	0.0048 U	3,200	40,000
Naphthalene	mg/kg	**0.038**	**0.084**	**0.14**	**0.27**	**0.51**	0.019 U	**0.15**	**0.23**	**0.56**	--	0.0048 U	1,600	22,000
Phenanthrene	mg/kg	**0.05**	**0.094**	**0.32**	**0.3**	**0.62**	0.019 U	**0.13**	**0.13**	**0.38**	--	**0.0024 J**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.026**	**0.069**	**0.21**	**0.077**	**0.082**	0.019 U	**0.043**	**0.042**	**0.12**	**0.0181**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.033**	**0.059**	**0.18**	**0.088**	**0.097**	0.019 U	**0.039**	**0.034**	**0.096**	**0.0153**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.074**	**0.133**	**0.22**	**0.4**	**0.21**	0.019 U	**0.051**	**0.051**	**0.14**	**0.0165**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	0.026 U	**0.038**	**0.095**	0.032 U	0.041 U	0.019 U	**0.017 J**	**0.016 J**	**0.036 J**	–	0.0048 U	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.037**	**0.11**	**0.31**	**0.16**	**0.16**	0.019 U	**0.065**	**0.057**	**0.16**	**0.0241**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.019 U	**0.012 J**	**0.044**	**0.01 J**	0.019 U	0.019 U	0.034 UJ	0.036 UJ	**0.0098 J**	**0.00213**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.072**	**0.13**	**0.45**	**0.27**	**0.39**	0.019 U	**0.14**	**0.16**	**0.44**	–	0.0048 U	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.019 J**	**0.033**	**0.092**	**0.032**	**0.033**	0.019 U	**0.025**	**0.026**	**0.05**	**0.00933**	0.0048 U	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.084**	**0.12**	**0.42**	**0.13**	**0.2**	0.019 U	**0.18**	**0.19**	**0.49**	–	0.0048 U	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.043**	**0.085**	**0.258**	**0.123**	**0.132**	0 U	**0.054**	**0.049**	**0.135**	**0.0208**	0 U	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.044**	**0.085**	**0.258**	**0.123**	**0.133**	0.014 U	**0.055**	**0.050**	**0.135**	**0.0208**	0.003 U	0.056	0.056

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	Proposed Sediment Cleanup Level[2]	
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0		
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015		
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[7]		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.034 U	0.036 U	0.046 U	--	0.0048 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.067 U	0.073 U	0.091 U	--	0.0048 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.067 U	0.073 U	0.091 U	--	0.0048 U	200	474
Hexachlorobenzene	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.017 U	0.018 U	0.023 U	--	0.00098 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.019 U	**0.031**	**0.2 J**	**0.022**	0.019 U	**0.024**	0.034 U	0.036 U	0.046 U	--	0.048 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.034 U	**0.016 J**	0.046 U	--	0.0048 U	180	460
Dibutyl Phthalate	mg/kg	0.019 U	0.02 U	0.02 U	**0.041**	**0.047**	0.019 U	0.032 UJ	0.043 UJ	0.023 U	--	0.019 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.017 U	0.018 U	0.023 U	--	0.019 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.017 U	0.018 U	0.023 U	--	0.019 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.034 UJ	0.036 UJ	0.046 UJ	--	0.019 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.019 U	0.02 U	0.02 U	**0.023**	**0.03**	0.019 U	0.17 U	0.18 U	0.23 U	--	0.024 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.019 U	0.02 U	0.02 U	**0.02**	**0.034**	0.019 U	0.17 U	0.18 U	0.23 U	--	0.019 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.019 U	**0.045**	**0.087**	**0.87**	**0.89**	0.019 U	**0.063 J**	**0.081 J**	**0.24**	--	0.019 U	6,000	90,000
Pentachlorophenol	mg/kg	0.097 U	0.098 U	0.097 U	0.097 U	0.097 U	0.097 U	0.17 UJ	0.18 UJ	0.23 UJ	--	0.096 U	0.55	1.4
Phenol	mg/kg	0.019 U	**0.019 J**	**0.048**	**0.021**	**0.024**	0.019 U	0.067 U	**0.073 J**	**0.043 J**	--	0.019 U	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	0.019 U	**0.026**	**0.096**	**0.11**	**0.22**	0.019 U	**0.032 J**	**0.037**	**0.12**	--	0.0048 U	170	2,000
Hexachlorobutadiene	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.067 U	0.073 U	0.091 U	--	0.00098 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.034 U	0.036 U	0.046 U	--	0.0048 U	70	180
Benzoic Acid	mg/kg	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.17 UJ	--	--	--	0.19 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.019 U	0.02 U	0.02 U	0.019 U	0.019 U	0.019 U	0.17 U	0.18 U	0.23 U	--	0.019 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	0.02 U	0.02 U	**0.076**	**0.033**	**0.021**	0.019 U	**0.0047**	**0.015**	**0.019**	--	**0.00000158 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	0 U	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	0.07 U	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	**1.4**	**1.34**	--	0.04 U	0.14 UJ	0.111 UJ	0.159 UJ	0.198 U	0.991 U	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	**27.1**	**332**	--	0.06 U	**1.51**	**1.07**	**4.81**	**2.35**	0.991 U	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	**3.83 J**	**3.09 J**	--	0.11 U	**0.258 J**	**0.174 J**	**0.316 J**	**0.41 J**	0.991 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	**3.52 J**	**6.44**	--	0.08 U	**0.221 J**	**0.139 J**	0.235 UJ	0.275 U	0.0416 U	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	**4.83**	**8.04**	--	0.08 U	**0.348 J**	**0.188 J**	**0.4 J**	**0.466 J**	0.991 U	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	**4.1 J**	**3.89 J**	--	0.16 U	**0.25 J**	0.14 UJ	**0.477 J**	0.422 U	**0.0894 J**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	**5.27**	**16.5**	--	0.08 U	**0.245 J**	0.137 NJ	**0.274 J**	**0.407 J**	0.0614 U	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	**12.5**	**16.6**	--	0.15 U	**0.753 J**	**0.403 J**	**0.893 J**	**1.32 U**	0.123 U	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	**2.97 J**	**5.69**	--	0.1 U	**0.207 J**	**0.11 J**	**0.257 J**	**0.332 J**	0.0396 U	NE	NE

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3	Proposed Sediment Cleanup Level[2]	
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0		
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015		
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[7]		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	**10**	**10**	--	0.14 U	**0.487 J**	**0.225 J**	**0.686 J**	**1.27**	0.165 U	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	**0.64 J**	**0.83 J**	--	0.08 U	**0.117 J**	0.0785 UJ	0.192 UJ	0.0665 U	0.991 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	**2.71 J**	**5.02**	--	0.1 U	**0.239 J**	0.162 NJ	**0.29 J**	**0.333 J**	0.0496 U	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	**239**	**267**	--	**3.3 J**	**12.4**	**6.51**	**12.2**	**16.1**	2.02 U	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	**25.8**	**94.4**	--	**0.41 J**	**2.79**	**2.44 J**	**3.18**	**3.48**	0.268 U	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	**3.41 J**	**9.86**	--	0.07 U	**0.233 J**	**0.114 J**	0.197 UJ	0.253 U	0.200 U	NE	NE
OCDD	ng/Kg	--	--	**1,960**	**2,170**	--	**23.6**	**78.3**	**39.6**	**84.3**	**129**	20.6 U	NE	NE
OCDF	ng/Kg	--	--	**54.9**	**193**	--	**1.06 J**	**5.45**	**4.38 J**	**5.03**	**6.52**	**1.50 J**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	**16.6 J**	**50.5 J**	--	**0.044 J**	**0.929 J**	**0.549 J**	**1.39 J**	**1.26 J**	**0.009 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	**16.6 J**	**50.5 J**	--	**0.18 J**	**1.43 J**	**1.28 J**	**2.06 J**	**1.52 J**	**0.093 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102	Proposed Sediment Cleanup Level[2]	
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10		
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm		
Sample Type		Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Surface	Subsurface	Surface		
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**4.64 J**	**5.16 J**	**6.0**	**6.08 J**	**3.92 J**	**9.0**	**7.0**	**3.95 J**	**3.22**	**4.14**	**2.63**	12	12
Cadmium	mg/kg	**0.3**	**0.3**	**0.220 J**	**0.4**	**0.211 J**	**1.1**	**0.2**	**0.165 J**	**0.16**	**0.12**	**0.05 J**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**23.5**	**30.1**	**29**	**28.2**	**24.2**	**47.9**	**22.2**	**18.2**	**25.7**	**25.5**	**25**	25,000	400,000
Copper	mg/kg	**7.9**	**10.5**	**10.2**	**12.8**	**7.6**	**44.2**	**6.6**	**5.9**	**15**	**10.6**	**13.6**	8,000	90,000
Lead	mg/kg	**1.55 J**	**2.20 J**	**2.04 J**	**10**	**1.48 J**	**26**	**1.25 J**	**1.12 J**	**5.98**	**1.79**	**6.06**	21	21
Mercury	mg/kg	**0.0107 J**	**0.0101 J**	**0.0079 J**	**0.08**	**0.0071 J**	**0.11**	**0.0072 J**	**0.0104 J**	**0.0195 J**	**0.0137 J**	**0.0158 J**	0.20	0.20
Silver	mg/kg	0.3 U	0.3 U	0.3 U	0.4 U	0.3 U	0.5 U	0.3 U	**0.131 J**	**0.04 J**	**0.04 J**	**0.03 J**	200	4,000
Zinc	mg/kg	**27**	**32**	**31**	**34**	**28**	**70**	**25**	**22**	**43.4**	**30.8**	**43.1**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	3.5 U	3.4 U	3.4 U	3.6 U	3.4 U	3.7 U	3.8 U	3.8 U	**0.728 J**	3.84 U	3.43 U	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.075**	0.0047 U	**0.18**	0.0049 U	0.005 U	**0.0105**	0.00492 U	0.00475 U	320	4,500
Acenaphthene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.073**	0.0047 U	**0.21**	0.0049 U	0.005 U	**0.0103 J**	0.00492 UJ	0.00475 U	4,800	67,000
Acenaphthylene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.053**	0.0047 U	**0.08**	0.0049 U	0.005 U	**0.00501 J**	0.00492 UJ	0.00475 U	4,800	67,300
Anthracene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.1**	0.0047 U	**0.16**	0.0049 U	0.005 U	**0.0224**	0.00492 U	**0.00362 J**	24,000	340,000
Fluorene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.089**	0.0047 U	**0.24**	0.0049 U	0.005 U	**0.0129**	0.00492 U	0.00475 U	3,200	40,000
Naphthalene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.46**	**0.0033 J**	**1.1**	**0.005**	**0.0025 J**	**0.0195 J**	0.00492 UJ	**0.00318 J**	1,600	22,000
Phenanthrene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.26**	0.0047 U	**0.65**	0.0049 U	0.005 U	**0.0484**	0.00492 U	**0.0124**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.059**	0.0047 U	**0.071**	0.0049 U	0.005 U	**0.0381**	0.00492 U	**0.0135**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.051**	0.0047 U	**0.049**	0.0049 U	0.005 U	**0.0420 J**	0.00492 UJ	**0.015**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.84**	0.0047 U	**0.098**	0.0049 U	0.005 U	**0.0974**	0.00984 U	**0.0295**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.038**	0.0047 U	**0.044**	0.0049 U	0.005 U	**0.0216**	0.00492 U	**0.0121**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.062**	0.0047 U	**0.098**	0.0049 U	0.005 U	**0.0448**	0.00492 U	**0.0216**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.024 U	0.0047 U	0.024 U	0.0049 U	0.005 U	**0.0122 J**	0.00492 UJ	**0.00806**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.26**	0.0047 U	**0.46**	0.0049 U	0.005 U	**0.104**	0.00492 U	**0.0309**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.027**	0.0047 U	**0.025**	0.0049 U	0.005 U	**0.0231**	0.00492 U	**0.00986**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.24**	0.0047 U	**0.43**	0.0049 U	0.005 U	**0.0996**	0.00492 U	**0.0269**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	0 U	0 U	0 U	**0.069**	0 U	**0.069**	0 U	0 U	**0.0595**	0 U	**0.0213**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	0.003 U	0.003 U	0.003 U	**0.070**	0.003 U	**0.071**	0.003 U	0.004 U	**0.0595**	0.00371 U	**0.0213**	0.056	0.056

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102	Proposed Sediment Cleanup Level[2]	
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10		
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Surface	Subsurface	Surface		
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	0.0049 U	0.005 U	0.0197 U	0.0197 U	0.0190 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	0.0049 U	0.005 U	0.0197 U	0.0197 U	0.0190 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	0.0049 U	0.005 U	0.0197 U	0.0197 U	0.0190 U	200	474
Hexachlorobenzene	mg/kg	0.00099 U	0.00095 U	0.00096 U	0.00097 U	0.00095 U	0.00096 U	0.00098 U	0.0001 U	0.00048 U	0.00050 U	0.00048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.049 U	0.047 U	0.047 U	0.049 U	0.047 U	0.048 U	0.049 U	0.05 U	0.0493 U	0.0493 U	0.0476 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0049 U	**0.0074**	**0.0088**	0.0049 U	0.005 U	0.0197 U	0.0197 U	0.0190 U	180	460
Dibutyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	0.019 U	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	**0.034**	0.02 U	0.02 U	0.0197 U	0.0217 U	0.0190 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	0.019 U	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	0.019 U	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.024 U	0.024 U	0.024 U	0.024 U	0.023 U	**0.024 J**	0.025 U	0.025 U	0.0247 U	0.0247 U	0.0238 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	**0.036**	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	**0.092**	**0.18**	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	6,000	90,000
Pentachlorophenol	mg/kg	0.098 U	0.094 U	0.095 U	0.098 U	0.094 U	0.096 U	0.099 U	0.099 U	**0.0028 J**	0.0197 U	0.0190 U	0.55	1.4
Phenol	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	**0.038**	**0.059**	0.02 U	0.02 U	**0.0232**	**0.0212**	**0.0145 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	0.0049 U	0.0047 U	0.0047 U	**0.086**	0.0047 U	**0.2**	0.0049 U	0.005 U	**0.023**	0.0197 U	0.0190 U	170	2,000
Hexachlorobutadiene	mg/kg	0.00099 U	0.00095 U	0.00096 U	0.00097 U	0.00095 U	0.00096 U	0.00098 U	0.001 U	0.0197 U	0.0197 U	0.0190 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	0.0049 U	0.005 U	0.0197 U	0.0197 U	0.0190 U	70	180
Benzoic Acid	mg/kg	0.2 U	0.19 U	0.19 U	0.2 U	**0.082 J**	**0.15 J**	0.2 U	0.2 U	0.0718 U	0.0640 U	**0.0318 J**	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.02 U	0.019 U	0.019 U	0.02 U	0.019 U	0.019 U	0.02 U	0.02 U	0.0197 U	0.0197 U	0.0190 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.00000377 J**	**0.00000554 J**	**0.00000479 J**	**0.0000427 J**	**0.00000411 J**	**0.00024 J**	**0.00000371 J**	**0.00000136 J**	**0.00181 J**	**0.0000215 J**	**0.000753 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	0 U	0 U	0 U	0 U	0 U	**0.00045 J**	0 U	0 U	**0.0035 J**	0 U	**0.0013 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	0.07 U	0.08 U	0.08 U	0.06 U	0.06 U	**0.048 J**	0.06 U	0.06 U	**0.040 J**	0.066 U	**0.035 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	0.981 U	0.993 U	0.148 U	0.244 U	0.984 U	0.672 U	0.979 U	0.151 U	**0.468 J**	0.132 U	0.177 U	NE	NE
2,3,7,8-TCDF	ng/Kg	0.981 U	0.993 U	0.0592 U	**1.09**	0.984 U	**3.44**	0.979 U	0.995 U	**4.88**	0.150 U	**1.19**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	0.108 U	0.993 U	0.284 U	0.317 U	0.0571 U	**2.87**	0.0627 U	0.995 U	**0.959 J**	0.182 U	0.252 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	0.0883 U	0.993 U	**0.234 J**	0.410 U	**0.0559 J**	**1.83 J**	**0.0337 J**	0.0577 U	**2.30 J**	0.181 U	0.295 U	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	0.0393 U	0.993 U	**0.147 J**	0.352 U	0.984 U	**2.53**	0.979 U	0.995 U	**3.71 J**	0.181 U	0.294 U	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	0.173 U	0.0338 U	0.353 U	**0.248 J**	0.0453 U	**3.78**	0.104 J	**0.0412 J**	**0.629 J**	0.297 U	0.390 U	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	0.0569 U	0.993 U	0.410 U	0.323 J	0.984 U	**1.92 J**	0.0392 U	0.995 U	**2.47 J**	0.221 U	0.236 U	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	0.179 U	0.993 U	**0.432 J**	0.281 U	**0.0719 J**	**5.38**	0.0725 U	0.0517 U	**1.25 J**	0.300 U	0.382 U	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	0.165 U	0.993 U	0.424 U	0.271 U	0.984 U	**2.12**	**0.0541 J**	0.995 U	**2.06 J**	0.222 U	0.245 U	NE	NE

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102	Proposed Sediment Cleanup Level[2]	
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10		
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm		
Sample Type		Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Subsurface[7]	Surface	Subsurface	Surface	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	0.457 U	0.0775 U	**0.758 J**	**0.371 J**	0.0943 J	**4.57**	0.165 U	0.995 U	**0.741 J**	0.288 U	0.373 U	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	**0.192 J**	0.0397 U	0.465 U	0.269 U	0.0906 U	**0.866 J**	**0.0995 J**	0.0756 U	**0.385 J**	0.277 U	0.306 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	0.132 U	0.993 U	0.316 U	**0.259 J**	0.0374 U	**2.58 J**	0.979 U	0.995 U	**1.78 J**	0.242 U	0.267 U	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	2.45 U	1.21 U	2.38 U	2.10 U	0.747 U	**57.3**	1.08 U	0.836 U	**28.6**	**0.513 J**	**6.73**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	0.475 U	0.0497 U	0.807 U	0.427 U	0.0768 U	**6.01**	0.180 U	0.0577 U	**5.5**	0.199 U	**1.25 J**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	0.194 U	0.0377 U	0.465 U	0.246 U	0.984 U	**1.37**	0.979 U	0.995 U	0.319 U	0.241 U	0.271 U	NE	NE
OCDD	ng/Kg	23.5 U	16.2 U	20.4 U	15.6 U	7.57 U	65.8 U	10.7 U	4.89 U	**230**	**3.91 J**	**42.5**	NE	NE
OCDF	ng/Kg	2.01 U	0.213 U	**2.56**	0.547 U	0.167 U	**3.83**	**0.749 J**	1.99 U	**8.19 J**	0.373 U	**2.60 J**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**0.019 J**	0 U	**0.17 J**	**0.23 J**	**0.018 J**	**6.8**	**0.027 J**	**0.004 J**	**4.44 J**	**0.0063 J**	**0.21 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**0.176 J**	0.1 U	**0.51 J**	**0.63 J**	**0.085 J**	**7.14 J**	**0.102 J**	**0.124 J**	**4.44 J**	**0.295 J**	**0.59 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106	Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10		
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18		
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**5.33**	**5.44**	**4.86**	**3.08**	**3.15**	**2.56**	**2.99**	**3.98**	**3.81**	**3.57**	**3.51**	12	12
Cadmium	mg/kg	**0.42**	**0.31**	**0.13**	**0.08 J**	**0.05 J**	**0.10 J**	**0.2**	**0.21**	**0.19**	**0.05 J**	**0.11 J**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**49.2**	**45.3**	**38.5**	**26.6**	**27.2**	**27**	**39.1**	**35.3**	**34.1**	**26.3**	**31.5**	25,000	400,000
Copper	mg/kg	**56**	**47.9**	**35**	**16.1**	**18.5**	**27.2**	**38.4**	**36.2**	**27.9**	**11.3**	**21.4**	8,000	90,000
Lead	mg/kg	**29.7**	**10.8**	**5.83**	**7.28**	**8.84**	**21.3**	**64.8 J**	**52.8**	**9.65**	**1.87**	**9.05**	21	21
Mercury	mg/kg	**0.102**	**0.0706**	**0.0443**	**0.0250 J**	**0.0189 J**	**0.0725**	**0.0843 J**	**0.142**	**0.0559**	**0.0126 J**	**0.0205 J**	0.20	0.20
Silver	mg/kg	**0.11 J**	**0.10 J**	**0.07 J**	**0.04 J**	**0.05 J**	**0.04 J**	**0.03 J**	**0.07 J**	**0.07 J**	**0.03 J**	**0.06 J**	200	4,000
Zinc	mg/kg	**71.1**	**61.9**	**51.1**	**45.9**	**50.5**	**35.9**	**59.1**	**51.3**	**56.6**	**32.4**	**51.4**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	3.44 U	3.66 U	3.84 U	3.43 U	3.58 U	3.45 U	3.63 U	3.86 U	**0.820 J**	3.69 U	3.72 U	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.0611**	**0.166**	**0.029**	**0.00607**	**0.00283 J**	**0.00705**	**0.0654**	**0.13**	**0.0167**	0.00480 U	**0.00736**	320	4,500
Acenaphthene	mg/kg	**0.0668**	**0.162**	**0.0336**	**0.00547**	**0.00531 J**	**0.00610 J**	**0.0578 J**	**0.133**	**0.0261 J**	0.00480 UJ	**0.0210 J**	4,800	67,000
Acenaphthylene	mg/kg	**0.0701**	**0.182**	0.0319	0.00485 U	**0.0100 J**	**0.00323 J**	**0.0279 J**	**0.0553**	**0.0123 J**	0.00480 UJ	**0.00524 J**	4,800	67,300
Anthracene	mg/kg	**0.0632**	**0.11**	**0.033**	**0.00651**	**0.0179**	**0.0196**	**0.0867**	**0.0958**	**0.055**	0.00480 U	**0.025**	24,000	340,000
Fluorene	mg/kg	**0.0805**	**0.178**	**0.0389**	**0.00452 J**	**0.00679**	**0.00846**	**0.0767**	**0.136**	**0.0316**	0.00480 U	**0.0178**	3,200	40,000
Naphthalene	mg/kg	**0.534**	**1.29**	**0.239**	**0.00611**	**0.00481 J**	**0.0329 J**	**0.273 J**	**0.75**	**0.0320 J**	0.00480 UJ	**0.0125 J**	1,600	22,000
Phenanthrene	mg/kg	**0.36**	**0.687**	**0.179**	**0.0256**	**0.0443**	**0.0397**	**0.335**	**0.432**	**0.164**	0.00480 U	**0.104**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.0401**	**0.0388**	**0.0197**	**0.0206**	**0.063**	**0.00737**	**0.147**	**0.0389**	**0.0965**	0.00480 U	**0.0709**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.0285**	**0.0217**	**0.0117**	**0.0213**	**0.0347 J**	**0.00598 J**	**0.123 J**	**0.026**	**0.0763 J**	0.00480 UJ	**0.0777 J**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.0612**	**0.0601**	**0.0419**	**0.0388**	**0.12**	**0.0153**	**0.196**	**0.079**	**0.142**	0.00959 U	**0.135**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.0246**	**0.0191**	**0.0125**	**0.0156**	**0.0167**	**0.00495**	**0.0684**	**0.0259**	**0.0474**	0.00480 U	**0.0575**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.0559**	**0.064**	**0.0281**	**0.0215**	**0.114**	**0.00882**	**0.165**	**0.0627**	**0.121**	0.00480 U	**0.0807**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.00913**	**0.00748**	**0.00160 J**	**0.0101**	**0.0107 J**	**0.00710 J**	**0.0261 J**	**0.0132**	**0.0171 J**	0.00480 UJ	**0.0192 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.284**	**0.466**	**0.133**	**0.0506**	**0.423**	**0.0352**	**0.371**	**0.33**	**0.242**	0.00480 U	**0.159**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.0194**	**0.00994**	**0.00777**	**0.0148**	**0.018**	**0.00440 J**	**0.0728**	**0.0142**	**0.0468**	0.00480 U	**0.0538**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.216**	**0.36**	**0.111**	**0.0403**	**0.254**	**0.028**	**0.331**	**0.26**	**0.224**	0.00480 U	**0.14**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.0420**	**0.0340**	**0.0191**	**0.0299**	**0.0570 J**	**0.00949 J**	**0.169 J**	**0.0416**	**0.108 J**	0 U	**0.106**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.0420**	**0.0340**	**0.0191**	**0.0299**	**0.0570 J**	**0.00949 J**	**0.169 J**	**0.0416**	**0.108 J**	0.00362 U	**0.106**	0.056	0.056

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106	Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10		
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18		
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	200	474
Hexachlorobenzene	mg/kg	0.00050 U	0.00393 U	0.0048 U	0.00049 U	0.00048 U	0.00049 U	0.00049 U	0.0050 U	0.0050 U	0.00048 U	0.0050 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**0.0282 J**	0.0479 U	0.0484 U	0.0485 U	**0.0545**	0.0480 U	0.0470 U	0.0496 U	**0.0559**	**0.0321 J**	**0.463**	24	60
Butyl Benzyl Phthalate	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	**0.0139 J**	0.0198 U	0.0199 U	0.0193 U	0.0194 U	180	460
Dibutyl Phthalate	mg/kg	0.0192 U	0.246	0.0676 U	0.0194 U	0.0199 U	0.0192 U	**0.184 J**	0.0667 U	0.0199 U	**0.0549**	0.0194 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.0187	**0.104**	0.0194 U	**0.0213**	0.0199 U	0.0192 U	0.0188 U	**0.0218**	0.0199 U	0.0193 U	0.0194 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.0067 J**	0.0106 J	0.0051 J	0.0242 U	0.0249 U	0.0240 U	**0.0099 J**	**0.0211**	0.0249 U	0.0241 U	0.0242 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.0192 U	0.0192 U	0.0106 J	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**0.275**	0.0817	0.0588	0.0194 U	0.0199 U	**0.0464**	**0.393**	**1.82**	**0.0275**	0.0193 U	0.0194 U	6,000	90,000
Pentachlorophenol	mg/kg	**0.0055 J**	0.0042 J	0.0194 U	0.0194 U	0.0199 U	0.0192 U	**0.0114 J**	**0.0254**	0.0199 U	0.0193 U	0.0194 U	0.55	1.4
Phenol	mg/kg	**0.0209**	**0.0192 U**	**0.0146 J**	**0.0138 J**	**0.0111 J**	0.0192 U	**0.0522**	**0.0628**	**0.0291**	0.0193 U	**0.0134 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.0868**	0.134	0.0717	0.0194 U	**0.0108 J**	0.0192 U	**0.0748**	**0.160**	**0.0361**	0.0193 U	**0.0117 J**	170	2,000
Hexachlorobutadiene	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	0.0188 U	0.0198 U	0.0199 U	0.0193 U	0.0194 U	70	180
Benzoic Acid	mg/kg	**0.0778 J**	0.0835 J	0.0513 J	**0.0504 J**	0.0538 U	0.0960 U	**0.186**	**0.388**	0.0585 U	0.0964 U	0.0441 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.0192 U	0.0192 U	0.0194 U	0.0194 U	0.0199 U	0.0192 U	**0.0176 J**	0.0198 U	0.0199 U	0.0193 U	0.0194 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.0175 J**	**0.00459 J**	**0.000644 J**	**0.0014 J**	**0.00188**	**0.00707**	**0.0392 J**	**0.0278 J**	**0.00304 J**	**0.0000387 J**	**0.00178 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**0.29 J**	**0.158 J**	**0.00142**	**0.07 J**	**0.0037 J**	**0.124 J**	**0.879**	**0.563**	**0.17 J**	**0.0001**	**0.0036 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**0.31 J**	**0.169 J**	**0.0759**	**0.074 J**	**0.05 J**	**0.137 J**	**0.907**	**0.584**	**0.18 J**	**0.063**	**0.034 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	**1.18**	**1.17**	0.170 U	0.123 U	0.141 U	0.122 U	**2.1**	**0.506 J**	0.196 U	0.123 U	**0.406 J**	NE	NE
2,3,7,8-TCDF	ng/Kg	**16.6**	**5.83**	**1.83**	**1.55**	**1.69**	**2.56**	**29.6**	**12.9**	**7.2**	0.0972 U	**4.17**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	**3.07 J**	**3.64 J**	**1.47 J**	0.249 U	**0.340 J**	**0.609 J**	**6.35**	**1.11 J**	**0.576 J**	0.243 U	0.293 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	**3.65 J**	**2.62 J**	**0.864 J**	0.256 U	0.240 U	**0.704 J**	**19.3**	**2.03 J**	**0.506 J**	0.153 U	**1.00 J**	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	**7.11**	**4.15 J**	**1.18 J**	0.244 U	**0.486 J**	**1.09 J**	**30.5**	**3.64 J**	**0.850 J**	0.160 U	**1.21 J**	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	**3.50 J**	**5.05**	**2.43 J**	0.362 U	**0.411 J**	**0.809 J**	**6.84**	**1.21 J**	**0.763 J**	0.302 U	0.390 U	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	**2.88 J**	**2.21 J**	**0.463 J**	0.272 U	0.292 U	**0.779 J**	**25.7**	**2.26 J**	**0.463 J**	0.215 U	**0.441 J**	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	**6.05**	**6.09**	**2.94 J**	**0.541 J**	**1.08 J**	**1.08 J**	**9.71**	**2.73 J**	**1.76 J**	0.317 U	**1.06 J**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	**2.93 J**	2.36 UJ	**0.581 J**	0.269 U	0.309 U	**0.744 J**	**23.4**	**1.89 J**	**0.430 J**	0.220 U	**0.408 J**	NE	NE

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106	Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10		
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18		
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	**4.09 J**	**5.34**	**2.61 J**	0.354 U	**0.600 J**	**0.793 J**	**7.94**	**1.66 J**	**1.14 J**	0.298 U	**0.614 J**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	**0.873 J**	**0.681 J**	0.232 U	0.343 U	0.378 U	**0.493 J**	**6.22**	**0.566 J**	0.277 U	0.273 U	0.307 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	**3.54 J**	**2.11 J**	**0.652 J**	0.292 U	0.319 U	**0.806 J**	**21.7**	**2.33 J**	**0.575 J**	0.239 U	**0.467 J**	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	**57.4**	**50.8**	**17.3**	**8.81**	**18.6**	**13.6**	**68.5**	**31.2**	**39**	**0.434 J**	**16.5**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	**20.9**	**17.2**	**1.24 J**	**1.39 J**	**2.50 J**	**4.09 J**	**60.8**	**15.3**	**5.08**	0.234 U	**2.63 J**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	**1.15 J**	**1.13 J**	0.285 U	0.210 U	0.331 U	**0.414 J**	**6.13**	**0.781 J**	0.384 U	0.293 U	0.248 U	NE	NE
OCDD	ng/Kg	**249**	**132**	**19**	**64.1**	**139**	**77.2**	**201**	**212**	**297**	**2.42 J**	**113**	NE	NE
OCDF	ng/Kg	**29.4**	**19.7**	**0.876 J**	**3.52 J**	**6.95 J**	**4.05 J**	**26**	**13.8**	**12.3**	0.319 U	**6.92 J**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**11.39 J**	**9.84 J**	**3.19 J**	**1.75 J**	**1.12 J**	**1.97 J**	**32.7**	**5.86 J**	**2.61 J**	**0.0051 J**	**1.74 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**11.39 J**	**9.84 J**	**3.29 J**	**2.06 J**	**1.26 J**	**2.03 J**	**32.7**	**5.86 J**	**2.73 J**	**0.32 J**	**1.92 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-106			ST-107			ST-108			ST-109		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3		
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18		
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**3.1**	**3.19**	**3.62**	**5.15**	**3.59**	**3.20**	**15**	**8.26**	**2.8**	**15.2**	**8.10**	12	12
Cadmium	mg/kg	**0.16**	**0.18**	**0.24**	**0.43**	**0.16**	**0.10 J**	**0.74**	**1.74**	**0.05 J**	**1.14**	**0.570**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**31.5**	**31**	**32.9**	**31.6**	**23.7**	**23.70**	**31.3**	**32.8**	**19.4**	**14.9**	**37.7**	25,000	400,000
Copper	mg/kg	**23.9**	**22.3**	**25.2**	**27**	**12.4**	**10.5**	**30.6**	**49.9**	**6.39**	**28.9**	**59.5**	8,000	90,000
Lead	mg/kg	**14**	**17.9 J**	**14.7**	**9.75**	**4.38**	**1.99**	**21.9**	**94.7**	**3.84 J**	**22**	**67.3**	21	21
Mercury	mg/kg	**0.0331**	**0.0450 J**	**0.0563**	**0.0326 J**	**0.0261 J**	**0.0172 J**	**0.0293 J**	**0.176**	**0.0117 J**	**0.0399 J**	**0.295**	0.20	0.20
Silver	mg/kg	**0.06 J**	**0.03 J**	**0.08 J**	**0.07 J**	**0.04 J**	**0.03 J**	**0.08 J**	**0.20 J**	0.23 U	**0.08 J**	**0.16 J**	200	4,000
Zinc	mg/kg	**55.5**	**57**	**58.5**	**62.4**	**31.2**	**30.4**	**131**	**904**	**26.9**	**150**	**99.1**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	3.62 U	**2.74 J**	**9.19**	**3.49 J**	3.75 U	3.81 U	**5.67**	33.6 U	3.80 U	**6.22**	3.84 U	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.00614**	**0.044**	**0.0581**	**0.0485**	**0.00563**	0.00496 U	**0.162**	**0.251**	**0.0114**	**0.359**	**0.337**	320	4,500
Acenaphthene	mg/kg	**0.00632 J**	**0.0372 J**	**0.0722**	**0.0812 J**	**0.00595 J**	0.00496 UJ	**0.322 J**	**0.454 J**	**0.0176 J**	**0.587 J**	**1.260 J**	4,800	67,000
Acenaphthylene	mg/kg	**0.00390 J**	**0.0160 J**	**0.0174**	**0.0228 J**	0.00494 UJ	0.00496 UJ	**0.0315 J**	**0.0175 J**	**0.00254 J**	**0.121 J**	**0.0716 J**	4,800	67,300
Anthracene	mg/kg	**0.0246**	**0.0613**	**0.0958**	**0.0953**	**0.00726**	0.00496 U	**0.32**	**0.328**	**0.023**	**0.415**	**1.15**	24,000	340,000
Fluorene	mg/kg	**0.00941**	**0.0427**	**0.0801**	**0.0738**	**0.00781**	0.00496 U	**0.31**	**0.533**	**0.0202**	**0.458**	**1.26**	3,200	40,000
Naphthalene	mg/kg	**0.00955 J**	**0.126 J**	**0.165**	**0.118 J**	**0.0152 J**	0.00496 UJ	**0.520 J**	**0.483 J**	**0.0241 J**	**1.33 J**	**1.40 J**	1,600	22,000
Phenanthrene	mg/kg	**0.059**	**0.16**	**0.225**	**0.228**	**0.0279**	0.00496 U	**1.00**	**1.82**	**0.0664**	**0.861**	**2.81**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.0888**	**0.084**	**0.0989**	**0.176**	**0.00328 J**	0.00496 U	**0.529**	**0.222**	**0.0126**	**0.989**	**0.708**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.0967 J**	**0.0564 J**	**0.0672**	**0.127 J**	**0.00253 J**	0.00496 UJ	**0.314 J**	**0.0908 J**	**0.00531 J**	**0.642 J**	**0.196 J**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.168**	**0.127**	**0.209**	**0.29**	**0.00648 J**	0.00993 U	**0.810**	**0.207**	**0.0126**	**1.66**	**0.442**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.0574**	**0.0334**	**0.0418**	**0.0642**	0.00494 U	0.00496 U	**0.136**	**0.0484**	**0.00250 J**	**0.229**	**0.103**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.102**	**0.121**	**0.183**	**0.271**	**0.00565**	0.00496 U	**2.45**	**0.282**	**0.0131**	**1.69**	**0.892**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.0193 J**	**0.0152 J**	**0.0167**	**0.0230 J**	0.00494 UJ	0.00496 UJ	**0.0618 J**	**0.0199 J**	**0.00652 J**	**0.0896 J**	**0.0370 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.131**	**0.155**	**0.302**	**0.46**	**0.0179**	0.00496 U	**1.73**	**1.39**	**0.0668**	**2.76**	**3.63**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.0589**	**0.0323**	**0.0389**	**0.0668**	0.00494 U	0.00496 U	**0.155**	**0.047**	**0.00247 J**	**0.272**	**0.0975**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.137**	**0.222**	**0.480**	**0.526**	**0.0169**	0.00496 U	**1.39**	**1.03**	**0.0527**	**2.06**	**2.36**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.131 J**	**0.0835 J**	**0.105**	**0.185 J**	**0.00356 J**	0 U	**0.494 J**	**0.143 J**	**0.00886 J**	**0.971 J**	**0.333 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.131 J**	**0.0835 J**	**0.105**	**0.185 J**	**0.00406 J**	0.00375 UJ	**0.494 J**	**0.143 J**	**0.00886 J**	**0.971 J**	**0.333 J**	0.056	0.056

Sample Location[1]		ST-106			ST-107			ST-108			ST-109		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3		
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18		
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	200	474
Hexachlorobenzene	mg/kg	0.00048 U	0.00049 U	0.0049 U	0.0050 U	0.0050 U	0.00035 U	0.00048 U	0.00052 U	0.00047 U	0.00049 U	0.00081 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.0499 U	**0.200**	**1.19**	0.0499 U	0.0494 U	0.0498 U	**0.259**	0.495 U	**0.0297 J**	**0.231**	0.0500 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.0200 U	0.0190 U	**0.113**	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	180	460
Dibutyl Phthalate	mg/kg	0.0200 U	**0.226 J**	0.0531 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	**0.0480 J**	0.0200 U	0.0200 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.0303	0.0190 U	0.0196 U	0.0195	0.0197 U	0.0199 U	0.0212	0.198 U	0.0199 U	0.0200 U	0.0200 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.0200 U	0.0190 U	0.0196 U	**0.0573**	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.0250 U	**0.0034 J**	**0.0054 J**	0.0249 U	0.0247 U	0.0249 U	**0.0151 J**	**0.0695 J**	0.0249 U	0.0249 U	**0.119**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.0200 U	**0.210**	**0.229**	0.0743	0.0197 U	0.0199 U	**0.629**	**14.9**	**0.113**	**0.786**	0.215	6,000	90,000
Pentachlorophenol	mg/kg	0.0200 U	**0.0041 J**	**0.0089 J**	0.0200 U	0.0197 U	0.0199 U	**0.0048 J**	0.198 U	0.0199 U	**0.00560 J**	0.0200 U	0.55	1.4
Phenol	mg/kg	**0.0103 J**	**0.0712**	**0.0573**	**0.0787**	0.0197 U	0.0199 U	**0.170**	**0.200**	0.0199 U	**0.141**	**0.0457**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.0094 J**	**0.059**	**0.127**	**0.0773**	0.0197 U	0.0199 U	**1.28**	**1.63**	**0.0307**	**1.31**	**1.11**	170	2,000
Hexachlorobutadiene	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0200 U	0.0190 U	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	70	180
Benzoic Acid	mg/kg	**0.0323 J**	**0.288**	**0.197**	**0.0612 J**	0.0987 U	0.0996 U	**0.0778 J**	0.989 U	**0.0188 J**	**0.126**	0.0999 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.0200 U	**0.0321**	0.0196 U	0.0200 U	0.0197 U	0.0199 U	0.0200 U	0.198 U	0.0199 U	0.0200 U	0.0200 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.005 J**	**0.00785 J**	**0.00714 J**	**0.00728 J**	**0.00163 J**	**0.0000374 J**	**0.0058 J**	**0.0484 J**	**0.00132 J**	**0.0742 J**	**0.000312 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**0.19 J**	**0.267 J**	**0.321 J**	**0.34 J**	**0.0041 J**	**0.0001 J**	**0.12 J**	**1.07**	**0.0038 J**	**0.95**	**0.0004 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**0.2 J**	**0.293 J**	**0.344 J**	**0.35 J**	**0.058 J**	**0.0345 J**	**0.13 J**	**1.09**	**0.0474 J**	**0.95**	**0.067 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	0.176 U	**0.783 J**	**1.12**	**0.340 J**	0.123 U	0.183 U	**0.648 J**	**7.71**	0.134 U	**0.942 J**	0.739 J	NE	NE
2,3,7,8-TCDF	ng/Kg	**2.69**	**6.34**	**6.94**	**6.41**	**4.35**	0.155 U	**31.4**	**332**	**10**	**48**	4.7	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	**0.525 J**	**1.43 J**	**2.54 J**	**0.732 J**	0.177 U	0.222 U	**1.37 J**	**40**	0.214 U	**9.15**	1.91 J	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	**0.425 J**	**1.70 J**	**1.58 J**	**0.628 J**	0.218 U	0.222 U	**2.80 J**	**33.4**	**0.401 J**	**3.04 J**	1.98 J	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	**0.755 J**	**2.63 J**	**2.66 J**	**1.10 J**	0.228 U	0.234 U	**4.01 J**	**70.6**	**0.471 J**	**4.42 J**	2.16 J	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	**0.578 J**	**1.68 J**	**2.37 J**	**1.06 J**	0.275 U	0.294 U	**2.08 J**	**85.7**	0.407 U	**26**	2.00 J	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	**0.484 J**	**1.46 J**	**1.21 J**	**0.579 J**	0.242 U	0.165 U	**3.69 J**	**87.1**	**0.718 J**	**3.46 J**	0.897 J	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	**1.27 J**	**3.88 J**	**6.13**	**2.15 J**	**0.391 J**	0.281 U	**6.13**	**120**	0.423 U	**19.6**	3.20 J	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	**0.338 J**	**1.31 J**	**1.34 J**	**0.527 J**	0.257 U	0.167 U	**2.91 J**	**91.2**	**0.451 J**	2.30 UJ	0.965 J	NE	NE

Sample Location[1]		ST-106			ST-107			ST-108			ST-109		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3		
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18		
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft		
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
1,2,3,7,8,9-HxCDD	ng/Kg	**0.959 J**	**2.45 J**	**4.99**	**1.49 J**	0.273 U	0.277 U	**2.96 J**	**97.2**	0.399 U	**12.7**	2.60 J	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	**0.243 J**	**0.484 J**	**0.547 J**	**0.404 J**	0.312 U	0.220 U	**1.18 J**	**26**	0.294 U	**1.41 J**	0.358 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	**0.506 J**	**1.54 J**	**1.54 J**	**0.699 J**	0.267 U	0.179 U	**2.92 J**	**133**	0.257 U	**2.30 J**	1.05 J	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	**25.6**	**62**	**63.7**	**56.4**	**7.51**	**0.775 J**	**161**	**1320**	**6.16**	**209**	21	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	**2.95 J**	**6.47**	**6.18**	**4.70 J**	**0.991 J**	0.165 U	**18.9**	**567**	**3.67 J**	**15.9**	2.37 J	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	**0.263 J**	**0.711 J**	**0.624 J**	**0.413 J**	0.171 U	0.195 U	**2.08 J**	**51.3**	**0.682 J**	**2.50 J**	0.299 U	NE	NE
OCDD	ng/Kg	**169**	**437**	**380**	**474**	**50.2**	**4.60 J**	**958**	**2630**	**43**	**918**	47.2	NE	NE
OCDF	ng/Kg	**7.64 J**	**10.7**	**10.4**	**15.7**	**1.91 J**	0.473 U	**26.5**	**233**	**3.71 J**	**40.6**	1.29 J	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**1.81 J**	**5.79 J**	**7.83 J**	**3.51 J**	**0.58 J**	**0.0091 J**	**10.7 J**	**187 J**	**1.39**	**25.4 J**	**5.15 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**1.9 J**	**5.79 J**	**7.83 J**	**3.51 J**	**0.84 J**	**0.339 J**	**10.7 J**	**187 J**	**1.65**	**25.5 J**	**5.17 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01		
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015		
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**2.38**	**3.02**	**3.62**	**3.32**	**3.67**	**4.76**	**4.46**	**3.43**	**9.68**	**23**	**19**	12	12
Cadmium	mg/kg	**0.05 J**	**0.180**	**0.32**	**0.26**	**0.23**	**0.42**	**0.34**	**0.150**	**1.44**	**0.9**	**0.9**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**17.4**	**29.3**	**35.6**	**35.8**	**36**	**52.4**	**47.3**	**29.7**	**48.3**	**31.3**	**33.5**	25,000	400,000
Copper	mg/kg	**5.05**	**19.3**	**28.9**	**28.9**	**35.7**	**59.3**	**54.5**	**16.1**	**77.2**	**34.1**	**30.4**	8,000	90,000
Lead	mg/kg	**2.20 J**	**10.6**	**25.7**	**23**	**39.6**	**70.7 J**	**46.4**	**9.62 J**	**149**	**65**	**103**	21	21
Mercury	mg/kg	**0.00746 J**	**0.0393**	**0.0548**	**0.0749**	**0.0906**	**0.209 J**	**0.129**	**0.025 J**	**0.515**	**0.09**	**0.11**	0.20	0.20
Silver	mg/kg	0.24 U	**0.06 J**	**0.08 J**	**0.07 J**	**0.08 J**	**0.12 J**	**0.10 J**	**0.05 J**	**0.26 J**	**0.07 J**	0.5 U	200	4,000
Zinc	mg/kg	**22.1**	**47.0**	**52.5**	**52.6**	**58.3**	**74.2**	**67.4**	**39.5**	**404**	**84**	**81**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	3.65 U	**3.46 J**	**1.43 J**	**2.86 J**	**2.30 J**	3.53 U	3.86 U	3.80 U	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.0917**	**0.0376**	**0.0618**	**0.0659**	**0.0674**	**0.149**	**0.0734**	**0.0176**	**2.69**	**0.36**	**0.33**	320	4,500
Acenaphthene	mg/kg	**0.0701 J**	**0.0370 J**	**0.0588 J**	**0.0656 J**	**0.0799 J**	**0.146 J**	**0.0649**	**0.0204 J**	**4.92 J**	**0.62**	**0.51**	4,800	67,000
Acenaphthylene	mg/kg	**0.00241 J**	**0.0118 J**	**0.0212 J**	**0.0295 J**	**0.0242 J**	**0.103 J**	**0.0885**	**0.00527 J**	**0.272**	**0.082 J**	**0.055 J**	4,800	67,300
Anthracene	mg/kg	**0.00206 J**	**0.0416**	**0.0626**	**0.0834**	**0.0939**	**0.0962**	**0.0706**	**0.0173**	**2.04**	**0.25**	**0.23**	24,000	340,000
Fluorene	mg/kg	**0.00269 J**	**0.0364**	**0.059**	**0.0796**	**0.0945**	**0.16**	**0.0781**	**0.0206**	**4.30**	**0.47**	**0.4**	3,200	40,000
Naphthalene	mg/kg	**0.0978 J**	**0.0918 J**	**0.291 J**	**0.261 J**	**0.289 J**	**1.05 J**	**0.605**	**0.0787 J**	**9.07 J**	**1.6**	**1.3**	1,600	22,000
Phenanthrene	mg/kg	**0.00612**	**0.125**	**0.199**	**0.249**	**0.304**	**0.518**	**0.431**	**0.0596**	**9.02**	**0.97**	**0.79**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.00115 J**	**0.0573**	**0.077**	**0.0617**	**0.0567**	**0.0513**	**0.0331**	**0.00993**	**0.753**	**0.16**	**0.1**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.00100 J**	**0.0353 J**	**0.0464 J**	**0.0457 J**	**0.0355 J**	**0.0370 J**	**0.0218**	**0.00448 J**	**0.192 J**	**0.12 J**	**0.059 J**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	0.00960 U	**0.0918**	**0.0971**	**0.0923**	**0.086**	**0.0827**	**0.0708**	**0.0132**	**0.525**	**0.26 J**	**0.14 J**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.00113 J**	**0.0198**	**0.028**	**0.0387**	**0.0287**	**0.0375**	**0.0207**	**0.00465 J**	**0.0876**	**0.072 J**	**0.034 J**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.00151 J**	**0.0782**	**0.0777**	**0.0798**	**0.0855**	**0.0700**	**0.0575**	**0.0101**	**0.900**	**0.2**	**0.14**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.00480 UJ	**0.0105 J**	**0.0125 J**	**0.0131 J**	**0.0123 J**	**0.0103 J**	**0.00694**	**0.0069**	**0.0214 J**	0.049 U	0.014 U	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.00545**	**0.228**	**0.259**	**0.298**	**0.321**	**0.349**	**0.315**	**0.0589**	**6.69**	**0.82**	**0.66**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	0.00480 U	**0.0186**	**0.0244**	**0.0314**	**0.0259**	**0.025**	**0.0128**	**0.00353 J**	**0.0765**	**0.056 J**	**0.027 J**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.00502**	**0.253**	**0.296**	**0.239**	**0.245**	**0.256**	**0.252**	**0.0435**	**4.37**	**0.64**	**0.46**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.00113 J**	**0.0539 J**	**0.0683 J**	**0.0664 J**	**0.0545 J**	**0.0582 J**	**0.0339**	**0.00794 J**	**0.339 J**	**0.17 J**	**0.087 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.00137 J**	**0.0539 J**	**0.0683 J**	**0.0664 J**	**0.0545 J**	**0.0582 J**	**0.0339**	**0.00794 J**	**0.339 J**	**0.172 J**	**0.088 J**	0.056	0.056

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01		
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015		
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0049 U	0.0194 U	0.0963 U	0.0049 U	0.0048 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0049 U	0.0194 U	0.0963 U	0.0049 U	**0.0014 J**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0024 J	0.0194 U	0.0963 U	**0.0024 J**	**0.0027 J**	200	474
Hexachlorobenzene	mg/kg	0.00048 U	0.00049 U	0.00048 U	0.00049 U	0.00048 U	0.00048 U	0.0049 U	0.00049 U	0.00486 U	0.0049 U	0.0048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.0477 U	0.0480 U	0.0495 U	**0.0348 J**	0.0496 U	0.0489 U	0.0969	**0.0310 J**	0.241 U	**0.028 J**	**0.038 J**	24	60
Butyl Benzyl Phthalate	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	**0.0593**	0.0049 U	0.0194 U	0.0963 U	**0.0031 J**	0.0048 U	180	460
Dibutyl Phthalate	mg/kg	**0.0582 J**	0.0192 U	0.0198 U	0.0198 U	0.0198 U	**0.274 J**	0.0336 U	**0.247**	0.0963 U	**0.0088 J**	0.019 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0236	0.0194 U	0.0963 U	0.02 UJ	0.019 UJ	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0049 U	0.0194 U	0.0963 U	0.02 U	0.019 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0197 U	0.0194 U	0.0963 U	0.02 U	0.019 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.0121 J**	**0.0025 J**	**0.0069 J**	**0.0108 J**	**0.0082 J**	**0.0246 J**	**0.0170 J**	**0.0035 J**	**0.438**	**0.01 J**	**0.015 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0049 U	0.0194 U	0.0963 U	**0.0088 J**	**0.011 J**	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.0191 U	**0.0949**	**0.681**	**0.765**	**0.730**	**1.92**	**1.59**	**0.109**	**5.13**	**0.33**	**0.39**	6,000	90,000
Pentachlorophenol	mg/kg	0.0191 U	**0.0137 J**	**0.0098 J**	**0.0081 J**	**0.0044 J**	**0.0191 J**	**0.0121 J**	**0.0082 J**	**0.0103 J**	0.098 U	0.096 U	0.55	1.4
Phenol	mg/kg	0.0191 U	**0.0540**	**0.0652**	**0.0861**	**0.0515**	**0.0590**	**0.0548**	**0.0132 J**	**0.403**	**0.073**	**0.069**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	0.0191 U	**0.0463**	**0.0657**	**0.0984**	**0.0830**	**0.194**	**0.177**	**0.0188 J**	**3.01**	**0.51**	**0.43**	170	2,000
Hexachlorobutadiene	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	**0.214**	0.0049 U	0.0049 U	0.0241 U	0.0049 U	0.0048 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0191 U	0.0192 U	0.0198 U	0.0198 U	0.0198 U	0.0196 U	0.0049 U	0.0093 U	0.0461 U	0.0049 U	0.0048 U	70	180
Benzoic Acid	mg/kg	0.0954 U	0.203 U	0.233 U	0.221 U	0.141 U	**0.409**	**0.216**	**0.0683 J**	0.540 U	**0.08 J**	**0.12 J**	240,000	3,500,000
Benzyl Alcohol	mg/kg	**0.0146 J**	0.0192 U	0.0198 U	0.0198 U	**0.0198 U**	0.0272	0.0197 U	**0.0161 J**	0.0717 U	0.02 U	**0.016 J**	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.000011 J**	**0.00509 J**	**0.0261 J**	**0.0197 J**	**0.0328 J**	**0.0336 J**	**0.0131 J**	**0.00452 J**	**0.0145**	**0.368**	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	0.000 U	**0.2 J**	**0.83**	**0.36 J**	**0.71**	**0.323 J**	**0.0187**	**0.0112 J**	**0.036**	**7.13**	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	0.0611 U	**0.21 J**	**0.84**	**0.37 J**	**0.72**	**0.343 J**	**0.143**	**0.0753 J**	**0.16**	**7.15**	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	0.121 U	**0.282 J**	**0.866 J**	**0.892 J**	**0.999 J**	**1.37**	**0.878 J**	0.155 U	**2.49**	--	--	NE	NE
2,3,7,8-TCDF	ng/Kg	0.134 U	**11.2**	**40**	**45.7**	**43.8**	**96.9**	**10.1**	**4.77**	**104**	--	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	0.158 U	**0.772 J**	**1.90 J**	**1.59 J**	**2.07 J**	**3.50 J**	**1.94 J**	**0.848 J**	**6.53**	--	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	0.165 U	**1.37 J**	**2.30 J**	**2.68 J**	**3.83 J**	**5.8**	**2.52 J**	**0.520 J**	**7.27**	--	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	0.163 U	**1.42 J**	**3.98 J**	**4.64 J**	**6.88**	**9.94**	**4.73 J**	**0.998 J**	**10.2**	--	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	0.282 U	**0.948 J**	**2.13 J**	**1.75 J**	**2.42 J**	**5.34**	**2.35 J**	**9.66**	**8.18**	--	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	0.130 U	**1.33 J**	**1.91 J**	**2.87 J**	**4.81 J**	**6.73**	**1.95 J**	**0.765 J**	**5.58**	--	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	0.299 U	**2.16 J**	**5.05**	**4.11 J**	**6.02**	**7.82**	**4.17 J**	**35.2**	**15**	--	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	0.139 U	**0.864 J**	**1.80 J**	**2.46 J**	**4.09 J**	**5.38**	**2.00 J**	**0.717 J**	**4.56 J**	--	--	NE	NE

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01		Proposed Sediment Cleanup Level[2]	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01		
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015		
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm		
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
1,2,3,7,8,9-HxCDD	ng/Kg	0.280 U	**1.37 J**	**3.60 J**	**2.39 J**	**4.36 J**	**4.90 J**	**2.88 J**	**25.6**	**10.2**	--	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	0.164 U	**0.465 J**	**0.831 J**	**0.915 J**	**1.33 J**	**1.79 J**	**0.647 J**	0.351 U	**1.31 J**	--	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	0.147 U	**0.832 J**	**2.12 J**	**3.22 J**	**4.60 J**	**6.15**	**2.30 J**	**0.738 J**	**4.73 J**	--	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	**0.560 J**	**34.4**	**86.5**	**64.4**	**68.3**	**96.8**	**40.3**	**2090**	**121**	--	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	0.142 U	**5.55**	**11.3**	**19.3**	**26.7**	**44**	**16.2**	**16**	**38.6**	--	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	0.172 U	**0.709 J**	**0.894 J**	**1.28 J**	**2.04 J**	**3.64 J**	**0.895 J**	**1.11 J**	**2.40 J**	--	--	NE	NE
OCDD	ng/Kg	**4.13 J**	**213**	**398**	**389**	**354**	**491**	**228**	**20,900**	**437**	--	--	NE	NE
OCDF	ng/Kg	0.348 U	**12.8**	**19.1**	**30.3**	**37.8**	**68.1**	**24.7**	**54.6**	**36.4**	--	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**0.0068 J**	**3.91 J**	**10.9 J**	**11.3 J**	**13.5 J**	**23.1 J**	**7.6 J**	**36.3 J**	**29.4 J**	--	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**0.254 J**	**3.91 J**	**19.9 J**	**11.3 J**	**13.5 J**	**23.1 J**	**7.6 J**	**36.4 J**	**29.4 J**	--	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-01					MAF-02					MAF-03	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**20 J**	**33 J**	**22.9 J**	**7.0**	**8.0**	**18**	**20**	**14.5 J**	**10**	**20**	**60**	12	12
Cadmium	mg/kg	**0.7 J**	**1.3 J**	**1.0**	**0.05 J**	**0.092 J**	**0.9**	**0.7**	**0.535 J**	0.6 U	0.7 U	**1.8**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**15 J**	**26.4 J**	**18**	**26.9**	**27.9**	**21.4**	**35 J**	**40 J**	**19 J**	**27 J**	**19**	25,000	400,000
Copper	mg/kg	**51.2 J**	**154 J**	**64**	**8.1**	**8.3**	**31.1**	**90.8**	**123**	**7.1 J**	**9 J**	**42.9**	8,000	90,000
Lead	mg/kg	**130**	**176**	**80**	**4.0**	**4.0**	**27**	**45**	**37**	**3.17 J**	**4.45 J**	**115**	21	21
Mercury	mg/kg	**0.21**	**0.23**	**0.23**	**0.0074 J**	**0.008 J**	**0.2**	**0.0396 J**	**0.22**	**0.0101 J**	**0.0055 J**	**0.22**	0.20	0.20
Silver	mg/kg	**0.1 J**	**0.31 J**	**2 U**	0.4 U	0.4 U	0.5 U	0.9 U	1 U	0.9 U	1 U	**0.39 J**	200	4,000
Zinc	mg/kg	**80**	**114**	**102**	**27**	**30**	**97**	**833 J**	**1,010 J**	**25 J**	**32 J**	**98**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.38 J**	**0.72 J**	**0.7**	**0.0034 J**	**0.0024 J**	**0.35**	**0.62**	**1.2**	**0.023 J**	**0.039 J**	**0.91**	320	4,500
Acenaphthene	mg/kg	**0.74 J**	**1.4 J**	**1.2**	**0.0038 J**	0.0048 U	**0.85**	**0.85**	**1.3**	**0.059 J**	**0.11 J**	**2.7**	4,800	67,000
Acenaphthylene	mg/kg	**0.087 J**	**0.14 J**	**0.36**	0.0048 U	0.0048 U	**0.089**	**0.31**	**0.37**	**0.0038 J**	**0.0074**	**0.12**	4,800	67,300
Anthracene	mg/kg	**0.4**	**0.4**	**0.2**	0.0048 U	0.0048 U	**0.32**	**0.1**	**0.026**	**0.03 J**	**0.066 J**	**1.7**	24,000	340,000
Fluorene	mg/kg	**0.6**	**0.99**	**0.76**	**0.0031 J**	0.0048 U	**0.53**	**0.42**	**0.51**	**0.033 J**	**0.062 J**	**1.6**	3,200	40,000
Naphthalene	mg/kg	**1.6 J**	**3.1 J**	**4.8**	**0.014 J**	**0.0065 J**	**1.6**	**6.3**	**13**	**0.14 J**	**0.63 J**	**4.3**	1,600	22,000
Phenanthrene	mg/kg	**1.2**	**2.0**	**1.2**	**0.0076**	**0.0028 J**	**1.0**	**0.86**	**0.45**	**0.047 J**	**0.085 J**	**2.4**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.33**	**0.25**	**0.055 J**	0.0048 U	0.0048 U	**0.1**	**0.028**	0.016 U	**0.03**	**0.037**	**1.2**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.19**	**0.16**	0.086 U	0.0048 U	0.0048 U	**0.085**	**0.018**	0.016 U	**0.018**	**0.018**	**0.42**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.32**	**0.35**	**0.059 J**	0.0048 U	0.0048 U	**0.2**	**0.045**	0.016 U	**0.034**	**0.033**	**0.91**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.076**	**0.086**	0.086 U	0.0048 U	0.0048 U	**0.052**	**0.013**	0.016 U	**0.01**	**0.01**	**0.19**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.32**	**0.34**	**0.08 J**	0.0048 U	0.0048 U	**0.14**	**0.048**	0.016 U	**0.043**	**0.046**	**1.1**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.027**	0.054 U	0.086 U	0.0048 U	0.0048 U	**0.012 J**	**0.0038 J**	0.016 U	0.0047 U	**0.0031 J**	**0.065**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**1.2**	**1.4**	**0.81**	**0.0058**	0.0048 U	**0.72**	**0.34**	**0.1**	**0.12 J**	**0.21 J**	**7.2**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.07**	**0.053 J**	0.086 U	0.0048 U	0.0048 U	**0.041**	**0.0083**	0.016 U	**0.0066**	**0.0077**	**0.17**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**1.5**	**1.5**	**0.62**	**0.0046 J**	0.0048 U	**0.56**	**0.2**	**0.076**	**0.091**	**0.15**	**4.8**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.268 J**	**0.229 J**	**0.012 J**	0 U	0 U	**0.122 J**	**0.027 J**	0 U	**0.026 J**	**0.027 J**	**0.666 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.268 J**	**0.231 J**	**0.064 J**	0.003 U	0.003 U	**0.122 J**	**0.027 J**	0.011 U	**0.026 J**	**0.027 J**	**0.666 J**	0.056	0.056

Sample Location[1]		MAF-01					MAF-02					MAF-03	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	**0.016 J**	**0.024**	0.017 U	0.0048 U	0.0048 U	0.0047 U	0.0049 U	0.016 U	0.0047 U	0.0049 U	**0.0063**	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.022 U	0.011 U	0.017 U	0.0048 U	0.0048 U	0.0047 U	**0.0032 J**	0.016 U	0.0047 U	0.0049 U	**0.0023 J**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	**0.015 J**	**0.0098 J**	**0.013 J**	0.0048 U	0.0048 U	**0.0030 J**	**0.0075**	**0.039**	0.0047 U	0.0049 U	**0.011**	200	474
Hexachlorobenzene	mg/kg	0.022 U	**0.019**	0.017 U	0.0048 U	0.0048 U	0.0047 U	0.0049 U	**0.059**	0.0047 U	0.0049 U	0.0048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**0.47 J**	**0.32 J**	0.35 U	**0.031 J**	0.048 U	**0.03 J**	**0.84**	**0.76**	**0.044 J**	0.049 U	0.048 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.022 U	0.011 U	0.017 U	0.0048 U	0.0048 U	0.0047 U	0.0049 U	**0.039**	0.0047 U	0.0049 U	0.0048 U	180	460
Dibutyl Phthalate	mg/kg	0.088 U	0.044 U	0.14 U	0.019 U	0.019 U	0.019 U	0.02 U	0.19 U	**0.012 J**	**0.0097 J**	0.019 U	6,000	90,000
Diethyl Phthalate	mg/kg	**0.08 J**	**0.052**	0.14 U	**0.02**	0.019 U	0.019 UJ	**0.02**	0.19 U	**0.02**	0.019 U	0.019 UJ	49,000	700,000
Dimethyl Phthalate	mg/kg	0.088 U	**0.066**	0.14 U	0.019 U	0.019 U	0.019 U	0.02 U	0.19 U	0.019 U	0.019 U	0.019 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.088 U	0.044 U	0.14 U	0.019 U	0.019 U	0.019 U	**0.056**	0.19 U	0.019 U	0.019 U	0.019 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.056 J**	**0.11**	**0.38**	0.024 U	0.024 U	**0.011 J**	**0.13**	**1**	**0.013 J**	**0.015 J**	**0.32**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.088 U	**0.046**	**0.083 J**	0.019 U	0.019 U	**0.01 J**	**0.29**	**0.93**	0.019 U	0.019 U	**0.063**	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**3.2**	**2.5**	**8.5**	**0.019**	0.019 U	**0.15**	**1.8**	**16**	**0.022**	**0.015 J**	**2.4**	6,000	90,000
Pentachlorophenol	mg/kg	0.44 U	0.22 U	0.69 U	0.096 U	0.095 U	0.095 U	0.097 U	0.97 U	0.094 U	0.097 U	0.097 U	0.55	1.4
Phenol	mg/kg	**0.17 J**	**0.12 J**	**0.13 J**	0.019 U	0.019 U	**0.071**	**0.43**	**0.42**	0.019 U	0.019 U	**0.12**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.62 J**	**1.2 J**	**0.86**	**0.0046 J**	0.0048 U	**0.68**	**0.47**	**0.45**	**0.034**	**0.052**	**3.1**	170	2,000
Hexachlorobutadiene	mg/kg	**0.012 J**	**0.062 J**	0.017 U	0.0048 U	0.0048 U	0.0047 U	0.0049 U	**0.17**	0.0047 U	0.0049 U	**0.0016 J**	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.022 U	0.011 U	0.017 U	0.0048 U	0.0048 U	0.0047 U	0.0049 U	0.016 U	0.0047 U	0.0049 U	0.0048 U	70	180
Benzoic Acid	mg/kg	**0.34 J**	**0.38 J**	**0.89 J**	0.19 U	0.19 U	**0.064 J**	**0.2**	1.9 U	0.19 UJ	0.19 U	0.19 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.088 U	0.044 U	0.14 U	0.019 U	0.019 U	0.019 U	**0.073**	0.19 U	0.019 U	0.019 UJ	0.019 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**1.63**	--	--	--	--	--	--	--	--	--	**0.278 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**21.31**	--	--	--	--	--	--	--	--	--	**7.40**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**21.33**	--	--	--	--	--	--	--	--	--	**7.41**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	**1.09**	--	--	--	--	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	**18.6**	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	**1.28 J**	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	**6.7**	--	--	--	--	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	**6.75**	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	**1.04 J**	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	**32.3**	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	**3.24 J**	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	**13.7**	--	--	--	--	--	NE	NE

Sample Location[1]		MAF-01					MAF-02					MAF-03	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	**1.36 J**	--	--	--	--	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	**5.66**	--	--	--	--	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	**18.2**	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	**52.3**	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	**124**	--	--	--	--	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	**17.2**	--	--	--	--	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	**338**	--	--	--	--	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	**61.9**	--	--	--	--	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	**16.1 J**	--	--	--	--	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	**16.1 J**	--	--	--	--	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[8]	MAF-SC-DUP-05	MAF-SC-04_2-4[9]	MAF-SC-04_4-6	MAF-SC-04_8-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**11.8 J**	**9 J**	**10.8 J**	**8.8 J**	**2.9**	**20**	20 U	20 U	20 U	20 U	**20**	12	12
Cadmium	mg/kg	**0.791 J**	**1.0**	**0.725 J**	**0.449 J**	**0.1**	**1.1**	**1.0**	1 U	1 U	0.9 U	**1.0**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**30**	**24**	**28**	**23**	**18.5**	**26**	**26**	**25**	**14**	**24**	**33**	25,000	400,000
Copper	mg/kg	**63.3**	**56.3**	**56.6**	**44.5**	**5.17**	**39.7**	**68.3**	**69**	**45**	**67.7**	**71.4**	8,000	90,000
Lead	mg/kg	**122**	**169**	**112**	**62**	**2.1**	**31**	**60 J**	**50 J**	**30 J**	**42 J**	**54 J**	21	21
Mercury	mg/kg	**0.3**	**0.4**	**0.25**	**0.15**	**0.0264**	**0.09**	**0.28 J**	**0.37 J**	**0.16 J**	**0.24 J**	**0.20 J**	0.20	0.20
Silver	mg/kg	1 U	1 U	1 U	1 U	0.35 U	0.8 U	1 U	1 U	1 U	1 U	1 U	200	4,000
Zinc	mg/kg	**464 J**	**146 J**	**742**	**995**	**20.5**	**113**	**67**	**51**	**41**	**228**	**104**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**6.3 J**	**2.7 J**	**1.8**	**2.1**	**0.0302**	**0.85**	**2.6**	**1.9**	**2.5**	**3.3**	**5.2**	320	4,500
Acenaphthene	mg/kg	**6.0**	**4.0**	**2.9**	**2.3**	**0.0249**	**2.4**	**3.6**	**2.6**	**3.5**	**4.4**	**7.8**	4,800	67,000
Acenaphthylene	mg/kg	**1.0**	**1.2**	**0.9**	**0.74**	**0.00288 J**	**0.19**	**0.84**	**0.57**	**0.83**	**0.91**	**1.0**	4,800	67,300
Anthracene	mg/kg	**1.0**	**0.75**	**0.8**	**0.37**	**0.0262**	**0.48**	**0.064**	**0.068**	**0.13**	**0.3**	**1.0**	24,000	340,000
Fluorene	mg/kg	**7.7 J**	**3.4 J**	**2.4**	**1.7**	**0.0318**	**1.3**	**1.9**	**1.4**	**1.8**	**2.6**	**5.6**	3,200	40,000
Naphthalene	mg/kg	**21**	**18**	**15**	**19**	**0.369**	**5.3**	**19**	**13**	**18**	**22**	**21**	1,600	22,000
Phenanthrene	mg/kg	**9.7**	**7.5**	**5.2**	**2.8**	**0.106**	**1.9**	**1.1**	**1.0**	**1.6**	**2.9**	**8.2**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.14 J**	0.34 U	**0.07**	**0.022 J**	--	**0.2**	0.02 U	0.019 U	0.019	**0.023**	**0.15**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	0.28 U	0.34 U	**0.034 J**	0.037 U	--	**0.18**	0.02 U	0.019 U	0.019	0.019 U	**0.043**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	0.28 U	0.34 U	**0.11**	0.037 U	--	**0.43**	0.02 U	0.019 U	0.019	**0.02**	**0.11**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	0.28 U	0.34 U	0.052 U	0.037 U	--	**0.089**	**0.011 J**	0.019 U	0.019	0.019 U	**0.027**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.2 J**	**0.22 J**	**0.1**	**0.031 J**	--	**0.3**	**0.011 J**	**0.012 J**	**0.021**	**0.043**	**0.21**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.28 U	0.34 U	0.052 U	0.037 U	--	0.049 U	**0.0050 J**	**0.0031 J**	**0.012**	**0.012 J**	**0.067 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**2.3**	**2.7**	**1.7**	**0.85**	--	**1.2**	**0.22**	**0.24**	**0.4**	**0.88**	**2.5**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	0.28 U	0.34 U	0.052 U	0.037 U	--	**0.077**	0.02 U	0.019 U	0.019	0.019 U	**0.019**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**1.5**	**1.9**	**0.92**	**0.52**	--	**0.84**	**0.13**	**0.14**	**0.22**	**0.55**	**1.6**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.016 J**	**0.002 J**	**0.053 J**	**0.003 J**	--	**0.254 J**	**0.001 J**	**0.0004 J**	**0.001 J**	**0.006 J**	**0.08 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.198 J**	**0.24 J**	**0.058 J**	**0.027 J**	--	**0.256 J**	**0.014 J**	**0.013 J**	**0.014 J**	**0.016 J**	**0.08 J**	0.056	0.056

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[8]	MAF-SC-DUP-05	MAF-SC-04_2-4[9]	MAF-SC-04_4-6	MAF-SC-04_8-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.16 UJ	**0.53 J**	0.052 U	**0.039**	0.0048 U	0.0049 U	**0.0024 J**	**0.0042 J**	**0.0021 J**	**0.0022 J**	**0.0020 J**	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.16 UJ	**0.022 J**	0.052 U	0.037 U	0.0048 U	**0.0017 J**	**0.0045 J**	**0.0064**	**0.0037 J**	**0.0042 J**	**0.0037 J**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.16 U	0.068 U	0.052 U	0.037 U	0.0048 U	**0.0036 J**	**0.0026 J**	**0.0038 J**	**0.0025 J**	**0.0024 J**	**0.0022 J**	200	474
Hexachlorobenzene	mg/kg	0.16 U	0.068 U	0.052 U	0.037 U	0.0048 U	0.0049 U	0.0050 U	0.0050 U	0.0050 U	0.0049 U	0.0049 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**2.2 J**	**0.4 J**	**0.94 J**	0.37 U	0.0481 U	0.049 U	0.05 U	0.05 U	0.05 U	0.049 U	0.049 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.16 U	0.068 U	0.052 U	0.037 U	0.0048 U	0.0049 U	0.0050 U	0.0050 U	0.0050 U	0.0049 U	0.0049 U	180	460
Dibutyl Phthalate	mg/kg	0.65 U	0.27 U	0.42 U	0.15 U	0.0192 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	6,000	90,000
Diethyl Phthalate	mg/kg	**0.78 J**	0.27 UJ	0.42 U	**0.18**	0.0192 U	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	**0.037 J**	**0.055 J**	49,000	700,000
Dimethyl Phthalate	mg/kg	0.65 U	0.27 U	0.42 U	0.15 U	0.0192 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.65 U	0.27 U	0.42 U	0.15 U	0.0192 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**1.8 J**	**0.54 J**	**0.64**	**1.6**	**0.0160 J**	**0.17**	**0.82**	**0.9**	**0.66**	**0.82**	**1.5 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	**0.62 J**	**0.3 J**	**0.33 J**	**0.66**	0.0192 U	**0.14**	**1.5**	**1.6**	**1.3**	**1.4**	**1.6**	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**51 J**	**22 J**	**23**	**31**	**0.0475**	**1**	**22**	**25**	**17**	**19**	**8.6**	6,000	90,000
Pentachlorophenol	mg/kg	3.3 U	1.4 U	2.1 U	0.75 U	0.0962 U	0.097 U	0.1 U	0.099 U	0.1 U	0.098 U	0.098 U	0.55	1.4
Phenol	mg/kg	**2.3 J**	**0.38 J**	**0.33 J**	**0.39**	0.0192 U	**0.34**	**0.45**	**0.48**	**0.37**	**0.42**	**0.29**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**6.2 J**	**3 J**	**2.0**	**1.7**	**0.0304**	**1.5**	**1.4**	**1.0**	**1.6**	**2.0**	**3.6**	170	2,000
Hexachlorobutadiene	mg/kg	0.16 U	0.068 U	0.052 U	0.037 U	0.0048 U	0.0049 U	0.0050 U	0.0050 U	0.0050 U	0.0049 U	0.0049 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.16 U	0.068 U	0.052 U	0.037 U	0.0192 U	0.0049 U	0.0050 U	0.0050 U	0.0050 U	0.0049 U	0.0049 U	70	180
Benzoic Acid	mg/kg	**7.1 J**	**2.2 J**	**1.6 J**	**2.0**	0.192 U	**0.088 J**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.65 U	0.27 U	0.42 U	0.15 U	0.0192 U	**0.069**	**0.11 J**	**0.087 J**	**0.061**	**0.08**	**0.063**	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**2.98 J**	**2.65 J**	--	--	**0.00707 J**	**0.111 J**	**0.0339 J**	--	**0.00632 J**	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**31.46 J**	**21.32 J**	--	--	**0.01 J**	**1.19**	**1.09**	--	**0.018 J**	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**31.61 J**	**21.38 J**	--	--	**0.068 J**	**1.20**	**1.10**	--	**0.101 J**	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE

Sample Location[1]		MAF-03					MAF-04						Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[8]	MAF-SC-DUP-05	MAF-SC-04_2-4[9]	MAF-SC-04_4-6	MAF-SC-04_8-10		
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015		
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2		
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015		
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	--	**16**	**20**	**14.4 J**	--	**10**	**8.0**	**8.0**	**11**	**20**	**20**	12	12
Cadmium	mg/kg	--	**0.6**	**1.2**	**0.9**	--	**0.256 J**	0.044 U	0.047 U	0.114 U	**0.9**	**1.4 J**	0.80	0.80
Chromium (as Chromium III)	mg/kg	--	**23.3**	**43**	**25**	--	**23.4**	**21.2**	**22.3**	**29.3**	**43**	**53**	25,000	400,000
Copper	mg/kg	--	**24.7**	**70.7**	**31.5**	--	**12.1**	**6.3 J**	**11.0 J**	**8.9**	**43.1**	**52.9**	8,000	90,000
Lead	mg/kg	--	**28**	**34**	**21**	--	**5.0**	**2 J**	**6 J**	**6.0**	**19**	**68**	21	21
Mercury	mg/kg	--	**0.06**	**0.12**	**0.0752 J**	--	**0.05**	0.03 U	0.03 U	**0.05**	**0.11**	**0.16**	0.20	0.20
Silver	mg/kg	--	**0.09 J**	0.8 U	1 U	--	0.4 U	0.4 U	0.4 U	0.5 U	0.6 U	**0.20 J**	200	4,000
Zinc	mg/kg	--	**59**	**120**	**72**	--	**34**	**24 J**	**35 J**	**34**	**102**	**101**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.00364 J**	**0.9**	**0.4**	**0.71**	**0.0129**	**0.094**	**0.0028 J**	0.0048 U	**0.21**	**0.63**	**0.58**	320	4,500
Acenaphthene	mg/kg	**0.00547**	**1.4**	**1.0**	**1.4**	**0.0273**	**0.13**	0.0047 U	0.0048 U	**0.22**	**0.85**	**1.1**	4,800	67,000
Acenaphthylene	mg/kg	0.00464 U	**0.24**	**0.1**	**0.15**	**0.00485 J**	**0.03**	0.0047 U	0.0048 U	**0.077**	**0.18**	**0.12**	4,800	67,300
Anthracene	mg/kg	0.00464 U	**0.47**	**0.42**	**0.42**	**0.0206**	**0.097**	0.0047 U	0.0048 U	**0.17**	**0.39**	**0.72**	24,000	340,000
Fluorene	mg/kg	**0.00273 J**	**0.86**	**0.77**	**0.97**	**0.026**	**0.14**	0.0047 U	0.0048 U	**0.23**	**0.75**	**1.1**	3,200	40,000
Naphthalene	mg/kg	**0.0393**	**4.7**	**2.5**	**3.6**	**0.0625**	**0.42**	**0.0062**	**0.0035 J**	**0.78**	**2.3**	**2.1**	1,600	22,000
Phenanthrene	mg/kg	**0.00747**	**2.0**	**1.3**	**1.7**	**0.0535**	**0.3**	0.0046 U	0.0044 U	**0.46**	**1.5**	**1.8**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	0.00464 U	**0.21**	**0.25**	**0.15**	--	**0.047**	0.0047 U	0.0048 U	**0.075**	**0.21**	**0.3**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	0.00464 U	**0.13**	**0.23**	**0.075**	--	**0.028**	0.0047 U	0.0048 U	**0.06**	**0.15**	**0.22 J**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	0.00929 U	**0.4**	**0.42**	**0.23**	--	**0.066**	0.0047 U	0.0048 U	**0.14**	**0.36**	**0.47**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	0.00464 U	**0.084**	**0.12**	**0.055**	--	**0.015**	0.0047 U	0.0048 U	**0.032**	**0.082**	**0.12 J**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	0.00464 U	**0.32**	**0.43**	**0.21**	--	**0.061**	0.0047 U	0.0048 U	**0.098**	**0.26**	**0.48**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.00464 U	0.048 U	**0.03**	**0.02**	--	**0.0036 J**	0.0047 U	0.0048 U	**0.0095**	**0.022**	**0.031 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.00438 J**	**1.6**	**1.2**	**1.7**	--	**0.28**	0.0048 U	0.0057 U	**0.42**	**1.0**	**1.6**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	0.00464 U	**0.068**	**0.094**	**0.053**	--	**0.012**	0.0047 U	0.0048 U	**0.03**	**0.07**	**0.097 J**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	0.00464 U	**1.2**	**1.1**	**1**	--	**0.24**	0.0061 U	0.0061 U	**0.41**	**0.82**	**1.1**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	0 U	**0.201 J**	**0.314 J**	**0.122 J**	--	**0.042 J**	0 U	0 U	**0.086 J**	**0.219 J**	**0.315 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	0.0035 U	**0.203 J**	**0.314 J**	**0.122 J**	--	**0.042 J**	0.003 U	0.003 U	**0.086 J**	**0.219 J**	**0.315 J**	0.056	0.056

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2		
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015		
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	--	**0.0023 J**	0.0049 U	0.0049 U	--	0.0047 U	0.0049 U	0.0048 U	**0.0017 J**	**0.0023 J**	0.0049 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	--	**0.0038 J**	0.0049 U	**0.004 J**	--	**0.0021 J**	0.0049 U	0.0048 U	**0.012**	**0.0049**	**0.0095**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	--	**0.0074**	0.0049 U	**0.0078**	--	0.0047 U	0.0049 U	0.0048 U	**0.006**	**0.0061**	**0.0078**	200	474
Hexachlorobenzene	mg/kg	--	0.0048 U	0.0049 U	0.0049 U	--	0.0047 U	0.0049 U	0.0048 U	**0.0026 J**	0.0048 U	0.0049 UJ	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	--	**0.028 J**	**0.15**	**0.25**	--	0.047 U	0.049 U	0.048 U	0.048 U	**0.052 J**	**0.12 J**	24	60
Butyl Benzyl Phthalate	mg/kg	--	**0.0068**	**0.035**	0.0049 U	--	**0.011**	0.0049 U	0.0048 U	0.0048 U	0.0048 U	0.0049 U	180	460
Dibutyl Phthalate	mg/kg	--	0.019 U	0.02 U	0.02 U	--	0.019 U	0.02 U	0.019 U	0.019 U	0.019 U	0.02 UJ	6,000	90,000
Diethyl Phthalate	mg/kg	--	**0.032 J**	**0.074**	**0.12**	--	**0.017 J**	0.02 UJ	**0.024 J**	**0.026 J**	0.019 UJ	**0.037**	49,000	700,000
Dimethyl Phthalate	mg/kg	--	0.019 U	0.02 U	0.02 U	--	0.019 U	0.02 U	0.019 U	0.019 U	0.019 U	0.02 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	--	0.019 U	0.02 U	0.02 U	--	0.019 U	0.02 U	0.019 U	0.019 U	**0.0086 J**	0.02 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.0144 J**	**0.037**	**0.056**	**0.086**	0.0244 U	0.024 U	0.025 U	0.024 U	**0.018 J**	**0.043**	**0.039 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.0187 U	**0.033**	**0.031**	**0.064**	0.0195 U	0.019 U	0.02 U	0.019 U	**0.012 J**	**0.037**	0.02 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.0187 U	**0.62**	**0.71**	**1.1**	0.0195 U	**0.16**	0.02 U	0.019 U	**0.35**	**0.98 J**	**1.9**	6,000	90,000
Pentachlorophenol	mg/kg	0.0936 U	0.096 U	0.098 U	0.098 U	0.0975 U	0.094 U	0.098 U	0.097 U	0.096 U	**0.04 J**	0.098 UJ	0.55	1.4
Phenol	mg/kg	0.0187 U	**0.25**	**0.15**	**0.39**	0.0195 U	**0.053**	**0.017 J**	0.019 U	**0.46**	**0.27 J**	**0.21 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	0.0187 U	**1.3**	**0.84**	**1.1**	**0.0141 J**	**0.14**	**0.0025 J**	**0.0027 J**	**0.23**	**0.8**	**0.92**	170	2,000
Hexachlorobutadiene	mg/kg	0.0047 U	0.0048 U	0.0049 U	0.0049 U	0.0049 U	0.0047 U	0.0049 U	0.0048 U	0.0048 U	0.0048 U	0.0049 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0187 U	0.0048 U	0.0049 U	0.0049 U	0.0195 U	0.0047 U	0.0049 U	0.0048 U	0.0048 U	0.0048 U	0.0049 U	70	180
Benzoic Acid	mg/kg	0.187 U	**0.23**	**0.22**	**0.51**	0.195 U	**0.1 J**	0.2 U	0.19 U	**0.41**	**0.55**	**0.26 J**	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.0187 U	**0.056**	0.02 U	0.02 U	0.0195 U	0.019 U	0.02 U	0.019 U	**0.034**	**0.051**	**0.043**	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	0.0000017 U	**0.108 J**	**0.0116 J**	--	**0.0000281 J**	**0.0053 J**	--	--	**0.0051 J**	**0.0166**	**0.0105 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	0 U	**1.77**	**0.31 J**	--	0 U	**0.015 J**	--	--	**0.007 J**	**0.50**	**0.343 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	0.081 U	**1.783**	**0.32 J**	--	0.081 U	**0.079 J**	--	--	**0.095 J**	**0.50**	**0.36 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**1.38**	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**55.6**	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**3.67 J**	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**3.21 J**	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**5.3**	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**4.41 J**	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**3.58 J**	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**11.4**	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**3.15 J**	--	NE	NE

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2		
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015		
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**6.4**	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**1.36 J**	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**3.81 J**	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**167**	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**25.9**	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**1.74 J**	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	--	--	--	**1220**	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	--	--	--	**40.1**	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	--	--	**18.0 J**	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	--	--	**18.0 J**	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10		
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015		
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
Metals														
Arsenic	mg/kg	**20**	--	**30**	**70**	**40**	**9.1**	**20**	**19**	**14**	**11**	**10**	12	12
Cadmium	mg/kg	**2.0 J**	--	**0.9**	**1.2**	**1.6**	**0.73**	**0.9**	**1.0**	**0.4**	**0.179 J**	0.131 U	0.80	0.80
Chromium (as Chromium III)	mg/kg	**56**	--	**44**	**53**	**59**	**39.6**	**50**	**47.3**	**37.7**	**39.4**	**34**	25,000	400,000
Copper	mg/kg	**70.4**	--	**45.3**	**236**	**118**	**132**	**44.1**	**62.7**	**37.2**	**18.6**	**20**	8,000	90,000
Lead	mg/kg	**45**	--	**21**	**93**	**65**	**32.7**	**21**	**50 J**	**15 J**	**8.0**	**10**	21	21
Mercury	mg/kg	**0.18**	--	**0.1**	**0.14**	**0.22**	**0.2649**	**0.12**	**0.14**	**0.09**	**0.0202 J**	**0.0182 J**	0.20	0.20
Silver	mg/kg	**0.24 J**	--	0.7 U	**0.30 J**	**0.17 J**	0.45 U	0.6 U	0.6 U	0.4 U	0.4 U	0.4 U	200	4,000
Zinc	mg/kg	**123**	--	**98**	**559**	**269**	**65.6**	**119**	**128 J**	**55 J**	**51**	**47**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.69**	**0.168**	**0.29**	**0.32**	**0.79**	**0.284**	**0.21**	**0.2**	**0.16**	**0.034**	**0.0057**	320	4,500
Acenaphthene	mg/kg	**1.3**	**0.193**	**0.47**	**0.91**	**1.4**	**0.37**	**0.14**	**0.28**	**0.21**	**0.059**	**0.0073**	4,800	67,000
Acenaphthylene	mg/kg	**0.12**	**0.145**	**0.08**	**0.094**	**0.14**	**0.131**	**0.051**	**0.13**	**0.15**	**0.014**	**0.0032 J**	4,800	67,300
Anthracene	mg/kg	**0.81**	**0.129**	**0.24**	**0.42**	**0.4**	**0.0615**	**0.13**	**0.25**	**0.094**	**0.048**	**0.017**	24,000	340,000
Fluorene	mg/kg	**1.4**	**0.177**	**0.33**	**0.77**	**1.3**	**0.277**	**0.13**	**0.35**	**0.22**	**0.056**	**0.01**	3,200	40,000
Naphthalene	mg/kg	**2.6**	**1.35**	**1.3**	**1.1**	**2.8**	**2.09**	**0.44**	**1.1**	**1.1**	**0.12**	**0.016**	1,600	22,000
Phenanthrene	mg/kg	**2.0**	**0.576**	**0.71**	**2.1**	**2.2**	**0.447**	**0.3**	**0.87**	**0.57**	**0.17**	**0.058**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.26**	**0.0551**	**0.26**	**0.73**	**0.19**	**0.013**	**0.087**	**0.25**	**0.026**	**0.032**	**0.026**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.13 J**	**0.0443**	**0.2**	**0.6**	**0.13**	**0.0075**	**0.061**	**0.1**	**0.014**	**0.027**	**0.023**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.34**	**0.0915**	**0.47**	**1.0**	**0.29**	**0.0174**	**0.14**	**0.27**	**0.033**	**0.068**	**0.045**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.061 J**	**0.0387**	**0.1**	**0.3**	**0.09**	**0.00771**	**0.033**	**0.06**	**0.013**	**0.016**	**0.015**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.35**	**0.0782**	**0.43**	**0.84**	**0.24**	**0.0209**	**0.1**	**0.24**	**0.038**	**0.047**	**0.028**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.016 J**	**0.00573**	**0.029**	**0.082**	**0.018**	0.00497 U	**0.0091**	**0.013**	0.0047 U	**0.0040 J**	**0.0037 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**1.8**	**0.436**	**0.84**	**2.2**	**1.5**	**0.234**	**0.3**	**1.3**	**0.3**	**0.2**	**0.082**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.049 J**	**0.0242**	**0.093**	**0.27**	**0.066**	**0.00345 J**	**0.03**	**0.042**	**0.0061**	**0.014**	**0.014**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**1.1**	**0.309**	**0.86**	**2.0**	**1.1**	**0.146**	**0.33**	**1.1**	**0.23**	**0.19**	**0.061**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.2 J**	**0.063**	**0.29 J**	**0.817 J**	**0.189 J**	**0.011**	**0.089 J**	**0.16 J**	**0.0209 J**	**0.039 J**	**0.032 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.2 J**	**0.063**	**0.29 J**	**0.817 J**	**0.189 J**	**0.011**	**0.089 J**	**0.16 J**	**0.0211 J**	**0.039 J**	**0.032 J**	0.056	0.056

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10		
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015		
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0049 U	--	0.0049 U	0.0049 U	0.0050 U	--	0.0050 U	0.0049 U	0.0047 U	0.0049 U	0.0048 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	**0.013**	--	**0.0020 J**	**0.0036 J**	**0.015**	--	0.0050 U	**0.0025 J**	**0.0013 J**	0.0049 U	0.0048 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	**0.011**	--	**0.006**	**0.0057**	**0.0099**	--	**0.0026 J**	**0.0038 J**	0.0047 U	**0.0028 J**	0.0048 U	200	474
Hexachlorobenzene	mg/kg	0.0049 UJ	--	0.0049 U	0.0049 UJ	0.0050 UJ	--	0.0050 U	0.0049 UJ	0.0047 UJ	0.0049 U	0.0048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**0.069 J**	--	**0.065**	**0.5**	**0.13 J**	--	**0.14**	0.049 U	0.047 U	0.049 U	0.048 U	24	60
Butyl Benzyl Phthalate	mg/kg	0.0049 UJ	--	**0.006**	0.0049 U	0.0050 U	--	0.0050 U	0.0049 U	0.0047 U	0.0049 U	0.0048 U	180	460
Dibutyl Phthalate	mg/kg	**0.063 J**	--	0.02 U	0.02 U	0.059 U	--	0.02 U	**0.036**	**0.024**	**0.024**	0.019 U	6,000	90,000
Diethyl Phthalate	mg/kg	**0.047**	--	0.02 UJ	**0.033**	0.059 U	--	0.02 UJ	**0.018 J**	**0.034**	0.02 UJ	0.019 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.039 U	--	0.02 U	0.02 U	0.059 U	--	0.02 U	0.02 U	0.019 U	0.02 U	0.019 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.039 U	--	0.02 U	0.02 U	0.059 U	--	0.02 U	0.02 U	0.019 U	0.02 U	0.019 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.068 J**	**0.0219 J**	**0.021 J**	**0.024 J**	**0.081**	**0.08**	0.025 U	**0.016 J**	**0.021 J**	0.024 U	0.024 U	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.039 U	**0.027**	**0.02**	0.02 U	0.059 U	0.0200 U	0.02 U	0.02 U	**0.049**	0.02 U	0.019 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**3.0**	**0.249**	**0.72**	**1.3**	**4.3**	**1.26**	**0.15**	**0.68 J**	**0.56**	**0.04**	0.019 U	6,000	90,000
Pentachlorophenol	mg/kg	0.2 UJ	0.0963 U	0.097 U	0.098 UJ	0.3 UJ	0.0998 U	0.099 U	0.098 UJ	0.094 UJ	0.097 U	0.096 UJ	0.55	1.4
Phenol	mg/kg	**0.65 J**	**0.0427**	**0.44**	**0.24 J**	**0.14**	**0.0542**	**0.2**	**0.14 J**	**0.066 J**	**0.024**	0.019 U	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**1.1**	**0.171**	**0.36**	**0.74**	**1.0**	**0.259**	**0.16**	**0.32**	**0.22**	**0.058**	**0.0099**	170	2,000
Hexachlorobutadiene	mg/kg	0.0049 U	0.0048 U	0.0049 U	0.0049 U	**0.0035 J**	0.0050 U	0.0050 U	0.0049 U	0.0047 U	0.0049 U	0.0048 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0049 U	0.0193 U	0.0049 U	0.0049 U	0.0050 U	**0.0104 J**	0.0050 U	0.0049 U	0.0047 U	0.0049 U	0.0048 U	70	180
Benzoic Acid	mg/kg	**0.65 J**	**0.145 J**	**0.2**	**0.34**	**0.28 J**	**0.137 J**	**0.1 J**	**0.14 J**	**0.13 J**	0.2 U	0.19 U	240,000	3,500,000
Benzyl Alcohol	mg/kg	**0.059 J**	0.0193 U	**0.052**	**0.037 J**	0.059 UJ	0.0200 U	**0.033**	0.02 U	**0.025 J**	0.02 U	0.019 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.0664 J**	--	**0.00214 J**	--	**0.657 J**	**0.00458 J**	**0.195 J**	--	**0.00311 J**	**0.00239 J**	**0.000988 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**1.82 J**	--	**0.005 J**	--	**0.93**	**0.013 J**	**1.72**	--	**0.021 J**	**0.006 J**	**0.0014 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**1.87 J**	--	**0.077 J**	--	**0.94**	**0.068 J**	**1.72**	--	**0.021 J**	**0.078 J**	**0.035 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	**2.74**	--	--	**0.293 J**	0.115 U	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	**28.7**	--	--	**4.72**	**0.712 J**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	**6.99**	--	--	**0.340 J**	0.253 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	**7.19**	--	--	**0.378 J**	0.211 U	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	**8.44**	--	--	**0.500 J**	0.224 U	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	**6.39**	--	--	**0.482 J**	**0.394 J**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	**5.25**	--	--	**0.308 J**	0.234 U	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	**12.2**	--	--	**1.13 J**	**0.972 J**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	**5.28**	--	--	**0.284 J**	0.239 U	NE	NE

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10		
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015		
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	**8.00**	--	--	**0.635 J**	**0.933 J**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	**2.25 J**	--	--	0.182 U	0.284 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	**6.37**	--	--	**0.359 J**	0.258 U	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	**127**	--	--	**12.6**	**37.7**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	**21.6**	--	--	**1.90 J**	**2.66 J**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	**2.62 J**	--	--	0.272 U	0.181 U	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	**873**	--	--	**76.1**	**799**	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	**39.3**	--	--	**5.86 J**	**5.47 J**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	**21.7 J**	--	--	**1.76 J**	**0.95 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	**21.7 J**	--	--	**1.77 J**	**1.22 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04		
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015		
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm		
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**11**	**13**	**12**	**9.0**	**9.0**	**11**	**19**	**23**	--	**20**	**20**	12	12
Cadmium	mg/kg	0.2 U	**0.135 J**	**0.096 J**	0.068 U	**0.3**	**0.250 J**	**0.7**	**1.4**	--	**1.0**	**1.1**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**27.7**	**39**	**34.1**	**30.8**	**18.1**	**32.3**	**45.3**	**52.4**	--	**48**	**46**	25,000	400,000
Copper	mg/kg	**13.7**	**32.3**	**25.4**	**13.2**	**12.7**	**15.1**	**162**	**58**	--	**50.2**	**46.9**	8,000	90,000
Lead	mg/kg	**11**	**11**	**11**	**8.0**	**8.0**	**7.0**	**19**	**30**	--	**25**	**26**	21	21
Mercury	mg/kg	**0.0127 J**	**0.04**	**0.05**	**0.0094 J**	**0.0138 J**	**0.05**	**0.11**	**0.15**	--	**0.13**	**0.15**	0.20	0.20
Silver	mg/kg	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.5 U	**0.15 J**	--	**0.10 J**	**0.16 J**	200	4,000
Zinc	mg/kg	**42**	**51**	**47**	**39**	**30**	**41**	**100**	**118**	--	**85**	**82**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.0032 J**	**0.011**	**0.011**	0.0046 U	0.0047 U	**0.018**	**0.12**	**0.19**	**0.0548**	**0.27**	**0.2**	320	4,500
Acenaphthene	mg/kg	0.0049 U	**0.016**	**0.013**	0.0046 U	0.0047 U	**0.034**	**0.16**	**0.26**	**0.0427**	**0.36**	**0.25**	4,800	67,000
Acenaphthylene	mg/kg	0.0049 U	**0.022 J**	**0.014 J**	0.0046 U	0.0047 U	**0.01**	**0.09**	**0.1**	**0.059**	**0.13**	**0.1**	4,800	67,300
Anthracene	mg/kg	0.0049 U	**0.036**	**0.024**	0.0046 U	0.0047 U	**0.039**	**0.16**	**0.21**	**0.0642**	**0.32**	**0.26**	24,000	340,000
Fluorene	mg/kg	0.0049 U	**0.026 J**	**0.018 J**	0.0046 U	0.0047 U	**0.029**	**0.18**	**0.28**	**0.0513**	**0.39**	**0.3**	3,200	40,000
Naphthalene	mg/kg	**0.0037 J**	**0.069**	**0.055**	0.0046 U	**0.0029 J**	**0.062**	**0.77**	**1.0**	**0.358**	**1.3**	**1.1**	1,600	22,000
Phenanthrene	mg/kg	**0.0074**	**0.11**	**0.075**	**0.0025 J**	**0.0064**	**0.076**	**0.45**	**0.7**	**0.206**	**0.96**	**0.7**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.0029 J**	**0.052 J**	**0.027 J**	0.0046 U	**0.0076**	**0.032**	**0.097**	**0.1**	**0.0397**	**0.15**	**0.14**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.0033 J**	**0.057 J**	**0.03 J**	0.0046 U	**0.013**	**0.023**	**0.066**	**0.082**	**0.0379**	**0.094**	**0.09**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.007**	**0.11 J**	**0.06 J**	**0.0055**	**0.015**	**0.047**	**0.16**	**0.18**	**0.0665**	**0.23**	**0.22**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	0.0049 U	**0.036 J**	**0.023 J**	0.0046 U	**0.0044 J**	**0.013**	**0.04**	**0.054**	**0.0355**	**0.06**	**0.05**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.0046 J**	**0.073 J**	**0.037 J**	**0.0043 J**	**0.01**	**0.04**	**0.12**	**0.12**	**0.0509**	**0.18**	**0.18**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	0.0049 U	**0.0097**	**0.0053**	0.0046 U	0.0047 U	**0.0026 J**	**0.0084**	**0.012**	**0.00403 J**	**0.011 J**	**0.011 J**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.0084**	**0.16**	**0.11**	**0.0084**	**0.017**	**0.11**	**0.42**	**0.57**	**0.186**	**0.88**	**0.68**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0049 U	**0.03 J**	**0.018 J**	0.0046 U	**0.0035 J**	**0.01**	**0.032**	**0.041**	**0.0225**	**0.046**	**0.036**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.007**	**0.12**	**0.091**	**0.0066**	**0.025**	**0.11**	**0.39**	**0.48**	**0.127**	**0.81**	**0.64**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.0043 J**	**0.078 J**	**0.041 J**	**0.0006 J**	**0.016 J**	**0.0326 J**	**0.097 J**	**0.117 J**	**0.052**	**0.14 J**	**0.13 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.0048 J**	**0.078 J**	**0.041 J**	**0.0036 J**	**0.016 J**	**0.0326 J**	**0.097 J**	**0.117 J**	**0.052**	**0.14 J**	**0.13 J**	0.056	0.056

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04		
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015		
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	--	**0.0025 J**	0.0049 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	**0.0040 J**	**0.0044 J**	**–**	**0.0034 J**	**0.0032 J**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	**0.0079**	**0.012**	**–**	**0.0061**	**0.0063**	200	474
Hexachlorobenzene	mg/kg	0.0049 U	0.0047 UJ	0.0047 UJ	0.0046 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	--	0.0050 U	0.0049 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.049 U	0.047 U	0.047 U	0.046 U	0.047 U	0.049 U	**0.051**	0.048 U	--	**0.049 J**	**0.034 J**	24	60
Butyl Benzyl Phthalate	mg/kg	**0.015**	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	--	0.0050 U	0.0049 U	180	460
Dibutyl Phthalate	mg/kg	0.02 U	**0.022**	**0.022**	0.018 U	0.019 U	0.02 U	0.019 U	0.019 U	--	0.02 U	0.02 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 UJ	0.019 UJ	--	0.02 U	0.02 U	49,000	700,000
Dimethyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.019 U	--	0.02 U	0.02 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.02 U	0.019 U	0.019 U	0.018 U	0.019 U	0.02 U	0.019 U	0.019 U	--	0.02 U	0.02 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.025 U	0.024 U	0.023 U	0.023 U	0.024 U	0.024 U	0.024 U	**0.022 J**	0.0243 U	**0.022 J**	**0.017 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.02 U	0.019 U	0.019 U	0.018 U	0.019 U	0.02 U	**0.0075 J**	**0.017 J**	0.0194 U	0.02 U	0.02 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	0.02 U	**0.042 J**	**0.095 J**	0.018 U	0.019 U	**0.02**	**0.25**	**0.74**	**0.0755**	**1.4**	**1.2**	6,000	90,000
Pentachlorophenol	mg/kg	0.098 UJ	0.094 UJ	0.093 UJ	0.093 UJ	0.094 UJ	0.097 UJ	0.094 U	0.096 U	0.0971 U	**0.034 J**	0.098 UJ	0.55	1.4
Phenol	mg/kg	0.02 U	**0.018 J**	**0.025 J**	0.018 U	0.015 U	0.022 U	**0.11**	**0.37**	**0.0168 J**	**0.82 J**	**0.3 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.0028 J**	**0.023 J**	**0.017 J**	0.0046 U	0.0047 U	**0.034**	**0.2**	**0.28**	**0.0557**	**0.44**	**0.31**	170	2,000
Hexachlorobutadiene	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	0.0047 U	0.0048 U	0.0049 U	0.0050 U	0.0049 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0049 U	0.0047 U	0.0047 U	0.0046 U	0.0047 U	0.0049 U	**0.0047**	0.0048 U	0.0194 U	0.0050 U	0.0049 U	70	180
Benzoic Acid	mg/kg	0.2 U	0.19 U	0.19 U	0.18 U	0.19 U	0.2 U	**0.16 J**	**0.25**	0.194 U	**0.45**	**0.53**	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.02 UJ	0.019 U	0.019 U	0.018 U	0.019 U	0.02 U	**0.017 J**	**0.042**	0.0194 U	0.02 U	0.02 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.00317 J**	--	--	**0.000378 J**	--	--	**0.0016 J**	**0.00711 J**	**0.00144 J**	**0.0693 J**	**0.00727 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**0.002**	--	--	**0.0006 J**	--	--	**0.005 J**	**0.27 J**	**0.0025 J**	**1.28 J**	**0.24 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**0.035**	--	--	**0.034 J**	--	--	**0.059 J**	**0.29 J**	**0.086 J**	**1.29 J**	**0.24 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	**0.888 J**	--	--	0.113 U	--	--	**1.18**	**1.36**	--	**1.62**	**1.55**	NE	NE
2,3,7,8-TCDF	ng/Kg	**15.2**	--	--	0.117 U	--	--	**48.8**	**77.9**	--	**35.9**	**44.7**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	**3.69 J**	--	--	0.302 U	--	--	**2.88 J**	**3.77 J**	--	**3.97 J**	**3.75 J**	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	**19.1**	--	--	0.172 U	--	--	**2.54 J**	**3.21 J**	--	**3.70 J**	**3.07 J**	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	**27**	--	--	0.181 U	--	--	**3.21 J**	**3.40 J**	--	**4.24 J**	**3.95 J**	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	**3.04 J**	--	--	0.400 U	--	--	**3.34 J**	**4.34 J**	--	**4.47 J**	**4.40 J**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	**19.5**	--	--	0.283 U	--	--	**1.94 J**	**3.04 J**	--	**3.57 J**	**2.91 J**	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	**3.39 J**	--	--	0.454 U	--	--	**7.66**	**13.9**	--	**11.8**	**12.2**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	**20.7**	--	--	0.282 U	--	--	**1.78 J**	**2.24 J**	--	**2.78 J**	**2.17 J**	NE	NE

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21		Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04		
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015		
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	**2.74 J**	--	--	0.397 U	--	--	**6.16**	**7.33**	--	**6.22**	**6.15**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	**6.63**	--	--	0.362 U	--	--	**0.725 J**	**0.971 J**	--	**1.06 J**	**0.891 J**	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	**28.5**	--	--	0.314 U	--	--	**2.32 J**	**3.36 J**	--	**3.58 J**	**3.04 J**	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	**17.3**	--	--	**4.01 J**	--	--	**98.8**	**190**	--	**160**	**193**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	**43.8**	--	--	**0.670 J**	--	--	**14.4**	**32.5**	--	**37.6**	**40.7**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	**6.51**	--	--	0.230 U	--	--	**1.06 J**	**1.59 J**	--	**2.14 J**	**2.87 J**	NE	NE
OCDD	ng/Kg	**45.6**	--	--	**33.6**	--	--	**539**	**1,340**	--	**1,070**	**1,220**	NE	NE
OCDF	ng/Kg	**6.48 J**	--	--	**2.03 J**	--	--	**27.6**	**67.2**	--	**62.9**	**75.2**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**23.9 J**	--	--	**0.058 J**	--	--	**13.7 J**	**20.2 J**	--	**16.2 J**	**17.0 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**23.9 J**	--	--	**0.43 J**	--	--	**13.7 J**	**20.2 J**	--	**16.2 J**	**17.0 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10		
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**20**	**20**	--	--	--	**9.0**	**9.0**	**8.0**	**9.0**	**10**	**13**	12	12
Cadmium	mg/kg	**2.0**	**1.9**	--	--	--	0.033 U	0.054 U	0.053 U	0.074 U	**1.1**	**0.291 J**	0.80	0.80
Chromium (as Chromium III)	mg/kg	**59**	**57**	--	--	--	**27.5**	**26.1**	**25.3**	**31.4**	**36**	**23.4**	25,000	400,000
Copper	mg/kg	**79.6**	**86.8**	--	--	--	**11.4**	**11.7**	**11.8**	**13.9**	**35.7**	**16.3**	8,000	90,000
Lead	mg/kg	**44**	**46**	--	--	--	**5.0**	**7.0**	**4.0**	**8.0**	**22**	**6.0**	21	21
Mercury	mg/kg	**0.24**	**0.26**	--	--	--	**0.0123 J**	**0.0084 J**	**0.0110 J**	**0.0154 J**	**0.11**	0.04 U	0.20	0.20
Silver	mg/kg	**0.17 J**	**0.16 J**	--	--	--	0.4 U	0.4 U	0.4 U	0.4 U	0.6 U	0.4 U	200	4,000
Zinc	mg/kg	**109**	**109**	--	--	--	**35**	**38**	**35**	**41**	**79**	**37**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	0.005 U	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.22 J**	**0.4 J**	**0.0504**	**0.169**	--	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.37**	**0.11**	320	4,500
Acenaphthene	mg/kg	**0.27**	**0.36**	**0.0509**	**0.21**	--	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.37**	**0.17**	4,800	67,000
Acenaphthylene	mg/kg	**0.12**	**0.15**	**0.0587**	**0.0665**	--	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.15**	**0.038**	4,800	67,300
Anthracene	mg/kg	**0.2**	**0.3**	**0.074**	**0.13**	--	0.0047 U	0.0056 U	**0.0034 J**	**0.0026 J**	**0.24**	**0.2**	24,000	340,000
Fluorene	mg/kg	**0.33 J**	**0.58 J**	**0.0619**	**0.189**	--	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.41**	**0.15**	3,200	40,000
Naphthalene	mg/kg	**1.2**	**1.8**	**0.304**	**0.895**	--	0.0047 U	0.0056 U	0.0050 U	**0.0035 J**	**1.7**	**0.42**	1,600	22,000
Phenanthrene	mg/kg	**0.82**	**1.2**	**0.22**	**0.415**	--	0.0047 U	0.0056 U	**0.0094**	**0.0097**	**0.83**	**0.25**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.11**	**0.16**	--	**0.0621**	--	0.0047 U	0.0056 U	**0.0052**	**0.0046 J**	**0.11**	**0.16**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.064**	**0.096**	--	**0.0463**	--	0.0047 U	0.0056 U	**0.0054**	**0.0063**	**0.072**	**0.078**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.16**	**0.24**	--	**0.108**	--	0.0047 U	0.0056 U	**0.0085**	**0.01**	**0.18**	**0.18**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.048**	**0.07**	--	**0.031**	--	0.0047 U	0.0056 U	**0.0037 J**	**0.0052**	**0.04**	**0.027**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.12**	**0.19**	--	**0.0881**	--	0.0047 U	0.0056 U	**0.0061**	**0.0059**	**0.2**	**0.18**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.0072**	**0.011**	--	**0.00793 J**	--	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.011**	**0.0091**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.85**	**1.1**	--	**0.413**	--	0.0047 U	0.0056 U	**0.01**	**0.011**	**0.54**	**0.55**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.03**	**0.042**	--	**0.0257**	--	0.0047 U	0.0056 U	**0.0035 J**	**0.0042 J**	**0.034**	**0.027**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.64**	**0.87**	--	**0.313**	--	0.0047 U	0.0056 U	**0.012**	**0.0094**	**0.42**	**0.46**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.096 J**	**0.14 J**	**–**	**0.068**	--	0 U	0 U	**0.007 J**	**0.008 J**	**0.108 J**	**0.117 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.096 J**	**0.14 J**	**–**	**0.068**	--	0.003 U	0.004 U	**0.007 J**	**0.008 J**	**0.108 J**	**0.117 J**	0.056	0.056

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10		
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0049 U	0.0048 U	--	**0.0121 J**	--	0.0047 U	0.0047 U	0.0050 U	0.0047 U	**0.0026 J**	0.0048 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	**0.0045 J**	**0.0030 J**	**--**	0.0199 U	--	0.0047 U	0.0047 U	0.0050 U	0.0047 U	**0.016**	**0.0017 J**	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	**0.007**	**0.0065**	**--**	0.0994 U	--	0.0047 U	0.0047 U	0.0050 U	0.0047 U	**0.0087**	**0.0022 J**	200	474
Hexachlorobenzene	mg/kg	0.0049 UJ	0.0048 UJ	--	**0.242**	--	0.0047 U	0.0047 U	0.0050 U	0.0047 U	0.0048 U	0.0048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	**0.094 J**	0.097 U	--	**--**	--	0.05 U	0.047 U	0.046 U	0.047 U	0.048 U	**0.034 J**	24	60
Butyl Benzyl Phthalate	mg/kg	0.0049 U	0.0048 U	--	**--**	--	0.0047 U	0.0047 U	0.0050 U	0.0047 U	0.0048 U	0.0048 U	180	460
Dibutyl Phthalate	mg/kg	**0.035 J**	0.039 U	--	**--**	--	0.02 U	0.019 U	0.018 U	0.019 U	0.019 U	0.019 U	6,000	90,000
Diethyl Phthalate	mg/kg	0.039 U	0.039 U	--	**--**	--	0.02 U	0.019 U	0.018 U	0.019 U	0.019 UJ	0.019 UJ	49,000	700,000
Dimethyl Phthalate	mg/kg	0.039 U	0.039 U	--	**--**	--	0.02 U	0.019 U	0.018 U	0.019 U	0.019 U	0.019 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.039 U	0.039 U	--	**--**	--	0.02 U	0.019 U	0.018 U	0.019 U	0.019 U	0.019 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.025**	**0.02 J**	0.0242 U	**0.0121 J**	**--**	0.023 U	0.024 U	0.025 U	0.024 U	**0.061**	**0.0099 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.039 U	0.039 U	0.0193 U	0.0199 U	--	0.02 U	0.019 U	0.018 U	0.019 U	**0.036**	0.019 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**3.1**	**2.2**	**0.031**	**--**	**--**	0.02 U	0.019 U	0.018 U	0.019 U	**1.3**	**0.25**	6,000	90,000
Pentachlorophenol	mg/kg	0.2 UJ	0.19 UJ	0.0966 U	0.0994 U	--	0.1 UJ	0.095 UJ	0.092 UJ	0.094 UJ	**0.092 J**	0.095 U	0.55	1.4
Phenol	mg/kg	**0.16**	**0.13**	**0.0161 J**	**0.242**	**--**	0.02 U	0.012 U	0.018 U	0.011 U	**0.29**	**0.093**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.3**	**0.44**	--	**0.206**	0.0189 U	0.0047 U	0.0056 U	0.0050 U	0.0047 U	**0.37**	**0.16**	170	2,000
Hexachlorobutadiene	mg/kg	0.0049 U	0.0048 U	--	0.0050 U	0.0047 U	0.0047 U	0.0047 U	0.0050 U	0.0047 U	0.0048 U	0.0048 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0049 U	0.0048 U	--	0.0050 U	0.0047 U	0.0047 U	0.0047 U	0.0050 U	0.0047 U	0.0048 U	0.0048 U	70	180
Benzoic Acid	mg/kg	**0.45**	**0.24 J**	--	**0.583**	0.189 U	0.2 U	0.19 U	0.18 U	0.19 U	**0.73**	**0.12 J**	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.039 UJ	0.039 UJ	--	**0.0389**	0.0189 U	0.02 U	0.019 U	0.018 U	0.019 U	**0.031**	**0.017 J**	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	**0.000035 J**	**0.00214 J**	--	--	**0.000226 J**	--	**0.000442 J**	--	**0.00365 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	0 U	**0.006 J**	--	--	**0.00028 J**	--	**0.00058 J**	**0.19 J**	**0.0099 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	0.057 U	**0.07 J**	--	--	**0.033 J**	--	**0.034 J**	**0.20 J**	**0.043 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	**0.672 J**	--	--	0.317 U	--	0.105 U	**1.22**	0.207 U	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	**20.9**	--	--	0.215 U	--	0.106 U	**72.5**	**5.21**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	**1.30 J**	--	--	0.369 U	--	0.264 U	**2.66 J**	0.392 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	**1.47 J**	--	--	0.220 U	--	0.159 U	**2.99 J**	**0.522 J**	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	**1.63 J**	--	--	0.243 U	--	0.178 U	**3.53 J**	**0.605 J**	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	**1.56 J**	--	--	0.452 U	--	0.545 U	**2.81 J**	0.402 U	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	**1.23 J**	--	--	0.284 U	--	0.165 U	**2.56 J**	**0.418 J**	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	**4.18 J**	--	--	0.496 U	--	0.588 U	**8.13**	**1.39 J**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	**1.06 J**	--	--	0.295 U	--	0.159 U	**1.83 J**	**0.323 J**	NE	NE

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10		
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015		
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	**2.34 J**	--	--	0.441 U	--	0.528 U	**4.45 J**	**0.727 J**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	**0.402 J**	--	--	0.366 U	--	0.211 U	**0.596 J**	0.191 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	**1.40 J**	--	--	0.319 U	--	0.175 U	**2.44 J**	**0.525 J**	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	**79.1**	--	--	**2.49 J**	--	**3.83 J**	**120**	**29**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	**18.6**	--	--	**0.559 J**	--	**0.770 J**	**26.2**	**4.23 J**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	**0.843 J**	--	--	0.162 U	--	0.175 U	**1.22 J**	0.385 U	NE	NE
OCDD	ng/Kg	--	--	--	**616**	--	--	**17.1**	--	**25.7**	**780**	**216**	NE	NE
OCDF	ng/Kg	--	--	--	**38.5**	--	--	**1.72 J**	--	**1.74 J**	**44.1**	**8.81 J**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	**6.99 J**	--	--	**0.036 J**	--	**0.054 J**	**16.3 J**	**1.46 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	**6.99 J**	--	--	**0.56 J**	--	**0.39 J**	**16.3 J**	**1.79 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10		
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	**14**	**13**	**20**	--	40 U	--	--	--	--	--	--	12	12
Cadmium	mg/kg	**0.3**	**0.4**	**0.356 J**	--	**0.50 J**	--	--	--	--	--	--	0.80	0.80
Chromium (as Chromium III)	mg/kg	**27.6**	**30.6**	**25**	--	**9.0**	--	--	--	--	--	--	25,000	400,000
Copper	mg/kg	**19.3**	**18.9**	**24.5**	--	**13**	--	--	--	--	--	--	8,000	90,000
Lead	mg/kg	**9.0**	**7.0**	**11**	--	20 U	--	--	--	--	--	--	21	21
Mercury	mg/kg	0.03 U	0.04 U	**0.07**	--	**0.03**	--	--	--	--	--	--	0.20	0.20
Silver	mg/kg	0.5 U	0.5 U	1 U	--	2 U	--	--	--	--	--	--	200	4,000
Zinc	mg/kg	**45**	**45**	**66**	--	**32**	--	--	--	--	--	--	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	0.005 U	0.005 U	0.005 UJ	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.18**	**0.16**	**0.25**	**0.39**	**0.14**	--	--	--	--	--	--	320	4,500
Acenaphthene	mg/kg	**0.25**	**0.23**	**0.38**	**0.34**	**0.24**	--	--	--	--	--	--	4,800	67,000
Acenaphthylene	mg/kg	**0.058**	**0.054**	**0.058**	**0.14**	**0.04**	--	--	--	--	--	--	4,800	67,300
Anthracene	mg/kg	**0.2**	**0.18**	**0.21**	**0.26**	**0.28**	--	--	--	--	--	--	24,000	340,000
Fluorene	mg/kg	**0.25**	**0.22**	**0.31**	**0.42**	**0.25**	--	--	--	--	--	--	3,200	40,000
Naphthalene	mg/kg	**0.79**	**0.75**	**0.93**	**1.2**	**0.32**	--	--	--	--	--	--	1,600	22,000
Phenanthrene	mg/kg	**0.49**	**0.4**	**0.68**	**0.76**	**0.69**	--	--	--	--	--	--	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.14**	**0.11**	**0.14**	**0.14**	**0.2**	**0.085**	**0.152**	**0.0374**	**0.167**	**0.0385**	**0.0747**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.071**	**0.059**	**0.084**	**0.11**	**0.098**	**0.0746**	**0.119**	**0.0311**	**0.111**	**0.0316**	**0.0522**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.17**	**0.14**	**0.2**	**0.26**	**0.23**	**0.153**	**0.272**	**0.0655**	**0.247**	**0.0669**	**0.115**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.033 J**	**0.023 J**	**0.034**	**0.049**	**0.035**	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.24 J**	**0.14 J**	**0.2**	**0.18**	**0.29**	**0.119**	**0.227**	**0.0577**	**0.233**	**0.0415**	**0.123**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.0082**	**0.0067**	**0.01**	**0.012**	**0.011 J**	**0.0124**	**0.0184**	**0.00412**	**0.015**	**0.00486**	**0.00705**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.45**	**0.46**	**0.55**	**0.65**	**0.74**	--	--	--	--	--	--	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.028 J**	**0.023 J**	**0.031**	**0.039**	**0.035**	**0.042**	**0.0545**	**0.0161**	**0.0459**	**0.0158**	**0.0235**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.41**	**0.38**	**0.43**	**0.8**	**0.72**	--	--	--	--	--	--	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.108 J**	**0.088 J**	**0.124 J**	**0.157 J**	**0.149 J**	**0.105**	**0.171**	**0.044**	**0.16082**	**0.045**	**0.075**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.108 J**	**0.088 J**	**0.124 J**	**0.157 J**	**0.149 J**	**0.105**	**0.171**	**0.044**	**0.16082**	**0.045**	**0.075**	0.056	0.056

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10		
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0049 U	0.0049 U	0.0047 U	--	0.0047 U	--	--	--	--	--	--	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	**0.0039 J**	**0.0021 J**	0.0047 U	--	0.0047 U	--	--	--	--	--	--	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	**0.0031 J**	**0.0026 J**	**0.0032 J**	--	0.0047 U	--	--	--	--	--	--	200	474
Hexachlorobenzene	mg/kg	0.0049 U	0.0049 U	0.0047 U	--	0.0047 U	--	--	--	--	--	--	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.049 U	**0.036 J**	**0.033 J**	--	0.047 U	--	--	--	--	--	--	24	60
Butyl Benzyl Phthalate	mg/kg	0.0049 U	**0.008**	**0.0056**	--	0.0047 U	--	--	--	--	--	--	180	460
Dibutyl Phthalate	mg/kg	**0.0088 J**	**0.022**	**0.055**	--	0.019 U	--	--	--	--	--	--	6,000	90,000
Diethyl Phthalate	mg/kg	0.02 UJ	0.02 UJ	**0.026 J**	--	0.019 UJ	--	--	--	--	--	--	49,000	700,000
Dimethyl Phthalate	mg/kg	0.02 U	0.02 U	0.019 U	--	0.019 U	--	--	--	--	--	--	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.02 U	0.02 U	0.019 U	--	0.019 U	--	--	--	--	--	--	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	0.024 U	0.024 U	0.024 U	--	**0.02 J**	0.0263 U	**0.0138 J**	--	--	--	--	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	**0.0088 J**	0.02 U	0.019 U	--	0.019 U	0.0199 U	0.0195 U	--	--	--	--	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**0.23**	**0.24**	**0.12**	--	**0.13**	**0.241**	**0.351**	--	--	--	--	6,000	90,000
Pentachlorophenol	mg/kg	0.097 U	0.097 U	0.094 U	--	0.094 U	0.0993 U	0.0973 U	--	--	--	--	0.55	1.4
Phenol	mg/kg	**0.13 J**	**0.068 J**	**0.081**	--	**0.09**	**0.104**	**0.127**	--	--	--	--	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.25**	**0.22**	**0.38**	**0.384**	**0.22**	--	--	--	--	--	--	170	2,000
Hexachlorobutadiene	mg/kg	0.0049 U	0.0049 U	0.0047 U	0.0049 U	0.0047 U	--	--	--	--	--	--	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0049 U	0.0049 U	**0.056**	0.0049 U	0.0047 U	--	--	--	--	--	--	70	180
Benzoic Acid	mg/kg	**0.21**	**0.15 J**	0.19 U	**0.502**	**0.075 J**	--	--	--	--	--	--	240,000	3,500,000
Benzyl Alcohol	mg/kg	**0.018 J**	**0.015 J**	0.019 U	**0.0534**	**0.014 J**	--	--	--	--	--	--	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	**0.00664 J**	**0.216 J**	**0.123 J**	**0.00668 J**	--	--	--	--	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	**0.014 J**	**6.25**	**2.75**	**0.53 J**	**0.002 J**	**0.12 J**	--	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	**0.047 J**	**6.25**	**2.77**	**0.54 J**	**0.047 J**	**0.13 J**	--	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	**0.587 J**	0.317 U	**1.37**	0.213 U	**0.872 J**	**0.934 J**	--	--	**0.349 J**	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	**11.1**	**62.7**	**146**	**4.63**	**34.3**	**22.7**	--	--	**7.48**	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	**0.904 J**	0.479 U	**3.35 J**	**0.688 J**	**2.86 J**	**2.37 J**	--	--	**0.879 J**	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	**0.681 J**	**1.41 J**	**3.29 J**	**0.994 J**	**2.36 J**	**2.21 J**	--	--	**0.708 J**	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	**0.871 J**	**2.02 J**	**4.86 J**	**1.27 J**	**2.33 J**	**2.29 J**	--	--	**0.981 J**	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	**1.23 J**	**0.787 J**	**3.81 J**	**1.09 J**	**4.02 J**	**3.00 J**	--	--	**1.04 J**	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	**0.737 J**	0.703 U	**3.18 J**	**2.79 J**	**2.12 J**	**1.98 J**	--	--	**0.807 J**	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	**2.72 J**	**2.01 J**	**14.1**	**6.34**	**7.6**	**7.66**	--	--	**1.96 J**	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	**0.550 J**	0.645 U	**2.26 J**	**0.999 J**	**1.68 J**	**1.59 J**	--	--	**0.566 J**	--	NE	NE

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10		
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	**1.49 J**	**1.02 J**	**6.67**	**1.93 J**	**5.27**	**4.52 J**	--	--	**1.19 J**	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	0.217 U	0.874 U	**1.06 J**	**1.06 J**	**0.699 J**	**0.747 J**	--	--	0.453 U	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	**0.666 J**	0.762 U	**3.34 J**	**1.31 J**	**2.48 J**	**2.19 J**	--	--	**0.836 J**	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	**53.9**	**28.6**	**251**	**308**	**92.6**	**127**	--	--	**29.7**	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	**7.14**	**3.86 J**	**42.2**	**19.1**	**22.5**	**17.4**	--	--	**6.47**	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	**0.453 J**	0.473 U	**2.02 J**	**1.55 J**	**1.51 J**	**1.42 J**	--	--	**0.511 J**	--	NE	NE
OCDD	ng/Kg	--	**357**	**327**	**1,900**	**3,580**	**670**	**1,030**	--	--	**192**	--	NE	NE
OCDF	ng/Kg	--	**10.9**	**15.7**	**81.7**	**50.3**	**41.3**	**45.7**	--	--	**15.2**	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	–	**4.35 J**	**7.73 J**	**27.9 J**	**7.49 J**	**11.7 J**	**10.3 J**	--	--	**3.36 J**	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	–	**4.36 J**	**8.28 J**	**27.9 J**	**7.60 J**	**11.7 J**	**10.3 J**	--	--	**3.38 J**	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10		
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	--	--	--	--	--	--	--	--	--	--	--	12	12
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.80	0.80
Chromium (as Chromium III)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	25,000	400,000
Copper	mg/kg	--	--	--	--	--	--	--	--	--	--	--	8,000	90,000
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	21	21
Mercury	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.20	0.20
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--	200	4,000
Zinc	mg/kg	--	--	--	--	--	--	--	--	--	--	--	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	320	4,500
Acenaphthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	4,800	67,000
Acenaphthylene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	4,800	67,300
Anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	24,000	340,000
Fluorene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	3,200	40,000
Naphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	1,600	22,000
Phenanthrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.0715**	**0.0498**	**0.0875**	**0.233**	**0.111**	**0.0353**	**0.0217**	**0.0387**	**0.131**	**0.0708**	**0.212**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.0503**	**0.0376**	**0.112**	**0.271**	**0.129**	**0.0296**	**0.025**	**0.0351**	**0.092**	**0.0646**	**0.227**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.11**	**0.0957**	**0.223**	**0.464**	**0.316**	**0.0653**	**0.05**	**0.0669**	**0.225**	**0.149**	**0.551**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.102**	**0.0676**	**0.176**	**0.255**	**0.164**	**0.0437**	**0.0332**	**0.0484**	**0.18**	**0.107**	**0.354**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.00865**	**0.00513**	**0.017**	**0.0283**	**0.021**	**0.00419**	**0.00476**	**0.00638**	**0.0129**	**0.00918**	**0.0401**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.0271**	**0.0188**	**0.0517**	**0.131**	**0.0609**	**0.0131**	**0.0147**	**0.0182**	**0.0395**	**0.0323**	**0.127**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.073**	**0.055**	**0.152**	**0.359**	**0.182**	**0.042**	**0.034**	**0.049**	**0.135**	**0.092**	**0.324**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.073**	**0.055**	**0.152**	**0.359**	**0.182**	**0.042**	**0.034**	**0.049**	**0.135**	**0.092**	**0.324**	0.056	0.056

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10		
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	200	474
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	24	60
Butyl Benzyl Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	180	460
Dibutyl Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	6,000	90,000
Diethyl Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	49,000	700,000
Dimethyl Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	NE	NE
Di-N-Octyl Phthalate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	6,000	90,000
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.55	1.4
Phenol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	--	--	--	--	--	--	--	--	--	--	--	170	2,000
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	70	180
Benzoic Acid	mg/kg	--	--	--	--	--	--	--	--	--	--	--	240,000	3,500,000
Benzyl Alcohol	mg/kg	--	--	--	--	--	--	--	--	--	--	--	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	**0.14 J**	--	--	**0.12 J**	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	**0.15 J**	--	--	**0.12 J**	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	--	--	--	--	--	**0.239 J**	--	--	--	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	--	--	--	--	--	**3.23**	--	--	--	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	--	--	--	--	--	**0.519 J**	--	--	--	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	**0.620 J**	--	--	--	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	--	--	--	--	--	**0.743 J**	--	--	--	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	**0.835 J**	--	--	--	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	**0.548 J**	--	--	--	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	--	--	--	--	--	**1.53 J**	--	--	--	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	**0.463 J**	--	--	--	NE	NE

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10		
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	--	--	--	--	--	**0.804 J**	--	--	--	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	--	--	--	--	--	0.370 U	--	--	--	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	--	--	--	--	--	**0.551 J**	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	--	--	--	--	--	**22.6**	--	--	--	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	--	--	--	--	--	**3.71 J**	--	--	--	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	--	--	--	--	--	0.426 U	--	--	--	NE	NE
OCDD	ng/Kg	--	--	--	--	--	--	--	**128**	--	--	--	NE	NE
OCDF	ng/Kg	--	--	--	--	--	--	--	**9.31 J**	--	--	--	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	**2.10 J**	--	--	--	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	**2.12 J**	--	--	--	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10		
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Metals														
Arsenic	mg/kg	--	--	--	**3.52**	**4.63**	**4.72**	**4.4**	**5.77**	**5.18**	**3.89**	**9.6**	12	12
Cadmium	mg/kg	--	--	--	**0.08 J**	**0.10 J**	**0.11 J**	0.12 U	**0.47**	**0.22**	**0.15**	**0.85**	0.80	0.80
Chromium (as Chromium III)	mg/kg	--	--	--	**21.8**	**22.4**	**24.1**	**19.1**	**34.8**	**27.8**	**19**	**41.2**	25,000	400,000
Copper	mg/kg	--	--	--	**10.1**	**10.1**	**10.5 J**	**6.62**	**32**	**17.4**	**9.74**	**42.5**	8,000	90,000
Lead	mg/kg	--	--	--	**4.57**	**5.07**	**4.85 J**	**2.99**	**10.3**	**9.18**	**3.89**	**20.3**	21	21
Mercury	mg/kg	--	--	--	**0.0261 J**	**0.0321**	**0.0745**	**0.00636 J**	**0.0551**	**0.0270 J**	**0.0107 J**	**0.105**	0.20	0.20
Silver	mg/kg	--	--	--	**0.03 J**	**0.03 J**	**0.04 J**	0.24 U	**0.11 J**	**0.07 J**	**0.03 J**	**0.22 J**	200	4,000
Zinc	mg/kg	--	--	--	**30.2**	**30**	**32.6**	**26**	**58.4**	**45**	**28.6**	**85.2**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	--	--	--	**0.0299**	**0.0194**	**0.0161**	0.00500 U	**0.109**	**0.0601**	**0.00427 J**	**0.204**	320	4,500
Acenaphthene	mg/kg	--	--	--	**0.0345**	**0.0209**	**0.0168**	0.00500 U	**0.162**	**0.084**	**0.00649**	**0.294**	4,800	67,000
Acenaphthylene	mg/kg	--	--	--	**0.0132**	**0.0132**	**0.015**	0.00500 U	**0.0422 J**	**0.0203**	**0.00215 J**	**0.0572**	4,800	67,300
Anthracene	mg/kg	--	--	--	**0.0324**	**0.0202**	**0.0214**	0.00500 U	**0.138**	**0.0618**	**0.00617**	**0.213**	24,000	340,000
Fluorene	mg/kg	--	--	--	**0.032**	**0.0229**	**0.0215**	0.00500 U	**0.139**	**0.0797**	**0.00657**	**0.297**	3,200	40,000
Naphthalene	mg/kg	--	--	--	**0.108**	**0.11**	**0.109**	**0.00289 J**	**0.218**	**0.237**	**0.0164**	**0.523**	1,600	22,000
Phenanthrene	mg/kg	--	--	--	**0.0965**	**0.0827**	**0.0813 J**	0.00265 U	**0.311**	**0.166**	**0.0175**	**0.742**	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.118**	**0.546**	**0.0206**	**0.0214**	**0.0157**	**0.0134**	**0.00125 J**	**0.152**	**0.0402**	**0.00453 J**	**0.187**	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.1**	**0.352**	**0.0166**	**0.0145**	**0.0121**	**0.0111**	0.00128 U	**0.0917**	**0.0405**	0.00316 U	**0.142**	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.261**	**0.851**	**0.0234**	**0.0321**	**0.0252**	**0.0245**	0.0100 U	**0.234**	**0.0944**	**0.00989 J**	**0.336**	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	--	--	--	**0.00993**	**0.00954**	**0.00926**	0.00500 U	**0.0436 J**	**0.023**	0.00272 U	**0.0877**	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.203**	**0.751**	**0.0215**	**0.0227**	**0.0181**	**0.0148**	0.00500 U	**0.192**	**0.05**	**0.00536**	**0.249**	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.017**	**0.0451**	0.00924 U	0.00838 U	0.00806 U	0.00738 U	0.00661 U	**0.077**	0.0248 U	0.00670 U	**0.0532**	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	--	--	--	**0.122**	**0.0809**	**0.073.3 J**	0.00345 U	**0.448**	**0.134**	**0.0181**	**0.690**	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.0499**	**0.151**	**0.00888**	**0.00823**	**0.00781**	**0.00593**	**0.00111 J**	**0.0501**	**0.0196**	**0.00223 J**	**0.0807**	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	--	--	--	**0.106**	**0.0765**	**0.0657 J**	0.00339 U	**0.686**	**0.188**	**0.0234**	**0.688**	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.147**	**0.519**	**0.0221 J**	**0.0209 J**	**0.0180 J**	**0.0164 J**	**0.000236 J**	**0.145 J**	**0.0564 J**	**0.00488 J**	**0.210 J**	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.147**	**0.519**	**0.0226 J**	**0.0213 J**	**0.0180 J**	**0.0164 J**	**0.00359 J**	**0.145 J**	**0.0577 J**	**0.00521 J**	**0.210 J**	0.056	0.056

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10		
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 UJ	0.0193 U	0.0198 U	0.0193 U	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 UJ	0.0193 U	0.0198 U	0.0193 U	200	474
Hexachlorobenzene	mg/kg	--	--	--	0.0049 U	0.0050 U	0.0049 U	0.0050 U	0.0049 U	0.0048 U	0.0050 U	0.0048 U	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	--	--	--	**0.0285 J**	0.0499 U	0.0493 U	0.0499 U	0.0486 U	0.0482 U	0.0496 U	**0.0534**	24	60
Butyl Benzyl Phthalate	mg/kg	--	--	--	0.0197 U	0.0199 U	0.0197 U	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	180	460
Dibutyl Phthalate	mg/kg	--	--	--	0.0197 U	0.0199 U	0.0197 U	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	6,000	90,000
Diethyl Phthalate	mg/kg	--	--	--	0.0197 U	**0.0302**	0.0197 U	0.0185 J	0.0194 U	**0.0480**	0.0198 U	0.0193 U	49,000	700,000
Dimethyl Phthalate	mg/kg	--	--	--	0.0197 U	0.0199 U	0.0197 U	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	NE	NE
Di-N-Octyl Phthalate	mg/kg	--	--	--	0.0197 U	0.0199 U	0.0197 U	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	--	--	--	0.0246 U	0.0249 U	0.0247 U	0.0249 U	0.0243 U	0.0241 U	0.0248 U	**0.0076 J**	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 UJ	0.0193 U	0.0198 U	0.0193 U	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	--	--	--	0.0197 UJ	**0.0183 J**	0.0197 UJ	0.0199 U	0.130 J	**0.098**	0.0198 U	**0.132**	6,000	90,000
Pentachlorophenol	mg/kg	--	--	--	**0.0046 J**	0.0199 U	**0.0027 J**	0.0199 U	**0.0110 J**	0.0193 U	0.0198 U	**0.0058 J**	0.55	1.4
Phenol	mg/kg	--	--	--	**0.0198 J**	**0.0163 J**	0.0112 UJ	**0.0128 J**	**0.0586 J**	**0.0211**	0.0198 U	**0.146 J**	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	--	--	--	**0.0354**	**0.0239**	**0.0231**	0.0199 U	**0.148**	**0.0599**	**0.0099 J**	**0.113**	170	2,000
Hexachlorobutadiene	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	--	--	--	0.0197 U	0.0199 U	0.0197 U	0.0199 U	0.0194 U	0.0193 U	0.0198 U	0.0193 U	70	180
Benzoic Acid	mg/kg	--	--	--	**0.0323 J**	**0.0233 J**	**0.0193 J**	**0.0143 J**	**0.0768 J**	**0.0197 J**	0.0992 U	**0.0643 J**	240,000	3,500,000
Benzyl Alcohol	mg/kg	--	--	--	0.0197 UJ	0.0199 U	0.0197 UJ	0.0199 U	0.0194 UJ	0.0193 U	0.0198 U	0.0193 U	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	--	**0.00812 J**	**0.00163 J**	**0.0664 J**	**0.000245 J**	**0.00318 J**	**0.00934 J**	**0.00103 J**	**0.0142 J**	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	**0.20 J**	**0.0037 J**	**0.0021 J**	**0.0005 J**	**0.14 J**	**0.26 J**	**0.0026 J**	**0.37 J**	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	**0.21 J**	**0.040 J**	**0.064 J**	**0.050 J**	**0.15 J**	**0.27 J**	**0.029 J**	**0.38 J**	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	--	--	0.155 U	0.170 U	**0.277 J**	0.171 U	**0.196 J**	**0.464 J**	**0.539 J**	0.154 U	**1.06**	NE	NE
2,3,7,8-TCDF	ng/Kg	--	--	**2.02**	**17.2**	**4.73**	**3.62**	0.128 U	**10.7**	**19.8**	**3.49**	**50.2**	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	--	--	0.239 U	**0.392 J**	**0.702 J**	**0.533 J**	0.239 U	**1.06 J**	**0.941 J**	**0.269 J**	**2.82 J**	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	--	--	0.225 U	**0.578 J**	**0.624 J**	**0.410 J**	0.171 U	**0.830 J**	**1.18 J**	**0.307 J**	**3.06 J**	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	--	--	0.245 U	**1.28 J**	**0.931 J**	**0.644 J**	0.168 U	**1.68 J**	**1.90 J**	**0.355 J**	**5.22**	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	--	--	0.324 U	**0.386 J**	**0.709 J**	**0.486 J**	0.216 U	**1.13 J**	**1.16 J**	**0.354 J**	**3.55 J**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	--	--	0.194 U	**0.456 J**	**0.454 J**	**0.224 U**	0.132 U	**0.978 J**	**1.00 J**	**0.244 J**	**2.60 J**	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	--	--	**0.483 J**	**1.41 J**	**1.24 J**	**0.849 J**	0.237 U	**3.45 J**	**2.87 J**	**0.860 J**	**9.18**	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	--	--	0.200 U	**0.315 J**	**0.386 J**	0.239 U	0.141 U	**0.699 J**	**0.828 J**	**0.225 J**	**2.21 J**	NE	NE

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10		
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18		
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm		
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
1,2,3,7,8,9-HxCDD	ng/Kg	--	--	0.320 U	**0.709 J**	**0.983 J**	**0.608 J**	0.219 U	**1.70 J**	**1.93 J**	**0.595 J**	**5.92**	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	--	--	0.238 U	0.237 U	**0.231 J**	0.283 U	0.168 U	**0.346 J**	**0.439 J**	0.202 U	**0.957 J**	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	--	--	0.207 U	**0.363 J**	**0.374 J**	**0.321 J**	0.148 U	**1.05 J**	**0.931 J**	**0.256 J**	**2.75 J**	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	--	--	**6.18**	**23.4**	**10.5**	**7.13**	**0.562 J**	**97.3**	**38.2**	**13.7**	**131**	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	--	--	**1.48 J**	**3.27 J**	**1.88 J**	**1.27 J**	0.142 U	**11.2**	**7.25**	**1.75 J**	**18.1**	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	--	--	0.196 U	0.230 U	**0.260 J**	0.128 U	0.175 U	**0.728 J**	**0.665 J**	0.199 U	**1.52 J**	NE	NE
OCDD	ng/Kg	--	--	**38.6**	**150**	**42.9**	**31.6**	**4.06 J**	**881**	**198**	**102**	**705**	NE	NE
OCDF	ng/Kg	--	--	**2.20 J**	**4.56 J**	**2.27 J**	**1.85 J**	0.263 U	**49.9**	**12**	**3.07 J**	**32.9**	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	--	--	**0.34 J**	**3.36 J**	**2.33 J**	**1.42 J**	**0.20 J**	**5.45 J**	**5.51 J**	**1.17 J**	**15.0 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	--	--	**0.65 J**	**3.37 J**	**2.33 J**	**1.54 J**	**0.42 J**	**5.45 J**	**5.51 J**	**1.26 J**	**15.0 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0		
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21		
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft		
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
Metals														
Arsenic	mg/kg	**5.67**	**9.15**	**7.06**	**4.9**	**2.92**	**5.89**	**3.5**	**3.24**	--	--	**1.51 J**	12	12
Cadmium	mg/kg	**0.21**	**0.54**	**0.65**	**0.28**	**0.07 J**	**0.61**	**0.22**	0.12 U	--	--	0.236 U	0.80	0.80
Chromium (as Chromium III)	mg/kg	**26.2**	**39.5**	**35.6**	**28.5**	**20.2**	**32.1**	**21.4**	**17.4**	--	--	**23.6 J**	25,000	400,000
Copper	mg/kg	**17.8 J**	**41.1**	**39.2**	**24.7**	**7.33**	**30.5**	**20**	**5.62**	--	--	**11.8**	8,000	90,000
Lead	mg/kg	**8.44 J**	**14.4**	**35.9**	**23.2**	**2.21**	**10.4**	**7.47**	**2.39**	--	--	**3.31**	21	21
Mercury	mg/kg	**0.0676**	**0.119**	**0.223**	**38.5**	**0.00839 J**	**0.0808**	**0.0485**	**0.0156 J**	--	--	**0.00586 J**	0.20	0.20
Silver	mg/kg	**0.07 J**	**0.15 J**	**0.15 J**	**0.08 J**	**0.03 J**	**0.11 J**	**0.08 J**	**0.03 J**	--	--	0.354 U	200	4,000
Zinc	mg/kg	**36.7**	**80.1**	**65.4**	**50.5**	**25.2**	**62.4**	**59.9**	**20.3**	--	--	**34.9**	60,000	700,000
Organometallic Compounds														
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)														
2-Methylnaphthalene	mg/kg	**0.0326**	**0.159**	**0.327**	**0.133 J**	--	**0.275**	**0.222**	**0.00521**	--	--	--	320	4,500
Acenaphthene	mg/kg	**0.0348**	**0.191**	**0.311**	**0.148 J**	--	**0.388**	**0.373**	**0.00687**	--	--	--	4,800	67,000
Acenaphthylene	mg/kg	**0.0256**	**0.0623**	**0.0873**	**0.0932 J**	--	**0.0897**	**0.0586**	0.00470 U	--	--	--	4,800	67,300
Anthracene	mg/kg	**0.0368**	**0.175**	**0.21**	**0.100 J**	--	**0.353**	**0.327**	**0.00332 J**	--	--	--	24,000	340,000
Fluorene	mg/kg	**0.0371**	**0.176**	**0.359**	**0.164 J**	--	**0.342**	**0.296**	**0.00604**	--	--	--	3,200	40,000
Naphthalene	mg/kg	**0.181**	**0.601**	**1.21**	**0.736 J**	--	**0.663**	**0.515**	**0.0161**	--	--	--	1,600	22,000
Phenanthrene	mg/kg	**0.140 J**	**0.461**	**0.781**	**0.459 J**	--	**0.689**	**0.781**	**0.0115**	--	--	--	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)														
Benzo(a)anthracene	mg/kg	**0.028**	**0.161**	**0.287**	**0.0495**	--	**0.306**	**0.292**	**0.00248 J**	**0.0566 J**	**0.0338 J**	--	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	**0.0259**	**0.116**	**0.243**	**0.0329**	--	**0.17**	**0.195**	0.00167 U	**0.0521 J**	**0.0264 J**	--	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	**0.0525**	**0.307**	**0.435**	**0.0712**	--	**0.438**	**0.522**	**0.00408 J**	**0.0760 J**	**0.0413 J**	--	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	**0.0223**	**0.0725**	**0.194**	**0.0318**	--	**0.0757**	**0.0729**	0.00470 U	--	--	--	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	**0.0354**	**0.274**	**0.288**	**0.0619**	--	**0.412**	**0.445**	**0.00339 J**	**0.0669 J**	**0.0400 J**	--	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	**0.0221**	**0.0532**	**0.0876**	**0.0212 J**	--	**0.0598**	**0.0369**	0.00470 U	0.0245 U	0.0221 U	--	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	**0.126 J**	**0.566**	**0.83**	**0.326**	--	**1.01**	**1.24**	**0.0104**	--	--	--	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	**0.0181**	**0.0651**	**0.141**	**0.0182**	--	**0.0694**	**0.0743**	**0.00106 J**	**0.0249 J**	**0.0134 J**	--	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	**0.121 J**	**0.529**	**0.794**	**0.288**	--	**1.30**	**0.86**	**0.0118**	--	--	--	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)														
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	**0.0361 J**	**0.177**	**0.341**	**0.0495 J**	--	**0.261**	**0.292**	**0.00247 J**	**0.0685 J**	**0.0379 J**	--	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	**0.0372 J**	**0.177**	**0.341**	**0.0495 J**	--	**0.261**	**0.292**	**0.00251 J**	**0.0697 J**	**0.0379 J**	--	0.056	0.056

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0		
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21		
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
Chlorinated Hydrocarbons														
1,2,4-Trichlorobenzene	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	200	474
Hexachlorobenzene	mg/kg	0.0048 U	0.0049 U	0.0049 U	0.0049 U	--	0.0048 U	0.0049 U	0.0047 U	--	--	--	0.69	1.6
Phthalates														
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.0483 U	**0.108**	**0.0298 J**	0.0276 U	--	**0.200**	**0.0704**	0.0474 U	--	--	--	24	60
Butyl Benzyl Phthalate	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	180	460
Dibutyl Phthalate	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.030 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	6,000	90,000
Diethyl Phthalate	mg/kg	0.0193 U	0.0194 U	0.0194 U	**0.0319**	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	49,000	700,000
Dimethyl Phthalate	mg/kg	0.0193 U	**0.022**	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	NE	NE
Di-N-Octyl Phthalate	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	600	9,000
Phenols														
2,4-Dimethylphenol	mg/kg	**0.0028 J**	**0.0100 J**	**0.044**	**0.0119 J**	--	**0.0054 J**	**0.0072 J**	0.0237 U	--	--	--	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	0.0193 U	0.0194 U	**0.0563**	**0.012 J**	--	0.0193 U	0.0197 U	0.0190 U	--	--	--	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	**0.043**	**0.141**	**1.17**	**0.270**	--	**0.146**	**0.0553**	0.0190 U	--	--	--	6,000	90,000
Pentachlorophenol	mg/kg	0.0193 U	**0.0062 J**	**0.0057 J**	**0.0021 J**	--	**0.0029 J**	**0.0030 J**	0.0190 U	--	--	--	0.55	1.4
Phenol	mg/kg	**0.0125 J**	**0.0824 J**	**0.0601**	**0.0279**	--	**0.0466 J**	**0.0331**	0.0190 U	--	--	--	18,000	260,000
Miscellaneous Extractables														
Dibenzofuran	mg/kg	**0.0422**	**0.244**	**0.406**	**0.154**	--	**0.274**	**0.279**	**0.0100**	--	--	--	170	2,000
Hexachlorobutadiene	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0048 U	0.0049 U	0.0048 U	--	--	--	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0092 U	0.0094 U	0.0091 U	--	--	--	70	180
Benzoic Acid	mg/kg	**0.0225 J**	**0.0704 J**	**0.121 J**	**0.059 J**	--	**0.0655 J**	**0.055 J**	0.0127 U	--	--	--	240,000	3,500,000
Benzyl Alcohol	mg/kg	0.0193 U	0.0194 U	0.0194 U	0.0194 U	--	0.0144 U	0.0147 U	0.0141 U	--	--	--	6,000	90,000
Polychlorinated Biphenyls (PCBs)														
Total PCBs (Aroclors or Congeners)	mg/kg	**0.000565 J**	**0.0103 J**	**0.0209 J**	**0.0128 J**	--	**0.00702 J**	**0.0139 J**	**0.000144 J**	--	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	**0.001 J**	**0.27 J**	**0.424 J**	**0.015 J**	--	**0.16 J**	**0.47**	**0.0002 J**	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	**0.029 J**	**0.28 J**	**0.434 J**	**0.084 J**	--	**0.17 J**	**0.48**	**0.041 J**	--	--	--	0.38	0.38
Dioxins and Furans														
2,3,7,8-TCDD	ng/Kg	**0.347 J**	**0.997**	**1.81**	**1.09**	0.103 U	**0.677 J**	**0.410 J**	**0.189 U**	**0.353 J**	**0.252 J**	4.75 U	NE	NE
2,3,7,8-TCDF	ng/Kg	**5.09**	**22.5**	**130**	**15.5**	**0.141 J**	**14**	**13.1**	**1.28**	**9.68**	**9.56**	1.88 U	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	**0.785 J**	**3.22 J**	**4.65 J**	**2.49 J**	0.214 U	**1.24 J**	**1.40 J**	0.227 U	**0.725 J**	**0.606 J**	**0.328 J**	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	**0.790 J**	**2.49 J**	**7.3**	**2.72 J**	0.136 U	**1.14 J**	**1.07 J**	0.197 U	**0.801 J**	**0.595 J**	0.257 UJ	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	**1.25 J**	**3.93 J**	**12.2**	**4.15 J**	0.140 U	**2.10 J**	**1.71 J**	0.214 U	**1.64 J**	**1.05 J**	0.157 U	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	**0.847 J**	**4.65 J**	**5.67**	**3.20 J**	0.244 U	**1.59 J**	**2.79 J**	0.277 U	**0.826 J**	**0.753 J**	**0.246 J**	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	**0.430 J**	**2.21 J**	**6.49**	**1.42 J**	0.116 U	**1.16 J**	**0.819 J**	0.180 U	**0.879 J**	**0.477 J**	0.168 U	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	**1.61 J**	**10.1**	**10.9**	**4.78 J**	0.246 U	**3.97 J**	**8.51**	0.274 U	**2.03 J**	**2.41 J**	0.259 U	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	**0.356 J**	**1.72 J**	**6.1**	**1.49 J**	0.111 U	**0.873 J**	**0.713 J**	0.181 U	**0.674 J**	**0.373 J**	0.199 U	NE	NE

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62	Proposed Sediment Cleanup Level[2]	
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0		
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21		
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface		
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal		
1,2,3,7,8,9-HxCDD	ng/Kg	**1.24 J**	**6.93**	**7.11**	**3.56 J**	0.236 U	**2.26 J**	**9.54**	0.266 U	**1.27 J**	**1.86 J**	0.279 U	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	**0.279 J**	**0.857 J**	**2.53 J**	**0.502 J**	0.145 U	**0.565 J**	**0.408 J**	0.222 U	**0.362 J**	0.250 U	0.198 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	**0.485 J**	**2.38 J**	**7.1**	**1.74 J**	0.119 U	**1.11 J**	**0.928 J**	0.192 U	**0.929 J**	**0.531 J**	0.163 U	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	**13.1**	**174**	**112**	**34.3**	**0.750 J**	**99.9**	**309**	**1.02 J**	**28.5**	**34.2**	0.178 U	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	**2.51 J**	**16.4**	**44.7**	**10.3**	0.193 U	**10.2**	**7.72**	0.219 U	**3.97 J**	**3.25 J**	0.187 U	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	0.249 U	**1.44 J**	**4.23 J**	**0.686 J**	0.252 U	**0.851 J**	**0.749 J**	0.275 U	**0.400 J**	0.320 U	0.26 U	NE	NE
OCDD	ng/Kg	**49.8**	**1210**	**520**	**111**	**6.55 J**	**764**	**1,910**	**7.54 J**	**175**	**172**	**28 J**	NE	NE
OCDF	ng/Kg	**3.32 J**	**40**	**67**	**14.7**	0.388 U	**25.1**	**20.9**	0.385 U	**6.31 J**	**6.01 J**	4.49 U	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	**2.74 J**	**12.9 J**	**29.7 J**	**8.62 J**	**0.024 J**	**6.48 J**	**9.79 J**	**0.14 J**	**3.64 J**	**3.22 J**	**0.036 J**	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	**2.74 J**	**12.9 J**	**29.7 J**	**8.62 J**	**0.27 J**	**6.48 J**	**9.79 J**	**0.47 J**	**3.64 J**	**3.23 J**	**0.406 J**	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-2

Summary of Sediment Analytical Results for the Protection of Human Health and Higher Trophic Level Ecological Receptors

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		EDP62	EDP63		EDP64		EDP65		Proposed Sediment Cleanup Level[2]	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0		
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21		
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal		
Metals										
Arsenic	mg/kg	**2.53 J**	**2.95 J**	**3.50 J**	**4.44 J**	**5.28 J**	**3.43 J**	**5.43 J**	12	12
Cadmium	mg/kg	0.239 U	0.269 U	0.246 U	0.257 U	0.248 U	0.245 U	0.238 U	0.80	0.80
Chromium (as Chromium III)	mg/kg	**23.6**	**27.8**	**27.9**	**29.6**	**35.9**	**30.9**	**27.6**	25,000	400,000
Copper	mg/kg	**11**	**11.8**	**12.6**	**13.4**	**14.7**	**11.9**	**11.1**	8,000	90,000
Lead	mg/kg	**8.8**	**3.75**	**4.45**	**7.27**	**7.36**	**5.52**	**3.58**	21	21
Mercury	mg/kg	**0.00782 J**	**0.0403**	**0.0337**	**0.00621 J**	**0.0164 J**	**0.00838 J**	**0.0105 J**	0.20	0.20
Silver	mg/kg	0.358 U	0.404 U	**0.118 J**	0.386 U	0.372 U	0.368 U	0.357 U	200	4,000
Zinc	mg/kg	**41.5**	**37.6**	**39.1**	**43.2**	**43.5**	**39.1**	**29.5**	60,000	700,000
Organometallic Compounds										
Tributyltin Ion (Bulk Sediment)	µg/kg	--	--	--	--	--	--	--	73	73
Tributyltin Ion (Interstitial Water)	µg/L	--	--	--	--	--	--	--	0.15	0.15
Low Molecular Weight Polycyclic Aromatic Hydrocarbons (LPAHs)										
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	320	4,500
Acenaphthene	mg/kg	--	--	--	--	--	--	--	4,800	67,000
Acenaphthylene	mg/kg	--	--	--	--	--	--	--	4,800	67,300
Anthracene	mg/kg	--	--	--	--	--	--	--	24,000	340,000
Fluorene	mg/kg	--	--	--	--	--	--	--	3,200	40,000
Naphthalene	mg/kg	--	--	--	--	--	--	--	1,600	22,000
Phenanthrene	mg/kg	--	--	--	--	--	--	--	24,000	336,000
High Molecular Weight Polycyclic Aromatic Hydrocarbons (HPAHs)										
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Benzofluoranthenes[3] (Total)	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Chrysene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Fluoranthene	mg/kg	--	--	--	--	--	--	--	3,200	45,000
Indeno(1,2,3-c,d)pyrene	mg/kg	--	--	--	--	--	--	--	See cPAH TEQ	See cPAH TEQ
Pyrene	mg/kg	--	--	--	--	--	--	--	2,400	30,000
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)										
Total cPAH TEQ[4] (ND=0 RL)	mg/kg	--	--	--	--	--	--	--	0.056	0.056
Total cPAH TEQ[4] (ND=0.5 RL)	mg/kg	--	--	--	--	--	--	--	0.056	0.056

Sample Location[1]		EDP62	EDP63		EDP64		EDP65		Proposed Sediment Cleanup Level[2]	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0		
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21		
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft		
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
Chlorinated Hydrocarbons										
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--	38	88
1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/kg	--	--	--	--	--	--	--	21,000	230,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/kg	--	--	--	--	--	--	--	200	474
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--	0.69	1.6
Phthalates										
Bis(2-Ethylhexyl) Phthalate	mg/kg	--	--	--	--	--	--	--	24	60
Butyl Benzyl Phthalate	mg/kg	--	--	--	--	--	--	--	180	460
Dibutyl Phthalate	mg/kg	--	--	--	--	--	--	--	6,000	90,000
Diethyl Phthalate	mg/kg	--	--	--	--	--	--	--	49,000	700,000
Dimethyl Phthalate	mg/kg	--	--	--	--	--	--	--	NE	NE
Di-N-Octyl Phthalate	mg/kg	--	--	--	--	--	--	--	600	9,000
Phenols										
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	1,200	18,000
2-Methylphenol (o-Cresol)	mg/kg	--	--	--	--	--	--	--	3,000	44,000
4-Methylphenol (p-Cresol)	mg/kg	--	--	--	--	--	--	--	6,000	90,000
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--	0.55	1.4
Phenol	mg/kg	--	--	--	--	--	--	--	18,000	260,000
Miscellaneous Extractables										
Dibenzofuran	mg/kg	--	--	--	--	--	--	--	170	2,000
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--	14	33
N-Nitrosodiphenylamine (as Diphenylamine)	mg/kg	--	--	--	--	--	--	--	70	180
Benzoic Acid	mg/kg	--	--	--	--	--	--	--	240,000	3,500,000
Benzyl Alcohol	mg/kg	--	--	--	--	--	--	--	6,000	90,000
Polychlorinated Biphenyls (PCBs)										
Total PCBs (Aroclors or Congeners)	mg/kg	--	--	--	--	--	--	--	0.19	0.49
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0 RL)	ng/kg	--	--	--	--	--	--	--	0.38	0.38
Total Dioxin-Like PCB Congeners TEQ[5] (ND=0.5 RL)	ng/kg	--	--	--	--	--	--	--	0.38	0.38
Dioxins and Furans										
2,3,7,8-TCDD	ng/Kg	3.25 U	2.57 U	4.17 U	4.7 UJ	8.24 U	2.49 U	2.48 U	NE	NE
2,3,7,8-TCDF	ng/Kg	1.74 U	0.165 UJ	1.11 U	0.189 UJ	1.52 UJ	0.167 U	0.155 U	NE	NE
1,2,3,7,8-PeCDD	ng/Kg	0.309 U	0.224 U	0.19 U	0.263 U	0.232 U	0.238 U	0.209 U	NE	NE
1,2,3,7,8-PeCDF	ng/Kg	0.277 U	0.216 U	**0.218 J**	0.249 U	0.182 U	0.266 U	0.244 U	NE	NE
2,3,4,7,8-PeCDF	ng/Kg	0.199 U	0.169 U	0.135 U	0.153 U	0.244 U	0.186 U	0.155 U	NE	NE
1,2,3,4,7,8-HxCDD	ng/Kg	0.286 U	0.213 U	0.205 U	0.242 U	**0.187 J**	0.264 U	0.24 U	NE	NE
1,2,3,4,7,8-HxCDF	ng/Kg	0.183 U	0.157 U	0.131 U	0.149 U	0.25 U	0.185 U	0.147 U	NE	NE
1,2,3,6,7,8-HxCDD	ng/Kg	0.29 U	0.221 U	0.217 U	0.253 U	**0.19 J**	0.273 U	0.249 U	NE	NE
1,2,3,6,7,8-HxCDF	ng/Kg	0.229 U	0.205 U	0.165 U	0.191 U	0.273 U	0.209 U	0.19 U	NE	NE

Sample Location[1]		EDP62	EDP63		EDP64		EDP65		Proposed Sediment Cleanup Level[2]	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0		
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21		
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft		
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface		
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit		
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal Sediment (above -3 ft MLLW)	Subtidal Sediment (below -3 ft MLLW)
1,2,3,7,8,9-HxCDD	ng/Kg	0.345 U	0.226 U	0.195 U	0.235 U	**0.25 J**	0.27 U	0.22 U	NE	NE
1,2,3,7,8,9-HxCDF	ng/Kg	0.203 U	0.143 U	0.137 U	0.189 U	0.178 U	0.162 U	0.138 U	NE	NE
2,3,4,6,7,8-HxCDF	ng/Kg	0.191 U	0.169 U	0.138 U	0.164 U	0.238 U	0.186 U	0.154 U	NE	NE
1,2,3,4,6,7,8-HpCDD	ng/Kg	0.194 U	0.148 U	0.137 U	0.191 U	0.167 U	0.164 U	0.133 U	NE	NE
1,2,3,4,6,7,8-HpCDF	ng/Kg	0.268 U	0.19 U	0.125 U	0.193 U	0.172 U	0.179 U	0.166 U	NE	NE
1,2,3,4,7,8,9-HpCDF	ng/Kg	0.295 U	0.222 U	0.14 U	0.224 U	**0.172 J**	0.167 U	0.174 U	NE	NE
OCDD	ng/Kg	15.7 U	15.1 U	29 U	**50.2 J**	**73.7 J**	18.4 U	14.5 U	NE	NE
OCDF	ng/Kg	2.46 U	1.4 UJ	2.1 UJ	1.83 U	4.91 U	1.61 UJ	0.246 U	NE	NE
Total Dioxin/Furan TEQ[6] (ND=0 RL)	ng/kg	0.00 U	0.00 UJ	**0.022 J**	**0.015 J**	**0.327 J**	0.00 UJ	0.00 UJ	5.0	5.0
Total Dioxin/Furan TEQ[6] (ND=0.5 RL)	ng/kg	0.465 U	0.328 UJ	**0.292 J**	**0.368 J**	**0.551 J**	0.356 UJ	0.309 UJ	5.0	5.0

Notes:

1 Sample locations shown in Figures 10 through 12.

[2] Proposed cleanup levels (PCULs) are presented in Table 5. Screening levels are based on the exposure pathways specific to intertidal sediment (i.e., beach play, clamming and net fishing) and subtidal sediment (i.e., net fishing) and is the risk-based value adjusted for regional background and PQL, whichever is higher.

[3] Total benzofluoranthenes represents the sum of concentrations of the b, j, and k isomers.

[4] Total cPAH Toxicity Equivalency Quotients (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) from Table 6-1 of SCUM (Ecology 2021).

[5] Total PCB congener TEQs were calculated using the 2005 World Health Organization (WHO) TEF values from Table 6-3 of SCUM (Ecology 2021).

[6] Total dioxin/furan TEQs were calculated using United States Environmental Protection Agency (USEPA) TEF values from Table 6-2 of SCUM (Ecology 2021).

[7] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[8] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[9] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

mg/kg = milligram per kilogram

ng/kg = nanogram per kilogram

RL = Reporting limit

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Yellow shading indicates exceedance of the PCUL.

Blue shading indicates that the practical quantitation limit (PQL) exceeds the proposed sediment cleanup level.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-002	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-003	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-004	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-005	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-006	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-007	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-008	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-009	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-010	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-011	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-012	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-013	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-014	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-015	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-016	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-017	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-018	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-019	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-020	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-021	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-022	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-023	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-024	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-025	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-027	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-028	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-029	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-030	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-031	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-032	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-033	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-034	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-035	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-036	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-037	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-038	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-039	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-040	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-041	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-042	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-043	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-044	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-045	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-046	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-047	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-048	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-049	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-050	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-051	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-052	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-053	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-054	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-055	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-056	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-057	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-058	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-059	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-060	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-061	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-062	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-063	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-064	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-065	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-066	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-067	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-069	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-070	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-071	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-072	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-073	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-074	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-075	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-076	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-078	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-079	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-080	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-082	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-083	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-084	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-085	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-086	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-087	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-088	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-089	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-090	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-091	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-092	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-093	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-094	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-095	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-096	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-097	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-098	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-099	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-100	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-101	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-102	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-103	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-104	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-106	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-107	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-108	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-109	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-111	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-112	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-113	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-115	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-116	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-117	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-119	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-120	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-121	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-122	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-124	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-125	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-127	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-128	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-129	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-130	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-131	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-132	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-133	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-134	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-135	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-136	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-137	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-138	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-139	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-140	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-141	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-142	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-143	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-144	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-145	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-146	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-147	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-148	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-149	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-150	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-151	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-153	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-154	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-155	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-158	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-159	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-160	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-161	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-162	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-163	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-164	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-165	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-166	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-168	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-169	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-170	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-171	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-172	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-173	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-174	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-175	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-176	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-177	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-178	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-179	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-180	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-181	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-182	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-183	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-184	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-185	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-186	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-187	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-188	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-190	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-191	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-192	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-193	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-02	ST-03		ST-5C	ST-08	ST-9C	ST-11	ST-14		ST-15C	ST-17C
Sample Identification		13116000038	13116000004	13116000006	13116000007	13116000029	13116000019	13116000010	13116000021	13116000023	13116000013	13116000037
Sample Date		5/14/2007	5/7/2007	5/7/2007	5/7/2007	5/11/2007	5/8/2007	5/7/2007	5/8/2007	5/8/2007	5/7/2007	5/14/2007
Sample Interval (dbm)		5 - 6 ft	3.5 - 6.2 ft	14 - 15.9 ft	0.9 - 2.5 ft	7.3 - 10.5 ft	10.1 - 12.0 ft	0 - 6.2 ft	3.4 - 4.6 ft	9.4 - 10.5 ft	0.8 - 2.2 ft	5.9 - 7.1 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-195	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-196	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-197	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-198	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-199	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-200	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-201	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-202	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-203	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-204	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-205	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-206	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-207	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-208	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-209	pg/g	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	16 U	9.9 U	16 U	17 U	17 U	16 U	16 U	16 U
PCB-Aroclor 1221	ug/Kg	--	--	--	16 U	9.9 U	16 U	17 U	17 U	16 U	16 U	16 U
PCB-Aroclor 1232	ug/Kg	--	--	--	16 U	9.9 U	33 U	33 U	17 U	16 U	16 U	16 U
PCB-Aroclor 1242	ug/Kg	--	--	--	16 U	9.9 U	16 U	17 U	17 U	16 U	16 U	16 U
PCB-Aroclor 1248	ug/Kg	--	--	--	16 U	9.9 U	16 U	17 U	17 U	**25**	16 U	16 U
PCB-Aroclor 1254	ug/Kg	--	--	--	16 U	**12**	**31**	17 U	17 U	**18**	**2,500**	**36**
PCB-Aroclor 1260	ug/Kg	--	--	--	16 U	9.9 U	**26**	17 U	17 U	**24**	**2,700**	**26**
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	16 U	**12**	**57**	33 U	17 U	**67**	**5,200**	**62**
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-002	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-003	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-004	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-005	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-006	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-007	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-008	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-009	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-010	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-011	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-012	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-013	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-014	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-015	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-016	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-017	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-018	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-019	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-020	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-021	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-022	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-023	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-024	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-025	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-027	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-028	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-029	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-030	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-031	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-032	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-033	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-034	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-035	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-036	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-037	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-038	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-039	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-040	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-041	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-042	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-043	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-044	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-045	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-046	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-047	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-048	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-049	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-050	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-051	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-052	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-053	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-054	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-055	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-056	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-057	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-058	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-059	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-060	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-061	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-062	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-063	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-064	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-065	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-066	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-067	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-069	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-070	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-071	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-072	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-073	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-074	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-075	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-076	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-078	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-079	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-080	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-082	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-083	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-084	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-085	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-086	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-087	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-088	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-089	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-090	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-091	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-092	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-093	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-094	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-095	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-096	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-097	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-098	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-099	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-100	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-101	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-102	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-103	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-104	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-106	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-107	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-108	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-109	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-111	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-112	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-113	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-115	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-116	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-117	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-119	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-120	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-121	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-122	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-124	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-125	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-127	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-128	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-129	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-130	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-131	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-132	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-133	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-134	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-135	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-136	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-137	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-138	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-139	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-140	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-141	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-142	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-143	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-144	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-145	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-146	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-147	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-148	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-149	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-150	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-151	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-153	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-154	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-155	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-158	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-159	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-160	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-161	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-162	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-163	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-164	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-165	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-166	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-168	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-169	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-170	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-171	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-172	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-173	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-174	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-175	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-176	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-177	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-178	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-179	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-180	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-181	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-182	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-183	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-184	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-185	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-186	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-187	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-188	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-190	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-191	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-192	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-193	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-20		ST-21	ST-24		ST-29	ST-30	ST-32	ST-34		ST-37
Sample Identification		13116000014	13116000015	13116000027	13116000100	13116000101	13116000103	13116000102	13116000104	13116000105	13116000025	13116000106
Sample Date		5/7/2007	5/7/2007	5/11/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/15/2007	5/9/2007	5/15/2007
Sample Interval (dbm)		9.9 - 11.2 ft	14 - 15.5 ft	9.1 - 11.2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2.8 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-195	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-196	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-197	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-198	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-199	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-200	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-201	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-202	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-203	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-204	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-205	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-206	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-207	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-208	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-209	pg/g	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	16 U	17 U	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1221	ug/Kg	16 U	17 U	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1232	ug/Kg	16 U	17 U	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1242	ug/Kg	16 U	17 U	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1248	ug/Kg	16 U	21 U	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1254	ug/Kg	16 U	**57**	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	**27**	20 U
PCB-Aroclor 1260	ug/Kg	16 U	**74**	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1262	ug/Kg	--	--	--	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
PCB-Aroclor 1268	ug/Kg	--	--	--	--	9.6 U	9.9 U	20 U	20 U	20 U	19 U	20 U
Total PCBs Aroclors	ug/Kg	16 U	**131**	16 U	--	9.6 U	9.9 U	20 U	20 U	20 U	**27**	20 U
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-002	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-003	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-004	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-005	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-006	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-007	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-008	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-009	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-010	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-011	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-012	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-013	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-014	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-015	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-016	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-017	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-018	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-019	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-020	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-021	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-022	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-023	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-024	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-025	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-027	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-028	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-029	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-030	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-031	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-032	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-033	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-034	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-035	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-036	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-037	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-038	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-039	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-040	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-041	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-042	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-043	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-044	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-045	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-046	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-047	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-048	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-049	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-050	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-051	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-052	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-053	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-054	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-055	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-056	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-057	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-058	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-059	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-060	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-061	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-062	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-063	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-064	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-065	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-066	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-067	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-069	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-070	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-071	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-072	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-073	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-074	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-075	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-076	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-078	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-079	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-080	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-082	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-083	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-084	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-085	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-086	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-087	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-088	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-089	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-090	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-091	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-092	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-093	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-094	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-095	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-096	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-097	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-098	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-099	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-100	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-101	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-102	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-103	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-104	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-106	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-107	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-108	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-109	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-111	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-112	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-113	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-115	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-116	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-117	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-119	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-120	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-121	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-122	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-124	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-125	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-127	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-128	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-129	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-130	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-131	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-132	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-133	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-134	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-135	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-136	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-137	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-138	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-139	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-140	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-141	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-142	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-143	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-144	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-145	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-146	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-147	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-148	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-149	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-150	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-151	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-153	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-154	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-155	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-158	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-159	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-160	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-161	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-162	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-163	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-164	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-165	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-166	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-168	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-169	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-170	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-171	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-172	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-173	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-174	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-175	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-176	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-177	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-178	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-179	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-180	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-181	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-182	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-183	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-184	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-185	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-186	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-187	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-188	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-190	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-191	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-192	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-193	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		ST-39		ST-42	ST-43	SP-151		A1-15			A1-18	
Sample Identification		13116000107	13116000033	13116000108	13116000031	7234276	7234277	A1-15-S	A1-15-C1-3	A1-15-C3-5	A1-18-S	A1-18-C1-3
Sample Date		5/15/2007	5/14/2007	5/15/2007	5/11/2007	06/12/2007	06/12/2007	8/1/2008	8/13/2008	8/13/2008	9/4/2008	8/14/2008
Sample Interval (dbm)		0-10 cm	0 - 4 ft	0-10 cm	5.7 - 7.2 ft	0 - 30 cm	0 - 30 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	1 - 3 ft
Sample Type		Surface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-195	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-196	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-197	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-198	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-199	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-200	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-201	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-202	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-203	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-204	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-205	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-206	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-207	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-208	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-209	pg/g	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	20 U	4.4 U	20 U	20 U	20 U	19 U	7 UJ	3.6 U	9.1 UJ	--	--
PCB-Aroclor 1221	ug/Kg	20 U	2.2 U	20 U	20 U	20 U	19 U	1.7 U	1.8 U	2.3 U	--	--
PCB-Aroclor 1232	ug/Kg	20 U	4.4 U	20 U	20 U	20 U	19 U	3.5 U	3.6 U	4.5 U	--	--
PCB-Aroclor 1242	ug/Kg	20 U	4.4 UJ	20 U	20 U	20 U	19 U	7 UJ	3.6 UJ	2.3 U	--	--
PCB-Aroclor 1248	ug/Kg	20 U	8.9 UJ	20 U	20 U	20 U	19 U	3.5 UJ	7.3 UJ	9.1 UJ	--	--
PCB-Aroclor 1254	ug/Kg	20 U	**7**	**36**	**33**	**21**	19 U	**4.7**	**15**	**19**	--	--
PCB-Aroclor 1260	ug/Kg	20 U	2.2 U	**40 J**	20 U	20 U	19 U	1.7 U	5.4 UJ	4.5 UJ	--	--
PCB-Aroclor 1262	ug/Kg	20 U	2.2 U	20 U	20 U	20 U	19 U	1.7 U	1.8 U	2.3 U	--	--
PCB-Aroclor 1268	ug/Kg	20 U	2.2 U	20 U	20 U	20 U	19 U	1.7 U	1.8 U	2.3 U	--	--
Total PCBs Aroclors	ug/Kg	20 U	7	**76 J**	**33**	**21**	19 U	**4.7**	**15**	**19**	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	--	--	--	--	--	--	--	0.431 U
PCB-002	pg/g	--	--	--	--	--	--	--	--	--	--	0.563 U
PCB-003	pg/g	--	--	--	--	--	--	--	--	--	--	0.603 U
PCB-004	pg/g	--	--	--	--	--	--	--	--	--	--	0.860 U
PCB-005	pg/g	--	--	--	--	--	--	--	--	--	--	0.815 U
PCB-006	pg/g	--	--	--	--	--	--	--	--	--	--	0.778 U
PCB-007	pg/g	--	--	--	--	--	--	--	--	--	--	0.794 U
PCB-008	pg/g	--	--	--	--	--	--	--	--	--	--	0.811 U
PCB-009	pg/g	--	--	--	--	--	--	--	--	--	--	0.828 U
PCB-010	pg/g	--	--	--	--	--	--	--	--	--	--	0.849 U
PCB-011	pg/g	--	--	--	--	--	--	--	--	--	--	0.905 U
PCB-012	pg/g	--	--	--	--	--	--	--	--	--	--	0.874 U
PCB-013	pg/g	--	--	--	--	--	--	--	--	--	--	0.941 U
PCB-014	pg/g	--	--	--	--	--	--	--	--	--	--	0.841 U
PCB-015	pg/g	--	--	--	--	--	--	--	--	--	--	0.910 U
PCB-016	pg/g	--	--	--	--	--	--	--	--	--	--	0.617 U
PCB-017	pg/g	--	--	--	--	--	--	--	--	--	--	0.686 U
PCB-018	pg/g	--	--	--	--	--	--	--	--	--	--	0.760 U
PCB-019	pg/g	--	--	--	--	--	--	--	--	--	--	0.738 U
PCB-020	pg/g	--	--	--	--	--	--	--	--	--	--	1.02 U, C
PCB-021	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C020
PCB-022	pg/g	--	--	--	--	--	--	--	--	--	--	0.998 U
PCB-023	pg/g	--	--	--	--	--	--	--	--	--	--	1.05 U
PCB-024	pg/g	--	--	--	--	--	--	--	--	--	--	0.530 U
PCB-025	pg/g	--	--	--	--	--	--	--	--	--	--	0.889 U

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	--	--	--	--	--	--	--	1.04 U
PCB-027	pg/g	--	--	--	--	--	--	--	--	--	--	0.513 U
PCB-028	pg/g	--	--	--	--	--	--	--	--	--	--	0.862 U
PCB-029	pg/g	--	--	--	--	--	--	--	--	--	--	1.04 U
PCB-030	pg/g	--	--	--	--	--	--	--	--	--	--	0.491 U
PCB-031	pg/g	--	--	--	--	--	--	--	--	--	--	1.07 U
PCB-032	pg/g	--	--	--	--	--	--	--	--	--	--	0.575 U
PCB-033	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C020
PCB-034	pg/g	--	--	--	--	--	--	--	--	--	--	1.04 U
PCB-035	pg/g	--	--	--	--	--	--	--	--	--	--	1.09 U
PCB-036	pg/g	--	--	--	--	--	--	--	--	--	--	1.02 U
PCB-037	pg/g	--	--	--	--	--	--	--	--	--	--	0.955 U
PCB-038	pg/g	--	--	--	--	--	--	--	--	--	--	0.975 U
PCB-039	pg/g	--	--	--	--	--	--	--	--	--	--	1.04 U
PCB-040	pg/g	--	--	--	--	--	--	--	--	--	--	0.742 U
PCB-041	pg/g	--	--	--	--	--	--	--	--	--	--	0.440 U, C
PCB-042	pg/g	--	--	--	--	--	--	--	--	--	--	0.486 U, C
PCB-043	pg/g	--	--	--	--	--	--	--	--	--	--	0.558 U, C
PCB-044	pg/g	--	--	--	--	--	--	--	--	--	--	0.644 U
PCB-045	pg/g	--	--	--	--	--	--	--	--	--	--	0.638 U
PCB-046	pg/g	--	--	--	--	--	--	--	--	--	--	0.682 U
PCB-047	pg/g	--	--	--	--	--	--	--	--	--	--	0.494 U
PCB-048	pg/g	--	--	--	--	--	--	--	--	--	--	0.458 U, C
PCB-049	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C043
PCB-050	pg/g	--	--	--	--	--	--	--	--	--	--	0.566 U
PCB-051	pg/g	--	--	--	--	--	--	--	--	--	--	0.601 U
PCB-052	pg/g	--	--	--	--	--	--	--	--	--	--	0.455 U, C
PCB-053	pg/g	--	--	--	--	--	--	--	--	--	--	0.619 U
PCB-054	pg/g	--	--	--	--	--	--	--	--	--	--	0.455 U
PCB-055	pg/g	--	--	--	--	--	--	--	--	--	--	0.421 U
PCB-056	pg/g	--	--	--	--	--	--	--	--	--	--	0.760 U, C
PCB-057	pg/g	--	--	--	--	--	--	--	--	--	--	0.417 U
PCB-058	pg/g	--	--	--	--	--	--	--	--	--	--	0.429 U
PCB-059	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C042
PCB-060	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C056
PCB-061	pg/g	--	--	--	--	--	--	--	--	--	--	0.410 U, C
PCB-062	pg/g	--	--	--	--	--	--	--	--	--	--	0.485 U
PCB-063	pg/g	--	--	--	--	--	--	--	--	--	--	0.412 U
PCB-064	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C041
PCB-065	pg/g	--	--	--	--	--	--	--	--	--	--	0.440 U
PCB-066	pg/g	--	--	--	--	--	--	--	--	--	--	0.404 U, C
PCB-067	pg/g	--	--	--	--	--	--	--	--	--	--	0.425 U

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	--	--	--	--	--	--	--	0.408 U
PCB-069	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C052
PCB-070	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C061
PCB-071	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C041
PCB-072	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C041
PCB-073	pg/g	--	--	--	--	--	--	--	--	--	--	0.471 U
PCB-074	pg/g	--	--	--	--	--	--	--	--	--	--	0.410 U
PCB-075	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C048
PCB-076	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C066
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.897 U
PCB-078	pg/g	--	--	--	--	--	--	--	--	--	--	0.764 U
PCB-079	pg/g	--	--	--	--	--	--	--	--	--	--	0.724 U
PCB-080	pg/g	--	--	--	--	--	--	--	--	--	--	0.361 U
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.597 U
PCB-082	pg/g	--	--	--	--	--	--	--	--	--	--	0.995 U
PCB-083	pg/g	--	--	--	--	--	--	--	--	--	--	0.750 U, C
PCB-084	pg/g	--	--	--	--	--	--	--	--	--	--	0.814 U, C
PCB-085	pg/g	--	--	--	--	--	--	--	--	--	--	0.713 U, C
PCB-086	pg/g	--	--	--	--	--	--	--	--	--	--	0.710 U
PCB-087	pg/g	--	--	--	--	--	--	--	--	--	--	0.681 U, C
PCB-088	pg/g	--	--	--	--	--	--	--	--	--	--	0.581 U, C
PCB-089	pg/g	--	--	--	--	--	--	--	--	--	--	0.852 U
PCB-090	pg/g	--	--	--	--	--	--	--	--	--	--	0.766 U, C
PCB-091	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C088
PCB-092	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C084
PCB-093	pg/g	--	--	--	--	--	--	--	--	--	--	0.603 U
PCB-094	pg/g	--	--	--	--	--	--	--	--	--	--	0.670 U
PCB-095	pg/g	--	--	--	--	--	--	--	--	--	--	0.563 U
PCB-096	pg/g	--	--	--	--	--	--	--	--	--	--	0.447 U
PCB-097	pg/g	--	--	--	--	--	--	--	--	--	--	0.739 U
PCB-098	pg/g	--	--	--	--	--	--	--	--	--	--	0.582 U, C
PCB-099	pg/g	--	--	--	--	--	--	--	--	--	--	0.729 U
PCB-100	pg/g	--	--	--	--	--	--	--	--	--	--	0.560 U
PCB-101	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C090
PCB-102	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C098
PCB-103	pg/g	--	--	--	--	--	--	--	--	--	--	0.533 U
PCB-104	pg/g	--	--	--	--	--	--	--	--	--	--	0.426 U
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.840 U
PCB-106	pg/g	--	--	--	--	--	--	--	--	--	--	0.809 U, C
PCB-107	pg/g	--	--	--	--	--	--	--	--	--	--	0.834 U, C
PCB-108	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C107
PCB-109	pg/g	--	--	--	--	--	--	--	--	--	--	0.635 U

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	--	--	--	--	--	--	--	0.571 U
PCB-111	pg/g	--	--	--	--	--	--	--	--	--	--	0.548 U, C
PCB-112	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C083
PCB-113	pg/g	--	--	--	--	--	--	--	--	--	--	0.621 U
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.842 U
PCB-115	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C111
PCB-116	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C085
PCB-117	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C087
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C106
PCB-119	pg/g	--	--	--	--	--	--	--	--	--	--	0.562 U
PCB-120	pg/g	--	--	--	--	--	--	--	--	--	--	0.539 U
PCB-121	pg/g	--	--	--	--	--	--	--	--	--	--	0.477 U
PCB-122	pg/g	--	--	--	--	--	--	--	--	--	--	0.810 U
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.751 U
PCB-124	pg/g	--	--	--	--	--	--	--	--	--	--	0.842 U
PCB-125	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C087
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	1.21 U
PCB-127	pg/g	--	--	--	--	--	--	--	--	--	--	0.884 U
PCB-128	pg/g	--	--	--	--	--	--	--	--	--	--	0.701 U, C
PCB-129	pg/g	--	--	--	--	--	--	--	--	--	--	0.930 U
PCB-130	pg/g	--	--	--	--	--	--	--	--	--	--	0.879 U
PCB-131	pg/g	--	--	--	--	--	--	--	--	--	--	0.786 U, C
PCB-132	pg/g	--	--	--	--	--	--	--	--	--	--	0.696 U, C
PCB-133	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C131
PCB-134	pg/g	--	--	--	--	--	--	--	--	--	--	0.809 U, C
PCB-135	pg/g	--	--	--	--	--	--	--	--	--	--	0.769 U
PCB-136	pg/g	--	--	--	--	--	--	--	--	--	--	0.368 U
PCB-137	pg/g	--	--	--	--	--	--	--	--	--	--	0.818 U
PCB-138	pg/g	--	--	--	--	--	--	--	--	--	--	0.584 U, C
PCB-139	pg/g	--	--	--	--	--	--	--	--	--	--	0.728 U, C
PCB-140	pg/g	--	--	--	--	--	--	--	--	--	--	0.733 U
PCB-141	pg/g	--	--	--	--	--	--	--	--	--	--	0.763 U
PCB-142	pg/g	--	--	--	--	--	--	--	--	--	--	0.875 U
PCB-143	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C134
PCB-144	pg/g	--	--	--	--	--	--	--	--	--	--	0.744 U
PCB-145	pg/g	--	--	--	--	--	--	--	--	--	--	0.377 U
PCB-146	pg/g	--	--	--	--	--	--	--	--	--	--	0.668 U, C
PCB-147	pg/g	--	--	--	--	--	--	--	--	--	--	0.717 U
PCB-148	pg/g	--	--	--	--	--	--	--	--	--	--	0.469 U
PCB-149	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C139
PCB-150	pg/g	--	--	--	--	--	--	--	--	--	--	0.372 U
PCB-151	pg/g	--	--	--	--	--	--	--	--	--	--	0.768 U

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	--	--	--	--	--	--	--	0.361 U
PCB-153	pg/g	--	--	--	--	--	--	--	--	--	--	0.648 U
PCB-154	pg/g	--	--	--	--	--	--	--	--	--	--	0.417 U
PCB-155	pg/g	--	--	--	--	--	--	--	--	--	--	0.332 U
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.553 U
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.658 U
PCB-158	pg/g	--	--	--	--	--	--	--	--	--	--	0.574 U, C
PCB-159	pg/g	--	--	--	--	--	--	--	--	--	--	0.548 U
PCB-160	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C158
PCB-161	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C132
PCB-162	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C128
PCB-163	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C138
PCB-164	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C138
PCB-165	pg/g	--	--	--	--	--	--	--	--	--	--	– U, C146
PCB-166	pg/g	--	--	--	--	--	--	--	--	--	--	0.616 U
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.549 U
PCB-168	pg/g	--	--	--	--	--	--	--	--	--	--	0.614 U
PCB-169	pg/g	--	--	--	--	--	--	--	--	--	--	0.710 U
PCB-170	pg/g	--	--	--	--	--	--	--	--	--	--	0.655 U
PCB-171	pg/g	--	--	--	--	--	--	--	--	--	--	0.596 U
PCB-172	pg/g	--	--	--	--	--	--	--	--	--	--	0.614 U
PCB-173	pg/g	--	--	--	--	--	--	--	--	--	--	0.672 U
PCB-174	pg/g	--	--	--	--	--	--	--	--	--	--	0.542 U
PCB-175	pg/g	--	--	--	--	--	--	--	--	--	--	0.568 U
PCB-176	pg/g	--	--	--	--	--	--	--	--	--	--	0.419 U
PCB-177	pg/g	--	--	--	--	--	--	--	--	--	--	0.618 U
PCB-178	pg/g	--	--	--	--	--	--	--	--	--	--	0.610 U
PCB-179	pg/g	--	--	--	--	--	--	--	--	--	--	0.414 U
PCB-180	pg/g	--	--	--	--	--	--	--	--	--	--	0.514 U
PCB-181	pg/g	--	--	--	--	--	--	--	--	--	--	0.640 U
PCB-182	pg/g	--	--	--	--	--	--	--	--	--	--	0.529 U, C
PCB-183	pg/g	--	--	--	--	--	--	--	--	--	--	**1.58 J**
PCB-184	pg/g	--	--	--	--	--	--	--	--	--	--	0.407 U
PCB-185	pg/g	--	--	--	--	--	--	--	--	--	--	0.603 U
PCB-186	pg/g	--	--	--	--	--	--	--	--	--	--	0.431 U
PCB-187	pg/g	--	--	--	--	--	--	--	--	--	--	-- U, C182
PCB-188	pg/g	--	--	--	--	--	--	--	--	--	--	0.422 U
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--	--	--	--	0.464 U
PCB-190	pg/g	--	--	--	--	--	--	--	--	--	--	0.468 U
PCB-191	pg/g	--	--	--	--	--	--	--	--	--	--	0.443 U
PCB-192	pg/g	--	--	--	--	--	--	--	--	--	--	0.494 U
PCB-193	pg/g	--	--	--	--	--	--	--	--	--	--	0.445 U

Sample Location[1]		A1-18	A1-23	A1-24			A1-31B	EW-12-05	EW-12-06	EW-12-07	PG-62	PT-3
Sample Identification		A1-18-C3-5	A1-23-S	A1-24-S	A1-24-C1-3	A1-24-C3-5	A1-31B-S	EPAX019F24	BNWS008DBPS28	NAVHP85EDS404XX	RB14-PG-62-S	PT-3-43.0-44.0
Sample Date		8/14/2008	8/4/2008	9/4/2008	9/4/2008	8/14/2008	9/4/2008	06/19/2012	06/19/2012	06/19/2012	04/22/2014	1/13/2015
Sample Interval (dbm)		3 - 5 ft	0-10 cm	0-10 cm	1 - 3 ft	3 - 5 ft	0-10 cm	0 - 17 cm	0 - 17 cm	0 - 17 cm	0-10 cm	0 - 1 ft
Sample Type		Subsurface	Surface	Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface[2]
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	--	--	--	--	--	--	--	0.519 U
PCB-195	pg/g	--	--	--	--	--	--	--	--	--	--	0.574 U
PCB-196	pg/g	--	--	--	--	--	--	--	--	--	--	0.681 U, C
PCB-197	pg/g	--	--	--	--	--	--	--	--	--	--	0.508 U
PCB-198	pg/g	--	--	--	--	--	--	--	--	--	--	0.769 U
PCB-199	pg/g	--	--	--	--	--	--	--	--	--	--	0.734 U
PCB-200	pg/g	--	--	--	--	--	--	--	--	--	--	0.514 U
PCB-201	pg/g	--	--	--	--	--	--	--	--	--	--	0.513 U
PCB-202	pg/g	--	--	--	--	--	--	--	--	--	--	0.526 U
PCB-203	pg/g	--	--	--	--	--	--	--	--	--	--	0.681 U, C
PCB-204	pg/g	--	--	--	--	--	--	--	--	--	--	0.511 U
PCB-205	pg/g	--	--	--	--	--	--	--	--	--	--	0.403 U
PCB-206	pg/g	--	--	--	--	--	--	--	--	--	--	0.506 U
PCB-207	pg/g	--	--	--	--	--	--	--	--	--	--	0.363 U
PCB-208	pg/g	--	--	--	--	--	--	--	--	--	--	0.340 U
PCB-209	pg/g	--	--	--	--	--	--	--	--	--	--	0.282 U
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--	--	--	--	**1.58 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	0.240 U	0.484 U	0.323 U	**1.20 J**	0.315 U	**3.28 J**	0.254 U	0.308 U	1.31 U	1.05 U	0.584 U
PCB-002	pg/g	0.295 U	0.591 U	0.432 U	**2.47 J**	0.381 U	**6.95**	0.296 U	0.396 U	1.51 U	1.28 U	0.679 U
PCB-003	pg/g	0.300 U	0.596 U	0.471 U	**1.82 J**	0.381 U	**5.2**	0.287 U	0.418 U	1.45 U	1.32 U	0.662 U
PCB-004	pg/g	0.666 U	0.865 U	0.977 U	**2.22 J**	0.810 U	0.626 U	0.817 U	0.850 U	3.91 U	3.50 U	1.61 U
PCB-005	pg/g	0.664 U	0.753 U	0.903 U	0.735 U	0.744 U	0.491 U	0.650 U	0.790 U	3.07 U	3.28 U	1.37 U
PCB-006	pg/g	0.633 U	**1.32 J**	0.862 U	**5.07**	0.710 U	**2.50 J**	0.620 U	0.754 U	3.18 U	3.33 U	1.42 U
PCB-007	pg/g	0.647 U	0.734 U	0.880 U	0.716 U	0.725 U	0.478 U	0.633 U	0.770 U	3.01 U	3.29 U	1.34 U
PCB-008	pg/g	0.661 U	0.750 U	0.899 U	**3.72 J**	0.741 U	**2.29 J**	0.647 U	0.786 U	**9.13**	3.39 U	3.74 J
PCB-009	pg/g	0.674 U	0.765 U	0.917 U	0.746 U	0.756 U	0.499 U	0.660 U	0.802 U	3.16 U	3.33 U	1.41 U
PCB-010	pg/g	0.692 U	0.785 U	0.942 U	0.765 U	0.776 U	0.512 U	0.677 U	0.823 U	3.64 U	3.95 U	1.62 U
PCB-011	pg/g	**2.53 J**	**2.95 J**	1.00 U	**6.53**	**2.91 J**	**4.55**	**2.28 J**	0.877 U	3.25 U	3.62 U	**4.31**
PCB-012	pg/g	0.712 U	0.808 U	0.968 U	**4.24**	0.798 U	**2.56 J**	0.697 U	0.847 U	3.14 U	3.40 U	1.40 U
PCB-013	pg/g	0.766 U	0.869 U	1.04 U	**2.36 J**	0.859 U	**1.94 J**	0.750 U	0.912 U	3.24 U	3.46 U	1.45 U
PCB-014	pg/g	0.685 U	0.777 U	0.932 U	0.758 U	0.768 U	0.506 U	0.670 U	0.815 U	3.24 U	3.54 U	1.45 U
PCB-015	pg/g	0.766 U	0.795 U	0.995 U	**1.97 J**	0.815 U	**1.16 J**	0.645 U	0.872 U	**5.87**	3.31 U	**3.06 J**
PCB-016	pg/g	0.664 U	0.725 U	0.782 U	0.553 U	0.404 U	0.583 U	1.01 U	0.658 U	1.16 U	2.32 U	2.26 U
PCB-017	pg/g	0.738 U	0.806 U	0.869 U	0.614 U	0.449 U	1.79 U	1.12 U	0.731 U	1.24 U	2.63 U	2.42 U
PCB-018	pg/g	0.818 U	0.893 U	0.964 U	0.681 U	0.497 U	1.98 U	1.24 U	0.811 U	**13.7**	2.82 U	**5.63**
PCB-019	pg/g	0.792 U	0.865 U	0.936 U	0.660 U	0.482 U	0.696 U	1.20 U	0.787 U	1.31 U	2.81 U	2.56 U
PCB-020	pg/g	0.882 U, C	0.856 U, C	0.854 U, C	0.930 U, C	0.843 U, C	**3.99 C**	1.45 U, C	0.908 U, C	**10.3 C**	1.55 U, C	**5.25 C**
PCB-021	pg/g	-- U, C020	-- U, C020	-- U, C020	-- U, C020	-- U, C020	**-- C020**	-- U, C020	-- U, C020	**-- C020**	-- U, C020	**-- C020**
PCB-022	pg/g	0.864 U	0.839 U	0.837 U	0.911 U	0.826 U	1.34 U	1.42 U	0.889 U	**6.58**	1.45 U	**3.63 J**
PCB-023	pg/g	0.911 U	0.884 U	0.882 U	0.961 U	0.871 U	1.41 U	1.50 U	0.938 U	1.67 U	1.65 U	0.735 U
PCB-024	pg/g	0.570 U	0.623 U	0.672 U	0.475 U	0.347 U	0.501 U	0.866 U	0.566 U	0.936 U	1.93 U	1.83 U
PCB-025	pg/g	0.770 U	0.747 U	0.745 U	0.812 U	0.736 U	1.20 U	1.27 U	0.792 U	1.40 U	1.44 U	0.617 U

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	0.899 U	0.873 U	0.871 U	0.949 U	0.860 U	1.40 U	1.48 U	0.926 U	1.76 U	1.70 U	0.776 U
PCB-027	pg/g	0.552 U	0.602 U	0.650 U	0.459 U	0.335 U	0.484 U	0.838 U	0.547 U	0.936 U	1.93 U	1.83 U
PCB-028	pg/g	0.746 U	0.724 U	0.723 U	0.787 U	0.713 U	**5.45**	1.23 U	0.768 U	**16.7**	1.40 U	**10.4**
PCB-029	pg/g	0.904 U	0.878 U	0.876 U	0.954 U	0.864 U	1.40 U	1.49 U	0.931 U	1.67 U	1.70 U	0.737 U
PCB-030	pg/g	0.529 U	0.577 U	0.623 U	0.440 U	0.321 U	0.464 U	0.803 U	0.524 U	0.915 U	2.00 U	1.79 U
PCB-031	pg/g	0.928 U	0.901 U	0.899 U	0.979 U	0.887 U	**6.29**	1.53 U	0.955 U	**16.9**	1.70 U	**8.07**
PCB-032	pg/g	0.619 U	0.676 U	0.730 U	0.516 U	0.376 U	0.544 U	0.940 U	0.614 U	1.07 U	2.19 U	2.10 U
PCB-033	pg/g	-- U, C020	-- U, C020	-- U, C020	-- U, C020	-- U, C020	**-- C020**	-- U, C020	-- U, C020	**-- C020**	-- U, C020	**-- C020**
PCB-034	pg/g	0.900 U	0.873 U	0.872 U	0.949 U	0.860 U	1.40 U	1.48 U	0.926 U	1.84 U	1.60 U	0.814 U
PCB-035	pg/g	0.941 U	0.914 U	0.912 U	0.993 U	0.900 U	1.46 U	1.55 U	0.969 U	1.81 U	1.71 U	0.800 U
PCB-036	pg/g	0.883 U	0.857 U	0.855 U	0.931 U	0.844 U	1.37 U	1.45 U	0.909 U	1.80 U	1.64 U	0.793 U
PCB-037	pg/g	0.828 U	0.803 U	0.801 U	0.873 U	0.791 U	1.28 U	1.36 U	0.852 U	**4.13**	1.42 U	**3.37 J**
PCB-038	pg/g	0.845 U	0.820 U	0.818 U	0.891 U	0.807 U	1.31 U	1.39 U	0.869 U	1.65 U	1.56 U	0.727 U
PCB-039	pg/g	0.905 U	0.878 U	0.876 U	0.954 U	0.865 U	1.41 U	1.49 U	0.931 U	1.67 U	1.62 U	0.737 U
PCB-040	pg/g	0.595 U	0.687 U	0.705 U	0.790 U	0.613 U	0.809 U	0.824 U	0.759 U	**2.62 J**	1.07 U	**1.57 J**
PCB-041	pg/g	0.353 U, C	0.407 U, C	0.418 U, C	0.469 U, C	0.363 U, C	**4.05 C**	0.488 U, C	0.450 U, C	**12.9 C**	0.603 U, C	**5.61 C**
PCB-042	pg/g	0.390 U, C	0.450 U, C	0.462 U, C	0.517 U, C	0.401 U, C	**1.85 J, C**	0.539 U, C	0.497 U, C	**6.56 C**	0.649 U, C	**2.23 J, C**
PCB-043	pg/g	0.448 U, C	0.517 U, C	0.531 U, C	0.595 U, C	0.461 U, C	**4.57 C**	0.620 U, C	0.571 U, C	**18.4 C**	0.793 U, C	**7.96 C**
PCB-044	pg/g	0.517 U	0.596 U	0.612 U	0.686 U	0.532 U	**4.96**	0.715 U	0.659 U	**16.4**	0.887 U	**6.45**
PCB-045	pg/g	0.512 U	0.591 U	0.606 U	0.680 U	0.527 U	0.880 U	0.708 U	0.652 U	**3.29 J**	0.950 U	**1.42 J**
PCB-046	pg/g	0.547 U	0.631 U	0.648 U	0.726 U	0.563 U	0.940 U	0.757 U	0.697 U	0.706 U	0.955 U	0.271 U
PCB-047	pg/g	0.397 U	0.458 U	0.470 U	0.527 U	0.408 U	**2.61 J**	0.549 U	0.505 U	**6.63**	0.646 U	**3.06 J**
PCB-048	pg/g	0.368 U, C	0.424 U, C	0.435 U, C	0.488 U, C	0.378 U, C	**1.57 J, C**	0.509 U, C	0.469 U, C	**4.13 C**	0.650 U, C	**1.56 J, C**
PCB-049	pg/g	-- U, C043	-- U, C043	-- U, C043	-- U, C043	-- U, C043	**-- C043**	-- U, C043	-- U, C043	**-- C043**	-- U, C043	**-- C043**
PCB-050	pg/g	0.454 U	0.524 U	0.537 U	0.602 U	0.467 U	0.780 U	0.628 U	0.578 U	0.606 U	0.822 U	0.232 U
PCB-051	pg/g	0.482 U	0.556 U	0.571 U	0.640 U	0.496 U	0.828 U	0.667 U	0.614 U	0.591 U	0.750 U	0.227 U
PCB-052	pg/g	0.365 U, C	0.421 U, C	0.433 U, C	**1.20 J, C**	0.376 U, C	**6.17 C**	0.505 U, C	0.465 U, C	**24.4 C**	0.666 U, C	**10.7 C**
PCB-053	pg/g	0.497 U	0.573 U	0.588 U	0.659 U	0.511 U	0.854 U	0.687 U	0.633 U	**4.1**	0.782 U	**2.15 J**
PCB-054	pg/g	0.365 U	0.421 U	0.432 U	0.484 U	0.375 U	0.627 U	0.504 U	0.465 U	0.437 U	0.565 U	0.168 U
PCB-055	pg/g	0.337 U	0.389 U	0.400 U	0.448 U	0.347 U	0.459 U	0.467 U	0.430 U	0.438 U	0.532 U	0.168 U
PCB-056	pg/g	0.608 U, C	0.643 U, C	0.728 U, C	0.684 U, C	0.603 U, C	**5.07 C**	0.614 U, C	0.623 U, C	**11.4 C**	0.834 U, C	**5.50 C**
PCB-057	pg/g	0.334 U	0.386 U	0.396 U	0.444 U	0.344 U	0.454 U	0.462 U	0.426 U	0.450 U	0.586 U	0.173 U
PCB-058	pg/g	0.344 U	0.397 U	0.408 U	0.457 U	0.354 U	0.468 U	0.476 U	0.439 U	0.451 U	0.621 U	0.173 U
PCB-059	pg/g	-- U, C042	-- U, C042	-- U, C042	-- U, C042	-- U, C042	**-- J, C042**	-- U, C042	-- U, C042	**-- C042**	-- U, C042	**-- J, C042**
PCB-060	pg/g	-- U, C056	-- U, C056	-- U, C056	-- U, C056	-- U, C056	**-- C056**	-- U, C056	-- U, C056	**-- C056**	-- U, C056	**-- C056**
PCB-061	pg/g	0.329 U, C	0.380 U, C	0.390 U, C	0.437 U, C	0.339 U, C	**7.51 C**	0.455 U, C	0.419 U, C	**26.2 C**	0.537 U, C	**12.1 C**
PCB-062	pg/g	0.389 U	0.449 U	0.461 U	0.517 U	0.401 U	0.529 U	0.538 U	0.496 U	0.469 U	0.604 U	0.180 U
PCB-063	pg/g	0.331 U	0.382 U	0.392 U	0.439 U	0.340 U	0.450 U	0.457 U	0.421 U	**1.35 J**	0.589 U	**0.600 J**
PCB-064	pg/g	-- U, C041	-- U, C041	-- U, C041	-- U, C041	-- U, C041	**-- C041**	-- U, C041	-- U, C041	**-- C041**	-- U, C041	**-- C041**
PCB-065	pg/g	0.353 U	0.407 U	0.418 U	0.469 U	0.363 U	0.480 U	0.488 U	0.450 U	0.456 U	0.671 U	0.175 U
PCB-066	pg/g	0.324 U, C	0.374 U, C	0.384 U, C	0.431 U, C	0.334 U, C	**6.16 C**	0.449 U, C	0.413 U, C	**20.8 C**	0.553 U, C	**11.7 C**
PCB-067	pg/g	0.341 U	0.393 U	0.404 U	0.453 U	0.351 U	0.463 U	0.472 U	0.434 U	0.447 U	0.551 U	0.171 U

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	0.328 U	0.378 U	0.388 U	0.435 U	0.337 U	0.445 U	0.453 U	0.417 U	0.406 U	0.534 U	0.156 U
PCB-069	pg/g	-- U, C052	-- U, C052	-- U, C052	-- J, C052	-- U, C052	**-- C052**	-- U, C052	-- U, C052	**-- C052**	-- U, C052	**-- C052**
PCB-070	pg/g	-- U, C061	-- U, C061	-- U, C061	-- U, C061	-- U, C061	**-- C061**	-- U, C061	-- U, C061	**-- C061**	-- U, C061	**-- C061**
PCB-071	pg/g	-- U, C041	-- U, C041	-- U, C041	-- U, C041	-- U, C041	**-- C041**	-- U, C041	-- U, C041	**-- C041**	-- U, C041	**-- C041**
PCB-072	pg/g	-- U, C041	-- U, C041	-- U, C041	-- U, C041	-- U, C041	**-- C041**	-- U, C041	-- U, C041	**-- C041**	-- U, C041	**-- C041**
PCB-073	pg/g	0.378 U	0.436 U	0.448 U	0.502 U	0.389 U	0.650 U	0.523 U	0.482 U	0.460 U	0.570 U	0.177 U
PCB-074	pg/g	0.329 U	0.379 U	0.389 U	0.436 U	0.338 U	**4.41**	0.455 U	0.419 U	**10.2**	0.538 U	**4.28**
PCB-075	pg/g	-- U, C048	-- U, C048	-- U, C048	-- U, C048	-- U, C048	**-- J, C048**	-- U, C048	-- U, C048	**-- C048**	-- U, C048	**-- J, C048**
PCB-076	pg/g	-- U, C066	-- U, C066	-- U, C066	-- U, C066	-- U, C066	**-- C066**	-- U, C066	-- U, C066	**-- C066**	-- U, C066	**-- C066**
PCB-077 (Dioxin-Like)	pg/g	0.705 U	0.721 U	0.854 U	0.727 U	0.662 U	**1.18 J**	0.655 U	0.703 U	**2.74 J**	0.854 U	1.22 U
PCB-078	pg/g	0.612 U	0.647 U	0.732 U	0.688 U	0.607 U	0.632 U	0.618 U	0.627 U	0.796 U	0.830 U	1.25 U
PCB-079	pg/g	0.580 U	0.613 U	0.694 U	0.652 U	0.575 U	0.599 U	0.586 U	0.594 U	0.806 U	0.806 U	1.26 U
PCB-080	pg/g	0.289 U	0.334 U	0.343 U	0.384 U	0.298 U	0.393 U	0.400 U	0.369 U	0.380 U	0.461 U	0.146 U
PCB-081 (Dioxin-Like)	pg/g	0.486 U	0.536 U	0.577 U	0.604 U	0.515 U	0.580 U	0.541 U	0.514 U	0.779 U	0.743 U	1.25 U
PCB-082	pg/g	1.11 U	1.04 U	0.997 U	0.555 U	0.996 U	**1.43 J**	0.950 U	1.06 U	**9.57**	2.26 U	**3.80 J**
PCB-083	pg/g	0.834 U, C	0.784 U, C	0.751 U, C	0.418 U, C	0.751 U, C	0.553 U, C	0.716 U, C	0.796 U, C	**3.32 J, C**	1.64 U, C	0.949 U, C
PCB-084	pg/g	0.905 U, C	0.850 U, C	0.815 U, C	0.453 U, C	0.815 U, C	**2.84 J, C**	0.777 U, C	0.863 U, C	**25.6 C**	1.86 U, C	**11.9 C**
PCB-085	pg/g	0.793 U, C	0.746 U, C	0.714 U, C	0.398 U, C	0.714 U, C	**1.94 J, C**	0.681 U, C	0.757 U, C	**9.80 C**	1.58 U, C	**4.84 C**
PCB-086	pg/g	0.789 U	0.742 U	0.711 U	0.395 U	0.711 U	0.523 U	0.678 U	0.753 U	0.538 U	1.78 U	0.923 U
PCB-087	pg/g	0.757 U, C	0.712 U, C	0.682 U, C	0.379 U, C	0.682 U, C	**3.28 J, C**	0.650 U, C	0.722 U, C	**22.5 C**	1.48 U, C	**9.39 C**
PCB-088	pg/g	0.512 U, C	0.754 U, C	0.640 U, C	0.372 U, C	0.578 U, C	**2.01 J, C**	0.831 U, C	0.586 U, C	**9.06 C**	1.15 U, C	**5.18 C**
PCB-089	pg/g	0.948 U	0.891 U	0.854 U	0.475 U	0.854 U	0.628 U	0.814 U	0.904 U	0.657 U	1.92 U	1.13 U
PCB-090	pg/g	0.851 U, C	0.800 U, C	0.767 U, C	**1.64 J, C**	0.767 U, C	**8.01 C**	0.731 U, C	0.812 U, C	**57.4 C**	1.64 U, C	**27.5 C**
PCB-091	pg/g	-- U, C088	-- U, C088	-- U, C088	-- U, C088	-- U, C088	**-- J, C088**	-- U, C088	-- U, C088	**-- C088**	-- U, C088	**-- C088**
PCB-092	pg/g	-- U, C084	-- U, C084	-- U, C084	-- U, C084	-- U, C084	**-- J, C084**	-- U, C084	-- U, C084	**-- C084**	-- U, C084	**-- C084**
PCB-093	pg/g	0.531 U	0.783 U	0.665 U	0.386 U	0.601 U	0.879 U	0.863 U	0.609 U	0.671 U	1.26 U	0.471 U
PCB-094	pg/g	0.590 U	0.870 U	0.739 U	0.429 U	0.667 U	0.977 U	0.958 U	0.676 U	0.705 U	1.34 U	0.494 U
PCB-095	pg/g	0.496 U	0.730 U	0.620 U	**1.08 J**	0.560 U	**7.06**	0.805 U	0.568 U	**50.1**	1.20 U	**29.1**
PCB-096	pg/g	0.394 U	0.580 U	0.493 U	0.286 U	0.445 U	0.651 U	0.639 U	0.451 U	0.504 U	0.974 U	0.353 U
PCB-097	pg/g	0.821 U	0.772 U	0.740 U	0.412 U	0.740 U	**2.48 J**	0.705 U	0.783 U	**16.1**	1.50 U	**6.54**
PCB-098	pg/g	0.513 U, C	0.755 U, C	0.642 U, C	0.373 U, C	0.580 U, C	0.848 U, C	0.832 U, C	0.587 U, C	0.597 U, C	1.13 U, C	0.419 U, C
PCB-099	pg/g	0.811 U	0.762 U	0.730 U	0.406 U	0.730 U	**4.16**	0.696 U	0.773 U	**27**	1.42 U	**13.9**
PCB-100	pg/g	0.493 U	0.727 U	0.618 U	0.359 U	0.558 U	0.817 U	0.801 U	0.565 U	0.587 U	1.12 U	0.412 U
PCB-101	pg/g	-- U, C090	-- U, C090	-- U, C090	**-- J, C090**	-- U, C090	**-- C090**	-- U, C090	-- U, C090	**-- C090**	-- U, C090	**-- C090**
PCB-102	pg/g	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	0.469 U	0.691 U	0.587 U	0.341 U	0.531 U	0.777 U	0.762 U	0.538 U	0.598 U	1.16 U	0.419 U
PCB-104	pg/g	0.375 U	0.553 U	0.470 U	0.273 U	0.424 U	0.621 U	0.609 U	0.430 U	0.453 U	0.870 U	0.318 U
PCB-105 (Dioxin-Like)	pg/g	0.785 U	0.861 U	0.962 U	0.772 U	0.672 U	**3.45 J**	0.691 U	0.756 U	**24.8**	0.987 U	**10.4**
PCB-106	pg/g	0.821 U, C	0.880 U, C	0.864 U, C	0.781 U, C	0.719 U, C	**7.60 C**	0.678 U, C	0.732 U, C	**61.6 C**	0.965 U, C	**25.2 C**
PCB-107	pg/g	0.755 U, C	0.877 U, C	0.907 U, C	0.798 U, C	0.662 U, C	0.681 U, C	0.679 U, C	0.722 U, C	**5.32 C**	0.882 U, C	**2.03 J, C**
PCB-108	pg/g	-- U, C107	-- U, C107	-- U, C107	-- U, C107	-- U, C107	-- U, C107	-- U, C107	-- U, C107	**-- C107**	-- U, C107	**-- J, C107**
PCB-109	pg/g	0.705 U	0.663 U	0.635 U	0.354 U	0.635 U	0.468 U	0.606 U	0.673 U	0.456 U	1.31 U	0.782 U

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	0.635 U	0.597 U	0.730 U	**1.41 J**	0.572 U	**7.6**	0.545 U	0.606 U	**64.7**	1.19 U	**27.3**
PCB-111	pg/g	0.609 U, C	0.573 U, C	0.549 U, C	0.305 U, C	0.549 U, C	0.404 U, C	0.523 U, C	0.581 U, C	**1.36 J, C**	1.08 U, C	0.682 U, C
PCB-112	pg/g	-- U, C083	-- U, C083	-- U, C083	-- U, C083	-- U, C083	-- U, C083	-- U, C083	-- U, C083	**-- J, C083**	-- U, C083	-- U, C083
PCB-113	pg/g	0.691 U	0.650 U	0.622 U	0.346 U	0.622 U	0.458 U	0.593 U	0.659 U	0.475 U	1.52 U	0.816 U
PCB-114 (Dioxin-Like)	pg/g	0.741 U	0.898 U	0.938 U	0.838 U	0.644 U	0.647 U	0.709 U	0.722 U	**1.90 J**	0.851 U	0.586 U
PCB-115	pg/g	-- U, C111	-- U, C111	-- U, C111	-- U, C111	-- U, C111	-- U, C111	-- U, C111	-- U, C111	**-- J, C111**	-- U, C111	-- U, C111
PCB-116	pg/g	-- U, C085	-- U, C085	-- U, C085	-- U, C085	-- U, C085	**-- J, C085**	-- U, C085	-- U, C085	**-- C085**	-- U, C085	**-- C085**
PCB-117	pg/g	-- U, C087	-- U, C087	-- U, C087	-- U, C087	-- U, C087	**-- J, C087**	-- U, C087	-- U, C087	**-- C087**	-- U, C087	**-- C087**
PCB-118 (Dioxin-Like)	pg/g	-- U, C106	-- U, C106	-- U, C106	-- U, C106	-- U, C106	**-- C106**	-- U, C106	-- U, C106	**-- C106**	-- U, C106	**-- C106**
PCB-119	pg/g	0.625 U	0.588 U	0.563 U	0.313 U	0.563 U	0.415 U	0.537 U	0.596 U	**2.07 J**	1.32 U	0.758 U
PCB-120	pg/g	0.599 U	0.563 U	0.540 U	0.300 U	0.540 U	0.397 U	0.515 U	0.572 U	0.414 U	1.22 U	0.711 U
PCB-121	pg/g	0.420 U	0.619 U	0.526 U	0.306 U	0.475 U	0.696 U	0.683 U	0.482 U	0.498 U	0.979 U	0.349 U
PCB-122	pg/g	0.733 U	0.851 U	0.881 U	0.774 U	0.643 U	0.661 U	0.660 U	0.701 U	**1.50 J**	0.900 U	0.635 U
PCB-123 (Dioxin-Like)	pg/g	0.596 U	0.769 U	0.773 U	0.710 U	0.544 U	0.604 U	0.567 U	0.601 U	**1.37 J**	0.749 U	0.507 U
PCB-124	pg/g	0.762 U	0.885 U	0.916 U	0.806 U	0.669 U	0.688 U	0.686 U	0.729 U	**3.61 J**	0.968 U	**1.12 J**
PCB-125	pg/g	-- U, C087	-- U, C087	-- U, C087	-- U, C087	-- U, C087	**-- J, C087**	-- U, C087	-- U, C087	**-- C087**	-- U, C087	**-- C087**
PCB-126 (Dioxin-Like)	pg/g	1.20 U	1.32 U	1.32 U	0.987 U	1.05 U	0.765 U	0.979 U	1.10 U	0.567 U	1.06 U	0.622 U
PCB-127	pg/g	0.800 U	0.929 U	0.961 U	0.845 U	0.702 U	0.722 U	0.720 U	0.765 U	0.559 U	0.972 U	0.671 U
PCB-128	pg/g	0.588 U, C	0.578 U, C	0.675 U, C	0.647 U, C	0.611 U, C	**1.52 J, C**	0.606 U, C	0.621 U, C	**17.4 C**	0.995 U, C	**8.00 C**
PCB-129	pg/g	0.781 U	0.767 U	0.896 U	0.859 U	0.811 U	0.872 U	0.804 U	0.825 U	**4.28**	1.40 U	**1.97 J**
PCB-130	pg/g	0.738 U	0.725 U	0.846 U	0.812 U	0.766 U	0.824 U	0.759 U	0.779 U	**7.13**	1.34 U	**3.27 J**
PCB-131	pg/g	0.660 U, C	0.648 U, C	0.757 U, C	0.726 U, C	0.685 U, C	0.737 U, C	0.679 U, C	0.697 U, C	**3.13 J, C**	1.20 U, C	**1.21 J, C**
PCB-132	pg/g	0.585 U, C	0.574 U, C	0.670 U, C	0.643 U, C	0.607 U, C	**2.82 J, C**	0.602 U, C	0.617 U, C	**26.4 C**	1.07 U, C	**12.0 C**
PCB-133	pg/g	-- U, C131	-- U, C131	-- U, C131	-- U, C131	-- U, C131	-- U, C131	-- U, C131	-- U, C131	**-- J, C131**	-- U, C131	**-- J, C131**
PCB-134	pg/g	0.679 U, C	0.667 U, C	0.779 U, C	0.748 U, C	0.705 U, C	0.759 U, C	0.699 U, C	0.717 U, C	**6.59 C**	1.20 U, C	**2.16 J, C**
PCB-135	pg/g	0.646 U	0.635 U	0.741 U	0.711 U	0.670 U	0.721 U	0.665 U	0.682 U	**13.4**	1.25 U	**6.78**
PCB-136	pg/g	0.351 U	0.363 U	0.410 U	0.387 U	0.334 U	0.669 U	0.401 U	0.367 U	**11.7**	0.577 U	**5.84**
PCB-137	pg/g	0.687 U	0.675 U	0.788 U	0.756 U	0.713 U	0.767 U	0.707 U	0.725 U	**3.02 J**	1.19 U	**1.89 J**
PCB-138	pg/g	0.490 U, C	0.482 U, C	**1.92 J, C**	1.63 J, C	0.509 U, C	**6.81 C**	0.505 U, C	0.518 U, C	**101 C**	**5.37 C**	**43.5 C**
PCB-139	pg/g	0.611 U, C	0.601 U, C	0.701 U, C	1.36 J, C	0.635 U, C	**5.89 C**	0.629 U, C	0.645 U, C	**89.9 C**	**4.37 C**	**36.3 C**
PCB-140	pg/g	0.615 U	0.605 U	0.706 U	0.677 U	0.639 U	0.687 U	0.634 U	0.650 U	**1.72 J**	1.07 U	0.184 U
PCB-141	pg/g	0.640 U	0.629 U	0.734 U	0.704 U	0.665 U	**1.81 J**	0.659 U	0.676 U	**22.8**	1.15 U	**8.78**
PCB-142	pg/g	0.735 U	0.722 U	0.843 U	0.808 U	0.763 U	0.821 U	0.756 U	0.776 U	0.899 U	1.31 U	0.226 U
PCB-143	pg/g	-- U, C134	-- U, C134	-- U, C134	-- U, C134	-- U, C134	-- U, C134	-- U, C134	-- U, C134	**-- C134**	-- U, C134	**-- J, C134**
PCB-144	pg/g	0.624 U	0.613 U	0.716 U	0.687 U	0.648 U	0.697 U	0.643 U	0.659 U	**5.17**	1.14 U	**2.80 J**
PCB-145	pg/g	0.360 U	0.373 U	0.421 U	0.397 U	0.343 U	0.686 U	0.411 U	0.376 U	0.262 U	0.559 U	0.107 U
PCB-146	pg/g	0.561 U, C	0.551 U, C	0.643 U, C	0.617 U, C	0.582 U, C	0.627 U, C	0.577 U, C	0.592 U, C	**15.0 C**	0.982 U, C	**6.16 C**
PCB-147	pg/g	0.602 U	0.592 U	0.691 U	0.663 U	0.625 U	0.673 U	0.620 U	0.636 U	**2.59 J**	1.02 U	0.182 U
PCB-148	pg/g	0.447 U	0.463 U	0.523 U	0.494 U	0.426 U	0.853 U	0.511 U	0.468 U	0.402 U	0.746 U	0.164 U
PCB-149	pg/g	-- U, C139	-- U, C139	-- U, C139	**-- J, C139**	-- U, C139	**-- C139**	-- U, C139	-- U, C139	**-- C139**	**-- C139**	**-- C139**
PCB-150	pg/g	0.355 U	0.368 U	0.415 U	0.392 U	0.338 U	0.677 U	0.406 U	0.371 U	0.256 U	0.559 U	0.105 U
PCB-151	pg/g	0.645 U	0.633 U	0.739 U	0.709 U	0.669 U	**1.79 J**	0.664 U	0.681 U	**25.8**	1.21 U	**13**

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.344 U	0.356 U	0.403 U	0.380 U	0.328 U	0.656 U	0.393 U	0.360 U	0.267 U	0.565 U	0.109 U
PCB-153	pg/g	0.544 U	0.534 U	**1.45 J**	**1.32 J**	0.564 U	**6.7**	0.560 U	0.574 U	**102**	**5.75**	**49.5**
PCB-154	pg/g	0.398 U	0.412 U	0.465 U	0.439 U	0.379 U	0.758 U	0.455 U	0.416 U	0.301 U	0.624 U	0.123 U
PCB-155	pg/g	0.317 U	0.328 U	0.370 U	0.349 U	0.302 U	0.604 U	0.362 U	0.331 U	0.243 U	0.506 U	0.0996 U
PCB-156 (Dioxin-Like)	pg/g	0.484 U	0.470 U	0.533 U	0.524 U	0.488 U	0.554 U	0.484 U	0.494 U	**9.04**	0.834 U	**3.37 J**
PCB-157 (Dioxin-Like)	pg/g	0.560 U	0.530 U	0.625 U	0.638 U	0.571 U	0.594 U	0.560 U	0.564 U	**2.82 J**	0.944 U	**1.34 J**
PCB-158	pg/g	0.482 U, C	0.473 U, C	0.553 U, C	0.530 U, C	0.500 U, C	**1.15 J, C**	0.496 U, C	0.509 U, C	**13.9 C**	0.866 U, C	**4.71 C**
PCB-159	pg/g	0.460 U	0.452 U	0.528 U	0.507 U	0.478 U	0.514 U	0.474 U	0.486 U	**2.37 J**	0.823 U	0.148 U
PCB-160	pg/g	-- U, C158	-- U, C158	-- U, C158	-- U, C158	-- U, C158	**-- J, C158**	-- U, C158	-- U, C158	**-- C158**	-- U, C158	**-- C158**
PCB-161	pg/g	-- U, C132	-- U, C132	-- U, C132	-- U, C132	-- U, C132	**-- J, C132**	-- U, C132	-- U, C132	**-- C132**	-- U, C132	**-- C132**
PCB-162	pg/g	-- U, C128	-- U, C128	-- U, C128	-- U, C128	-- U, C128	**-- J, C128**	-- U, C128	-- U, C128	**-- C128**	-- U, C128	**-- C128**
PCB-163	pg/g	-- U, C138	-- U, C138	**-- J, C138**	**-- J, C138**	-- U, C138	-- C138	-- U, C138	-- U, C138	**-- C138**	**-- C138**	**-- C138**
PCB-164	pg/g	-- U, C138	-- U, C138	**-- J, C138**	**-- J, C138**	-- U, C138	-- C138	-- U, C138	-- U, C138	**-- C138**	**-- C138**	**-- C138**
PCB-165	pg/g	-- U, C146	-- U, C146	-- U, C146	-- U, C146	-- U, C146	-- U, C146	-- U, C146	-- U, C146	**-- C146**	-- U, C146	**-- C146**
PCB-166	pg/g	0.517 U	0.508 U	0.593 U	0.569 U	0.537 U	0.578 U	0.533 U	0.546 U	0.633 U	0.911 U	0.159 U
PCB-167 (Dioxin-Like)	pg/g	0.477 U	0.477 U	0.519 U	0.584 U	0.503 U	0.547 U	0.516 U	0.515 U	**4.64**	0.894 U	**2.25 J**
PCB-168	pg/g	0.516 U	0.507 U	0.592 U	0.568 U	0.535 U	0.576 U	0.531 U	0.545 U	0.596 U	0.856 U	0.150 U
PCB-169	pg/g	0.547 U	0.557 U	0.705 U	0.523 U	0.586 U	0.613 U	0.567 U	0.612 U	0.548 U	0.818 U	0.133 U
PCB-170	pg/g	0.549 U	0.537 U	0.546 U	0.750 U	0.556 U	**2.36 J**	0.650 U	0.630 U	**48.5**	1.22 U	**15.4**
PCB-171	pg/g	0.500 U	0.489 U	0.498 U	0.683 U	0.506 U	0.552 U	0.592 U	0.573 U	**14**	1.16 U	**5.04**
PCB-172	pg/g	0.515 U	0.504 U	0.513 U	0.704 U	0.522 U	0.569 U	0.610 U	0.591 U	**10.5**	1.24 U	**2.84 J**
PCB-173	pg/g	0.563 U	0.551 U	0.561 U	0.770 U	0.571 U	0.622 U	0.667 U	0.646 U	0.576 U	1.23 U	0.164 U
PCB-174	pg/g	0.455 U	0.445 U	0.453 U	0.622 U	0.461 U	**2.32 J**	0.538 U	0.521 U	**51**	1.03 U	**10.9**
PCB-175	pg/g	0.477 U	0.466 U	0.475 U	0.652 U	0.483 U	0.526 U	0.564 U	0.547 U	**3.89**	1.13 U	0.151 U
PCB-176	pg/g	0.351 U	0.344 U	0.350 U	0.480 U	0.356 U	0.388 U	0.416 U	0.403 U	**7.25**	0.881 U	**2.70 J**
PCB-177	pg/g	0.518 U	0.507 U	0.516 U	0.708 U	0.525 U	0.572 U	0.613 U	0.594 U	**33.7**	1.20 U	**13.7**
PCB-178	pg/g	0.511 U	0.500 U	0.509 U	0.699 U	0.518 U	0.565 U	0.605 U	0.586 U	**12.4**	1.19 U	**5.92**
PCB-179	pg/g	0.347 U	0.339 U	0.345 U	0.474 U	0.352 U	**1.32 J**	0.411 U	0.398 U	**24.8**	0.841 U	**8.39**
PCB-180	pg/g	0.431 U	0.421 U	0.429 U	0.589 U	0.437 U	**4.59**	0.510 U	0.494 U	**108**	**6.01**	**35.2**
PCB-181	pg/g	0.537 U	0.525 U	0.535 U	0.734 U	0.544 U	0.593 U	0.635 U	0.616 U	0.568 U	1.18 U	0.161 U
PCB-182	pg/g	0.444 U, C	0.434 U, C	0.442 U, C	0.607 U, C	0.450 U, C	**3.55 J, C**	0.525 U, C	0.509 U, C	**76.6 C**	0.997 U, C	**26.6 C**
PCB-183	pg/g	**1.24 J**	**1.27 J**	**1.42 J**	**1.46 J**	**1.20 J**	**3.21 J**	**1.43 J**	**1.36 J**	**31.3**	1.06 U	**11.3**
PCB-184	pg/g	0.341 U	0.334 U	0.340 U	0.466 U	0.346 U	0.377 U	0.404 U	0.391 U	0.354 U	0.774 U	0.101 U
PCB-185	pg/g	0.505 U	0.494 U	0.503 U	0.691 U	0.512 U	0.558 U	0.598 U	0.580 U	**8.59**	1.08 U	**2.25 J**
PCB-186	pg/g	0.361 U	0.354 U	0.360 U	0.494 U	0.366 U	0.399 U	0.428 U	0.415 U	0.370 U	0.823 U	0.105 U
PCB-187	pg/g	-- U, C182	-- U, C182	-- U, C182	-- U, C182	-- U, C182	**-- J, C182**	-- U, C182	-- U, C182	**-- C182**	-- U, C182	**-- C182**
PCB-188	pg/g	0.376 U	0.359 U	0.351 U	0.506 U	0.371 U	0.439 U	0.438 U	0.426 U	0.391 U	0.818 U	0.114 U
PCB-189 (Dioxin-Like)	pg/g	0.362 U	0.366 U	0.389 U	0.506 U	0.379 U	0.374 U	0.437 U	0.422 U	**1.22 J**	0.784 U	0.0894 U
PCB-190	pg/g	0.392 U	0.384 U	0.391 U	0.536 U	0.398 U	0.433 U	0.464 U	0.450 U	**11.6**	0.905 U	**3.66 J**
PCB-191	pg/g	0.372 U	0.364 U	0.370 U	0.508 U	0.377 U	0.411 U	0.440 U	0.427 U	0.402 U	0.860 U	0.114 U
PCB-192	pg/g	0.414 U	0.405 U	0.413 U	0.566 U	0.420 U	0.458 U	0.490 U	0.475 U	0.401 U	0.874 U	0.114 U
PCB-193	pg/g	0.373 U	0.365 U	0.371 U	0.510 U	0.378 U	0.412 U	0.441 U	0.428 U	**8.14**	0.815 U	**2.89 J**

Sample Location[1]		PT-5	PT-6	PT-8	PT-10	PT-11	PT-12	PT-13	PT-14	ST-101		ST-102
Sample Identification		PT-5-43.0-44.0	PT-6-43.0-44.0	PT-8-43.0-44.0	PT-10-36.0-37.0	PT-11-36.0-37.0	PT-12-30.0-31.0	PT-13-29.0-30.0	PT-14-29.0-30.0	ST-101S_0-10	ST-101C_13.2-14.2	ST-102S_0-10
Sample Date		1/13/2015	1/13/2015	1/12/2015	1/14/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	10/24/18	10/23/18	10/24/18
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0-10 cm	13.2-14.2 ft	0-10 cm
Sample Type		Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Subsurface[2]	Surface	Subsurface	Surface
Stratigraphic Unit		Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	0.484 U	0.532 U	0.510 U	0.420 U	0.502 U	**2.15 J**	0.517 U	0.488 U	**36.6**	1.12 U	**10.9**
PCB-195	pg/g	0.536 U	0.588 U	0.565 U	0.465 U	0.555 U	0.548 U	0.572 U	0.541 U	**15.7**	1.21 U	**3.56 J**
PCB-196	pg/g	0.696 U, C	0.647 U, C	0.661 U, C	0.599 U, C	0.597 U, C	**4.26 C**	0.676 U, C	0.634 U, C	**47.0 C**	0.813 U, C	**12.7 C**
PCB-197	pg/g	0.519 U	0.482 U	0.493 U	0.446 U	0.445 U	0.518 U	0.504 U	0.472 U	**1.84 J**	0.613 U	**0.691 J**
PCB-198	pg/g	0.786 U	0.730 U	0.747 U	0.677 U	0.674 U	0.785 U	0.763 U	0.716 U	**3.62 J**	0.995 U	**1.11 J**
PCB-199	pg/g	0.750 U	0.696 U	0.712 U	0.645 U	0.643 U	**4.79**	0.728 U	0.683 U	**46.4**	0.823 U	**14.5**
PCB-200	pg/g	0.525 U	0.487 U	0.499 U	0.452 U	0.450 U	0.524 U	0.510 U	0.478 U	**6.99**	0.650 U	**1.62 J**
PCB-201	pg/g	0.524 U	0.487 U	0.498 U	0.451 U	0.449 U	0.523 U	0.509 U	0.477 U	**5.58**	0.632 U	**1.85 J**
PCB-202	pg/g	0.538 U	0.499 U	0.511 U	0.463 U	0.461 U	**1.57 J**	0.522 U	0.490 U	**10.1**	0.628 U	**3.53 J**
PCB-203	pg/g	0.696 U, C	0.647 U, C	0.661 U, C	0.599 U, C	0.597 U, C	**4.26 C**	0.676 U, C	0.634 U, C	**– C196**	-- U, C196	-- C196
PCB-204	pg/g	0.522 U	0.485 U	0.496 U	0.449 U	0.447 U	0.521 U	0.507 U	0.475 U	0.189 U	0.679 U	0.160 U
PCB-205	pg/g	0.376 U	0.412 U	0.396 U	0.326 U	0.389 U	0.384 U	0.401 U	0.379 U	0.618 U	0.816 U	**0.665 J**
PCB-206	pg/g	0.435 U	0.421 U	0.481 U	0.412 U	0.506 U	**12.4**	0.491 U	0.451 U	**15.8**	0.583 U	**11.9**
PCB-207	pg/g	0.317 U	0.303 U	0.340 U	0.296 U	0.376 U	**1.25 J**	0.353 U	0.327 U	**2.52 J**	0.517 U	**1.64 J**
PCB-208	pg/g	0.301 U	0.286 U	0.316 U	0.278 U	0.364 U	**4.57**	0.331 U	0.308 U	**3.42 J**	0.510 U	**5.45**
PCB-209	pg/g	0.300 U	0.291 U	0.262 U	0.308 U	0.272 U	**14.9**	0.316 U	0.278 U	**6.2**	0.531 U	**9.16**
Total PCBs Congeners	pg/g	**3.77 J**	**5.54 J**	**4.79 J**	**42.7 J**	**4.11 J**	**240 J**	**3.71 J**	**1.36 J**	**1,810 J**	**21.5 J**	**753 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**11**	**3.58 J**	**2.08 J**	0.341 U	0.600 U	**4.82**	**18.8**	**15.4**	**2.38 J**	0.512 U	**1.10 J**
PCB-002	pg/g	**22.4**	**9.06**	**4.55**	0.397 U	0.694 U	**4.31**	**28.2**	**12.5**	**1.28 J**	0.626 U	**0.899 J**
PCB-003	pg/g	**24.9**	**7.97**	**5**	0.388 U	**1.46 J**	**7.19**	**33.7**	**20.4**	**2.05 J**	0.637 U	**1.66 J**
PCB-004	pg/g	**5.43**	1.03 U	2.86 U	1.46 U	**2.56 J**	**7.12**	**24.1**	**11.4**	**5.16**	2.86 U	**2.92 J**
PCB-005	pg/g	1.45 U	0.681 U	1.94 U	1.22 U	1.46 U	1.69 U	1.00 U	1.67 U	2.19 U	2.64 U	1.48 U
PCB-006	pg/g	**6.7**	0.712 U	1.99 U	1.27 U	1.51 U	**8.15**	**58.3**	**9.76**	2.27 U	2.63 U	1.53 U
PCB-007	pg/g	**3.03 J**	0.682 U	1.94 U	1.20 U	1.44 U	1.67 U	**3.39 J**	**2.60 J**	2.15 U	2.62 U	1.45 U
PCB-008	pg/g	**30.7**	**5.76**	2.00 U	**3.56 J**	**5.65**	**26.4**	**100**	**53.8**	**11.1**	2.66 U	**7.34**
PCB-009	pg/g	**2.43 J**	0.709 U	1.91 U	1.26 U	**1.59 J**	1.65 U	**6.99**	**2.41 J**	2.25 U	2.57 U	1.52 U
PCB-010	pg/g	1.74 U	0.703 U	2.27 U	1.45 U	1.74 U	1.90 U	**3.43 J**	1.95 U	2.60 U	2.97 U	1.76 U
PCB-011	pg/g	**26.5**	**6.61**	**5.55**	**4.73**	**6.91**	**9.4**	**18.5**	**17.3**	**9.66**	2.75 U	**7.57**
PCB-012	pg/g	**8.92**	**6.16**	**4.31**	1.25 U	1.50 U	**2.84 J**	**9.83**	**4.59**	2.24 U	2.57 U	1.52 U
PCB-013	pg/g	**8.03**	0.767 U	2.04 U	1.29 U	1.55 U	**2.86 J**	**20.4**	**6.28**	2.31 U	2.66 U	1.56 U
PCB-014	pg/g	1.56 U	0.745 U	1.88 U	1.29 U	1.55 U	1.75 U	1.10 U	1.62 U	2.31 U	2.73 U	1.56 U
PCB-015	pg/g	**20.2**	0.729 U	1.80 U	**4.02**	**6.49**	**13.1**	**37.1**	**23.1**	**8.22**	2.46 U	**7.05**
PCB-016	pg/g	**29.1**	**6.7**	2.47 U	**1.76 J**	**6.64**	**40.5**	**180**	**121**	**9.88**	1.40 U	**3.27 J**
PCB-017	pg/g	**46.6**	**7.97**	2.79 U	**2.58 J**	**5.79**	**51.5**	**251**	**168**	**9.39**	1.55 U	**5.57**
PCB-018	pg/g	**98.1**	**18.8**	**6.95**	**5.6**	**13.9**	**142**	**714**	**465**	**23.1**	1.66 U	**13.6**
PCB-019	pg/g	**7.06**	0.889 U	3.11 U	0.553 U	1.03 U	**7.76**	**44.5**	**27.1**	1.88 U	1.66 U	0.647 U
PCB-020	pg/g	**111 C**	**19.1 C**	1.75 U, C	**5.80 C**	**13.2 C**	**141 C**	**517 C**	**249 C**	**19.3 C**	1.59 U, C	**11.0 C**
PCB-021	pg/g	**-- C020**	**-- C020**	-- U, C020	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	-- U, C020	**-- C020**
PCB-022	pg/g	**61.5**	**9.91**	1.71 U	**4.63**	**9.93**	**88.1**	**291**	**154**	**14.9**	1.59 U	**7.61**
PCB-023	pg/g	0.908 U	0.481 U	1.90 U	1.24 U	0.980 U	1.12 U	1.94 U	1.42 U	2.04 U	1.80 U	0.995 U
PCB-024	pg/g	**4.19**	0.608 U	2.14 U	0.395 U	0.738 U	**2.98 J**	**18.9**	**7.71**	1.35 U	1.16 U	0.462 U
PCB-025	pg/g	**11.7**	**1.45 J**	1.81 U	1.04 U	0.823 U	**17.3**	**102**	**25**	1.71 U	1.39 U	0.835 U

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	**31.5**	**4.37**	1.78 U	**2.47 J**	**6.01**	**44.9**	**207**	**58.4**	**9.1**	1.74 U	**5.38**
PCB-027	pg/g	**2.69 J**	**0.591 U**	2.09 U	0.395 U	0.738 U	**4.8**	**18**	**12.4**	1.34 U	1.11 U	0.462 U
PCB-028	pg/g	**205**	**28**	**6.54**	**10.8**	**23.2**	**235**	**832**	**400**	**33.7**	1.48 U	**19.8**
PCB-029	pg/g	0.936 U	0.464 U	1.75 U	1.24 U	0.983 U	1.05 U	1.88 U	1.31 U	2.05 U	1.70 U	0.997 U
PCB-030	pg/g	0.616 U	0.587 U	2.02 U	0.386 U	0.721 U	0.707 U	1.35 U	1.30 U	1.31 U	1.17 U	0.451 U
PCB-031	pg/g	**233**	**32.9**	**5.86**	**10.1**	**21.1**	**287**	**921**	**488**	**38.2**	1.69 U	**21.2**
PCB-032	pg/g	**34.6**	**5.74**	2.35 U	**2.35 J**	**3.31 J**	**44.9**	**199**	**115**	**5.04**	1.29 U	**6.06**
PCB-033	pg/g	**– C020**	**– C020**	– U, C020	**– C020**	**– C020**	**– C020**	**– C020**	**– C020**	**– C020**	– U, C020	**– C020**
PCB-034	pg/g	**2.76 J**	0.484 U	1.84 U	1.37 U	1.09 U	1.05 U	**8.86**	**4.69**	2.26 U	1.70 U	1.10 U
PCB-035	pg/g	**3.49 J**	0.524 U	1.81 U	1.34 U	1.07 U	1.09 U	**9.34**	1.35 U	2.22 U	1.76 U	1.08 U
PCB-036	pg/g	0.901 U	0.483 U	1.67 U	1.33 U	1.06 U	1.07 U	1.95 U	1.25 U	2.20 U	1.73 U	1.07 U
PCB-037	pg/g	**38.4**	**7.4**	1.66 U	**4.14**	**6.97**	**38.4**	**162**	**82.4**	**12.7**	1.49 U	**9.17**
PCB-038	pg/g	**4.84**	0.477 U	1.68 U	1.22 U	0.969 U	1.00 U	**9.97**	1.26 U	2.02 U	1.62 U	0.983 U
PCB-039	pg/g	0.891 U	0.485 U	1.67 U	1.24 U	0.983 U	1.03 U	1.96 U	1.25 U	2.05 U	1.66 U	0.997 U
PCB-040	pg/g	**34.7**	**9.99**	2.62 U	0.279 U	**2.41 J**	**37**	**7.68**	**99.1**	**3.69 J**	0.565 U	**2.72 J**
PCB-041	pg/g	**218 C**	**61.0 C**	**10.3 C**	**6.62 C**	**10.4 C**	**170 C**	**934 C**	**562 C**	**20.4 C**	0.332 U, C	**10.5 C**
PCB-042	pg/g	**74.2 C**	**17.5 C**	1.84 U, C	**2.60 J, C**	**5.03 C**	**68.5 C**	**373 C**	**202 C**	**8.69 C**	0.362 U, C	**4.59 C**
PCB-043	pg/g	**332 C**	**68.5 C**	**12.1 C**	**10.5 C**	**15.9 C**	**210 C**	**1,040 C**	**664 C**	**29.8 C**	1.92 J, C	**14.9 C**
PCB-044	pg/g	**267**	**91.5**	**14.1**	**11**	**13.5**	**216**	**1,190**	**780**	**19.5**	0.477 U	**12.2**
PCB-045	pg/g	**34.9**	**7.48**	2.39 U	**1.21 J**	**2.79 J**	**47.3**	**248**	**126**	**5.25**	0.512 U	**2.83 J**
PCB-046	pg/g	**14.3**	**3.09 J**	2.44 U	0.259 U	**1.44 J**	**19.7**	**104**	**51**	1.18 U	0.519 U	**1.52 J**
PCB-047	pg/g	**131**	**22.2**	**5.68**	**3.42 J**	**5.52**	**62.7**	**407**	**233**	**10.8**	0.335 U	**5.97**
PCB-048	pg/g	**44.2 C**	**12.1 C**	**1.63 U, C**	**1.46 J, C**	**2.69 J, C**	**57.5 C**	**220 C**	**157 C**	**4.00 C**	0.374 U, C	**2.68 J, C**
PCB-049	pg/g	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– J, C043**	**– C043**
PCB-050	pg/g	0.876 U	0.775 U	2.01 U	0.222 U	0.400 U	1.52 U	**4.76**	1.72 U	1.01 U	0.469 U	0.411 U
PCB-051	pg/g	**12.6**	**2.50 J**	1.94 U	**0.904 J**	**0.924 J**	**14.1**	**72.1**	**36.1**	0.987 U	0.432 U	**1.35 J**
PCB-052	pg/g	**444 C**	**160 C**	**22.4 C**	**22.0 C**	**20.7 C**	**258 C**	**1,610 C**	**1,010 C**	**44.8 C**	**2.16 J, C**	**20.3 C**
PCB-053	pg/g	**35.1**	**8.27**	2.04 U	**1.94 J**	**3.34 J**	**44.8**	**226**	**118**	**6.9**	0.447 U	**3.40 J**
PCB-054	pg/g	0.602 U	0.583 U	1.66 U	0.160 U	0.288 U	1.07 U	**4.35**	1.42 U	0.729 U	0.331 U	0.296 U
PCB-055	pg/g	**9.31**	**2.43 J**	1.50 U	0.161 U	0.290 U	**3.88 J**	**29.3**	**10.4**	0.732 U	0.299 U	0.297 U
PCB-056	pg/g	**231 C**	**45.5 C**	**7.50 C**	**6.04 C**	**9.77 C**	**170 C**	**828 C**	**407 C**	**18.8 C**	0.566 U, C	**10.0 C**
PCB-057	pg/g	**3.24 J**	0.588 U	1.55 U	0.165 U	0.297 U	1.05 U	**6.77**	1.32 U	0.751 U	0.325 U	0.305 U
PCB-058	pg/g	**2.51 J**	0.613 U	1.52 U	0.166 U	0.298 U	1.03 U	**3.13 J**	**2.88 J**	0.753 U	0.317 U	0.306 U
PCB-059	pg/g	**– C042**	**– C042**	– U, C042	**– J, C042**	**– C042**	**– C042**	**– C042**	**– C042**	**– C042**	– U, C042	**– C042**
PCB-060	pg/g	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	– U, C056	**– C056**
PCB-061	pg/g	**395 C**	**158 C**	**22.8 C**	**22.4 C**	**27.8 C**	**276 C**	**1,830 C**	**1,050 C**	**47.3 C**	**1.92 J, C**	**23.7 C**
PCB-062	pg/g	0.643 U	0.656 U	1.71 U	0.172 U	0.310 U	1.13 U	1.51 U	1.46 U	0.783 U	0.350 U	0.318 U
PCB-063	pg/g	**15.6**	**3.64 J**	1.47 U	**0.777 J**	**1.56 J**	**12.9**	**56**	**29**	**1.80 J**	0.323 U	**1.05 J**
PCB-064	pg/g	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	– U, C041	**– C041**
PCB-065	pg/g	0.715 U	0.587 U	1.52 U	0.167 U	0.301 U	1.09 U	1.35 U	1.30 U	0.761 U	0.337 U	0.309 U
PCB-066	pg/g	**333 C**	**85.3 C**	**12.6 C**	**14.9 C**	**25.5 C**	**248 C**	**1,320 C**	**649 C**	**38.9 C**	**1.29 J, C**	**21.7 C**
PCB-067	pg/g	**9.01**	**1.83 J**	1.51 U	0.164 U	0.295 U	**7.36**	**39.3**	**16.5**	**1.53 J**	0.317 U	**1.05 J**

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	**7.05**	0.549 U	1.38 U	0.149 U	0.268 U	0.967 U	1.27 U	1.18 U	0.678 U	0.298 U	0.275 U
PCB-069	pg/g	**– C052**	**– C052**	**– C052**	**– C052**	**– C052**	**– C052**	**– C052**	**– C052**	**– C052**	**– J, C052**	**– C052**
PCB-070	pg/g	**– C061**	**– C061**	**– C061**	**– C061**	**– C061**	**– C061**	**– C061**	**– C061**	**– C061**	**– J, C061**	**– C061**
PCB-071	pg/g	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– U, C041**	**– C041**
PCB-072	pg/g	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	**– U, C041**	**– C041**
PCB-073	pg/g	**6.68**	0.593 U	1.65 U	0.169 U	0.304 U	**3.12 J**	1.37 U	1.41 U	0.769 U	0.336 U	0.312 U
PCB-074	pg/g	**176**	**48.7**	**9.11**	**6.23**	**10.7**	**138**	**740**	**400**	**18.9**	0.295 U	**8.85**
PCB-075	pg/g	**– C048**	**– C048**	– U, C048	**– J, C048**	**– J, C048**	**– C048**	**– C048**	**– C048**	**– C048**	– U, C048	**– J, C048**
PCB-076	pg/g	**– C066**	**– C066**	**– C066**	**– C066**	**– C066**	**– C066**	**– C066**	**– C066**	**– C066**	– J, C066	**– C066**
PCB-077 (Dioxin-Like)	pg/g	**29.9**	**6.34**	1.62 U	**1.65 J**	**2.75 J**	**19.5**	**117**	**39.9**	**5.17**	0.557 U	**2.76 J**
PCB-078	pg/g	0.872 U	**1.04 J**	1.52 U	0.331 U	0.548 U	1.04 U	**3.92**	2.05 U	0.981 U	0.563 U	0.414 U
PCB-079	pg/g	**10.1**	**3.09 J**	1.46 U	0.855 J	0.554 U	**2.65 J**	**16.5**	**12**	0.992 U	0.560 U	0.419 U
PCB-080	pg/g	0.491 U	0.519 U	1.30 U	0.140 U	0.251 U	0.879 U	1.20 U	1.11 U	0.635 U	0.271 U	0.258 U
PCB-081 (Dioxin-Like)	pg/g	**9.07**	**4.45**	1.41 U	**1.14 J**	**1.07 J**	**4.14**	**29.6**	**15.6**	**2.12 J**	0.534 U	**1.33 J**
PCB-082	pg/g	**77.5**	**29.8**	**4.86**	**7.42**	**8.03**	**38.3**	**212**	**142**	**14.8**	1.39 U	**7.99**
PCB-083	pg/g	**36.0 C**	**10.1 C**	1.99 U, C	**3.77 J, C**	**2.34 J, C**	**12.1 C**	**61.5 C**	**43.8 C**	**5.52 C**	1.03 U, C	**3.45 J, C**
PCB-084	pg/g	**394 C**	**85.2 C**	**13.3 C**	**30.0 C**	**28.3 C**	**122 C**	**523 C**	**453 C**	**53.7 C**	1.24 U, C	**25.8 C**
PCB-085	pg/g	**106 C**	**40.0 C**	**5.70 C**	**8.93 C**	**10.6 C**	**46.6 C**	**270 C**	**178 C**	**16.8 C**	0.970 U, C	**11.1 C**
PCB-086	pg/g	0.983 U	0.995 U	2.07 U	0.646 U	1.57 U	1.33 U	2.20 U	1.80 U	1.28 U	1.13 U	0.730 U
PCB-087	pg/g	**221 C**	**92.5 C**	**13.8 C**	**28.6 C**	**24.3 C**	**96.1 C**	**540 C**	**419 C**	**42.0 C**	0.908 U, C	**21.7 C**
PCB-088	pg/g	**142 C**	**35.2 C**	**4.21 C**	**11.7 C**	**16.2 C**	**46.0 C**	**275 C**	**188 C**	**21.2 C**	0.646 U, C	**13.0 C**
PCB-089	pg/g	**9.02**	**2.47 J**	2.43 U	0.789 U	1.92 U	**7.5**	**29.9**	**14.2**	1.57 U	1.24 U	0.892 U
PCB-090	pg/g	**990 C**	**221 C**	**35.5 C**	**73.9 C**	**63.2 C**	**278 C**	**1,260 C**	**1,190 C**	**131 C**	**3.49 J, C**	**63.1 C**
PCB-091	pg/g	**– C088**	**– C088**	**– C088**	**– C088**	**– C088**	**– C088**	**– C088**	**– C088**	**– C088**	– U, C088	**– C088**
PCB-092	pg/g	**– C084**	**– C084**	**– C084**	**– C084**	**– C084**	**– C084**	**– C084**	**– C084**	**– C084**	– U, C084	**– C084**
PCB-093	pg/g	0.548 U	1.56 U	2.41 U	0.294 U	0.416 U	0.605 U	2.20 U	2.64 U	1.36 U	0.734 U	0.453 U
PCB-094	pg/g	**5.6**	1.55 U	2.41 U	0.309 U	0.437 U	0.622 U	**12.8**	**7.91**	1.43 U	0.755 U	0.476 U
PCB-095	pg/g	**580**	**208**	**24.7**	**78.2**	**91.2**	**305**	**1,580**	**1,160**	**133**	**3.08 J**	**78.6**
PCB-096	pg/g	**3.43 J**	1.06 U	1.62 U	0.221 U	0.312 U	0.444 U	1.50 U	**7.97**	1.02 U	0.539 U	0.340 U
PCB-097	pg/g	**136**	**75.9**	**12.8**	**18.1**	**16.2**	**63.8**	**463**	**367**	**28.9**	0.956 U	**15.9**
PCB-098	pg/g	0.493 U, C	1.42 U, C	2.27 U, C	0.261 U, C	0.370 U, C	0.508 U, C	2.00 U, C	2.49 U, C	1.21 U, C	0.616 U, C	0.403 U, C
PCB-099	pg/g	**466**	**107**	**18.2**	**28.1**	**31.5**	**105**	**604**	**541**	**58**	0.894 U	**28.6**
PCB-100	pg/g	**28.9**	1.26 U	1.97 U	0.257 U	0.364 U	**1.95 J**	**5.25**	**14**	1.19 U	0.629 U	0.396 U
PCB-101	pg/g	**– C090**	**– C090**	**– C090**	**– C090**	**– C090**	**– C090**	**– C090**	**– C090**	**– C090**	**– J, C090**	**– C090**
PCB-102	pg/g	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098	– U, C098
PCB-103	pg/g	**42.9**	1.27 U	1.99 U	0.262 U	0.371 U	**2.70 J**	**14.5**	**12.9**	1.21 U	0.643 U	0.404 U
PCB-104	pg/g	0.380 U	0.992 U	1.50 U	0.198 U	0.281 U	0.400 U	1.40 U	1.65 U	0.919 U	0.485 U	0.306 U
PCB-105 (Dioxin-Like)	pg/g	**202**	**107**	**13.7**	**29.4**	**22.9**	**82.1**	**579**	**403**	**37.1**	1.11 U	**19.5**
PCB-106	pg/g	**560 C**	**234 C**	**29.6 C**	**72.0 C**	**56.1 C**	**184 C**	**1,350 C**	**994 C**	**93.3 C**	**4.11 C**	**53.6 C**
PCB-107	pg/g	**56.4 C**	**16.6 C**	**2.52 J, C**	**4.36 C**	**4.78 C**	**12.3 C**	**84.8 C**	**65.4 C**	**8.00 C**	0.996 U, C	**3.69 J, C**
PCB-108	pg/g	**– C107**	**– C107**	**– J, C107**	**– C107**	**– C107**	**– C107**	**– C107**	**– C107**	**– C107**	– U, C107	**– J, C107**
PCB-109	pg/g	0.726 U	0.755 U	1.68 U	0.547 U	1.33 U	0.963 U	1.67 U	1.47 U	1.09 U	0.814 U	0.618 U

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	**609**	**226**	**33.1**	**72.9**	**71.9**	**228**	**1,350**	**1,090**	**126**	**3.56 J**	**70.6**
PCB-111	pg/g	**14.8 C**	**6.44 C**	1.61 U, C	**1.35 J, C**	1.16 U, C	**6.06 C**	**38.2 C**	**23.2 C**	0.948 U, C	0.691 U, C	0.539 U, C
PCB-112	pg/g	**– C083**	**– C083**	-- U, C083	**– J, C083**	**– J, C083**	**– C083**	**– C083**	**– C083**	**– C083**	-- U, C083	**– J, C083**
PCB-113	pg/g	0.837 U	0.748 U	1.75 U	0.571 U	1.39 U	1.12 U	1.65 U	1.53 U	1.13 U	0.950 U	0.645 U
PCB-114 (Dioxin-Like)	pg/g	**15.3**	**8.47**	1.06 U	**1.82 J**	**1.77 J**	**5.24**	**42.8**	**24.4**	**2.77 J**	1.03 U	**1.82 J**
PCB-115	pg/g	**– C111**	**– C111**	-- U, C111	**– J, C111**	**– U, C111**	**– C111**	**– C111**	**– C111**	-- U, C111	-- U, C111	**– U, C111**
PCB-116	pg/g	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	-- U, C085	**– C085**
PCB-117	pg/g	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	-- U, C087	**– C087**
PCB-118 (Dioxin-Like)	pg/g	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**
PCB-119	pg/g	**53.8**	**4.17**	1.60 U	**1.71 J**	**2.16 J**	**5.67**	**25.7**	**26.2**	1.05 U	0.799 U	**1.49 J**
PCB-120	pg/g	**11**	0.689 U	1.52 U	0.497 U	1.21 U	0.909 U	**3.45 J**	**4.08**	0.989 U	0.769 U	0.562 U
PCB-121	pg/g	0.427 U	1.18 U	1.89 U	0.218 U	0.309 U	0.455 U	1.66 U	2.08 U	1.01 U	0.552 U	0.336 U
PCB-122	pg/g	**4.83**	**3.22 J**	1.15 U	**0.959 J**	**1.33 J**	**2.75 J**	**19.3**	**9.77**	**1.50 J**	1.02 U	**0.992 J**
PCB-123 (Dioxin-Like)	pg/g	**6.77**	**4.81**	1.34 U	**1.23 J**	**1.27 J**	**3.32 J**	**25.9**	**16.9**	**1.54 J**	0.894 U	**1.22 J**
PCB-124	pg/g	**26.9**	**11.2**	1.15 U	**4.48**	**3.10 J**	**7.82**	**59**	**43**	**4.31**	1.11 U	**3.52 J**
PCB-125	pg/g	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	-- U, C087	**– C087**
PCB-126 (Dioxin-Like)	pg/g	**2.61 J**	**1.44 J**	1.20 U	**0.651 J**	0.697 U	**1.12 J**	**7.91**	**5.05**	**1.61 J**	1.14 U	0.541 U
PCB-127	pg/g	1.30 U	0.899 U	1.13 U	0.633 U	0.778 U	0.793 U	1.55 U	1.72 U	0.855 U	1.10 U	0.533 U
PCB-128	pg/g	**98.3 C**	**46.0 C**	**5.74 C**	**19.8 C**	**19.5 C**	**29.7 C**	**216 C**	**192 C**	**30.6 C**	0.471 U, C	**18.3 C**
PCB-129	pg/g	**30.5**	**14.9**	1.60 U	**8.57**	**4.9**	**9.12**	**66.5**	**58.6**	**7.06**	0.650 U	**5.97**
PCB-130	pg/g	**65.3**	**17.8**	1.59 U	**8.38**	**8.02**	**11.7**	**86.1**	**73.4**	**10.9**	0.604 U	**6.57**
PCB-131	pg/g	**81.8 C**	**10.8 C**	1.50 U, C	**3.08 J, C**	**3.61 J, C**	**6.81 C**	**42.1 C**	**36.4 C**	**5.24 C**	0.553 U, C	**3.20 J, C**
PCB-132	pg/g	**232 C**	**74.4 C**	**9.06 C**	**33.8 C**	**35.4 C**	**71.7 C**	**418 C**	**373 C**	**51.3 C**	0.499 U, C	**32.8 C**
PCB-133	pg/g	**– C131**	**– C131**	-- U, C131	**– J, C131**	**– J, C131**	**– C131**	**– C131**	**– C131**	**– C131**	-- U, C131	**– J, C131**
PCB-134	pg/g	**50.6 C**	**14.7 C**	1.54 U, C	**5.85 C**	**5.88 C**	**12.7 C**	**75.9 C**	**68.5 C**	**9.20 C**	0.554 U, C	**5.46 C**
PCB-135	pg/g	**248**	**28.3**	**4.77**	**13.4**	**16.7**	**39.1**	**196**	**168**	**25.2**	0.598 U	**15.3**
PCB-136	pg/g	**152**	**29.1**	**5.5**	**12.2**	**16.9**	**50.2**	**248**	**218**	**26.6**	0.221 U	**14.4**
PCB-137	pg/g	**25.5**	**17.7**	1.33 U	**6.26**	**5.46**	**8.86**	**65.6**	**61.9**	**8.29**	0.567 U	**6.41**
PCB-138	pg/g	**757 C**	**239 C**	**26.8 C**	**103 C**	**117 C**	**217 C**	**1,410 C**	**1,230 C**	**189 C**	2.12 J, C	**108 C**
PCB-139	pg/g	**910 C**	**157 C**	**19.6 C**	**72.1 C**	**96.7 C**	**230 C**	**1,180 C**	**1,020 C**	**162 C**	0.498 U, C	**99.5 C**
PCB-140	pg/g	**35.7**	**2.96 J**	1.21 U	**0.792 J**	0.907 U	**2.50 J**	2.30 U	**7.37**	**2.06 J**	0.506 U	0.332 U
PCB-141	pg/g	**150**	**41.9**	**4.7**	**18.7**	**22**	**59.7**	**317**	**260**	**39.3**	0.539 U	**22.2**
PCB-142	pg/g	1.05 U	0.994 U	1.51 U	0.472 U	1.12 U	0.952 U	2.82 U	2.12 U	1.15 U	0.633 U	0.409 U
PCB-143	pg/g	**– C134**	**– C134**	-- U, C134	**– C134**	**– C134**	**– C134**	**– C134**	**– C134**	**– C134**	-- U, C134	**– C134**
PCB-144	pg/g	**45.8**	**10.9**	1.36 U	**3.76 J**	**5.45**	**14.4**	**80.3**	**70.3**	**8.89**	0.481 U	**5.97**
PCB-145	pg/g	0.241 U	1.37 U	1.25 U	0.107 U	0.239 U	0.452 U	1.49 U	1.23 U	0.171 U	0.205 U	0.0985 U
PCB-146	pg/g	**357 C**	**39.1 C**	**5.66 C**	**13.6 C**	**17.8 C**	**30.8 C**	**192 C**	**177 C**	**24.8 C**	0.451 U, C	**16.3 C**
PCB-147	pg/g	**50.1**	**5.99**	1.26 U	**2.19 J**	**2.90 J**	**3.90 J**	**21.1**	**25.6**	**4.16**	0.531 U	**2.21 J**
PCB-148	pg/g	**35.6**	1.74 U	1.84 U	0.163 U	0.366 U	0.588 U	1.90 U	1.80 U	0.261 U	0.267 U	0.151 U
PCB-149	pg/g	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	-- U, C139	**– C139**
PCB-150	pg/g	**15.1**	1.31 U	1.22 U	0.104 U	0.233 U	0.447 U	1.42 U	**4**	0.166 U	0.203 U	0.0960 U
PCB-151	pg/g	**319**	**39.9**	**6.44**	**18.5**	**34.6**	**80.6**	**376**	**344**	**56.2**	0.558 U	**35.8**

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.244 U	1.34 U	1.25 U	0.108 U	0.243 U	0.469 U	1.46 U	1.22 U	0.173 U	0.213 U	0.100 U
PCB-153	pg/g	**969**	**193**	**26.2**	**86.2**	**119**	**244**	**1,360**	**1,210**	**196**	0.444 U	**123**
PCB-154	pg/g	**113**	**5.44**	1.46 U	**1.42 J**	**2.31 J**	**3.15 J**	**14.4**	**28**	**1.88 J**	0.234 U	2.02 J
PCB-155	pg/g	**1.68 J**	1.19 U	1.10 U	0.0989 U	0.221 U	0.435 U	1.30 U	1.08 U	0.158 U	0.197 U	0.0913 U
PCB-156 (Dioxin-Like)	pg/g	**66.3**	**29.8**	**4.04**	**14.1**	**10.5**	**20.3**	**140**	**134**	**19.3**	0.418 U	**9.42**
PCB-157 (Dioxin-Like)	pg/g	**14.6**	**8.11**	1.00 U	**3.94 J**	**3.06 J**	**4.34**	**27.6**	**25.5**	**6.11**	0.430 U	**3.03 J**
PCB-158	pg/g	**80.9 C**	**32.2 C**	**3.62 J, C**	**14.0 C**	**12.0 C**	**28.3 C**	**183 C**	**153 C**	**21.5 C**	0.397 U, C	**12.3 C**
PCB-159	pg/g	**17.3**	**2.48 J**	0.961 U	**0.703 J**	**2.31 J**	**3.42 J**	**20.3**	**13.3**	**3.93**	0.392 U	**1.75**
PCB-160	pg/g	**– C158**	**– C158**	**– J, C158**	**– C158**	**– C158**	**– C158**	**– C158**	**– C158**	**– C158**	-- U, C158	**– C158**
PCB-161	pg/g	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	-- U, C132	**– C132**
PCB-162	pg/g	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	-- U, C128	**– C128**
PCB-163	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	– J, C138	**– C138**
PCB-164	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	– J, C138	**– C138**
PCB-165	pg/g	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	-- U, C146	**– C146**
PCB-166	pg/g	**2.90 J**	**1.46 J**	0.994 U	**0.600 J**	0.787 U	0.607 U	**5.18**	1.40 U	0.811 U	0.404 U	0.288 U
PCB-167 (Dioxin-Like)	pg/g	**24.4**	**10.7**	1.03 U	**5.45**	**6.44**	**7.83**	**54.3**	**47.7**	**7.67**	0.434 U	**5.68**
PCB-168	pg/g	0.686 U	0.675 U	1.01 U	0.312 U	0.740 U	0.598 U	1.92 U	1.43 U	0.763 U	0.397 U	0.271 U
PCB-169	pg/g	0.735 U	0.736 U	0.938 U	0.287 U	0.750 U	0.810 U	1.90 U	1.34 U	0.699 U	0.392 U	0.252 U
PCB-170	pg/g	**189**	**39.1**	**6.63**	**23.5**	**41.7**	**73.9**	**473**	**369**	**65.9**	0.775 U	**36.6**
PCB-171	pg/g	**64.7**	**12.3**	2.13 U	**6.12**	**12.1**	**24.1**	**161**	**119**	**19.1**	0.720 U	**10.5**
PCB-172	pg/g	**41.7**	**9.7**	2.25 U	**4.27**	**9.6**	**12.8**	**95.6**	**68.7**	**14.2**	0.755 U	**7.72**
PCB-173	pg/g	**5.27**	**1.56 J**	2.35 U	0.225 U	0.522 U	**2.54 J**	**12.8**	**9.74**	1.02 U	0.759 U	0.197 U
PCB-174	pg/g	**239**	**44.6**	**8.75**	**14.7**	**43.4**	**79**	**554**	**417**	**67.2**	0.658 U	**40.8**
PCB-175	pg/g	**15.7**	**2.94 J**	2.06 U	**1.47 J**	0.482 U	**3.16 J**	**26.1**	**20.9**	**4.51**	0.710 U	**2.23 J**
PCB-176	pg/g	**47.7**	**7.3**	1.52 U	**3.39 J**	**5.56**	**12.7**	**92.7**	**68.5**	**10.3**	0.519 U	**6.35**
PCB-177	pg/g	**216**	**28.5**	**6.16**	**15.5**	**31.7**	**51.8**	**320**	**247**	**48.6**	0.767 U	**27.8**
PCB-178	pg/g	**124**	**12.6**	2.17 U	**5.89**	**11.3**	**16.8**	**123**	**89.6**	**19.9**	0.724 U	**12**
PCB-179	pg/g	**169**	**20.9**	**4.52**	**9.77**	**23.6**	**40.4**	**266**	**198**	**35.8**	0.509 U	**24.2**
PCB-180	pg/g	**417**	**116**	**18.6**	**41.8**	**84.6**	**145**	**1,300**	**1,020**	**139**	0.553 U	**80.9**
PCB-181	pg/g	0.817 U	1.15 U	2.11 U	0.221 U	0.514 U	0.562 U	2.41 U	1.86 U	1.00 U	0.682 U	0.194 U
PCB-182	pg/g	**520 C**	**81.4 C**	**12.3 C**	**31.0 C**	**71.2 C**	**98.9 C**	**726 C**	**543 C**	**106 C**	0.613 U, C	**69.9 C**
PCB-183	pg/g	**159**	**34.4**	**6.3**	**15.2**	**29.7**	**53.5**	**397**	**299**	**45.1**	0.630 U	**27.4**
PCB-184	pg/g	0.537 U	0.719 U	1.41 U	0.138 U	0.321 U	0.376 U	1.51 U	1.25 U	0.624 U	0.456 U	0.121 U
PCB-185	pg/g	**24.4**	**6.09**	2.14 U	**2.83 J**	**7.14**	**9.67**	**86.2**	**59.1**	**8.42**	0.666 U	**5.77**
PCB-186	pg/g	0.571 U	0.766 U	1.49 U	0.144 U	0.335 U	0.419 U	1.61 U	1.31 U	0.653 U	0.509 U	0.126 U
PCB-187	pg/g	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	-- U, C182	**– C182**
PCB-188	pg/g	**6.12**	0.778 U	1.62 U	0.147 U	0.349 U	0.450 U	1.71 U	1.50 U	0.742 U	0.523 U	0.133 U
PCB-189 (Dioxin-Like)	pg/g	**8.38**	**1.95 J**	1.46 U	**1.21 J**	**1.54 J**	**2.95 J**	**18.2**	**15.2**	**3.40 J**	0.475 U	**1.76 J**
PCB-190	pg/g	**45.5**	**8.32**	1.67 U	**5.96**	**9.1**	**15**	**108**	**88.7**	**18.2**	0.554 U	**7.7**
PCB-191	pg/g	**10.2**	**2.39 J**	1.60 U	**0.941 J**	**2.09 J**	**4.08**	**26.9**	**19.2**	**5.94**	0.532 U	**1.87 J**
PCB-192	pg/g	0.606 U	0.866 U	1.67 U	0.156 U	0.363 U	0.444 U	1.82 U	1.47 U	0.707 U	0.538 U	0.137 U
PCB-193	pg/g	**32.8**	**5.16**	1.57 U	**2.95 J**	**6.66**	**8.73**	**61.8**	**50.4**	**11.1**	0.510 U	**6.18**

Sample Location[1]		ST-102			ST-103	ST-104				ST-105		ST-106
Sample Identification		ST-102C_6.3-7.3	ST-102C_7.3-8.3	ST-102C_9.3-10.3	ST-103S_0-10	ST-104S_0-10	ST-104C_7.3-8.3	ST-104C_8.3-9.3	ST-104C_10.3-11.3	ST-105S_0-10	ST-105C_11-12	ST-106S_0-10
Sample Date		10/23/18	10/23/18	10/23/18	10/24/18	10/24/18	10/26/18	10/26/18	10/26/18	10/24/18	10/26/18	10/24/18
Sample Interval (dbm)		6.3-7.3 ft	7.3-8.3 ft	9.3-10.3 ft	0-10 cm	0-10 cm	7.3-8.3 ft	8.3-9.3 ft	10.3-11.3 ft	0-10 cm	11-12 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Surface/Recent	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	**140**	**43.1**	**7.54**	**12.6**	**25.6**	**38.6**	**368**	**222**	**38**	0.447 U	**21**
PCB-195	pg/g	**53.9**	**13.2**	1.88 U	**4.62**	**11.7**	**15.6**	**170**	**92.6**	**17.9**	0.461 U	**10.3**
PCB-196	pg/g	**190 C**	**58.6 C**	**9.39 C**	**16.9 C**	**38.4 C**	**57.6 C**	**423 C**	**271 C**	**51.0 C**	0.614 U, C	**29.4 C**
PCB-197	pg/g	**8.46**	**2.01 J**	1.51 U	0.236 U	**1.08 J**	1.53 U	**18.5**	**12**	0.437 U	0.414 U	**1.42 J**
PCB-198	pg/g	**14**	**3.46 J**	2.38 U	**0.939 J**	**1.69 J**	2.56 U	**21.8**	**16.1**	**2.91 J**	0.693 U	**1.78 J**
PCB-199	pg/g	**182**	**66.6**	**11.3**	**13.7**	**31.8**	42.5	**342**	**245**	**48.4**	0.572 U	**27.8**
PCB-200	pg/g	**22.2**	**6.73**	1.62 U	**2.10 J**	**4.89**	**7.88**	**51.5**	**32.8**	**5.73**	0.476 U	**5.12**
PCB-201	pg/g	**33.5**	**9.46**	1.59 U	**2.01 J**	**4.2**	**7.18**	**58**	**37.8**	**5.67**	0.456 U	**4.45**
PCB-202	pg/g	**59.7**	**17.4**	**3.66 J**	**3.51 J**	**9.37**	**10.8**	**74.5**	**54.4**	**10.2**	0.447 U	**7.68**
PCB-203	pg/g	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	-- U, C196	**– C196**
PCB-204	pg/g	0.233 U	1.30 U	1.53 U	0.265 U	0.199 U	1.74 U	1.48 U	1.27 U	0.489 U	0.471 U	0.140 U
PCB-205	pg/g	**6.45**	**1.79 J**	1.26 U	**0.820 J**	**1.68 J**	**2.03 J**	**20.7**	**14.1**	**2.03 J**	0.328 U	**1.22 J**
PCB-206	pg/g	**251**	**112**	**20.8**	**6.18**	**13.7**	**26.2**	**158**	**171**	**17.7**	0.424 U	**10.4**
PCB-207	pg/g	**26.7**	**11.3**	1.65 U	**0.931 J**	**1.70 J**	**3.60 J**	**25.3**	**23.9**	**2.70 J**	0.337 U	**1.93 J**
PCB-208	pg/g	**92.8**	**42.1**	**9.98**	**2.10 J**	**4.3**	**8.05**	**40**	**52**	**4.92**	0.300 U	**3.27 J**
PCB-209	pg/g	**334**	**159**	**26.4**	**2.51 J**	**5.1**	**20.9**	**80.6**	**222**	**11.6**	0.440 U	**3.90 J**
Total PCBs Congeners	pg/g	**17,500 J**	**4,590 J**	**644 J**	**1,400 J**	**1,880 J**	**7,070 J**	**39,200 J**	**27,800 J**	**3,040 J**	**38.7 J**	**1,780 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**2.98 J**	**7.13**	**4.86**	**1.68 J**	**1.93 J**	0.495 U	**4.5**	**86.2**	**2.28 J**	**22.7**	**5.69**
PCB-002	pg/g	**2.67 J**	**2.45 J**	**2.39 J**	**0.735 J**	**1.67 J**	**0.903 J**	**1.53 J**	**38.3**	1.34 U	**3.30 J**	**12.6**
PCB-003	pg/g	**3.58 J**	**5.01**	**4.82**	**1.49 J**	**2.34 J**	0.597 U	**4.65**	**159**	**3.56 J**	**12.2**	**12.7**
PCB-004	pg/g	**8.11**	**15.9**	**8.36**	2.18 U	6.09	3.13 U	**7.62**	**33.9**	**3.17 J**	**44.4**	2.94 U
PCB-005	pg/g	2.65 U	1.69 U	2.12 U	1.78 U	2.06 U	2.91 U	0.648 U	3.01 U	0.654 U	2.11 U	2.61 U
PCB-006	pg/g	**8.57**	**8.75**	**5**	1.84 U	2.05 U	2.90 U	**5.73**	**48.1**	0.684 U	**51.6**	2.60 U
PCB-007	pg/g	2.62 U	1.70 U	**2.59 J**	1.75 U	2.04 U	2.88 U	**2.00 J**	**23.7**	0.655 U	**12.1**	2.58 U
PCB-008	pg/g	**16.1**	**23.3**	**26.2**	**10.9**	**12.2**	2.93 U	**24.2**	**148**	**6.75**	**258**	2.63 U
PCB-009	pg/g	2.58 U	1.76 U	2.08 U	1.83 U	2.01 U	2.83 U	**1.26 J**	**23.6**	0.681 U	**10.8**	2.54 U
PCB-010	pg/g	2.98 U	1.75 U	2.47 U	2.11 U	2.32 U	3.27 U	**1.40 J**	3.38 U	0.675 U	**4.1**	2.93 U
PCB-011	pg/g	**11.7**	**14.1**	**11.8**	**6.35**	**11.1**	3.03 U	**4.35**	**48.5**	**54.9**	**7.73**	2.71 U
PCB-012	pg/g	2.58 U	1.85 U	2.14 U	1.83 U	2.01 U	2.83 U	**1.31 J**	**23.8**	0.716 U	**5.84**	2.54 U
PCB-013	pg/g	2.67 U	1.91 U	**2.25 J**	1.88 U	2.08 U	2.93 U	**1.28 J**	17.9	0.736 U	5.86	2.63 U
PCB-014	pg/g	2.74 U	1.85 U	2.05 U	1.88 U	2.13 U	3.01 U	0.685 U	3.11 U	0.715 U	2.23 U	2.70 U
PCB-015	pg/g	**16.3**	**18.2**	**17.4**	**4.99**	**7.34**	2.73 U	**9.41**	**197**	**8.52**	**77.3**	2.34 U
PCB-016	pg/g	**9.55**	**14.8**	**16.5**	**5.18**	**5.27**	1.19 U	**11**	**63.8**	**2.23 J**	**104**	0.677 U
PCB-017	pg/g	**11.1**	**15.9**	**21.1**	**7.33**	**8.12**	1.31 U	**18.4**	**111**	1.34 U	**113**	0.748 U
PCB-018	pg/g	**25.1**	**34.5**	**49.3**	**13.8**	**19.9**	1.41 U	**42.4**	**267**	**7.78**	**269**	0.802 U
PCB-019	pg/g	1.49 U	**5.4**	**6.95**	1.05 U	1.88 U	1.41 U	**4.46**	**25.5**	1.46 U	**22.1**	0.802 U
PCB-020	pg/g	**24.3 C**	**27.5 C**	**31.2 C**	**15.7 C**	**11.9 C**	0.633 U, C	**35.6 C**	**280 C**	**9.88 C**	**298 C**	**6.75 C**
PCB-021	pg/g	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	-- U, C020	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**
PCB-022	pg/g	**19.5**	**17.7**	**21.8**	**8.66**	**8**	0.635 U	**18.1**	**179**	**6.22**	**117**	1.71 U
PCB-023	pg/g	2.25 U	1.80 U	2.24 U	0.896 U	1.22 U	0.719 U	0.798 U	3.83 U	0.905 U	1.66 U	1.94 U
PCB-024	pg/g	1.04 U	1.69 U	1.64 U	0.749 U	1.32 U	0.987 U	**2.63 J**	**9.23**	0.996 U	**12.6**	0.562 U
PCB-025	pg/g	**4.4**	**4.97**	**5.65**	0.752 U	**1.85 J**	0.554 U	0.670 U	**31.9**	**1.69 J**	**34.2**	1.49 U

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	**9.45**	**8.79**	**11.9**	**7.02**	**4.72**	0.692 U	**10.7**	**81.2**	**2.81 J**	**84.1**	1.86 U
PCB-027	pg/g	0.997 U	1.64 U	1.60 U	0.749 U	1.26 U	0.943 U	**1.37 J**	**10.2**	0.967 U	**10.3**	0.537 U
PCB-028	pg/g	**50.9**	**46.2**	**54.8**	**26.8**	**22.9**	**2.17 J**	**50.5**	**525**	**14.2**	**233**	**7.52**
PCB-029	pg/g	2.12 U	1.74 U	2.06 U	0.898 U	1.16 U	0.679 U	0.800 U	3.61 U	0.874 U	1.67 U	1.83 U
PCB-030	pg/g	1.05 U	1.63 U	1.55 U	0.732 U	1.32 U	0.992 U	0.591 U	1.57 U	0.962 U	0.848 U	0.565 U
PCB-031	pg/g	**44.1**	**43.1**	**48.7**	**25.2**	**22.2**	**2.25 J**	**52.3**	**529**	**13.6**	**654**	**7.48**
PCB-032	pg/g	**10.2**	**10.2**	**16.8**	**5.37**	**6.81**	1.09 U	**14.6**	**88.1**	**2.47 J**	**68.8**	0.623 U
PCB-033	pg/g	**– C020**	**– C020**	**– C020**	**– C020**	**– C020**	– U, C020	**– C020**	**– C020**	**– C020**	**– C020**	**– C020**
PCB-034	pg/g	2.12 U	1.81 U	2.17 U	0.992 U	1.15 U	0.678 U	0.884 U	3.61 U	0.911 U	1.84 U	1.83 U
PCB-035	pg/g	2.20 U	1.96 U	2.13 U	0.975 U	1.20 U	0.702 U	0.868 U	3.73 U	0.986 U	1.81 U	1.89 U
PCB-036	pg/g	2.16 U	1.81 U	1.97 U	0.967 U	1.18 U	0.692 U	0.861 U	3.68 U	0.909 U	1.79 U	1.86 U
PCB-037	pg/g	**14**	**18.6**	**24**	**6.78**	**6.95**	0.594 U	**9.93**	**120**	**6.61**	**89.4**	1.60 U
PCB-038	pg/g	2.02 U	1.79 U	1.98 U	0.886 U	1.10 U	0.646 U	0.789 U	3.44 U	0.898 U	1.64 U	1.74 U
PCB-039	pg/g	2.08 U	1.82 U	1.96 U	0.898 U	1.13 U	0.663 U	0.800 U	3.53 U	0.914 U	1.67 U	1.79 U
PCB-040	pg/g	**5.48**	**8.46**	**15.1**	**6.66**	**5.73**	0.285 U	**7.21**	**5.49**	1.04 U	**45.8**	1.04 U
PCB-041	pg/g	**21.0 C**	**45.3 C**	**78.4 C**	**32.2 C**	**25.0 C**	0.167 U, C	**32.3 C**	**372 C**	**9.58 C**	**239 C**	**2.82 J, C**
PCB-042	pg/g	**9.46 C**	**21.8 C**	**30.1 C**	**10.9 C**	**8.87 C**	0.183 U, C	**12.0 C**	**123 C**	**3.41 J, C**	**73.9 C**	0.663 U, C
PCB-043	pg/g	**33.5 C**	**67.2 C**	**105 C**	**47.3 C**	**26.1 C**	**0.983 J, C**	**41.6 C**	**486 C**	**11.1 C**	**295 C**	**3.35 J, C**
PCB-044	pg/g	**27.3**	**60.3**	**117**	**49.7**	**30.7**	0.241 U	**41.6**	**570**	**15.4**	**410**	**4.04**
PCB-045	pg/g	**6.52**	**9.2**	**13.4**	**4.91**	**3.82 J**	0.258 U	**8.6**	**73.5**	**1.90 J**	**42.7**	0.938 U
PCB-046	pg/g	**3.87 J**	**7.18**	**6.84**	**2.41 J**	**2.17 J**	0.262 U	**3.41 J**	**28.6**	0.944 U	**16.7**	0.951 U
PCB-047	pg/g	**13**	**33.1**	**38.1**	**14.7**	**7.68**	**1.10 J**	**12**	**114**	**4.88**	**80.8**	0.614 U
PCB-048	pg/g	**5.28 C**	**8.71 C**	**15.2 C**	**5.48 C**	**5.88 C**	0.189 U, C	**7.28 C**	**111 C**	**3.14 J, C**	**39.0 C**	0.684 U, C
PCB-049	pg/g	**– C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– J, C043**	**– C043**	**– C043**	**– C043**	**– C043**	**– J, C043**
PCB-050	pg/g	0.705 U	1.81 U	1.81 U	0.448 U	0.605 U	0.237 U	0.353 U	1.80 U	0.789 U	1.24 U	0.858 U
PCB-051	pg/g	**2.70 J**	**5.22**	**7.93**	**2.94 J**	**1.79 J**	0.218 U	**2.83 J**	**23.2**	0.772 U	**9.63**	0.791 U
PCB-052	pg/g	**48.3 C**	**107 C**	**190 C**	**106 C**	**41.9 C**	**1.55 J, C**	**72.6 C**	**943 C**	**29.7 C**	**653 C**	**5.34 C**
PCB-053	pg/g	**7.74**	**15.4**	**19**	**7.2**	**4.17**	0.226 U	**10.4**	**74.2**	**2.11 J**	**53.3**	0.819 U
PCB-054	pg/g	0.498 U	1.36 U	1.49 U	0.323 U	0.427 U	0.167 U	0.255 U	1.27 U	0.593 U	0.896 U	0.606 U
PCB-055	pg/g	**1.90 J**	**3.96 J**	1.35 U	**4.41**	0.386 U	0.151 U	**1.70 J**	**17.4**	0.615 U	**11.3**	0.547 U
PCB-056	pg/g	**26.7 C**	**38.7 C**	**47.4 C**	**38.8 C**	**21.9 C**	0.393 U, C	**32.1 C**	**505 C**	**11.5 C**	**253 C**	**3.64 J, C**
PCB-057	pg/g	0.490 U	1.37 U	1.39 U	0.333 U	0.420 U	0.164 U	0.262 U	**3.60 J**	0.599 U	0.923 U	0.596 U
PCB-058	pg/g	0.477 U	1.43 U	1.37 U	0.334 U	0.409 U	0.160 U	0.263 U	**2.59 J**	0.623 U	0.925 U	0.580 U
PCB-059	pg/g	**– C042**	**– C042**	**– C042**	**– C042**	**– C042**	– U, C042	**– C042**	**– C042**	**– J, C042**	**– C042**	– U, C042
PCB-060	pg/g	**– C056**	**– C056**	**– C056**	**– C056**	**– C056**	– U, C056	**– C056**	**– C056**	**– C056**	**– C056**	**– J, C056**
PCB-061	pg/g	**52.2 C**	**105 C**	**154 C**	**147 C**	**37.9 C**	**1.09 J, C**	**81.1 C**	**980 C**	**36.1 C**	**808 C**	**5.13 C**
PCB-062	pg/g	0.527 U	1.53 U	1.54 U	0.347 U	0.452 U	0.177 U	0.273 U	1.34 U	0.667 U	0.962 U	0.641 U
PCB-063	pg/g	**1.85 J**	**3.14 J**	**4.73**	**2.77 J**	**1.18 J**	0.163 U	**2.83 J**	**30.9**	0.603 U	**17.1**	0.592 U
PCB-064	pg/g	**– C041**	**– C041**	**– C041**	**– C041**	**– C041**	– U, C041	**– C041**	**– C041**	**– C041**	**– C041**	**– J, C041**
PCB-065	pg/g	0.508 U	1.37 U	1.37 U	0.337 U	0.436 U	0.170 U	0.266 U	1.29 U	0.597 U	0.935 U	0.618 U
PCB-066	pg/g	**48.8 C**	**81.4 C**	**100 C**	**105 C**	**30.9 C**	**1.04 J, C**	**59.0 C**	**701 C**	**20.2 C**	**475 C**	**4.84 C**
PCB-067	pg/g	**1.93 J**	**3.14 J**	**3.48 J**	**1.64 J**	**1.03 J**	0.160 U	**2.21 J**	**18**	0.623 U	**8.82**	0.580 U

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	0.449 U	1.28 U	1.24 U	0.300 U	0.385 U	0.151 U	0.237 U	1.14 U	0.559 U	0.833 U	0.547 U
PCB-069	pg/g	– C052	– C052	– C052	– C052	– C052	– J, C052	– C052	– C052	– C052	– C052	– C052
PCB-070	pg/g	– C061	– C061	– C061	– C061	– C061	– J, C061	– C061	– C061	– C061	– C061	– C061
PCB-071	pg/g	– C041	– C041	– C041	– C041	– C041	-- U, C041	– C041	– C041	– C041	– C041	– J, C041
PCB-072	pg/g	– C041	– C041	– C041	– C041	– C041	-- U, C041	– C041	– C041	– C041	– C041	– J, C041
PCB-073	pg/g	0.506 U	1.38 U	1.48 U	0.341 U	0.434 U	0.170 U	0.268 U	1.29 U	0.603 U	0.945 U	0.616 U
PCB-074	pg/g	22.1	33.2	45.7	38.1	15.7	0.149 U	30.1	387	11.3	262	2.44 J
PCB-075	pg/g	– C048	– C048	– C048	– C048	– C048	-- U, C048	– C048	– C048	– J, C048	– C048	-- U, C048
PCB-076	pg/g	– C066	– C066	– C066	– C066	– C066	– J, C066	– C066	– C066	– C066	– C066	– C066
PCB-077 (Dioxin-Like)	pg/g	7.71	10.4	13.7	20.9	2.69 J	0.406 U	4.2	52.3	1.62 J	23.7	0.861 U
PCB-078	pg/g	0.792 U	1.35 U	1.87 U	0.751 U	0.393 U	0.391 U	0.434 U	1.40 U	0.643 U	3.82 J	0.899 U
PCB-079	pg/g	2.87 J	3.84 J	4.68	5.6	1.02 J	0.389 U	1.64 J	17.8	0.621 U	11.5	0.895 U
PCB-080	pg/g	0.408 U	1.21 U	1.16 U	0.281 U	0.350 U	0.137 U	0.222 U	1.04 U	0.528 U	0.781 U	0.497 U
PCB-081 (Dioxin-Like)	pg/g	2.18 J	3.16 J	4.48	8.3	1.26 J	0.352 U	2.60 J	32.4	1.09 J	24.9	0.879 U
PCB-082	pg/g	18	22.1	26.2	87.9	10.4	1.11 U	19.8	241	6.99	262	1.78 U
PCB-083	pg/g	8.28 C	9.11 C	11.9 C	33.3 C	3.45 J, C	0.821 U, C	6.80 C	81.0 C	2.27 J, C	82.6 C	1.32 U, C
PCB-084	pg/g	82.9 C	76.9 C	116 C	311 C	32.4 C	0.987 U, C	70.9 C	839 C	17.6 C	888 C	4.58 C
PCB-085	pg/g	23.0 C	30.4 C	35.0 C	92.0 C	12.8 C	0.770 U, C	25.9 C	301 C	68.5 C	296 C	1.24 U, C
PCB-086	pg/g	0.934 U	1.86 U	2.12 U	0.740 U	0.757 U	0.895 U	0.672 U	2.06 U	1.03 U	0.533 U	1.44 U
PCB-087	pg/g	50.9 C	64.2 C	90.2 C	280 C	28.9 C	0.720 U, C	65.5 C	788 C	21.3 C	883 C	3.84 J, C
PCB-088	pg/g	35.0 C	54.4 C	62.6 C	121 C	9.26 C	0.642 U, C	32.9 C	237 C	7.73 C	290 C	0.409 U, C
PCB-089	pg/g	2.15 J	2.66 J	3.36 J	7.22	1.24 J	0.981 U	1.69 J	25	1.11 U	18.8	1.58 U
PCB-090	pg/g	181 C	195 C	264 C	706 C	77.4 C	2.17 J, C	203 C	2580 C	50.7 C	2,570 C	13.9 C
PCB-091	pg/g	– C088	– C088	– C088	– C088	– C088	– U, C088	– C088	– C088	– C088	– C088	-- U, C088
PCB-092	pg/g	– C084	– C084	– C084	– C084	– C084	– U, C084	– C084	– C084	– C084	– C084	– C084
PCB-093	pg/g	1.13 U	1.40 U	2.50 U	0.347 U	0.512 U	0.730 U	0.387 U	2.02 U	1.60 U	0.360 U	0.465 U
PCB-094	pg/g	1.16 U	1.39 U	4.49	3.80 J	0.527 U	0.751 U	0.406 U	10.5	1.58 U	8.44	0.478 U
PCB-095	pg/g	180	252	391	753	61.4	0.680 U	227	2,120	60	2,600	12.5
PCB-096	pg/g	0.828 U	0.954 U	4.07	2.30 J	0.376 U	0.536 U	1.20 J	12.2	1.09 U	6.23	0.341 U
PCB-097	pg/g	37.3	61.6	81.6	175	19.7	0.758 U	40.5	480	15.2	522	3.19 J
PCB-098	pg/g	0.947 U, C	1.27 U, C	2.36 U, C	0.309 U, C	0.430 U, C	0.613 U, C	0.344 U, C	1.70 U, C	1.45 U, C	0.320 U, C	0.391 U, C
PCB-099	pg/g	94.1	102	112	272	26.7	0.709 U	71.2	711	19.2	770	3.61 J
PCB-100	pg/g	0.966 U	5.49	3.49 J	2.52 J	0.439 U	0.625 U	1.44 J	6.5	1.29 U	6.01	0.398 U
PCB-101	pg/g	– C090	– C090	– C090	– C090	– C090	– J, C090	– C090	– C090	– C090	– C090	– C090
PCB-102	pg/g	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	7.4	9.55	4.03	4.44	0.449 U	0.640 U	2.15 J	9.88	1.30 U	9.54	0.407 U
PCB-104	pg/g	0.745 U	0.890 U	1.56 U	0.234 U	0.338 U	0.482 U	0.261 U	1.33 U	1.02 U	0.243 U	0.307 U
PCB-105 (Dioxin-Like)	pg/g	51.2	71.4	107	140	28.7	0.521 U	54.2	773	26.9	711	3.57 J
PCB-106	pg/g	137 C	202 C	287 C	418 C	65.2 C	1.67 J, C	137 C	1,860 C	63.6 C	1,800 C	8.65 C
PCB-107	pg/g	12.1 C	15.4 C	22.6 C	28.8 C	4.86 C	0.496 U, C	9.69 C	107 C	4.11 C	114 C	1.03 U, C
PCB-108	pg/g	-- C107	– C107	– C107	– C107	– C107	-- U, C107	– C107	– C107	– C107	– C107	-- U, C107
PCB-109	pg/g	0.674 U	1.41 U	1.73 U	0.627 U	0.546 U	0.646 U	0.569 U	1.49 U	0.783 U	0.451 U	1.04 U

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	**165**	**209**	**261**	**708**	**69.6**	**1.66 J**	**165**	**1,910**	**57.4**	**2,130**	**8.5**
PCB-111	pg/g	**2.62 J, C**	**2.94 J, C**	**4.76 C**	**14.4 C**	**1.29 J, C**	0.548 U, C	**2.67 J, C**	**42.3 C**	**1.49 J, C**	**47.9 C**	0.881 U, C
PCB-112	pg/g	**– C083**	**– C083**	**– C083**	**– C083**	**– J, C083**	– U, C083	**– C083**	**– C083**	**– J, C083**	**– C083**	– U, C083
PCB-113	pg/g	0.787 U	1.40 U	1.80 U	0.654 U	0.637 U	**0.753 U**	**0.594 U**	1.74 U	0.775 U	0.471 U	1.21 U
PCB-114 (Dioxin-Like)	pg/g	**3.40 J**	**6.11**	**6.97**	**8.56**	**2.67 J**	0.511 U	**3.78 J**	**58.8**	**1.87 J**	**51.6**	1.02 U
PCB-115	pg/g	**– J, C111**	**– J, C111**	**– C111**	**– C111**	**– J, C111**	– U, C111	**– J, C111**	**– C111**	**– J, C111**	**– C111**	– U, C111
PCB-116	pg/g	**– C085**	**– C085**	**– C085**	**– C085**	**– C085**	– U, C085	**– C085**	**– C085**	**– C085**	**– C085**	– U, C085
PCB-117	pg/g	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	– U, C087	**– C087**	**– C087**	**– C087**	**– C087**	– J, C087
PCB-118 (Dioxin-Like)	pg/g	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– J, C106**	**– C106**	**– C106**	**– C106**	**– C106**	– C106
PCB-119	pg/g	**7.6**	**5.93**	**7.68**	**11.2**	**1.70 J**	0.634 U	**3.54 J**	**31.9**	0.737 U	**29.3**	1.02 U
PCB-120	pg/g	0.637 U	1.29 U	1.56 U	0.570 U	0.516 U	0.610 U	0.517 U	9.15	0.715 U	8.21	0.981 U
PCB-121	pg/g	0.848 U	1.06 U	1.97 U	0.258 U	0.385 U	0.549 U	0.287 U	1.52 U	1.20 U	0.267 U	0.350 U
PCB-122	pg/g	**1.58 J**	**3.58 J**	**5.39**	**6**	**1.21 J**	0.507 U	0.634 U	**25.6**	**1.13 J**	**23.3**	1.05 U
PCB-123 (Dioxin-Like)	pg/g	**2.89 J**	**4.86**	**5.51**	**6.28**	**1.26 J**	0.472 U	**1.87 J**	**32.2**	**1.15 J**	**21.3**	0.951 U
PCB-124	pg/g	**9.81**	**10.2**	**14.1**	**25.2**	**3.20 J**	0.553 U	**8.26**	**96.1**	**3.53 J**	**100**	1.14 U
PCB-125	pg/g	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**	– U, C087	**– C087**	**– C087**	**– C087**	**– C087**	**– J, C087**
PCB-126 (Dioxin-Like)	pg/g	**1.82 J**	**2.55 J**	**3.04 J**	**3.18 J**	0.970 U	0.598 U	**1.13 J**	**9.56**	0.708 U	**8.32**	1.12 U
PCB-127	pg/g	1.16 U	1.93 U	1.56 U	1.15 U	1.01 U	0.549 U	0.669 U	2.79 U	0.685 U	**4.69**	1.14 U
PCB-128	pg/g	**40.5 C**	**55.4 C**	**75.2 C**	**54.0 C**	**13.7 C**	0.378 U, C	**42.8 C**	**379 C**	**12.9 C**	**517 C**	0.860 U, C
PCB-129	pg/g	**12.6**	**16.2**	**20.7**	**19.1**	**4.69**	0.521 U	**12.9**	**125**	**4**	**157**	1.19 U
PCB-130	pg/g	**16.2**	**21.6**	**31.7**	**27.4**	**5.03**	0.484 U	**23**	**170**	**4.57**	**199**	1.10 U
PCB-131	pg/g	**9.16 C**	**10.8 C**	**17.7 C**	**13.5 C**	**2.78 J, C**	0.444 U, C	**8.72 C**	**71.5 C**	**2.30 J, C**	**97.6 C**	1.01 U, C
PCB-132	pg/g	**71.4 C**	**91.5 C**	**140 C**	**131 C**	**24.5 C**	0.400 U, C	**117 C**	**872 C**	**21.8 C**	**1,000 C**	5.21 C
PCB-133	pg/g	**– C131**	**– C131**	**– C131**	**– C131**	**– J, C131**	– U, C131	**– C131**	**– C131**	**– J, C131**	**– C131**	– U, C131
PCB-134	pg/g	**15.9 C**	**18.4 C**	**27.3 C**	**27.1 C**	**5.00 C**	0.444 U, C	**15.9 C**	**152 C**	**4.04 C**	**174 C**	1.01 U, C
PCB-135	pg/g	**52.1**	**43.8**	**56.8**	**57.9**	**10.7**	0.480 U	**50.4**	**466**	**9.06**	**525**	1.09 U
PCB-136	pg/g	**46.7**	**53**	**63.8**	**62.3**	**12.7**	0.123 U	**60.2**	**478**	**12.5**	**602**	**1.86 J**
PCB-137	pg/g	**13.8**	**17.6**	**22.9**	**21.4**	**4.43**	0.455 U	**10.5**	**95.5**	**4.19**	**146**	1.04 U
PCB-138	pg/g	**259 C**	**318 C**	**452 C**	**320 C**	**84.1 C**	**1.57 J, C**	**358 C**	**2,920 C**	**78.4 C**	**3,640 C**	**13.6 C**
PCB-139	pg/g	**296 C**	**290 C**	**373 C**	**311 C**	**69.7 C**	**1.84 J, C**	**351 C**	**2,670 C**	**55.6 C**	**3,460 C**	**11.8 C**
PCB-140	pg/g	**4.39**	2.01 U	**3.47 J**	**3.04 J**	0.524 U	0.406 U	0.678 U	2.11 U	0.720 U	0.456 U	0.924 U
PCB-141	pg/g	**58**	**58.2**	**86.1**	**66.1**	**19.7**	0.432 U	**95.5**	**836**	**17**	**1,130**	**4.27**
PCB-142	pg/g	1.07 U	2.47 U	2.67 U	0.608 U	0.656 U	0.508 U	0.835 U	2.64 U	0.885 U	0.561 U	1.16 U
PCB-143	pg/g	**– C134**	**– C134**	**– C134**	**– C134**	**– C134**	– U, C134	**– C134**	**– C134**	**– C134**	**– C134**	– U, C134
PCB-144	pg/g	**17.4**	**12.8**	**24.1**	**21.2**	**5.73**	0.386 U	**35.7**	**196**	**4.43**	**372**	0.879 U
PCB-145	pg/g	0.297 U	1.64 U	1.32 U	0.109 U	0.215 U	0.113 U	0.124 U	0.939 U	0.651 U	**1.06 J**	0.237 U
PCB-146	pg/g	**55.4 C**	**45.5 C**	**65.8 C**	**46.5 C**	**11.1 C**	0.362 U, C	**49.9 C**	**388 C**	**9.24 C**	**521 C**	0.823 U, C
PCB-147	pg/g	**12.2**	**15.7**	**12.9**	**10.6**	**1.84 J**	0.426 U	**6.1**	**39.2**	**1.50 J**	**41**	0.970 U
PCB-148	pg/g	**2.10 J**	2.09 U	1.94 U	0.167 U	0.279 U	0.148 U	0.190 U	**8.5**	0.832 U	0.168 U	0.308 U
PCB-149	pg/g	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– J, C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**
PCB-150	pg/g	**2.43 J**	**4.94**	1.28 U	0.107 U	0.212 U	0.112 U	**1.13 J**	0.929 U	0.623 U	**3.79 J**	0.234 U
PCB-151	pg/g	**108**	**94.6**	**118**	**87.7**	**22.3**	0.448 U	**116**	**944**	**17.8**	**1,290**	**4.31**

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.308 U	1.60 U	1.32 U	0.111 U	0.223 U	0.118 U	0.126 U	0.976 U	0.637 U	**2.36 J**	0.246 U
PCB-153	pg/g	**337**	**316**	**443**	**292**	**85.1**	**2.06 J**	**399**	**3,100**	**68.2**	**4,670**	**13.3**
PCB-154	pg/g	10.6	12.2	5.42	4.31	0.246 U	0.130 U	**2.79 J**	**13.8**	0.742 U	**22.6**	0.271 U
PCB-155	pg/g	0.286 U	1.43 U	1.16 U	0.101 U	0.207 U	0.109 U	0.115 U	0.905 U	0.567 U	0.102 U	0.228 U
PCB-156 (Dioxin-Like)	pg/g	**20.2**	**26.9**	**44.6**	**22.7**	**9.02**	0.353 U	**34.9**	**283**	**9.67**	**436**	**1.99 J**
PCB-157 (Dioxin-Like)	pg/g	**5.89**	**8.1**	**10.9**	**6.33**	**2.10 J**	0.348 U	**5.46**	**46.8**	**1.95 J**	**64.6**	0.778 U
PCB-158	pg/g	**29.1 C**	**35.5 C**	**52.3 C**	**43.2 C**	**11.8 C**	0.319 U, C	**47.3 C**	**388 C**	**10.1 C**	**543 C**	**2.35 J, C**
PCB-159	pg/g	**8.16**	**9.48**	**6.43**	**1.66 J**	**1.56 J**	0.315 U	**5.85**	**44.4**	**1.25 J**	**97.9**	0.716 U
PCB-160	pg/g	**– C158**	**– C158**	**– C158**	**– C158**	**– C158**	– U, C158	**– C158**	**– C158**	**– C158**	**– C158**	**– J, C158**
PCB-161	pg/g	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**	– U, C132	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**
PCB-162	pg/g	**– C128**	**– C128**	**– C128**	**– C128**	**– C128**	– U, C128	**– C128**	**– C128**	**– C128**	**– C128**	– U, C128
PCB-163	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– J, C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**
PCB-164	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– J, C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**
PCB-165	pg/g	**– C146**	**– C146**	**– C146**	**– C146**	**– C146**	– U, C146	**– C146**	**– C146**	**– C146**	**– C146**	– U, C146
PCB-166	pg/g	0.683 U	1.71 U	1.76 U	1.99 J	0.418 U	0.324 U	0.588 U	**7.02**	0.613 U	**12.4**	0.737 U
PCB-167 (Dioxin-Like)	pg/g	**11.2**	**13.6**	**22**	**13.6**	**3.72 J**	0.348 U	**13.4**	**112**	**3.57 J**	**186**	0.820 U
PCB-168	pg/g	0.672 U	1.68 U	1.80 U	**1.34 J**	0.412 U	0.319 U	0.553 U	1.66 U	0.602 U	0.372 U	0.726 U
PCB-169	pg/g	0.622 U	1.73 U	1.52 U	0.382 U	0.371 U	0.295 U	0.577 U	1.66 U	0.550 U	0.318 U	0.696 U
PCB-170	pg/g	**87.9**	**126**	**132**	**49.4**	**22.8**	0.404 U	**175**	**1,060**	**19.6**	**2,240**	**5.07**
PCB-171	pg/g	**29.1**	**49.8**	**39.1**	**16.7**	**7.22**	0.376 U	**62.4**	**342**	**4.79**	**804**	**1.96 J**
PCB-172	pg/g	**17.9**	**24**	**22.2**	**9.75**	**5.11**	0.393 U	**36.4**	**190**	**4.06**	**473**	0.544 U
PCB-173	pg/g	**2.30 J**	2.22 U	3.30 U	**1.63 J**	0.551 U	0.396 U	0.353 U	**31.3**	1.03 U	**57.5**	0.547 U
PCB-174	pg/g	**120**	**256**	**141**	**46.2**	**27.4**	0.343 U	**154**	**1,090**	**18**	**2,400**	**4.97**
PCB-175	pg/g	**4.45**	**7.71**	**7.6**	**2.74 J**	**1.46 J**	0.370 U	**11.6**	**56.6**	**1.29 J**	**178**	0.512 U
PCB-176	pg/g	**19.1**	**31.2**	**19.8**	**7.47**	**4.03**	0.270 U	**31.7**	**171**	**3.40 J**	**479**	0.374 U
PCB-177	pg/g	**74.4**	**138**	**86.1**	**33.7**	**15.2**	0.400 U	**106**	**699**	**11.1**	**1,310**	**3.44 J**
PCB-178	pg/g	**39.5**	**46.9**	**33**	**12.9**	**5.69**	0.377 U	**39.4**	**219**	**4.25**	**619**	**0.522 U**
PCB-179	pg/g	**84.1**	**101**	**62.5**	**26.7**	**13.2**	0.266 U	**78.7**	**497**	**8.81**	**1,250**	**2.95 J**
PCB-180	pg/g	**231**	**371**	**333**	**94**	**50.2**	0.288 U	**336**	**1,970**	**43.1**	**5,460**	**10.7**
PCB-181	pg/g	0.578 U	2.14 U	2.96 U	0.228 U	0.494 U	0.355 U	0.348 U	2.22 U	0.989 U	1.13 U	0.491 U
PCB-182	pg/g	**227 C**	**297 C**	**179 C**	**81.1 C**	**36.5 C**	0.320 U, C	**214 C**	**1,240 C**	**22.6 C**	**3,750 C**	**6.91 C**
PCB-183	pg/g	**81.8**	**115**	**86.3**	**32.2**	**18.4**	**1.86 J**	**130**	**713**	**13.8**	**2,040**	**4.34**
PCB-184	pg/g	0.387 U	1.34 U	1.98 U	0.142 U	0.331 U	0.238 U	0.217 U	1.49 U	0.620 U	0.703 U	0.329 U
PCB-185	pg/g	**20.9**	**27.3**	**17.7**	**6.24**	**3.96 J**	0.347 U	**24.2**	**135**	**2.96 J**	**486**	0.480 U
PCB-186	pg/g	0.432 U	1.43 U	2.08 U	0.149 U	0.369 U	0.265 U	0.227 U	1.66 U	0.661 U	0.736 U	0.367 U
PCB-187	pg/g	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**	– U, C182	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**
PCB-188	pg/g	**1.96 J**	1.53 U	2.17 U	0.155 U	0.396 U	0.288 U	0.218 U	1.50 U	0.712 U	0.755 U	0.330 U
PCB-189 (Dioxin-Like)	pg/g	**3.02 J**	**3.72 J**	**5.42**	**1.83 J**	**1.15 J**	0.231 U	**7.77**	**39.5**	0.628 U	**95.2**	0.401 U
PCB-190	pg/g	**25.1**	**29.1**	**29.8**	**10.9**	**4.81**	0.289 U	**41.6**	**205**	**4.07**	**652**	0.399 U
PCB-191	pg/g	**5.35**	**7.2**	**6.12**	**2.64 J**	**1.53 J**	0.277 U	**11**	**49.1**	**1.46 J**	**148**	0.384 U
PCB-192	pg/g	0.457 U	1.61 U	2.34 U	0.161 U	0.390 U	0.281 U	0.246 U	1.76 U	0.747 U	0.797 U	0.388 U
PCB-193	pg/g	**16.1**	**18.9**	**17.2**	**5.59**	**2.57 J**	0.266 U	**24.3**	**125**	**2.67 J**	**334**	0.368 U

Sample Location[1]		ST-106			ST-107			ST-108			ST-109	
Sample Identification		ST-106C_3.1-4.1	ST-106C_4.1-5.1	ST-106C_6.1-7.1	ST-107S_0-10	ST-107C_4.2-5.2	ST-107C_9.3-10.3	ST-108S_0-10	ST-108C_6.6-7.6	ST-108C_8.6-9.6	ST-109S_0-10	ST-109C_8.3-9.3
Sample Date		10/26/18	10/26/18	10/26/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18	10/25/18	10/24/18	10/25/18
Sample Interval (dbm)		3.1-4.1 ft	4.1-5.1 ft	6.1-7.1 ft	0-10 cm	4.2-5.2 ft	9.3-10.3 ft	0-10 cm	6.6-7.6 ft	8.6-9.6 ft	0-10 cm	8.3-9.3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	**83.9**	**243**	**78.5**	**23.1**	**14.3**	0.558 U	**98**	**476**	**8.2**	**2,000**	**4.08**
PCB-195	pg/g	**36.4**	**187**	**32.2**	**9.13**	**5.34**	0.575 U	**41.1**	**195**	**4.12**	**883**	1.20 U
PCB-196	pg/g	**125 C**	**405 C**	**91.4 C**	**30.7 C**	**20.7 C**	0.243 U, C	**136 C**	**549 C**	**8.78 C**	**2,900 C**	**5.90 C**
PCB-197	pg/g	**3.59 J**	**21.1**	**4.34**	**0.945 J**	**1.06 J**	0.164 U	**5.61**	**24.6**	0.711 U	**117**	1.05 U
PCB-198	pg/g	**5.64**	**20.1**	**7.71**	**1.28 J**	**1.74 J**	0.274 U	**6.47**	**32.8**	1.06 U	**168**	1.77 U
PCB-199	pg/g	**110**	**494**	**93.5**	**29.9**	**18.4**	0.226 U	**89**	**453**	**10**	**2,090**	**7.35**
PCB-200	pg/g	**17.2**	**86.5**	**12.4**	**4.56**	**2.74 J**	0.188 U	**13.9**	**74**	0.764 U	**338**	1.21 U
PCB-201	pg/g	**16.6**	**67.3**	**13.2**	**4.4**	**3.71 J**	0.180 U	**16.3**	**69.5**	0.754 U	**364**	1.16 U
PCB-202	pg/g	**27.3**	**90.2**	**18.2**	**6.83**	**5.07**	0.177 U	**17.8**	**95.3**	**2.69 J**	**462**	1.14 U
PCB-203	pg/g	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**	-- U, C196	**– C196**	**– C196**	**– C196**	**– C196**	**– C196**
PCB-204	pg/g	0.162 U	1.05 U	1.99 U	0.110 U	0.241 U	0.186 U	0.121 U	1.59 U	0.763 U	0.188 U	1.20 U
PCB-205	pg/g	**4.69**	**11.5**	**4.29**	**1.48 J**	**0.571 U**	0.410 U	**6.38**	**20.4**	0.460 U	**126**	0.857 U
PCB-206	pg/g	**75**	**334**	**28.2**	**11.9**	**8.53**	0.511 U	**31.7**	**201**	**4.3**	**924**	**8.46**
PCB-207	pg/g	**8.75**	**70**	**4.86**	**1.56 J**	**1.30 J**	0.411 U	**6.52**	**26.8**	**0.860 J**	**157**	0.697 U
PCB-208	pg/g	**23.6**	**95.3**	**7.68**	**3.68 J**	**2.51 J**	0.366 U	**6.93**	**54.7**	**1.10 J**	**190**	**3.70 J**
PCB-209	pg/g	**89.1**	**49.1**	**8.06**	**5.86**	**5.8**	0.308 U	**4.86**	**251**	**3.84 J**	**60**	**11.2**
Total PCBs Congeners	pg/g	**5,000 J**	**7,850 J**	**7,140 J**	**7,280 J**	**1,630 J**	**37.4 J**	**5,800 J**	**48,400 J**	**1,320 J**	**74,200 J**	**312 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	0.518 U	**4.86**	**15.8**	**15.2**	**15.9**	**17.1**	**11.2**	**6.05**	**71.2**	**68.2**	--
PCB-002	pg/g	0.594 U	**2.97 J**	**8.39**	**10.7**	**17.6**	**16**	**13.8**	**3.21 J**	**36.5**	**5.79**	--
PCB-003	pg/g	0.612 U	**5.35**	**21.9**	**18.8**	**25.6**	**22.5**	**19.1**	**6.19**	**114**	**21.4**	--
PCB-004	pg/g	1.89 U	**11.4**	**25.4**	**16.7**	**17.9**	**38.6**	**7.49**	**10.9**	**15.9**	**128**	--
PCB-005	pg/g	1.39 U	0.841 U	1.40 U	1.10 U	0.890 U	1.49 U	**3.42 J**	1.41 U	2.37 U	**163**	--
PCB-006	pg/g	1.45 U	**6.93**	**20.7**	**12.5**	**16.8**	**19.9**	**6.47**	**6.62**	**15.2**	**44.5**	--
PCB-007	pg/g	1.39 U	0.845 U	**5.63**	**3.82 J**	**4.69**	**4.64**	**2.63 J**	1.41 U	**15.2**	**8.23**	--
PCB-008	pg/g	1.52 U	**32.8**	**104**	**68.3**	**79**	**131**	**35.7**	**30.5**	**112**	**162**	--
PCB-009	pg/g	1.44 U	0.855 U	**5.86**	**4.01**	**4.18**	**5.47**	1.59 U	1.47 U	**12.9**	**18.8**	--
PCB-010	pg/g	1.43 U	1.01 U	**3.89**	**2.25 J**	**1.20 J**	**3.51 J**	**1.89 U**	1.46 U	2.86 U	**6.23**	--
PCB-011	pg/g	**11**	**9.36**	**14.4**	**17.5**	**22.8**	**19.7**	**16**	**4.84**	**31.1**	**5.54**	--
PCB-012	pg/g	1.52 U	0.872 U	**5.9**	**4.14**	**5.16**	**8.29**	**4.64**	1.54 U	**13.7**	**4.36**	--
PCB-013	pg/g	1.56 U	0.889 U	**5.51**	**5.64**	**11.6**	**13.6**	**6.33**	1.59 U	**9.9**	**9**	--
PCB-014	pg/g	1.52 U	0.909 U	1.51 U	1.19 U	0.962 U	1.64 U	1.57 U	1.54 U	2.53 U	0.507 U	--
PCB-015	pg/g	1.60 U	**19.4**	**60.9**	**45.9**	**56.6**	**77.3**	**21.3**	**16**	**129**	**96.1**	--
PCB-016	pg/g	0.978 U	**19.1**	**48.4**	**50**	**66.2**	**250**	**28.9**	**18**	**29.5**	**1220**	--
PCB-017	pg/g	1.06 U	**25.5**	**70.2**	**68.7**	**110**	**359**	**52.3**	**24.3**	**40.9**	**1240**	--
PCB-018	pg/g	1.14 U	**55.5**	**171**	**156**	**231**	**822**	**114**	**60.5**	**65.7**	**5150**	--
PCB-019	pg/g	1.16 U	**6.79**	**15.8**	**12.1**	**16.8**	**43.2**	**6.34**	**5.35**	**11.1**	**207**	--
PCB-020	pg/g	1.36 U, C	**52.4 C**	**155 C**	**140 C**	**209 C**	**787 C**	**95.1 C**	**37.4 C**	**91.7 C**	**3,390 C**	--
PCB-021	pg/g	-- U, C020	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	--
PCB-022	pg/g	1.24 U	**29.3**	**89.2**	**79.5**	**110**	**398**	**55.8**	**21.2**	**60.7**	**2,020**	--
PCB-023	pg/g	1.33 U	0.626 U	0.969 U	0.757 U	0.862 U	0.921 U	1.99 U	0.577 U	3.41 U	1.00 U	--
PCB-024	pg/g	0.792 U	**3.52 J**	**7.8**	**5.83**	**12.2**	**27.1**	**4.38**	**1.65 J**	**5.52**	**68.5**	--
PCB-025	pg/g	1.34 U	**11.4**	**33.6**	**59.2**	**112**	**79.9**	**12.3**	**5.6**	**13.1**	**95.4**	--

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	1.33 U	**26.4**	**67.1**	**107**	**237**	**220**	**29.2**	**11.8**	**31.2**	**550**	--
PCB-027	pg/g	0.769 U	**2.76 J**	**6.97**	**8.39**	**8.66**	**21.5**	**4.63**	**3.42 J**	**4.59**	**77**	--
PCB-028	pg/g	1.11 U	**81**	**234**	**255**	**451**	**1,450**	**162**	**0.482 U**	**171**	**5,550**	--
PCB-029	pg/g	1.29 U	0.645 U	0.997 U	**2.65 J**	**2.25 J**	**3.38 J**	1.83 U	0.557 U	3.51 U	1.19 U	--
PCB-030	pg/g	0.765 U	0.636 U	0.506 U	0.417 U	0.253 U	1.27 U	2.05 U	1.58 U	0.973 U	0.695 U	--
PCB-031	pg/g	1.32 U	**89.5**	**282**	**264**	**446**	**1,620**	**159**	**58.8**	**206**	**9,260**	--
PCB-032	pg/g	0.860 U	**15.5**	**57.9**	**48.1**	**66.3**	**226**	**35.4**	**16.1**	**37.1**	**1,160**	--
PCB-033	pg/g	-- U, C020	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**	--
PCB-034	pg/g	1.34 U	0.608 U	0.940 U	**5.23**	**7.67**	**11.5**	1.93 U	0.581 U	3.31 U	1.39 U	--
PCB-035	pg/g	1.45 U	0.650 U	1.01 U	0.786 U	0.895 U	**15.9**	1.89 U	0.628 U	3.54 U	1.40 U	--
PCB-036	pg/g	1.34 U	0.621 U	0.960 U	0.751 U	0.855 U	0.926 U	1.75 U	0.579 U	3.38 U	1.30 U	--
PCB-037	pg/g	1.33 U	**21.1**	**64.3**	**52.5**	**69**	**323**	**35.2**	**17.9**	**23.1**	**869**	--
PCB-038	pg/g	1.32 U	0.591 U	0.914 U	0.714 U	0.813 U	**6.84**	1.76 U	0.572 U	3.22 U	**45.5**	--
PCB-039	pg/g	1.35 U	0.614 U	0.949 U	0.742 U	0.845 U	0.930 U	1.75 U	0.582 U	3.34 U	1.22 U	--
PCB-040	pg/g	0.979 U	1.27 U	**32.5**	**40.6**	**64.8**	**128**	**29**	**15.5**	**33.3**	**1270**	--
PCB-041	pg/g	0.619 U, C	**42.1 C**	**172 C**	**236 C**	**360 C**	**777 C**	**168 C**	**77.6 C**	**152 C**	**7,160 C**	--
PCB-042	pg/g	0.693 U, C	**22.6 C**	**67.7 C**	**112 C**	**196 C**	**325 C**	**71.9 C**	**28.2 C**	**46.0 C**	**2,090 C**	--
PCB-043	pg/g	0.778 U, C	**67.5 C**	**298 C**	**455 C**	**768 C**	**978 C**	**334 C**	**87.4 C**	**183 C**	**8,400 C**	--
PCB-044	pg/g	0.874 U	**67.8**	**329**	**346**	**587**	**807**	**216**	**110**	**217**	**10,300**	--
PCB-045	pg/g	0.852 U	**10.5**	**34**	**42.5**	**78.2**	**127**	**29.2**	**14**	**27.7**	**1,740**	--
PCB-046	pg/g	0.891 U	**5.8**	**15.7**	**18.2**	**29.9**	**48.8**	**14.2**	**6.67**	**11.3**	**605**	--
PCB-047	pg/g	0.734 U	**20.6**	**88.1**	**173**	**269**	**496**	**128**	**27.7**	**55.4**	**2,230**	--
PCB-048	pg/g	0.609 U, C	**13.6 C**	**46.7 C**	**53.1 C**	**93.7 C**	**128 C**	**54.2 C**	**17.9 C**	**23.2 C**	**1,790 C**	--
PCB-049	pg/g	-- U, C043	**-- C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**	--
PCB-050	pg/g	0.744 U	0.974 U	0.786 U	0.865 U	**2.74 J**	**3.64 J**	1.99 U	0.863 U	2.55 U	1.70 U	--
PCB-051	pg/g	0.728 U	**4.24**	**11**	**16.4**	**25.2**	**36.4**	**9.03**	**4.76**	**9.29**	**494**	--
PCB-052	pg/g	0.697 U, C	**119 C**	**654 C**	**555 C**	**1,080 C**	**1,100 C**	**380 C**	**173 C**	**338 C**	**14,500 C**	--
PCB-053	pg/g	0.732 U	**13.7**	**37.4**	**43.9**	**75.5**	**116**	**28.7**	**13**	**27.3**	**1820**	--
PCB-054	pg/g	0.559 U	0.669 U	0.540 U	0.595 U	**1.04 J**	**1.70 J**	1.64 U	0.649 U	1.75 U	1.29 U	--
PCB-055	pg/g	0.580 U	**4.39**	**12.2**	**10**	**15.1**	**24.7**	**6.22**	0.673 U	**7.03**	**131**	--
PCB-056	pg/g	0.299 U, C	**50.1 C**	**185 C**	**189 C**	**309 C**	**958 C**	**133 C**	**53.8 C**	**181 C**	**10,600 C**	--
PCB-057	pg/g	0.565 U	0.695 U	**2.78 J**	**3.51 J**	**4.3**	**8.76**	1.53 U	0.655 U	1.82 U	1.25 U	--
PCB-058	pg/g	0.588 U	0.735 U	**2.42 J**	**4.68**	**6.38**	**6.33**	**2.38 J**	0.682 U	1.93 U	1.27 U	--
PCB-059	pg/g	-- U, C042	**-- C042**	**-- C042**	**-- C042**	**-- C042**	**-- C042**	**-- C042**	**-- C042**	**-- C042**	**-- C042**	--
PCB-060	pg/g	-- U, C056	**-- C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**	--
PCB-061	pg/g	0.635 U, C	**104 C**	**516 C**	**394 C**	**849 C**	**1850 C**	**345 C**	**161 C**	**328 C**	**17,900 C**	--
PCB-062	pg/g	0.629 U	0.715 U	0.577 U	0.635 U	0.543 U	1.04 U	1.69 U	0.730 U	1.87 U	1.43 U	--
PCB-063	pg/g	0.569 U	**3.80 J**	**14.2**	**15.2**	**28.6**	**56**	**13**	**4.32**	**10.2**	**462**	--
PCB-064	pg/g	-- U, C041	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--
PCB-065	pg/g	0.563 U	0.795 U	0.642 U	0.706 U	0.604 U	0.934 U	1.50 U	0.653 U	2.08 U	1.34 U	--
PCB-066	pg/g	0.569 U, C	**78.8 C**	**371 C**	**363 C**	**719 C**	**1,640 C**	**253 C**	**99.6 C**	**252 C**	**11,200 C**	--
PCB-067	pg/g	0.588 U	**3.38 J**	**8.6**	**10.5**	**14.1**	**41.8**	**7.15**	**2.98 J**	**6.85**	**173**	--

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	0.527 U	0.632 U	0.511 U	**9.46**	**14**	**12.4**	**5.22**	0.611 U	1.66 U	1.19 U	--
PCB-069	pg/g	-- U, C052	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	--
PCB-070	pg/g	-- U, C061	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	--
PCB-071	pg/g	-- U, C041	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--
PCB-072	pg/g	-- U, C041	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--
PCB-073	pg/g	0.569 U	0.676 U	0.545 U	**6.08**	**14.7**	**0.944 U**	**1.63 U**	0.660 U	**5.41**	1.37 U	--
PCB-074	pg/g	0.557 U	**40.6**	**175**	**160**	**307**	**736**	**130**	**54.2**	**133**	**7570**	--
PCB-075	pg/g	-- U, C048	**-- C048**	**-- C048**	**-- C048**	**-- C048**	**-- C048**	**-- C048**	**-- C048**	**-- C048**	**-- C048**	--
PCB-076	pg/g	-- U, C066	**-- C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**	--
PCB-077 (Dioxin-Like)	pg/g	0.322 U	**9.56**	**26.8**	**28.6**	**39.2**	**153**	**17**	**8.43**	**29.8**	**974**	--
PCB-078	pg/g	0.310 U	0.606 U	**4.05**	0.710 U	0.446 U	**2.83 J**	1.82 U	0.779 U	1.94 U	1.54 U	--
PCB-079	pg/g	0.300 U	**2.52 J**	**16.3**	**11.3**	**26.5**	**14.1**	**12.1**	**2.32 J**	**6.76**	**157**	--
PCB-080	pg/g	0.498 U	0.546 U	0.441 U	0.485 U	0.415 U	**6.58**	1.28 U	0.578 U	1.43 U	1.02 U	--
PCB-081 (Dioxin-Like)	pg/g	0.293 U	**4.15**	**23.8**	**9.15**	**19**	**10.7**	**4.99**	**3.47 J**	**11.3**	**279**	--
PCB-082	pg/g	0.798 U	**33.2**	**184**	**81.7**	**203**	**77.3**	**19.8**	**25.4**	**97.8**	**3350**	--
PCB-083	pg/g	0.582 U, C	**12.9 C**	**75.3 C**	**41.1 C**	**106 C**	**39.0 C**	**15.6 C**	**7.60 C**	**31.3 C**	**900.0 C**	--
PCB-084	pg/g	0.622 U, C	**104 C**	**697 C**	**383 C**	**928 C**	**349 C**	**183 C**	**73.5 C**	**318 C**	**10,500 C**	--
PCB-085	pg/g	0.554 U, C	**42.4 C**	**221 C**	**107 C**	**277 C**	**92.0 C**	**27.3 C**	**29.6 C**	**131 C**	**4,220 C**	--
PCB-086	pg/g	0.626 U	1.00 U	1.11 U	1.31 U	0.999 U	0.771 U	1.95 U	1.42 U	3.06 U	**199**	--
PCB-087	pg/g	0.528 U, C	**99.0 C**	**633 C**	**245 C**	**652 C**	**179 C**	**71.0 C**	**74.5 C**	**327 C**	**9,010 C**	--
PCB-088	pg/g	0.557 U, C	**38.3 C**	**206 C**	**165 C**	**331 C**	**203 C**	**144 C**	**28.1 C**	**69.3 C**	**3,960 C**	--
PCB-089	pg/g	0.677 U	**2.08 J**	**13.8**	**11.7**	**16.9**	**8.07**	**2.98 J**	**2.38 J**	**9.53**	**354**	--
PCB-090	pg/g	0.568 U, C	**108 C**	**1750 C**	**997 C**	**2,290 C**	**1,050 C**	**551 C**	**191 C**	**898 C**	**23,600 C**	--
PCB-091	pg/g	-- U, C088	**-- C088**	**-- C088**	**-- C088**	**-- C088**	**-- C088**	**-- C088**	**-- C088**	**-- C088**	**-- C088**	--
PCB-092	pg/g	-- U, C084	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	--
PCB-093	pg/g	0.653 U	0.653 U	0.614 U	0.424 U	0.334 U	1.30 U	2.20 U	1.01 U	2.79 U	1.24 U	--
PCB-094	pg/g	0.648 U	0.696 U	**5.91**	**3.48 J**	**8.5**	1.29 U	2.20 U	1.01 U	2.97 U	**130**	--
PCB-095	pg/g	0.614 U	**219**	**1,290**	**694**	**1,600**	**871**	**500**	**195**	**604**	**20,400**	--
PCB-096	pg/g	0.446 U	0.506 U	**5.71**	**4.42**	**9.13**	**5.38**	**2.52 J**	**0.691 U**	2.16 U	**172**	--
PCB-097	pg/g	0.690 U	**61.2**	**404**	**200**	**546**	**232**	**86**	**60.4**	**194**	**6440**	--
PCB-098	pg/g	0.594 U, C	0.587 U, C	0.552 U, C	0.381 U, C	0.300 U, C	1.18 U, C	2.07 U, C	0.921 U, C	2.50 U, C	0.942 U, C	--
PCB-099	pg/g	0.565 U	**93.5**	**657**	**470**	**1,150**	**628**	**357**	**82.9**	**295**	**11,200**	--
PCB-100	pg/g	0.529 U	0.581 U	**10.2**	**32.6**	**31**	**52.9**	**53.7**	**0.821 U**	**2.48 U**	**98.9**	--
PCB-101	pg/g	-- U, C090	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	--
PCB-102	pg/g	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	--
PCB-103	pg/g	0.531 U	0.601 U	**18.9**	**44.5**	**47**	**58.4**	**48.1**	0.824 U	2.56 U	**179**	--
PCB-104	pg/g	0.415 U	0.452 U	0.425 U	0.294 U	0.231 U	**0.828 U**	**1.37 U**	0.645 U	1.93 U	0.828 U	--
PCB-105 (Dioxin-Like)	pg/g	0.828 U	**77**	**514**	**203**	**575**	**265**	**92.8**	**76**	**242**	**10,200**	--
PCB-106	pg/g	0.742 U, C	**195 C**	**1,410 C**	**595 C**	**1,760 C**	**809 C**	**359 C**	**190 C**	**599 C**	**21,900 C**	--
PCB-107	pg/g	0.756 U, C	**14.4 C**	**102 C**	**52.8 C**	**132 C**	**87.5 C**	**44.2 C**	**12.8 C**	**40.8 C**	**1,210 C**	--
PCB-108	pg/g	-- U, C107	**-- C107**	**-- C107**	**-- C107**	**-- C107**	**-- C107**	**-- C107**	**-- C107**	**-- C107**	**-- C107**	--
PCB-109	pg/g	0.475 U	0.740 U	0.820 U	0.969 U	0.737 U	0.585 U	1.59 U	1.07 U	2.26 U	**9.11**	--

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	0.464 U	**234**	**1,520**	**761**	**2,090**	**761**	**284**	**197**	**721**	**22,100**	--
PCB-111	pg/g	0.467 U, C	**3.57 J, C**	**32.5 C**	**73.3 C**	**41.3 C**	**13.9 C**	**5.50 C**	**4.40 C**	**13.6 C**	**471 C**	--
PCB-112	pg/g	-- U, C083	**-- C083**	**-- C083**	**-- C083**	**-- C083**	**-- C083**	**-- C083**	**-- C083**	**-- C083**	**-- C083**	--
PCB-113	pg/g	0.471 U	0.854 U	0.946 U	1.12 U	0.851 U	0.579 U	1.66 U	1.06 U	2.61 U	0.986 U	--
PCB-114 (Dioxin-Like)	pg/g	0.815 U	**5.5**	**36.8**	**12**	**35.1**	**21.1**	**7.49**	**5.06**	**16.8**	**642**	--
PCB-115	pg/g	-- U, C111	**-- J, C111**	**-- C111**	**-- C111**	**-- C111**	**-- C111**	**-- C111**	**-- C111**	**-- C111**	**-- C111**	--
PCB-116	pg/g	-- U, C085	**-- C085**	**-- C085**	**-- C085**	**-- C085**	**-- C085**	**-- C085**	**-- C085**	**-- C085**	**-- C085**	--
PCB-117	pg/g	-- U, C087	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--
PCB-118 (Dioxin-Like)	pg/g	-- U, C106	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**-- C106**	--
PCB-119	pg/g	0.447 U	**6.95**	**37.9**	**50.5**	**96.4**	**66.8**	**41.6**	**3.81 J**	**14.3**	**335**	--
PCB-120	pg/g	0.434 U	0.690 U	**5.31**	0.903 U	0.687 U	**10.6**	**7.6**	0.981 U	2.10 U	**22.9**	--
PCB-121	pg/g	0.493 U	0.509 U	0.478 U	0.330 U	0.260 U	0.982 U	1.73 U	0.765 U	2.17 U	0.838 U	--
PCB-122	pg/g	0.777 U	**2.97 J**	**17.1**	**7.64**	**16.3**	**9.58**	**5.15**	**2.75 J**	1.83 U	**287**	--
PCB-123 (Dioxin-Like)	pg/g	0.881 U	**3.55 J**	**21.1**	**7.65**	**18.1**	**17.6**	**4.49**	**4.23**	**8.27**	**308**	--
PCB-124	pg/g	0.838 U	**9.89**	**70.1**	**23.4**	**61.5**	**24.3**	**13.8**	**9.37**	**25.1**	**761**	--
PCB-125	pg/g	-- U, C087	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--
PCB-126 (Dioxin-Like)	pg/g	0.982 U	**1.86 J**	**7.47**	**3.29 J**	**6.2**	**2.68 J**	1.99 U	0.964 U	1.98 U	**58.7**	--
PCB-127	pg/g	0.836 U	0.770 U	0.866 U	1.10 U	0.986 U	1.04 U	1.87 U	0.912 U	1.98 U	1.81 U	--
PCB-128	pg/g	1.03 U, C	**46.5 C**	**308 C**	**121 C**	**283 C**	**93.4 C**	**45.8 C**	**33.9 C**	**111 C**	**2,740 C**	--
PCB-129	pg/g	1.38 U	**14.8**	**113**	**39**	**94.3**	**24.4**	**10.8**	**11.2**	**37.2**	**958**	--
PCB-130	pg/g	1.29 U	**21.6**	**125**	**54**	**109**	**51.6**	**37.7**	**14.6**	**40.9**	**944**	--
PCB-131	pg/g	1.30 U, C	**9.09 C**	**64.8 C**	**41.4 C**	**62.4 C**	**71.4 C**	**63.1 C**	**8.28 C**	**24.0 C**	**388 C**	--
PCB-132	pg/g	1.04 U, C	**84.8 C**	**625 C**	**233 C**	**406 C**	**245 C**	**159 C**	**66.4 C**	**245 C**	**4,530 C**	--
PCB-133	pg/g	-- U, C131	**-- C131**	**-- C131**	**-- C131**	**-- C131**	**-- C131**	**-- C131**	**-- C131**	**-- C131**	**-- C131**	--
PCB-134	pg/g	1.30 U, C	**15.7 C**	**106 C**	**48.4 C**	**100 C**	**59.7 C**	**39.8 C**	**14.6 C**	**42.4 C**	**814 C**	--
PCB-135	pg/g	1.19 U	**41.1**	**250**	**160**	**228**	**211**	**151**	**28.4**	**102**	**1650**	--
PCB-136	pg/g	0.372 U	**42.1**	**227**	**150**	**218**	**219**	**146**	**39.9**	**93.3**	**1630**	--
PCB-137	pg/g	1.19 U	**14**	**134**	**42.7**	**115**	**29.5**	**10.8**	**11.1**	**46.8**	**1100**	--
PCB-138	pg/g	0.933 U, C	**264 C**	**1,600 C**	**808 C**	**1,440 C**	**919 C**	**482 C**	**227 C**	**729 C**	**13,000 C**	--
PCB-139	pg/g	1.05 U, C	**238 C**	**1,290 C**	**898 C**	**1,350 C**	**1,200 C**	**832 C**	**189 C**	**680 C**	**10,700 C**	--
PCB-140	pg/g	1.04 U	**2.12 J**	**21.5**	**15.6**	**26.4**	**24.1**	**24.5**	**3.26 J**	**1.95 U**	**80.5**	--
PCB-141	pg/g	1.14 U	**55.7**	**310**	**179**	**256**	**186**	**71.2**	**48.5**	**182**	**2,360**	--
PCB-142	pg/g	1.28 U	1.03 U	1.32 U	1.05 U	0.759 U	1.38 U	2.76 U	1.58 U	2.38 U	**5.37**	--
PCB-143	pg/g	-- U, C134	**-- C134**	**-- C134**	**-- C134**	**-- C134**	**-- C134**	**-- C134**	**-- C134**	**-- C134**	**-- C134**	--
PCB-144	pg/g	1.09 U	**14.8**	**84.2**	**49.7**	**71.2**	**51.5**	**19.7**	**15.4**	**46.6**	**636**	--
PCB-145	pg/g	0.354 U	0.300 U	0.239 U	0.356 U	0.279 U	0.669 U	1.35 U	0.756 U	0.534 U	**7.08**	--
PCB-146	pg/g	0.970 U, C	**47.0 C**	**279 C**	**224 C**	**294 C**	**350 C**	**286 C**	**30.7 C**	**103 C**	**1,410 C**	--
PCB-147	pg/g	1.02 U	**7.54**	**47**	**37.3**	**55.1**	**67.3**	**98.5**	**4.09**	**10**	**365**	--
PCB-148	pg/g	0.453 U	0.401 U	0.319 U	**10.5**	**11**	**11.4**	**18.5**	0.966 U	0.714 U	0.938 U	--
PCB-149	pg/g	-- U, C139	**-- C139**	**-- C139**	**-- C139**	**-- C139**	**-- C139**	**-- C139**	**-- C139**	**-- C139**	**-- C139**	--
PCB-150	pg/g	0.339 U	0.300 U	**4.33**	**12.6**	**11.1**	**24.4**	**29.3**	0.724 U	0.535 U	**34.4**	--
PCB-151	pg/g	1.16 U	**76.4**	**335**	**271**	**343**	**380**	**296**	**58.4**	**198**	**2,480**	--

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.347 U	0.304 U	**2.05 J**	0.360 U	**1.87 J**	0.655 U	1.35 U	0.740 U	0.541 U	**17**	--
PCB-153	pg/g	0.940 U	**269**	**1,410**	**1,040**	**1,580**	**1,240**	**881**	**209**	**805**	**11,300**	--
PCB-154	pg/g	0.404 U	**4.55**	**35.5**	**65**	**70.4**	**146**	**182**	**3.18 J**	0.596 U	**132**	--
PCB-155	pg/g	0.309 U	0.272 U	0.217 U	0.322 U	**1.48 J**	**3.31 J**	**3.64 J**	**0.659 U**	0.484 U	0.670 U	--
PCB-156 (Dioxin-Like)	pg/g	0.872 U	**25**	**207**	**81.5**	**179**	**67.6**	**27.9**	**22.8**	**72.1**	**1,830**	--
PCB-157 (Dioxin-Like)	pg/g	0.918 U	**6.97**	**46.2**	**17.4**	**41.7**	**10.5**	**6.9**	**5.15**	**17.1**	**406**	--
PCB-158	pg/g	0.854 U, C	**34.2 C**	**227 C**	**95.4 C**	**188 C**	**84.9 C**	**35.1 C**	**27.7 C**	**98.4 C**	**1,880 C**	--
PCB-159	pg/g	0.828 U	**4.58**	**12.9**	**17.1**	**12.7**	**14.7**	**15.1**	**3.21 J**	**9.65**	**56.6**	--
PCB-160	pg/g	-- U, C158	**-- C158**	**-- C158**	**-- C158**	**-- C158**	**-- C158**	**-- C158**	**-- C158**	**-- C158**	**-- C158**	--
PCB-161	pg/g	-- U, C132	**-- C132**	**-- C132**	**-- C132**	**-- C132**	**-- C132**	**-- C132**	**-- C132**	**-- C132**	**-- C132**	--
PCB-162	pg/g	-- U, C128	**-- C128**	**-- C128**	**-- C128**	**-- C128**	**-- C128**	**-- C128**	**-- C128**	**-- C128**	**-- C128**	--
PCB-163	pg/g	-- U, C138	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	--
PCB-164	pg/g	-- U, C138	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	**-- C138**	--
PCB-165	pg/g	-- U, C146	**-- C146**	**-- C146**	**-- C146**	**-- C146**	**-- C146**	**-- C146**	**-- C146**	**-- C146**	**-- C146**	--
PCB-166	pg/g	0.890 U	0.715 U	**10.2**	**3.13 J**	**8.91**	0.957 U	1.82 U	1.09 U	1.65 U	**65.8**	--
PCB-167 (Dioxin-Like)	pg/g	0.937 U	**11.4**	**78.2**	**34.6**	**65.3**	**24.2**	**13.1**	**8.14**	**30.5**	**612**	--
PCB-168	pg/g	0.873 U	0.672 U	0.860 U	0.688 U	0.495 U	**11.1**	**4.67**	1.07 U	1.55 U	**38.8**	--
PCB-169	pg/g	0.786 U	0.908 U	0.776 U	0.704 U	0.463 U	1.29 U	1.67 U	1.06 U	1.52 U	0.931 U	--
PCB-170	pg/g	1.24 U	**84.2**	**307**	**308**	**267**	**271**	**102**	**64.5**	**181**	**2,060**	--
PCB-171	pg/g	1.11 U	**25.8**	**95.7**	**104**	**92.8**	**88.2**	**38.1**	**19.1**	**69.4**	**555**	--
PCB-172	pg/g	1.21 U	**17.7**	**53.7**	**67.3**	**54.3**	**52.4**	**24.8**	**11**	**37.9**	**294**	--
PCB-173	pg/g	1.23 U	**2.01 J**	**7.33**	**6.19**	**7.64**	**7.53**	**2.27 U**	1.00 U	**10.4**	**46.4**	--
PCB-174	pg/g	1.03 U	**100**	**274**	**336**	**300**	**319**	**145**	**67.6**	**215**	**1,660**	--
PCB-175	pg/g	1.11 U	**4.3**	**15.4**	**19**	**19.7**	**14.1**	**7.06**	**3.94 J**	**12.8**	**85.5**	--
PCB-176	pg/g	0.824 U	**16.2**	**51.6**	**57**	**53**	**59.1**	**28.6**	**11.7**	**35.2**	**266**	--
PCB-177	pg/g	1.19 U	**60.8**	**196**	**219**	**192**	**235**	**128**	**40.8**	**136**	**980**	--
PCB-178	pg/g	1.14 U	**25.5**	**76.9**	**99.1**	**86.3**	**108**	**75.3**	**17.3**	**46.2**	**318**	--
PCB-179	pg/g	0.793 U	**52.5**	**144**	**186**	**173**	**208**	**150**	**32.7**	**98.6**	**722**	--
PCB-180	pg/g	1.12 U	**179**	**531**	**719**	**528**	**686**	**301**	**164**	**408**	**3,630**	--
PCB-181	pg/g	1.19 U	0.400 U	1.01 U	0.858 U	0.863 U	1.07 U	2.04 U	0.965 U	1.52 U	1.72 U	--
PCB-182	pg/g	1.00 U, C	**142 C**	**385 C**	**567 C**	**477 C**	**610 C**	**521 C**	**89.8 C**	**280 C**	**1,900 C**	--
PCB-183	pg/g	1.02 U	**63.2**	**193**	**259**	**212**	**216**	**91.2**	**46**	**158**	**1,130**	--
PCB-184	pg/g	0.746 U	0.263 U	0.666 U	0.563 U	0.567 U	0.671 U	1.37 U	0.605 U	0.996 U	1.15 U	--
PCB-185	pg/g	1.11 U	12.4	28.4	**48.6**	**34.8**	**36.6**	**13.7**	**10.5**	**28.2**	**228**	--
PCB-186	pg/g	0.795 U	0.279 U	0.708 U	0.599 U	0.602 U	0.715 U	1.43 U	0.644 U	1.06 U	1.18 U	--
PCB-187	pg/g	-- U, C182	**-- C182**	**-- C182**	**-- C182**	**-- C182**	**-- C182**	**-- C182**	**-- C182**	**-- C182**	**-- C182**	--
PCB-188	pg/g	0.916 U	0.290 U	0.740 U	**2.96 J**	**4.33**	**6.44**	**12.6**	0.718 U	0.985 U	1.21 U	--
PCB-189 (Dioxin-Like)	pg/g	0.683 U	**3.54 J**	**13.1**	**12.7**	**12.3**	**10.6**	**6.56**	0.579 U	**10.7**	**86.8**	--
PCB-190	pg/g	0.870 U	**19.3**	**61**	**79.2**	**58.1**	**53.8**	**27**	**13.3**	**41.5**	**452**	--
PCB-191	pg/g	0.861 U	**3.84 J**	**14.8**	**16.5**	**12.4**	**13**	**6.12**	**3.68 J**	**11.9**	**90.4**	--
PCB-192	pg/g	0.899 U	0.297 U	0.752 U	0.636 U	0.640 U	0.808 U	1.61 U	0.729 U	1.13 U	1.33 U	--
PCB-193	pg/g	0.814 U	**12.8**	**34**	**48.5**	**36.1**	**39.8**	**21.9**	**8.24**	**20.5**	**195**	--

Sample Location[1]		ST-109	South DMMU Area							North DMMU Area	MAF-01	
Sample Identification		ST-109C_11.3-12.3	DMMU-1A-Comp	DMMU-1B-Comp	DMMU-1C-Comp	DMMU-1D-Comp	DMMU-1E-Comp	DMMU-1F-Comp	DMMU-1 Keyway	DMMU-2D-Comp	MAF-SS-01_0-10	MAF-SS-DUP-01
Sample Date		10/25/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/23/18	10/25/18	10/20/2015	10/20/2015
Sample Interval (dbm)		11.3-12.3 ft	2 - 3.7 ft	3.7 - 5.7 ft	5.7 -7.7 ft	7.7 - 9.7 ft	9.7 - 11.7 ft	11.7 - 13.7 ft	6.8 - 10.8 ft	6.2 - 9.3 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	0.331 U	**56.3**	**134**	**278**	**161**	**161**	**159**	**41.2**	**126**	**1,030**	--
PCB-195	pg/g	0.368 U	**22.7**	**55**	**121**	**66.9**	**80.1**	**64.9**	**16.8**	**44.1**	**360**	--
PCB-196	pg/g	0.750 U, C	**81.3 C**	**174 C**	**370 C**	**205 C**	**170 C**	**135 C**	**48.2 C**	**131 C**	**1,300 C**	--
PCB-197	pg/g	0.545 U	**2.71 J**	**7.19**	**14.1**	**8.94**	**7.89**	**8.17**	**1.68 J**	**6.28**	**46.8**	--
PCB-198	pg/g	0.813 U	**4.54**	**11.2**	**25.8**	**8.95**	**6.18**	**6.4**	**1.73 J**	**9.44**	**59.6**	--
PCB-199	pg/g	0.827 U	**65.3**	**165**	**291**	**184**	**190**	**154**	**46.1**	**110**	**1,040**	--
PCB-200	pg/g	0.585 U	**9.72**	**22.5**	**42.7**	**27.9**	**23**	**16.4**	**5.58**	**17.9**	**136**	--
PCB-201	pg/g	0.577 U	**10.2**	**23.9**	**49.2**	**31.2**	**27.6**	**25.1**	**6.6**	**24.3**	**132**	--
PCB-202	pg/g	0.582 U	**15.3**	**40.2**	**68.1**	**48.9**	**47.9**	**48.1**	**10.8**	**38**	**159**	--
PCB-203	pg/g	-- U, C196	**-- C196**	**-- C196**	**-- C196**	**-- C196**	**-- C196**	**-- C196**	**-- C196**	**-- C196**	**-- C196**	--
PCB-204	pg/g	0.584 U	0.263 U	0.281 U	0.351 U	0.339 U	0.623 U	1.69 U	0.799 U	0.903 U	0.843 U	--
PCB-205	pg/g	0.248 U	**3.36**	**6.02**	**17.6**	**7.9**	**8.89**	**7.55**	**2.52 J**	**8.39**	**64.1**	--
PCB-206	pg/g	0.250 U	**30.2**	**102**	**182**	**135**	**170**	**202**	**19.4**	**130**	**355**	--
PCB-207	pg/g	0.203 U	**4.44**	**14.7**	**26.7**	**18.7**	**19.3**	**20.1**	**2.97 J**	**22**	**53.9**	--
PCB-208	pg/g	0.196 U	**7.7**	**36.1**	**43.6**	**41.3**	**59**	**68.8**	**5.44**	**49.5**	**69.7**	--
PCB-209	pg/g	0.216 U	**10.4**	**138**	**113**	**136**	**214**	**255**	**11.9**	**165**	**42.1**	--
Total PCBs Congeners	pg/g	**11 J**	**5,090 J**	**26,100 J**	**19,700 J**	**32,800 J**	**33,600 J**	**13,100 J**	**4,520 J**	**14,500**	**368,000**	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**190**	--	--	--	--	--	--	--	--	--	**121**
PCB-002	pg/g	**24.4**	--	--	--	--	--	--	--	--	--	**10.7**
PCB-003	pg/g	**84.2**	--	--	--	--	--	--	--	--	--	**52.5**
PCB-004	pg/g	**513**	--	--	--	--	--	--	--	--	--	**388**
PCB-005	pg/g	**655**	--	--	--	--	--	--	--	--	--	**279**
PCB-006	pg/g	**285**	--	--	--	--	--	--	--	--	--	**174**
PCB-007	pg/g	**50.5**	--	--	--	--	--	--	--	--	--	**31**
PCB-008	pg/g	**669**	--	--	--	--	--	--	--	--	--	**372**
PCB-009	pg/g	**78.9**	--	--	--	--	--	--	--	--	--	**46.1**
PCB-010	pg/g	**45.4**	--	--	--	--	--	--	--	--	--	**12.2**
PCB-011	pg/g	**14.6**	--	--	--	--	--	--	--	--	--	**13.2**
PCB-012	pg/g	**35.3**	--	--	--	--	--	--	--	--	--	**10.7**
PCB-013	pg/g	**33.2**	--	--	--	--	--	--	--	--	--	**24.4**
PCB-014	pg/g	1.86 U	--	--	--	--	--	--	--	--	--	0.711 U
PCB-015	pg/g	**384**	--	--	--	--	--	--	--	--	--	**237**
PCB-016	pg/g	**1,330**	--	--	--	--	--	--	--	--	--	**369**
PCB-017	pg/g	**1,450**	--	--	--	--	--	--	--	--	--	**461**
PCB-018	pg/g	**3,520**	--	--	--	--	--	--	--	--	--	**735**
PCB-019	pg/g	**302**	--	--	--	--	--	--	--	--	--	**111**
PCB-020	pg/g	**4,760 C**	--	--	--	--	--	--	--	--	--	**1,290 C**
PCB-021	pg/g	**-- C020**	--	--	--	--	--	--	--	--	--	**-- C020**
PCB-022	pg/g	**2,520**	--	--	--	--	--	--	--	--	--	**614**
PCB-023	pg/g	**11.9**	--	--	--	--	--	--	--	--	--	**3.03 J**
PCB-024	pg/g	**87.1**	--	--	--	--	--	--	--	--	--	**34.2**
PCB-025	pg/g	**418**	--	--	--	--	--	--	--	--	--	**125**

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	**1,320**	--	--	--	--	--	--	--	--	--	**321**
PCB-027	pg/g	**141**	--	--	--	--	--	--	--	--	--	**45.9**
PCB-028	pg/g	**6,750**	--	--	--	--	--	--	--	--	--	**1,980**
PCB-029	pg/g	**55.6**	--	--	--	--	--	--	--	--	--	**19.8**
PCB-030	pg/g	1.16 U	--	--	--	--	--	--	--	--	--	1.10 U
PCB-031	pg/g	**8,960**	--	--	--	--	--	--	--	--	--	**2,910**
PCB-032	pg/g	**887**	--	--	--	--	--	--	--	--	--	**332**
PCB-033	pg/g	**-- C020**	--	--	--	--	--	--	--	--	--	**-- C020**
PCB-034	pg/g	**38.3**	--	--	--	--	--	--	--	--	--	**16.4**
PCB-035	pg/g	3.69 U	--	--	--	--	--	--	--	--	--	2.18 U
PCB-036	pg/g	3.56 U	--	--	--	--	--	--	--	--	--	2.03 U
PCB-037	pg/g	**664**	--	--	--	--	--	--	--	--	--	**346**
PCB-038	pg/g	3.30 U	--	--	--	--	--	--	--	--	--	1.75 U
PCB-039	pg/g	3.55 U	--	--	--	--	--	--	--	--	--	1.91 U
PCB-040	pg/g	**638**	--	--	--	--	--	--	--	--	--	**166**
PCB-041	pg/g	**3,110 C**	--	--	--	--	--	--	--	--	--	**945 C**
PCB-042	pg/g	**717 C**	--	--	--	--	--	--	--	--	--	**223 C**
PCB-043	pg/g	**4,810 C**	--	--	--	--	--	--	--	--	--	**1,430 C**
PCB-044	pg/g	**6,630**	--	--	--	--	--	--	--	--	--	**2,050**
PCB-045	pg/g	**646**	--	--	--	--	--	--	--	--	--	**158**
PCB-046	pg/g	**212**	--	--	--	--	--	--	--	--	--	**47**
PCB-047	pg/g	**1,080**	--	--	--	--	--	--	--	--	--	**240**
PCB-048	pg/g	**472 C**	--	--	--	--	--	--	--	--	--	**142 C**
PCB-049	pg/g	**-- C043**	--	--	--	--	--	--	--	--	--	**-- C043**
PCB-050	pg/g	**10.8**	--	--	--	--	--	--	--	--	--	**2.81 J**
PCB-051	pg/g	**175**	--	--	--	--	--	--	--	--	--	**40.9**
PCB-052	pg/g	**15,300 C**	--	--	--	--	--	--	--	--	--	**3,950 C**
PCB-053	pg/g	**891**	--	--	--	--	--	--	--	--	--	**214**
PCB-054	pg/g	**11.8**	--	--	--	--	--	--	--	--	--	**2.81 J**
PCB-055	pg/g	**328**	--	--	--	--	--	--	--	--	--	**7.31**
PCB-056	pg/g	**4,540 C**	--	--	--	--	--	--	--	--	--	**2,060 C**
PCB-057	pg/g	**36.6**	--	--	--	--	--	--	--	--	--	**0.979 U**
PCB-058	pg/g	1.73 U	--	--	--	--	--	--	--	--	--	0.995 U
PCB-059	pg/g	**-- C042**	--	--	--	--	--	--	--	--	--	**-- C042**
PCB-060	pg/g	**-- C056**	--	--	--	--	--	--	--	--	--	**-- C056**
PCB-061	pg/g	**19,100 C**	--	--	--	--	--	--	--	--	--	**3,350 C**
PCB-062	pg/g	1.68 U	--	--	--	--	--	--	--	--	--	1.12 U
PCB-063	pg/g	**259**	--	--	--	--	--	--	--	--	--	**88.9**
PCB-064	pg/g	**-- C041**	--	--	--	--	--	--	--	--	--	**-- C041**
PCB-065	pg/g	1.60 U	--	--	--	--	--	--	--	--	--	1.05 U
PCB-066	pg/g	**10,700 C**	--	--	--	--	--	--	--	--	--	**3,140 C**
PCB-067	pg/g	**122**	--	--	--	--	--	--	--	--	--	**26.6**

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	1.60 U	--	--	--	--	--	--	--	--	--	0.937 U
PCB-069	pg/g	**-- C052**	--	--	--	--	--	--	--	--	--	**-- C052**
PCB-070	pg/g	**-- C061**	--	--	--	--	--	--	--	--	--	**-- C061**
PCB-071	pg/g	**-- C041**	--	--	--	--	--	--	--	--	--	**-- C041**
PCB-072	pg/g	**-- C041**	--	--	--	--	--	--	--	--	--	**-- C041**
PCB-073	pg/g	1.54 U	--	--	--	--	--	--	--	--	--	1.07 U
PCB-074	pg/g	**5,150**	--	--	--	--	--	--	--	--	--	**2,180**
PCB-075	pg/g	**-- C048**	--	--	--	--	--	--	--	--	--	**-- C048**
PCB-076	pg/g	**-- C066**	--	--	--	--	--	--	--	--	--	**-- C066**
PCB-077 (Dioxin-Like)	pg/g	**813**	--	--	--	--	--	--	--	--	--	**256**
PCB-078	pg/g	1.62 U	--	--	--	--	--	--	--	--	--	1.56 U
PCB-079	pg/g	**1,080**	--	--	--	--	--	--	--	--	--	**155**
PCB-080	pg/g	1.44 U	--	--	--	--	--	--	--	--	--	0.800 U
PCB-081 (Dioxin-Like)	pg/g	**966**	--	--	--	--	--	--	--	--	--	**227**
PCB-082	pg/g	**5,900**	--	--	--	--	--	--	--	--	--	**2,340**
PCB-083	pg/g	**2,190 C**	--	--	--	--	--	--	--	--	--	**769 C**
PCB-084	pg/g	**25,800 C**	--	--	--	--	--	--	--	--	--	**8,640 C**
PCB-085	pg/g	**7,890 C**	--	--	--	--	--	--	--	--	--	**3,120 C**
PCB-086	pg/g	**167**	--	--	--	--	--	--	--	--	--	**67.4**
PCB-087	pg/g	**23,800 C**	--	--	--	--	--	--	--	--	--	**7,650 C**
PCB-088	pg/g	**16,900 C**	--	--	--	--	--	--	--	--	--	**2,270 C**
PCB-089	pg/g	**251**	--	--	--	--	--	--	--	--	--	**136**
PCB-090	pg/g	**93,300 C**	--	--	--	--	--	--	--	--	--	**21,400 C**
PCB-091	pg/g	**-- C088**	--	--	--	--	--	--	--	--	--	**-- C088**
PCB-092	pg/g	**-- C084**	--	--	--	--	--	--	--	--	--	**-- C084**
PCB-093	pg/g	2.64 U	--	--	--	--	--	--	--	--	--	2.78 U
PCB-094	pg/g	**222**	--	--	--	--	--	--	--	--	--	**92.3**
PCB-095	pg/g	**119,000**	--	--	--	--	--	--	--	--	--	**20,700**
PCB-096	pg/g	**195**	--	--	--	--	--	--	--	--	--	**75.2**
PCB-097	pg/g	**16,200**	--	--	--	--	--	--	--	--	--	**5,190**
PCB-098	pg/g	2.04 U, C	--	--	--	--	--	--	--	--	--	2.11 U, C
PCB-099	pg/g	**44,800**	--	--	--	--	--	--	--	--	--	**9,030**
PCB-100	pg/g	**1,830**	--	--	--	--	--	--	--	--	--	**52.8**
PCB-101	pg/g	**-- C090**	--	--	--	--	--	--	--	--	--	**-- C090**
PCB-102	pg/g	-- U, C098	--	--	--	--	--	--	--	--	--	-- U, C098
PCB-103	pg/g	**1,660**	--	--	--	--	--	--	--	--	--	**81.4**
PCB-104	pg/g	1.47 U	--	--	--	--	--	--	--	--	--	1.86 U
PCB-105 (Dioxin-Like)	pg/g	**19,100**	--	--	--	--	--	--	--	--	--	**9,050**
PCB-106	pg/g	**66,100 C**	--	--	--	--	--	--	--	--	--	**22,400 C**
PCB-107	pg/g	**3,420 C**	--	--	--	--	--	--	--	--	--	**1,280 C**
PCB-108	pg/g	**-- C107**	--	--	--	--	--	--	--	--	--	**-- C107**
PCB-109	pg/g	1.64 U	--	--	--	--	--	--	--	--	--	**7.84**

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	**69,000**	--	--	--	--	--	--	--	--	--	**19,700**
PCB-111	pg/g	**1,000 C**	--	--	--	--	--	--	--	--	--	**350.0 C**
PCB-112	pg/g	**-- C083**	--	--	--	--	--	--	--	--	--	**-- C083**
PCB-113	pg/g	1.79 U	--	--	--	--	--	--	--	--	--	1.46 U
PCB-114 (Dioxin-Like)	pg/g	**1,440**	--	--	--	--	--	--	--	--	--	**538**
PCB-115	pg/g	**-- C111**	--	--	--	--	--	--	--	--	--	**-- C111**
PCB-116	pg/g	**-- C085**	--	--	--	--	--	--	--	--	--	**-- C085**
PCB-117	pg/g	**-- C087**	--	--	--	--	--	--	--	--	--	**-- C087**
PCB-118 (Dioxin-Like)	pg/g	**-- C106**	--	--	--	--	--	--	--	--	--	**-- C106**
PCB-119	pg/g	**2,580**	--	--	--	--	--	--	--	--	--	**229**
PCB-120	pg/g	**210**	--	--	--	--	--	--	--	--	--	**24.7**
PCB-121	pg/g	1.74 U	--	--	--	--	--	--	--	--	--	1.88 U
PCB-122	pg/g	**604**	--	--	--	--	--	--	--	--	--	**278**
PCB-123 (Dioxin-Like)	pg/g	**1,070**	--	--	--	--	--	--	--	--	--	**269**
PCB-124	pg/g	**2,910**	--	--	--	--	--	--	--	--	--	**830**
PCB-125	pg/g	**-- C087**	--	--	--	--	--	--	--	--	--	**-- C087**
PCB-126 (Dioxin-Like)	pg/g	**178**	--	--	--	--	--	--	--	--	--	**62**
PCB-127	pg/g	1.30 U	--	--	--	--	--	--	--	--	--	1.72 U
PCB-128	pg/g	**11,600 C**	--	--	--	--	--	--	--	--	--	**3,830 C**
PCB-129	pg/g	**3,620**	--	--	--	--	--	--	--	--	--	**1,330**
PCB-130	pg/g	**4,980**	--	--	--	--	--	--	--	--	--	**1,340**
PCB-131	pg/g	**2,030 C**	--	--	--	--	--	--	--	--	--	**527 C**
PCB-132	pg/g	**21,800 C**	--	--	--	--	--	--	--	--	--	**6,000 C**
PCB-133	pg/g	**-- C131**	--	--	--	--	--	--	--	--	--	**-- C131**
PCB-134	pg/g	**4,710 C**	--	--	--	--	--	--	--	--	--	**1,000 C**
PCB-135	pg/g	**12,600**	--	--	--	--	--	--	--	--	--	**2,030**
PCB-136	pg/g	**20,200**	--	--	--	--	--	--	--	--	--	**1,970**
PCB-137	pg/g	**3,210**	--	--	--	--	--	--	--	--	--	**1,480**
PCB-138	pg/g	**91,900 C**	--	--	--	--	--	--	--	--	--	**18,700 C**
PCB-139	pg/g	**101,000 C**	--	--	--	--	--	--	--	--	--	**13,700 C**
PCB-140	pg/g	**220**	--	--	--	--	--	--	--	--	--	**93.2**
PCB-141	pg/g	**22,400**	--	--	--	--	--	--	--	--	--	**3,590**
PCB-142	pg/g	**14.5**	--	--	--	--	--	--	--	--	--	**5.4**
PCB-143	pg/g	**-- C134**	--	--	--	--	--	--	--	--	--	**-- C134**
PCB-144	pg/g	**6,180**	--	--	--	--	--	--	--	--	--	**871**
PCB-145	pg/g	**20.1**	--	--	--	--	--	--	--	--	--	**5.75**
PCB-146	pg/g	**13,600 C**	--	--	--	--	--	--	--	--	--	**2,030 C**
PCB-147	pg/g	**6,020**	--	--	--	--	--	--	--	--	--	**409**
PCB-148	pg/g	1.69 U	--	--	--	--	--	--	--	--	--	0.994 U
PCB-149	pg/g	**-- C139**	--	--	--	--	--	--	--	--	--	**-- C139**
PCB-150	pg/g	**1,120**	--	--	--	--	--	--	--	--	--	**13**
PCB-151	pg/g	**26,600**	--	--	--	--	--	--	--	--	--	**2,230**

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	**59.8**	--	--	--	--	--	--	--	--	--	**19**
PCB-153	pg/g	**130,000**	--	--	--	--	--	--	--	--	--	**15,500**
PCB-154	pg/g	**3,750**	--	--	--	--	--	--	--	--	--	**113**
PCB-155	pg/g	**36.8**	--	--	--	--	--	--	--	--	--	0.710 U
PCB-156 (Dioxin-Like)	pg/g	**9,520**	--	--	--	--	--	--	--	--	--	**2,830**
PCB-157 (Dioxin-Like)	pg/g	**1,480**	--	--	--	--	--	--	--	--	--	**623**
PCB-158	pg/g	**12,100 C**	--	--	--	--	--	--	--	--	--	**2,750 C**
PCB-159	pg/g	**1,230**	--	--	--	--	--	--	--	--	--	**84.3**
PCB-160	pg/g	**– C158**	--	--	--	--	--	--	--	--	--	**– C158**
PCB-161	pg/g	**– C132**	--	--	--	--	--	--	--	--	--	**– C132**
PCB-162	pg/g	**– C128**	--	--	--	--	--	--	--	--	--	**– C128**
PCB-163	pg/g	**– C138**	--	--	--	--	--	--	--	--	--	**– C138**
PCB-164	pg/g	**– C138**	--	--	--	--	--	--	--	--	--	**– C138**
PCB-165	pg/g	**– C146**	--	--	--	--	--	--	--	--	--	**– C146**
PCB-166	pg/g	**334**	--	--	--	--	--	--	--	--	--	**136**
PCB-167 (Dioxin-Like)	pg/g	**4,190**	--	--	--	--	--	--	--	--	--	**974**
PCB-168	pg/g	**198**	--	--	--	--	--	--	--	--	--	**28.1**
PCB-169	pg/g	1.51 U	--	--	--	--	--	--	--	--	--	1.11 U
PCB-170	pg/g	**45,100**	--	--	--	--	--	--	--	--	--	**2,920**
PCB-171	pg/g	**12,800**	--	--	--	--	--	--	--	--	--	**784**
PCB-172	pg/g	**7,180**	--	--	--	--	--	--	--	--	--	**418**
PCB-173	pg/g	**956**	--	--	--	--	--	--	--	--	--	**79.4**
PCB-174	pg/g	**41,000**	--	--	--	--	--	--	--	--	--	**2,380**
PCB-175	pg/g	**1,710**	--	--	--	--	--	--	--	--	--	**110**
PCB-176	pg/g	**6,030**	--	--	--	--	--	--	--	--	--	**355**
PCB-177	pg/g	**23,600**	--	--	--	--	--	--	--	--	--	**1,390**
PCB-178	pg/g	**8,910**	--	--	--	--	--	--	--	--	--	**425**
PCB-179	pg/g	**19,400**	--	--	--	--	--	--	--	--	--	**988**
PCB-180	pg/g	**89,800**	--	--	--	--	--	--	--	--	--	**4,910**
PCB-181	pg/g	2.07 U	--	--	--	--	--	--	--	--	--	1.64 U
PCB-182	pg/g	**56,700 C**	--	--	--	--	--	--	--	--	--	**2,610 C**
PCB-183	pg/g	**31,300**	--	--	--	--	--	--	--	--	--	**1,520**
PCB-184	pg/g	**40.7**	--	--	--	--	--	--	--	--	--	**2.18 J**
PCB-185	pg/g	**5,490**	--	--	--	--	--	--	--	--	--	**277**
PCB-186	pg/g	1.53 U	--	--	--	--	--	--	--	--	--	1.12 U
PCB-187	pg/g	**– C182**	--	--	--	--	--	--	--	--	--	**– C182**
PCB-188	pg/g	**232**	--	--	--	--	--	--	--	--	--	**2.30 J**
PCB-189 (Dioxin-Like)	pg/g	**1,570**	--	--	--	--	--	--	--	--	--	**117**
PCB-190	pg/g	**10,600**	--	--	--	--	--	--	--	--	--	**547**
PCB-191	pg/g	**2,120**	--	--	--	--	--	--	--	--	--	**117**
PCB-192	pg/g	**1.68 U**	--	--	--	--	--	--	--	--	--	1.27 U
PCB-193	pg/g	**5,220**	--	--	--	--	--	--	--	--	--	**244**

Sample Location[1]		MAF-01					MAF-02					MAF-03
Sample Identification		MAF-SC-01_0-2	MAF-SC-DUP-01	MAF-SC-01_4-6	MAF-SC-01_20-22	MAF-SC-DUP-02	MAF-SS-02_0-10	MAF-SC-02_0-2	MAF-SC-02_4-6	MAF-SC-02_20-22	MAF-SC-DUP-10	MAF-SS-03_0-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	11/10/2015	11/10/2015	11/10/2015	11/10/2015	10/20/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm	0 - 2 ft	4 - 6 ft	20 - 22 ft	20 - 22 ft	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	**23,500**	--	--	--	--	--	--	--	--	--	**927**
PCB-195	pg/g	**9,720**	--	--	--	--	--	--	--	--	--	**428**
PCB-196	pg/g	**28,900 C**	--	--	--	--	--	--	--	--	--	**1,120 C**
PCB-197	pg/g	**1,070**	--	--	--	--	--	--	--	--	--	**40.3**
PCB-198	pg/g	**1,310**	--	--	--	--	--	--	--	--	--	**64.4**
PCB-199	pg/g	**21,700**	--	--	--	--	--	--	--	--	--	**934**
PCB-200	pg/g	**2,980**	--	--	--	--	--	--	--	--	--	**125**
PCB-201	pg/g	**3,030**	--	--	--	--	--	--	--	--	--	**129**
PCB-202	pg/g	**3,480**	--	--	--	--	--	--	--	--	--	**175**
PCB-203	pg/g	**– C196**	--	--	--	--	--	--	--	--	--	**– C196**
PCB-204	pg/g	**10.2**	--	--	--	--	--	--	--	--	--	0.864 U
PCB-205	pg/g	**1,280**	--	--	--	--	--	--	--	--	--	**50.5**
PCB-206	pg/g	**5,260**	--	--	--	--	--	--	--	--	--	**274**
PCB-207	pg/g	**837**	--	--	--	--	--	--	--	--	--	**39.9**
PCB-208	pg/g	**880**	--	--	--	--	--	--	--	--	--	**54.5**
PCB-209	pg/g	**388**	--	--	--	--	--	--	--	--	--	**159**
Total PCBs Congeners	pg/g	**1,630,000**	--	--	--	--	--	--	--	--	--	**278,000 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**666**	**584**	--	--	**1.64 J**	**21.3**	**24.8**	--	**44.3**	--	--
PCB-002	pg/g	**149**	**182**	--	--	1.06 U	**9.81**	**28**	--	**59.9**	--	--
PCB-003	pg/g	**392**	**360**	--	--	1.03 U	**11.5**	**25.6**	--	**37.9**	--	--
PCB-004	pg/g	**1,050**	**760**	--	--	**4.69**	**38**	**16.4**	--	**43.1**	--	--
PCB-005	pg/g	**153 J**	**82.3 J**	--	--	**5.58**	**45**	2.05 U	--	**39.4**	--	--
PCB-006	pg/g	**602 J**	**279 J**	--	--	1.43 U	**13.1**	**23.5**	--	**23**	--	--
PCB-007	pg/g	**173 J**	**96.6 J**	--	--	1.30 U	**2.43 J**	**8.67**	--	**8.61**	--	--
PCB-008	pg/g	**5,010 J**	**1,980 J**	--	--	**7.26**	**19.3**	**84.3**	--	**45.5**	--	--
PCB-009	pg/g	**192 J**	**114 J**	--	--	1.49 U	**5.78**	**8.5**	--	**6.37**	--	--
PCB-010	pg/g	**56.2**	**34.5**	--	--	1.32 U	**1.88 J**	2.08 U	--	1.15 U	--	--
PCB-011	pg/g	**70.9**	**65.6**	--	--	1.68 U	**10.2**	**44.6**	--	**9.23**	--	--
PCB-012	pg/g	**95.3**	**82.9**	--	--	1.71 U	**3.25 J**	2.01 U	--	**13.1**	--	--
PCB-013	pg/g	**125 J**	**74.5 J**	--	--	1.49 U	**3.40 J**	1.97 U	--	**9.45**	--	--
PCB-014	pg/g	5.92 U	11.6 U	--	--	1.40 U	0.426 U	1.95 U	--	**2.91 J**	--	--
PCB-015	pg/g	**293**	**215**	--	--	**5.04**	**19.5**	2.86 U	--	**13.4**	--	--
PCB-016	pg/g	**7,930 J**	**4,740 J**	--	--	**21.5**	**144**	**49.8**	--	**39.4**	--	--
PCB-017	pg/g	**10,700**	**6,720**	--	--	**29.4**	**182**	**41.3**	--	**55.7**	--	--
PCB-018	pg/g	**27,600**	**20,500**	--	--	**93**	**398**	**52.2**	--	**72.7**	--	--
PCB-019	pg/g	**1,390**	**1,100**	--	--	**6.57**	**26.9**	**11.7**	--	**11.1**	--	--
PCB-020	pg/g	**33,500 J, C**	**16,400 J, C**	--	--	**46.1 C**	**470.0 C**	**138 C**	--	**119 C**	--	--
PCB-021	pg/g	**-- J, C020**	**-- J, C020**	--	--	**-- C020**	**-- C020**	**-- C020**	--	**-- C020**	--	--
PCB-022	pg/g	**14,900 J**	**6,990 J**	--	--	**28.2**	**239**	**58.1**	--	**69.3**	--	--
PCB-023	pg/g	29.4 U	49.4 U	--	--	0.476 U	1.32 U	1.74 U	--	1.16 U	--	--
PCB-024	pg/g	**389**	**274**	--	--	**2.30 J**	**7.15**	1.07 U	--	**4.15**	--	--
PCB-025	pg/g	**1,930 J**	**823 J**	--	--	**3.08 J**	**18.8**	**10.1**	--	**11.9**	--	--

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	**7,320 J**	**3,660 J**	--	--	**10.4**	**86.9**	**24.7**	--	**26.6**	--	--
PCB-027	pg/g	**790**	**579**	--	--	**1.95 J**	**16.1**	**7.83**	--	**3.16 J**	--	--
PCB-028	pg/g	**71,500 J**	**29,400 J**	--	--	**64.9**	**704**	**225**	--	**202**	--	--
PCB-029	pg/g	**122 J**	47.3 UJ	--	--	0.506 U	1.57 U	1.69 U	--	1.37 U	--	--
PCB-030	pg/g	10.6 U	19.6 U	--	--	0.814 U	0.716 U	1.05 U	--	0.862 U	--	--
PCB-031	pg/g	**63,600 J**	**33,900 J**	--	--	**84.9**	**1,250**	**265**	--	**222**	--	--
PCB-032	pg/g	**7,720**	**5,940**	--	--	**23**	**170**	**38.4**	--	**37**	--	--
PCB-033	pg/g	**– J, C020**	**– J, C020**	--	--	**– C020**	**– C020**	**– C020**	--	**– C020**	--	--
PCB-034	pg/g	**197 J**	**105 J**	--	--	0.629 U	1.83 U	1.72 U	--	1.60 U	--	--
PCB-035	pg/g	28.6 U	48.0 U	--	--	0.577 U	1.84 U	1.73 U	--	1.61 U	--	--
PCB-036	pg/g	28.5 U	47.8 U	--	--	0.556 U	1.71 U	1.69 U	--	1.50 U	--	--
PCB-037	pg/g	**12,700 J**	**3,240 J**	--	--	**12.5**	**122**	**50.6**	--	**16.2**	--	--
PCB-038	pg/g	26.5 U	44.5 U	--	--	0.517 U	1.48 U	1.61 U	--	1.29 U	--	--
PCB-039	pg/g	28.6 UJ	946 J	--	--	0.555 U	1.61 U	1.73 U	--	1.41 U	--	--
PCB-040	pg/g	**7,990**	**6,530**	--	--	**21**	**179**	**71.2**	--	**10.4**	--	--
PCB-041	pg/g	**42,800 C**	**28,700 C**	--	--	**100.0 C**	**1,140 C**	**420.0 C**	--	**47.1 C**	--	--
PCB-042	pg/g	**15,200 C**	**9,570 C**	--	--	**31.2 C**	**342 C**	**104 C**	--	**15.1 C**	--	--
PCB-043	pg/g	**35,800 J, C**	**18,100 J, C**	--	--	**91.4 C**	**1,240 C**	**483 C**	--	**69.7 C**	--	--
PCB-044	pg/g	**41,200**	**32,700**	--	--	**128**	**1,370**	**744**	--	**75.5**	--	--
PCB-045	pg/g	**8,170**	**7,470**	--	--	**18.8**	**270**	**42.8**	--	**17.8**	--	--
PCB-046	pg/g	**2,900**	**2,640**	--	--	**8.18**	**94.7**	**18.3**	--	**6.28**	--	--
PCB-047	pg/g	**6,670**	**4,360**	--	--	**22.6**	**393**	**130**	--	**23.4**	--	--
PCB-048	pg/g	**3,570 C**	**2,610 C**	--	--	**24.5 C**	**289 C**	**61.1 C**	--	**12.4 C**	--	--
PCB-049	pg/g	**– J, C043**	**– J, C043**	--	--	**– C043**	**– C043**	**– C043**	--	**– C043**	--	--
PCB-050	pg/g	**219**	**142**	--	--	0.762 U	**4.45**	0.959 U	--	0.555 U	--	--
PCB-051	pg/g	**2,300**	**1,810**	--	--	**5.67**	**76.9**	**8.57**	--	**6.28**	--	--
PCB-052	pg/g	**48,800 C**	**38,200 C**	--	--	**168 C**	**1,760 C**	**1,450 C**	--	**131 C**	--	--
PCB-053	pg/g	**7,200**	**6,600**	--	--	**20.4**	**270**	**64.7**	--	**19.8**	--	--
PCB-054	pg/g	**102**	**99.8**	--	--	0.563 U	**3.52 J**	0.738 U	--	0.420 U	--	--
PCB-055	pg/g	4.00 UJ	**206 J**	--	--	0.588 U	**29.2**	**15.6**	--	**3.07 J**	--	--
PCB-056	pg/g	**44,400 J, C**	**22,900 J, C**	--	--	**60.7 C**	**1,440 C**	**398 C**	--	**84.3 C**	--	--
PCB-057	pg/g	**472 J**	**199 J**	--	--	0.602 U	**7.02**	0.709 U	--	0.406 U	--	--
PCB-058	pg/g	15.9 U	17.6 U	--	--	0.640 U	**2.61 J**	**4.36**	--	0.413 U	--	--
PCB-059	pg/g	**– C042**	**– C042**	--	--	**– C042**	**– C042**	**– C042**	--	**– C042**	--	--
PCB-060	pg/g	**– J, C056**	**– J, C056**	--	--	**– C056**	**– C056**	**– C056**	--	**– C056**	--	--
PCB-061	pg/g	**66,900 C**	**64,100 C**	--	--	**132 C**	**2,100 C**	**362 C**	--	**135 C**	--	--
PCB-062	pg/g	16.0 U	17.8 U	--	--	0.621 U	0.761 U	0.807 U	--	0.467 U	--	--
PCB-063	pg/g	**4,140 J**	**1,710 J**	--	--	**3.65 J**	**79.1**	**18.8**	--	**4.74**	--	--
PCB-064	pg/g	**– C041**	**– C041**	--	--	**– C041**	**– C041**	**– C041**	--	**– C041**	--	--
PCB-065	pg/g	16.3 U	18.2 U	--	--	0.594 U	0.709 U	0.784 U	--	0.435 U	--	--
PCB-066	pg/g	**140,000 J, C**	**25,100 J, C**	--	--	**89.2 C**	**1,740 C**	**327 C**	--	**94.5 C**	--	--
PCB-067	pg/g	**3,000 J**	**1,030 J**	--	--	**2.30 J**	**35.2**	**4.14**	--	**2.02 J**	--	--

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	**150.0 J**	**28.2 J**	--	--	0.593 U	0.634 U	0.700 U	--	0.389 U	--	--
PCB-069	pg/g	**-- C052**	**-- C052**	--	--	**-- C052**	**-- C052**	**-- C052**	--	**-- C052**	--	--
PCB-070	pg/g	**-- C061**	**-- C061**	--	--	**-- C061**	**-- C061**	**-- C061**	--	**-- C061**	--	--
PCB-071	pg/g	**-- C041**	**-- C041**	--	--	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	--	--
PCB-072	pg/g	**-- C041**	**-- C041**	--	--	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	--	--
PCB-073	pg/g	**9,260**	**7890**	--	--	0.570 U	0.727 U	0.778 U	--	0.446 U	--	--
PCB-074	pg/g	**59,200 J**	**23,800 J**	--	--	**48.2**	**1160**	**157**	--	**71.7**	--	--
PCB-075	pg/g	**-- C048**	**-- C048**	--	--	**-- C048**	**-- C048**	**-- C048**	--	**-- C048**	--	--
PCB-076	pg/g	**-- J, C066**	**-- J, C066**	--	--	**-- C066**	**-- C066**	**-- C066**	--	**-- C066**	--	--
PCB-077 (Dioxin-Like)	pg/g	**9,980 J**	**2,560 J**	--	--	**6.37**	**146**	**36.3**	--	**7.47**	--	--
PCB-078	pg/g	**97.3**	**63.2**	--	--	0.618 U	1.19 U	0.991 U	--	1.29 U	--	--
PCB-079	pg/g	**598 J**	**333 J**	--	--	**1.83 J**	**16.7**	**22.7**	--	**4**	--	--
PCB-080	pg/g	13.0 U	14.5 U	--	--	0.534 U	0.542 U	0.612 U	--	0.332 U	--	--
PCB-081 (Dioxin-Like)	pg/g	**972**	**644**	--	--	**3.73 J**	**42.8**	**47**	--	**6.22**	--	--
PCB-082	pg/g	**5210**	**5,100**	--	--	**21.6**	**398**	**265**	--	**46.8**	--	--
PCB-083	pg/g	**2,100 C**	**1,620 C**	--	--	**6.91 C**	**125 C**	**83.3 C**	--	**14.4 C**	--	--
PCB-084	pg/g	**24,000 C**	**23,400 C**	--	--	**89.8 C**	**1,310 C**	**535 C**	--	**157 C**	--	--
PCB-085	pg/g	**7,010 C**	**6,520 C**	--	--	**27.1 C**	**506 C**	**342 C**	--	**67.0 C**	--	--
PCB-086	pg/g	**435**	**294**	--	--	**1.73 J**	1.20 U	1.64 U	--	1.39 U	--	--
PCB-087	pg/g	**20,900 C**	**21,200 C**	--	--	**81.4 C**	**1110 C**	**1,010 C**	--	**140.0 C**	--	--
PCB-088	pg/g	**1,540 J, C**	**7,420 J, C**	--	--	**27.9 C**	**450.0 C**	**332 C**	--	**84.2 C**	--	--
PCB-089	pg/g	**652**	**733**	--	--	**3.11 J**	**54**	**14.3**	--	**5.61**	--	--
PCB-090	pg/g	**126,000 C**	**117,000 C**	--	--	357 C	3340 C	**1,670 C**	--	**396 C**	--	--
PCB-091	pg/g	**-- J, C088**	**-- J, C088**	--	--	**-- C088**	**-- C088**	**-- C088**	--	**-- C088**	--	--
PCB-092	pg/g	**-- C084**	**-- C084**	--	--	**-- C084**	**-- C084**	**-- C084**	--	**-- C084**	--	--
PCB-093	pg/g	18.0 U	27.3 U	--	--	1.11 U	1.13 U	1.95 U	--	1.74 U	--	--
PCB-094	pg/g	**458**	**321**	--	--	1.08 U	**20.7**	**8.62**	--	**3.77 J**	--	--
PCB-095	pg/g	**63,100**	**63,600**	--	--	**318**	**2,780**	**1,850**	--	**429**	--	--
PCB-096	pg/g	**435**	**311**	--	--	**2.10 J**	**24**	**13**	--	**3.42 J**	--	--
PCB-097	pg/g	**15,500**	**11,800**	--	--	**45.1**	**782**	**613**	--	**103**	--	--
PCB-098	pg/g	13.3 U, C	20.2 U, C	--	--	0.854 U, C	0.860 U, C	1.85 U, C	--	1.32 U, C	--	--
PCB-099	pg/g	**39,600**	**24,500**	--	--	**70.2**	**1,290**	**795**	--	**186**	--	--
PCB-100	pg/g	**2,310 J**	**828 J**	--	--	0.871 U	**9.96**	**6.27**	--	**2.71 J**	--	--
PCB-101	pg/g	**-- C090**	**-- C090**	--	--	**-- C090**	**-- C090**	**-- C090**	--	**-- C090**	--	--
PCB-102	pg/g	-- U, C098	-- U, C098	--	--	-- U, C098	-- U, C098	-- U, C098	--	-- U, C098	--	--
PCB-103	pg/g	**2,060 J**	**1,020 J**	--	--	0.849 U	**19.1**	**13.3**	--	**3.16 J**	--	--
PCB-104	pg/g	11.0 U	16.7 U	--	--	0.614 U	0.756 U	1.40 U	--	1.16 U	--	--
PCB-105 (Dioxin-Like)	pg/g	**16,200**	**13,200**	--	--	**58.4**	**1,030**	**1,100**	--	**132**	--	--
PCB-106	pg/g	**51,700 C**	**39,700 C**	--	--	**157 C**	**2,470 C**	**2,740 C**	--	**317 C**	--	--
PCB-107	pg/g	**2,690 C**	**1,710 C**	--	--	**7.47 C**	**154 C**	**149 C**	--	**20.2 C**	--	--
PCB-108	pg/g	**-- C107**	**-- C107**	--	--	**-- C107**	**-- C107**	**-- C107**	--	**-- C107**	--	--
PCB-109	pg/g	**47.4**	**43**	--	--	1.35 U	0.820 U	1.42 U	--	0.956 U	--	--

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	**69,600**	**62,800**	--	--	**230**	**2,710**	**2,300**	--	**310**	--	--
PCB-111	pg/g	**1,030 C**	**899 C**	--	--	**3.97 C**	**61.1 C**	**45.4 C**	--	**6.40 C**	--	--
PCB-112	pg/g	**-- C083**	**-- C083**	--	--	**-- C083**	**-- C083**	**-- C083**	--	**-- C083**	--	--
PCB-113	pg/g	8.52 U	10.8 U	--	--	1.47 U	0.862 U	1.45 U	--	1.00 U	--	--
PCB-114 (Dioxin-Like)	pg/g	**1,550**	**1,240**	--	--	**4.41**	**69.7**	**71.8**	--	**10.6**	--	--
PCB-115	pg/g	**-- C111**	**-- C111**	--	--	**-- C111**	**-- C111**	**-- C111**	--	**-- C111**	--	--
PCB-116	pg/g	**-- C085**	**-- C085**	--	--	**-- C085**	**-- C085**	**-- C085**	--	**-- C085**	--	--
PCB-117	pg/g	**-- C087**	**-- C087**	--	--	**-- C087**	**-- C087**	**-- C087**	--	**-- C087**	--	--
PCB-118 (Dioxin-Like)	pg/g	**-- C106**	**-- C106**	--	--	**-- C106**	**-- C106**	**-- C106**	--	**-- C106**	--	--
PCB-119	pg/g	**2,020 J**	**1,020 J**	--	--	**2.69 J**	**45.9**	**25.3**	--	**6.04**	--	--
PCB-120	pg/g	**338**	**455**	--	--	**1.75 J**	**10.2**	1.20 U	--	0.824 U	--	--
PCB-121	pg/g	12.4 U	18.8 U	--	--	**19.6**	0.765 U	1.49 U	--	1.18 U	--	--
PCB-122	pg/g	**736**	**531**	--	--	**2.02 J**	**33**	**27.1**	--	**3.91 J**	--	--
PCB-123 (Dioxin-Like)	pg/g	**963**	**593**	--	--	**2.16 J**	**34.2**	**39.9**	--	**4.28**	--	--
PCB-124	pg/g	**2,460**	**2,270**	--	--	**7.69**	**115**	**126**	--	**10.9**	--	--
PCB-125	pg/g	**-- C087**	**-- C087**	--	--	**-- C087**	**-- C087**	**-- C087**	--	**-- C087**	--	--
PCB-126 (Dioxin-Like)	pg/g	**275**	**186**	--	--	0.834 U	**10.4**	**9.43**	--	1.37 U	--	--
PCB-127	pg/g	14.7 U	12.9 U	--	--	0.802 U	0.987 U	1.49 U	--	1.10 U	--	--
PCB-128	pg/g	**11,600 C**	**13,700 C**	--	--	**41.6 C**	**512 C**	**394 C**	--	**57.0 C**	--	--
PCB-129	pg/g	**3,070**	**3,640**	--	--	**14.6**	**166**	**103**	--	**20.5**	--	--
PCB-130	pg/g	**5,110**	**5,630**	--	--	**19.9**	**189**	**125**	--	**18.3**	--	--
PCB-131	pg/g	**2,910 C**	**3,240 C**	--	--	**8.37 C**	**83.8 C**	**59.0 C**	--	**9.11 C**	--	--
PCB-132	pg/g	**48,500 C**	**44,000 C**	--	--	**126 C**	**1,080 C**	**603 C**	--	**107 C**	--	--
PCB-133	pg/g	**-- C131**	**-- C131**	--	--	**-- C131**	**-- C131**	**-- C131**	--	**-- C131**	--	--
PCB-134	pg/g	**6,940 C**	**7,590 C**	--	--	**18.0 C**	**177 C**	**109 C**	--	**19.8 C**	--	--
PCB-135	pg/g	**24,700**	**29,000**	--	--	**56.5**	**567**	**221**	--	**33.5**	--	--
PCB-136	pg/g	**32,300**	**36,500**	--	--	**103**	**627**	**234**	--	**39.5**	--	--
PCB-137	pg/g	**2,620**	**2,580**	--	--	**7.62**	**164**	**146**	--	**24.1**	--	--
PCB-138	pg/g	**161,000 C**	**182,000 C**	--	--	**436 C**	**3,730 C**	**1,900 C**	--	**270.0 C**	--	--
PCB-139	pg/g	**193,000 C**	**203,000 C**	--	--	**454 C**	**4,650 C**	**1,300 C**	--	**228 C**	--	--
PCB-140	pg/g	**118**	**161**	--	--	1.52 U	**18.6**	**8.03**	--	**2.10 J**	--	--
PCB-141	pg/g	**50,600**	**55,600**	--	--	**133**	**1,130**	**365**	--	**48.3**	--	--
PCB-142	pg/g	15.6 U	11.2 U	--	--	1.79 U	1.13 U	1.04 U	--	1.45 U	--	--
PCB-143	pg/g	**-- C134**	**-- C134**	--	--	**-- C134**	**-- C134**	**-- C134**	--	**-- C134**	--	--
PCB-144	pg/g	**12,000**	**12,600**	--	--	**34.4**	**349**	**95.1**	--	**15.2**	--	--
PCB-145	pg/g	3.46 U	15.7 U	--	--	0.477 U	0.661 U	1.40 U	--	0.628 U	--	--
PCB-146	pg/g	**23,000 C**	**24,100 C**	--	--	**51.2 C**	**470.0 C**	**212 C**	--	**30.4 C**	--	--
PCB-147	pg/g	**5,040 J**	**2,930 J**	--	--	**4.16**	**48.3**	**33.6**	--	**8.02**	--	--
PCB-148	pg/g	4.06 U	18.4 U	--	--	0.581 U	0.912 U	1.79 U	--	0.866 U	--	--
PCB-149	pg/g	**-- C139**	**-- C139**	--	--	**-- C139**	**-- C139**	**-- C139**	--	**-- C139**	--	--
PCB-150	pg/g	**1,510 J**	**764 J**	--	--	0.435 U	**2.78 J**	**2.79 J**	--	0.656 U	--	--
PCB-151	pg/g	**31,000**	**32,600**	--	--	**172**	**2,050**	**296**	--	**54.1**	--	--

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	3.32 U	15.1 U	--	--	0.448 U	**2.81 J**	**3.97**	--	0.663 U	--	--
PCB-153	pg/g	**216,000**	**230,000**	--	--	**505**	**5,360**	**1,510**	--	**224**	--	--
PCB-154	pg/g	**4,740 J**	**2,080 J**	--	--	**2.23 J**	**15**	**13.8**	--	**2.54 J**	--	--
PCB-155	pg/g	**105 J**	**50.7 J**	--	--	0.383 U	0.652 U	1.22 U	--	0.619 U	--	--
PCB-156 (Dioxin-Like)	pg/g	**11,000**	**12,600**	--	--	**33.7**	**367**	**282**	--	**31.4**	--	--
PCB-157 (Dioxin-Like)	pg/g	**425 J**	**787 J**	--	--	**3.74 J**	**69.6**	**66.5**	--	**8.14**	--	--
PCB-158	pg/g	**18,400 C**	**20,300 C**	--	--	**50.4 C**	**449 C**	**278 C**	--	**39.2 C**	--	--
PCB-159	pg/g	**2320**	**2,300**	--	--	**5.28**	**172**	**15.7**	--	0.887 U	--	--
PCB-160	pg/g	**– C158**	**– C158**	--	--	**– C158**	**– C158**	**– C158**	--	**– C158**	--	--
PCB-161	pg/g	**– C132**	**– C132**	--	--	**– C132**	**– C132**	**– C132**	--	**– C132**	--	--
PCB-162	pg/g	**– C128**	**– C128**	--	--	**– C128**	**– C128**	**– C128**	--	**– C128**	--	--
PCB-163	pg/g	**– C138**	**– C138**	--	--	**– C138**	**– C138**	**– C138**	--	**– C138**	--	--
PCB-164	pg/g	**– C138**	**– C138**	--	--	**– C138**	**– C138**	**– C138**	--	**– C138**	--	--
PCB-165	pg/g	**– C146**	**– C146**	--	--	**– C146**	**– C146**	**– C146**	--	**– C146**	--	--
PCB-166	pg/g	**58.7 J**	**634 J**	--	--	**1.58 J**	**12.2**	**8.56**	--	0.959 U	--	--
PCB-167 (Dioxin-Like)	pg/g	**4,410**	**4,610**	--	--	**13.1**	**127**	**101**	--	**12.1**	--	--
PCB-168	pg/g	**242**	**180**	--	--	1.18 U	0.683 U	**2.15 J**	--	0.876 U	--	--
PCB-169	pg/g	10.1 U	4.39 U	--	--	1.09 U	0.621 U	0.679 U	--	0.963 U	--	--
PCB-170	pg/g	**74,700**	**79,900**	--	--	**184**	**2,280**	**369**	--	**40**	--	--
PCB-171	pg/g	**21,600**	**24,100**	--	--	**52.8**	**646**	**112**	--	**13.6**	--	--
PCB-172	pg/g	**12,400**	**13,500**	--	--	**29.1**	**462**	**61.2**	--	**6.67**	--	--
PCB-173	pg/g	**1,900**	**2,000**	--	--	**5.03**	**36.1**	**11.7**	--	0.856 U	--	--
PCB-174	pg/g	**78,900**	**88,400**	--	--	**191**	**3,700**	**323**	--	**34.8**	--	--
PCB-175	pg/g	**3,420**	**3,730**	--	--	**8**	**146**	**22.8**	--	**1.94 J**	--	--
PCB-176	pg/g	**10,600**	**12,200**	--	--	**27.2**	**515**	**55.6**	--	**6.12**	--	--
PCB-177	pg/g	**42,800**	**47,500**	--	--	**110**	**1,840**	**180**	--	**21.9**	--	--
PCB-178	pg/g	**15,400**	**15,900**	--	--	**36**	**797**	**62.8**	--	**7.49**	--	--
PCB-179	pg/g	**34,100**	**36,500**	--	--	**79.5**	**2,000**	**158**	--	**16**	--	--
PCB-180	pg/g	**169,000**	**180,000**	--	--	**357**	**8,490**	**821**	--	**65.7**	--	--
PCB-181	pg/g	9.94 U	15.3 U	--	--	0.780 U	1.13 U	1.96 U	--	0.763 U	--	--
PCB-182	pg/g	**98,800 C**	**102,000 C**	--	--	**208 C**	**5,970 C**	**488 C**	--	**42.4 C**	--	--
PCB-183	pg/g	**50,500**	**54,400**	--	--	**112**	**2,470**	**266**	--	**25.1**	--	--
PCB-184	pg/g	**58.3 J**	10.7 UJ	--	--	0.532 U	0.753 U	1.32 U	--	0.510 U	--	--
PCB-185	pg/g	**10,500**	**11,200**	--	--	**23.2**	**657**	**59.4**	--	**5.07**	--	--
PCB-186	pg/g	7.53 U	11.6 U	--	--	0.574 U	0.770 U	1.42 U	--	0.522 U	--	--
PCB-187	pg/g	**– C182**	**– C182**	--	--	**– C182**	**– C182**	**– C182**	--	**– C182**	--	--
PCB-188	pg/g	**488 J**	**226 J**	--	--	0.598 U	0.790 U	1.53 U	--	0.538 U	--	--
PCB-189 (Dioxin-Like)	pg/g	**2,620**	**2,870**	--	--	**5.79**	**54.8**	**23**	--	**1.93 J**	--	--
PCB-190	pg/g	**17,900**	**18,800**	--	--	**35.8**	**626**	**86.4**	--	**8.34**	--	--
PCB-191	pg/g	**3,720**	**3,900**	--	--	**7.69**	**104**	**18.8**	--	**2.08 J**	--	--
PCB-192	pg/g	8.27 U	12.7 U	--	--	0.633 U	0.872 U	1.61 U	--	0.591 U	--	--
PCB-193	pg/g	**9,120**	**9,400**	--	--	**21.1**	**397**	**39.4**	--	**4.27**	--	--

Sample Location[1]		MAF-03					MAF-04					
Sample Identification		MAF-SC-03_0-2	MAF-SC-DUP-03	MAF-SC-03_4-6	MAF-SC-03_8-10	MAF-SC-03_21-23	MAF-SS-04_0-10	MAF-SC-04_0-2[3]	MAF-SC-DUP-05	MAF-SC-04_2-4[4]	MAF-SC-04_4-6	MAF-SC-04_8-10
Sample Date		11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	10/20/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015	10/26/2015
Sample Interval (dbm)		0 - 2 ft	0 - 2 ft	4 - 6 ft	8 - 10 ft	21 - 23 ft	0-10 cm	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	8 - 10 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	**31,600**	**33,600**	--	--	**65.2**	**3,790**	**290**	--	**15.4**	--	--
PCB-195	pg/g	**17,000**	**16,900**	--	--	**25**	**1,240**	**110**	--	**6.44**	--	--
PCB-196	pg/g	**40,000 C**	**37,800 C**	--	--	**76.5 C**	**5,220 C**	**431 C**	--	**25.5 C**	--	--
PCB-197	pg/g	**1,560**	**1,540**	--	--	**3.23 J**	**150**	**16.8**	--	0.700 U	--	--
PCB-198	pg/g	**1,810**	**1,620**	--	--	**5.36**	**241**	**20.7**	--	1.14 U	--	--
PCB-199	pg/g	**30,300**	**29,200**	--	--	**71.8**	**4,880**	**359**	--	**24**	--	--
PCB-200	pg/g	**3,730**	**3,890**	--	--	**9.9**	**654**	**46.4**	--	**3.16 J**	--	--
PCB-201	pg/g	**3,990**	**4,230**	--	--	**9.3**	**622**	**55.7**	--	**4.06**	--	--
PCB-202	pg/g	**5,160**	**5,060**	--	--	**12.1**	**927**	**83.7**	--	**6.2**	--	--
PCB-203	pg/g	**– C196**	**– C196**	--	--	**– C196**	**– C196**	**– C196**	--	**– C196**	--	--
PCB-204	pg/g	8.96 U	19.9 U	--	--	0.634 U	0.579 U	0.832 U	--	0.712 U	--	--
PCB-205	pg/g	**1,890**	**1,800**	--	--	**2.94 J**	**163**	**17**	--	0.971 U	--	--
PCB-206	pg/g	**7,270**	**6,040**	--	--	**8.53**	**1740**	**224**	--	**23.5**	--	--
PCB-207	pg/g	**1,010**	**899**	--	--	**1.58 J**	**254**	**34.6**	--	**4.11**	--	--
PCB-208	pg/g	**1,100**	**975**	--	--	**1.47 J**	**341**	**63.7**	--	**9.6**	--	--
PCB-209	pg/g	**3,500**	**5,810**	--	--	**2.36 J**	**79.4**	**51.4**	--	**37.7**	--	--
Total PCBs Congeners	pg/g	**2,980,000 J**	**2,650,000 J**	--	--	**7,070 J**	**111,000 J**	**33,900 J**	--	**6,320 J**	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	0.642 U	**46.8**	**17.6**	--	0.723 U	**18.7**	--	--	**5.04**	**58.2**	**8.44 J**
PCB-002	pg/g	0.941 U	**7.12**	**4.26**	--	0.978 U	**4.2**	--	--	0.815 U	**12.4**	1.63 UJ
PCB-003	pg/g	0.933 U	**17.9**	**11.8**	--	0.902 U	**9.48**	--	--	**2.81 J**	**47**	**7.65 J**
PCB-004	pg/g	1.64 U	**108**	**36**	--	1.85 U	**10.5**	--	--	**3.40 J**	**40.5**	**5.11 J**
PCB-005	pg/g	1.15 U	**57.3**	**27.9**	--	1.22 U	**15.5**	--	--	**3.56 J**	1.07 U	1.67 U
PCB-006	pg/g	1.23 U	**37.2**	**16.4**	--	1.30 U	**7.3**	--	--	**2.50 J**	**29.3**	**3.66 J**
PCB-007	pg/g	1.11 U	**8.55**	**4.71**	--	1.18 U	**1.55 J**	--	--	0.893 U	**10.5**	**2.64 J**
PCB-008	pg/g	1.18 U	**83.6**	**22.6**	--	1.25 U	**15.2**	--	--	**8.49**	**118**	**21.7 J**
PCB-009	pg/g	1.27 U	**12.9**	**5.19**	--	1.35 U	**3.10 J**	--	--	1.02 U	**11**	1.52 UJ
PCB-010	pg/g	1.13 U	**2.94 J**	**2.61 J**	--	1.20 U	1.00 U	--	--	0.992 U	1.15 U	1.70 U
PCB-011	pg/g	1.43 U	**11.7**	**7.89**	--	1.52 U	**10.8**	--	--	**4.74**	**24.6**	**6.17 J**
PCB-012	pg/g	1.46 U	**3.32 J**	**5.05**	--	1.55 U	**2.05 J**	--	--	1.09 U	**5.92**	1.63 U
PCB-013	pg/g	1.27 U	**6.4**	**2.00 J**	--	1.35 U	**2.19 J**	--	--	1.09 U	**8.29**	**3.78 J**
PCB-014	pg/g	1.20 U	0.704 U	1.51 U	--	1.27 U	1.06 U	--	--	1.05 U	1.05 U	1.58 U
PCB-015	pg/g	1.25 U	**49.9**	**25.4**	--	1.27 U	**16.3**	--	--	**5.41**	**56.1**	**23.1 J**
PCB-016	pg/g	1.33 U	**114**	**41.5**	--	1.60 U	**14.6**	--	--	**7.09**	**46.4**	**14.4 J**
PCB-017	pg/g	1.39 U	**160**	**55.7**	--	1.68 U	**23.4**	--	--	**9.88**	**74**	**16.7 J**
PCB-018	pg/g	1.55 U	**259**	**133**	--	1.86 U	**57.1**	--	--	**26.3**	**173**	**42.9 J**
PCB-019	pg/g	1.45 U	**32.8**	**13.4**	--	1.75 U	**4.48**	--	--	**3.15 J**	**14.6**	**4.34 J**
PCB-020	pg/g	1.23 U, C	**357 C**	**107 C**	--	1.48 U, C	**48.7 C**	--	--	**16.4 C**	**194 C**	**28.3 J, C**
PCB-021	pg/g	-- U, C020	**-- C020**	**-- C020**	--	-- U, C020	**-- C020**	--	--	**-- C020**	**-- C020**	**-- J, C020**
PCB-022	pg/g	1.28 U	**205**	**45.7**	--	1.53 U	**33.5**	--	--	**12.3**	**120**	**21.5 J**
PCB-023	pg/g	1.19 U	1.05 U	0.832 U	--	1.43 U	1.32 U	--	--	1.06 U	1.71 U	1.31 U
PCB-024	pg/g	1.07 U	**8.05**	**3.32 J**	--	1.29 U	**1.50 J**	--	--	0.942 U	**2.57 J**	0.860 UJ
PCB-025	pg/g	1.09 U	**31.3**	**16.3**	--	1.31 U	**7.98**	--	--	**2.87 J**	**29.6**	**4.08 J**

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	1.37 U	**91.4**	**38.3**	--	1.64 U	**18.5**	--	--	**6.59**	**64.2**	**9.63 J**
PCB-027	pg/g	1.02 U	**16.5**	**6.9**	--	1.23 U	**3.34 J**	--	--	**2.38 J**	**12.4**	**3.58 J**
PCB-028	pg/g	1.07 U	**536**	**172**	--	1.29 U	**91**	--	--	**26.7**	**390**	**58.7 J**
PCB-029	pg/g	1.27 U	1.24 U	0.885 U	--	1.52 U	1.56 U	--	--	1.26 U	1.66 U	1.27 U
PCB-030	pg/g	1.05 U	0.768 U	2.21 U	--	1.27 U	0.912 U	--	--	0.860 U	1.10 U	0.849 U
PCB-031	pg/g	1.32 U	**865**	**175**	--	1.58 U	**102**	--	--	**34.6**	**359**	**56.7 J**
PCB-032	pg/g	1.10 U	**119**	**35.9**	--	1.33 U	**19**	--	--	**8.6**	**58.9**	**12.5 J**
PCB-033	pg/g	-- U, C020	**-- C020**	**-- C020**	--	-- U, C020	**-- C020**	--	--	**-- C020**	**-- C020**	**-- J, C020**
PCB-034	pg/g	1.57 U	1.44 U	1.10 U	--	1.89 U	1.82 U	--	--	1.47 U	1.71 U	1.29 U
PCB-035	pg/g	1.44 U	1.45 U	1.01 U	--	1.73 U	1.83 U	--	--	1.48 U	1.70 U	1.30 U
PCB-036	pg/g	1.39 U	1.36 U	0.972 U	--	1.67 U	1.71 U	--	--	1.38 U	1.63 U	1.27 U
PCB-037	pg/g	1.22 U	**51.7**	**33.1**	--	1.47 U	**20.9**	--	--	**8.8**	**75.5**	**23.1 J**
PCB-038	pg/g	1.29 U	1.17 U	0.903 U	--	1.55 U	1.47 U	--	--	1.19 U	1.58 U	1.21 U
PCB-039	pg/g	1.39 U	1.28 U	0.971 U	--	1.66 U	1.61 U	--	--	1.30 U	1.66 U	1.30 U
PCB-040	pg/g	1.70 U	**67.9**	**29.2**	--	1.04 U	**7.94**	--	--	**5.64**	**41.5**	**19.6 J**
PCB-041	pg/g	1.01 U, C	**398 C**	**150.0 C**	--	1.85 J, C	**41.7 C**	--	--	**27.4 C**	**173 C**	**90.8 J, C**
PCB-042	pg/g	1.06 U, C	**110.0 C**	**48.9 C**	--	0.650 U, C	**15.4 C**	--	--	**10.2 C**	**54.2 C**	**30.1 J, C**
PCB-043	pg/g	1.26 U, C	**752 C**	**163 C**	--	1.80 J, C	**63.8 C**	--	--	**39.6 C**	**191 C**	**98.2 J, C**
PCB-044	pg/g	1.42 U	**916**	**215**	--	**2.25 J**	**60.7**	--	--	**41.9**	**194**	**129 J**
PCB-045	pg/g	1.39 U	**80.3**	**29.6**	--	0.851 U	**10.2**	--	--	**6.86**	**27.7**	**13.0 J**
PCB-046	pg/g	1.49 U	**25.7**	**13**	--	0.912 U	**4.07**	--	--	**2.78 J**	**11.1**	**5.72 J**
PCB-047	pg/g	0.975 U	**142**	**33.5**	--	**1.68 J**	**18.7**	--	--	**11.6**	**53.3**	**32.0 J**
PCB-048	pg/g	1.01 U, C	**90.1 C**	**31.4 C**	--	0.621 U, C	**10.9 C**	--	--	**7.91 C**	**36.2 C**	**18.2 J, C**
PCB-049	pg/g	-- U, C043	**-- C043**	**-- C043**	--	**-- J, C043**	**-- C043**	--	--	**-- C043**	**-- C043**	**-- J, C043**
PCB-050	pg/g	1.24 U	0.926 U	0.648 U	--	0.759 U	0.667 U	--	--	0.678 U	1.57 U	1.36 U
PCB-051	pg/g	1.22 U	**21.7**	**8.5**	--	0.745 U	**3.92 J**	--	--	**2.79 J**	**8.84**	**4.25 J**
PCB-052	pg/g	0.988 U, C	**2,070 C**	**314 C**	--	**2.44 J, C**	**94.8 C**	--	--	**63.6 C**	**337 C**	**192 J, C**
PCB-053	pg/g	1.26 U	**104**	**33.4**	--	0.770 U	**11.1**	--	--	**6.48**	**32.7**	**13.3 J**
PCB-054	pg/g	0.917 U	0.700 U	0.479 U	--	0.561 U	0.505 U	--	--	**0.513 U**	1.27 U	1.05 U
PCB-055	pg/g	0.957 U	**21.4**	**7.66**	--	0.585 U	0.441 U	--	--	**0.448 U**	**9.03**	**4.23 J**
PCB-056	pg/g	0.632 U, C	**591 C**	**111 C**	--	0.738 U, C	**68.9 C**	--	--	**29.6 C**	**244 C**	**81.9 J, C**
PCB-057	pg/g	0.981 U	0.677 U	**1.36 J**	--	0.600 U	0.488 U	--	--	**0.496 U**	1.19 U	1.00 U
PCB-058	pg/g	1.04 U	0.689 U	0.544 U	--	0.637 U	0.496 U	--	--	0.504 U	1.22 U	1.03 U
PCB-059	pg/g	-- U, C042	**-- C042**	**-- C042**	--	-- U, C042	**-- C042**	--	--	**-- C042**	**-- C042**	**-- J, C042**
PCB-060	pg/g	-- U, C056	**-- C056**	**-- C056**	--	-- U, C056	**-- C056**	--	--	**-- C056**	**-- C056**	**-- J, C056**
PCB-061	pg/g	0.949 U, C	**1,880 C**	**313 C**	--	**1.80 J, C**	**119 C**	--	--	**50.1 C**	511 C	**187 J, C**
PCB-062	pg/g	1.01 U	0.778 U	0.528 U	--	0.619 U	0.561 U	--	--	0.570 U	1.30 U	1.14 U
PCB-063	pg/g	0.985 U	**37.8**	**7.8**	--	0.603 U	**3.78 J**	--	--	**2.09 J**	**15.5**	**5.77 J**
PCB-064	pg/g	-- U, C041	**-- C041**	**-- C041**	--	**-- J, C041**	**-- C041**	--	--	**-- C041**	**-- C041**	**-- J, C041**
PCB-065	pg/g	0.967 U	0.726 U	0.505 U	--	0.592 U	0.523 U	--	--	0.531 U	1.29 U	1.11 U
PCB-066	pg/g	0.900 U, C	**978 C**	**177 C**	--	**1.45 J, C**	**86.0 C**	--	--	**40.0 C**	**355 C**	**127 J, C**
PCB-067	pg/g	0.983 U	**9.7**	**5.91**	--	0.601 U	**2.81 J**	--	--	**1.36 J**	**10.6**	**3.90 J**

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	0.965 U	0.648 U	**1.22 J**	--	0.590 U	0.467 U	--	--	0.475 U	1.17 U	0.991 UJ
PCB-069	pg/g	-- U, C052	**-- C052**	**-- C052**	--	**-- J, C052**	**-- C052**	--	--	**-- C052**	**-- C052**	**-- J, C052**
PCB-070	pg/g	-- U, C061	**-- C061**	**-- C061**	--	**-- J, C061**	**-- C061**	--	--	**-- C061**	**-- C061**	**-- J, C061**
PCB-071	pg/g	-- U, C041	**-- C041**	**-- C041**	--	**-- J, C041**	**-- C041**	--	--	**-- C041**	**-- C041**	**-- J, C041**
PCB-072	pg/g	-- U, C041	**-- C041**	**-- C041**	--	**-- J, C041**	**-- C041**	--	--	**-- C041**	**-- C041**	**-- J, C041**
PCB-073	pg/g	0.928 U	0.743 U	0.485 U	--	0.568 U	0.536 U	--	--	0.544 U	1.24 U	1.10 U
PCB-074	pg/g	0.946 U	**692**	**108**	--	0.579 U	**54.3**	--	--	**22.9**	**205**	**71.8 J**
PCB-075	pg/g	-- U, C048	**-- C048**	**-- C048**	--	-- U, C048	**-- C048**	--	--	**-- C048**	**-- C048**	**-- J, C048**
PCB-076	pg/g	-- U, C066	**-- C066**	**-- C066**	--	**-- J, C066**	**-- C066**	--	--	**-- C066**	**-- C066**	**-- J, C066**
PCB-077 (Dioxin-Like)	pg/g	0.653 U	**63.7**	**19**	--	0.763 U	**10.4**	--	--	**4.59**	**34**	**13.4 J**
PCB-078	pg/g	0.648 U	1.39 U	1.23 U	--	0.756 U	1.26 U	--	--	1.26 U	1.11 U	0.753 UJ
PCB-079	pg/g	0.629 U	**51.9**	**6.4**	--	0.734 U	**2.29 J**	--	--	1.26 U	**8.75**	**5.49 J**
PCB-080	pg/g	0.869 U	0.554 U	0.454 U	--	0.532 U	0.399 U	--	--	0.406 U	1.05 U	0.866 U
PCB-081 (Dioxin-Like)	pg/g	0.584 U	**86.1**	**10.3**	--	0.681 U	**3.22 J**	--	--	**2.44 J**	**13.9**	**8.75 J**
PCB-082	pg/g	1.45 U	**796**	**80.6**	--	1.41 U	**27.1**	--	--	**14.4**	**77.8**	**46.4 J**
PCB-083	pg/g	1.01 U, C	**309 C**	**25.9 C**	--	0.986 U, C	**9.32 C**	--	--	**6.37 C**	**25.5 C**	**17.2 J, C**
PCB-084	pg/g	1.15 U, C	**3,480 C**	**249 C**	--	1.12 U, C	**91.7 C**	--	--	**62.6 C**	**227 C**	**151 J, C**
PCB-085	pg/g	1.01 U, C	**989 C**	**101 C**	--	0.988 U, C	**38.1 C**	--	--	**18.7 C**	**100.0 C**	**65.1 J, C**
PCB-086	pg/g	1.24 U	1.92 U	1.86 U	--	1.20 U	1.73 U	--	--	1.77 U	1.80 U	1.16 UJ
PCB-087	pg/g	0.908 U, C	**2,970 C**	**240.0 C**	--	0.884 U, C	**85.0 C**	--	--	**49.6 C**	**242 C**	**173 J, C**
PCB-088	pg/g	1.38 U, C	**1,220 C**	**107 C**	--	1.81 U, C	**30.2 C**	--	--	**15.2 C**	**142 C**	**58.7 J, C**
PCB-089	pg/g	1.21 U	**55.9**	**6.49**	--	1.18 U	**3.30 J**	--	--	1.80 U	**5.23**	**3.37 J**
PCB-090	pg/g	1.05 U, C	**9,750 C**	**646 C**	--	**3.21 J, C**	**280.0 C**	--	--	**184 C**	**726 C**	**497 J, C**
PCB-091	pg/g	-- U, C088	**-- C088**	**-- C088**	--	-- U, C088	**-- C088**	--	--	**-- C088**	**-- C088**	**-- J, C088**
PCB-092	pg/g	-- U, C084	**-- C084**	**-- C084**	--	-- U, C084	**-- C084**	--	--	**-- C084**	**-- C084**	**-- J, C084**
PCB-093	pg/g	1.47 U	1.23 U	1.14 U	--	1.93 U	0.905 U	--	--	1.16 U	1.85 U	1.57 U
PCB-094	pg/g	1.44 U	**33.4**	**3.57 J**	--	1.88 U	0.889 U	--	--	1.14 U	**5.13**	1.74 UJ
PCB-095	pg/g	1.37 U	**8,150**	**629**	--	1.80 U	**187**	--	--	**112**	**1110**	**367 J**
PCB-096	pg/g	0.918 U	**26.1**	**4.55**	--	1.20 U	0.647 U	--	--	0.829 U	**5.79**	**2.45 J**
PCB-097	pg/g	0.968 U	**2,000**	**158**	--	0.943 U	**61.7**	--	--	**33.7**	**166**	**114 J**
PCB-098	pg/g	1.14 U, C	0.931 U, C	0.877 U, C	--	1.49 U, C	0.687 U, C	--	--	0.880 U, C	1.22 U, C	1.49 U, C
PCB-099	pg/g	0.934 U	**3,320**	**244**	--	0.910 U	**126**	--	--	**65.3**	**287**	**166 J**
PCB-100	pg/g	1.16 U	**26.4**	**2.60 J**	--	1.52 U	0.759 U	--	--	0.972 U	**5.43**	1.46 U
PCB-101	pg/g	-- U, C090	**-- C090**	**-- C090**	--	-- J, C090	**-- C090**	--	--	**-- C090**	**-- C090**	**-- J, C090**
PCB-102	pg/g	-- U, C098	-- U, C098	-- U, C098	--	-- U, C098	-- U, C098	--	--	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	1.13 U	**44.5**	**5.02**	--	1.48 U	**3.31 J**	--	--	0.967 U	**7.37**	**2.76 J**
PCB-104	pg/g	0.819 U	0.818 U	0.630 U	--	1.07 U	0.604 U	--	--	0.774 U	1.07 U	1.13 U
PCB-105 (Dioxin-Like)	pg/g	1.07 U	**2,460**	**238**	--	1.13 U	**97.4**	--	--	**36.9**	**290**	**173 J**
PCB-106	pg/g	1.16 U, C	**6,650 C**	**552 C**	--	1.34 U, C	**234 C**	--	--	**106 C**	**725 C**	**441 J, C**
PCB-107	pg/g	1.05 U, C	**392 C**	**35.0 C**	--	1.17 U, C	**15.9 C**	--	--	**7.49 C**	**47.1 C**	**29.6 J, C**
PCB-108	pg/g	-- U, C107	**-- C107**	**-- C107**	--	-- U, C107	**-- C107**	--	--	**-- C107**	**-- C107**	**-- J, C107**
PCB-109	pg/g	0.862 U	1.32 U	1.30 U	--	0.840 U	1.19 U	--	--	1.21 U	1.51 U	1.00 U

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	0.793 U	**7370**	**642**	--	**2.70 J**	**227**	--	--	**128**	**651**	**406 J**
PCB-111	pg/g	0.705 U, C	**133 C**	**11.4 C**	--	0.687 U, C	**4.23 C**	--	--	**2.16 J, C**	**11.7 C**	**8.88 J, C**
PCB-112	pg/g	-- U, C083	**-- C083**	**-- C083**	--	-- U, C083	**-- C083**	--	--	**-- C083**	**-- C083**	**-- J, C083**
PCB-113	pg/g	0.943 U	1.39 U	1.42 U	--	0.919 U	1.25 U	--	--	1.27 U	1.41 U	1.02 U
PCB-114 (Dioxin-Like)	pg/g	1.05 U	**154**	**15.5**	--	1.20 U	**5.88**	--	--	**2.69 J**	**17.4**	**13.5 J**
PCB-115	pg/g	-- U, C111	**-- C111**	**-- C111**	--	-- U, C111	**-- C111**	--	--	**-- J, C111**	**-- C111**	**-- J, C111**
PCB-116	pg/g	-- U, C085	**-- C085**	**-- C085**	--	-- U, C085	**-- C085**	--	--	**-- C085**	**-- C085**	**-- J, C085**
PCB-117	pg/g	-- U, C087	**-- C087**	**-- C087**	--	-- U, C087	**-- C087**	--	--	**-- C087**	**-- C087**	**-- J, C087**
PCB-118 (Dioxin-Like)	pg/g	-- U, C106	**-- C106**	**-- C106**	--	-- U, C106	**-- C106**	--	--	**-- C106**	**-- C106**	**-- J, C106**
PCB-119	pg/g	0.821 U	**102**	**10**	--	0.800 U	**4**	--	--	**2.68 J**	**9.65**	**5.82 J**
PCB-120	pg/g	0.782 U	**12.1**	1.17 U	--	0.761 U	1.02 U	--	--	1.05 U	1.25 U	0.848 U
PCB-121	pg/g	0.973 U	0.829 U	0.749 U	--	1.27 U	0.612 U	--	--	0.783 U	1.22 U	1.20 U
PCB-122	pg/g	1.05 U	**62.6**	**7.81**	--	1.17 U	**4.42**	--	--	1.15 U	**9.49**	**5.41 J**
PCB-123 (Dioxin-Like)	pg/g	0.981 U	**79**	**7.08**	--	1.05 U	**3.56 J**	--	--	0.889 U	**11.4**	**7.13 J**
PCB-124	pg/g	1.15 U	**268**	**23.8**	--	1.27 U	**9.58**	--	--	**4.88**	**29.3**	**23.2 J**
PCB-125	pg/g	-- U, C087	**-- C087**	**-- C087**	--	-- U, C087	**-- C087**	--	--	**-- C087**	**-- C087**	**-- J, C087**
PCB-126 (Dioxin-Like)	pg/g	1.42 U	**14.1**	**2.72 J**	--	1.43 U	1.04 U	--	--	1.49 U	**4.55**	**3.16 J**
PCB-127	pg/g	1.17 U	1.19 U	0.921 U	--	1.29 U	0.901 U	--	--	1.06 U	1.39 U	0.985 U
PCB-128	pg/g	0.740 U, C	**1,260 C**	**107 C**	--	0.730 U, C	**86.7 C**	--	--	**27.0 C**	**129 C**	**109 J, C**
PCB-129	pg/g	1.01 U	**490**	**34.2**	--	0.995 U	**24.4**	--	--	**9.2**	**37.9**	**32.6 J**
PCB-130	pg/g	1.03 U	**435**	**45.8**	--	1.02 U	**27.7**	--	--	**14.4**	**54.7**	**42.7 J**
PCB-131	pg/g	0.808 U, C	**218 C**	**16.6 C**	--	0.796 U, C	**9.91 C**	--	--	**8.29 C**	**20.9 C**	**19.5 J, C**
PCB-132	pg/g	0.713 U, C	**2,130 C**	**185 C**	--	0.703 U, C	**108 C**	--	--	**74.4 C**	**218 C**	**190.0 J, C**
PCB-133	pg/g	-- U, C131	**-- C131**	**-- C131**	--	-- U, C131	**-- C131**	--	--	**-- C131**	**-- C131**	**-- J, C131**
PCB-134	pg/g	0.816 U, C	**437 C**	**31.6 C**	--	0.804 U, C	**17.1 C**	--	--	**13.6 C**	**41.5 C**	**34.0 J, C**
PCB-135	pg/g	0.802 U	**876**	**63.6**	--	0.791 U	**38.9**	--	--	**41.1**	**100**	**94.5 J**
PCB-136	pg/g	0.571 U	**841**	**101**	--	0.779 U	**31.6**	--	--	**36.6**	**117**	**92.3 J**
PCB-137	pg/g	0.806 U	**549**	**31.1**	--	0.795 U	**27.9**	--	--	**7.83**	**33.7**	**35.1 J**
PCB-138	pg/g	0.615 U, C	**6,810 C**	**609 C**	--	**4.06 C**	**389 C**	--	--	**245 C**	**836 C**	**699 J, C**
PCB-139	pg/g	0.768 U, C	**5,590 C**	**482 C**	--	**2.51 J, C**	**238 C**	--	--	**292 C**	**761 C**	**594 J, C**
PCB-140	pg/g	0.811 U	**30.6**	**3.61 J**	--	0.799 U	**3.25 J**	--	--	1.27 U	**3.81 J**	**2.47 J**
PCB-141	pg/g	0.839 U	**1420**	**126**	--	0.827 U	**69.2**	--	--	**78.7**	**179**	**157 J**
PCB-142	pg/g	0.952 U	1.40 U	1.43 U	--	0.938 U	1.25 U	--	--	1.51 U	1.99 U	1.62 U
PCB-143	pg/g	-- U, C134	**-- C134**	**-- C134**	--	-- U, C134	**-- C134**	--	--	**-- C134**	**-- C134**	**-- J, C134**
PCB-144	pg/g	0.810 U	**370**	**34.6**	--	0.798 U	**19.7**	--	--	**32.2**	**52.6**	**39.6 J**
PCB-145	pg/g	0.547 U	**3.02 J**	0.492 U	--	0.747 U	0.533 U	--	--	0.467 U	0.829 U	1.12 U
PCB-146	pg/g	0.675 U, C	**787 C**	**72.8 C**	--	0.665 U, C	**45.0 C**	--	--	**39.8 C**	**113 C**	**91.6 J, C**
PCB-147	pg/g	0.811 U	**166**	**11.5**	--	0.799 U	**8.46**	--	--	**4.15**	**14.6**	**11.0 J**
PCB-148	pg/g	0.667 U	0.731 U	0.599 U	--	0.910 U	0.735 U	--	--	0.645 U	1.03 U	1.43 U
PCB-149	pg/g	-- U, C139	**-- C139**	**-- C139**	--	**-- J, C139**	**-- C139**	--	--	**-- C139**	**-- C139**	**-- J, C139**
PCB-150	pg/g	0.499 U	**10.7**	**1.20 J**	--	0.681 U	0.557 U	--	--	0.488 U	0.790 U	1.08 U
PCB-151	pg/g	0.874 U	**1,490**	**128**	--	0.861 U	**73.2**	--	--	**114**	**215**	**162 J**

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.514 U	**7.24**	0.462 U	--	0.702 U	0.563 U	--	--	0.493 U	0.802 U	1.05 U
PCB-153	pg/g	0.717 U	**6,010**	**593**	--	**2.38 J**	**333**	--	--	**323**	**895**	**688 J**
PCB-154	pg/g	0.615 U	**48.3**	**6.33**	--	0.839 U	**3.42 J**	--	--	**1.53 J**	**8.02**	**5.45 J**
PCB-155	pg/g	0.440 U	0.523 U	0.395 U	--	0.600 U	0.526 U	--	--	0.461 U	0.683 U	0.970 U
PCB-156 (Dioxin-Like)	pg/g	0.601 U	**983**	**63.5**	--	0.597 U	**58.6**	--	--	**22.8**	**77.9**	**72.8 J**
PCB-157 (Dioxin-Like)	pg/g	0.705 U	**206**	**14.8**	--	0.673 U	**14.9**	--	--	**4.13**	**16.5**	**15.6 J**
PCB-158	pg/g	0.613 U, C	**976 C**	**77.4 C**	--	0.604 U, C	**53.7 C**	--	--	**38.6 C**	**103 C**	**93.8 J, C**
PCB-159	pg/g	0.590 U	**37.9**	**5.1**	--	0.581 U	**3.67 J**	--	--	**7.67**	**12.8**	**9.56 J**
PCB-160	pg/g	-- U, C158	**-- C158**	**-- C158**	--	-- U, C158	**-- C158**	--	--	**-- C158**	**-- C158**	**-- J, C158**
PCB-161	pg/g	-- U, C132	**-- C132**	**-- C132**	--	-- U, C132	**-- C132**	--	--	**-- C132**	**-- C132**	**-- J, C132**
PCB-162	pg/g	-- U, C128	**-- C128**	**-- C128**	--	-- U, C128	**-- C128**	--	--	**-- C128**	**-- C128**	**-- J, C128**
PCB-163	pg/g	-- U, C138	**-- C138**	**-- C138**	--	**-- C138**	**-- C138**	--	--	**-- C138**	**-- C138**	**-- J, C138**
PCB-164	pg/g	-- U, C138	**-- C138**	**-- C138**	--	**-- C138**	**-- C138**	--	--	**-- C138**	**-- C138**	**-- J, C138**
PCB-165	pg/g	-- U, C146	**-- C146**	**-- C146**	--	-- U, C146	**-- C146**	--	--	**-- C146**	**-- C146**	**-- J, C146**
PCB-166	pg/g	0.642 U	**36.7**	**2.70 J**	--	0.633 U	0.825 U	--	--	0.999 U	**3.05 J**	**2.32 J**
PCB-167 (Dioxin-Like)	pg/g	0.633 U	**344**	**23.5**	--	0.646 U	**20.6**	--	--	10	**31.6**	**30.2 J**
PCB-168	pg/g	0.630 U	**23.7**	0.943 U	--	0.621 U	0.753 U	--	--	0.912 U	1.42 U	1.14 U
PCB-169	pg/g	0.620 U	0.835 U	0.935 U	--	0.605 U	0.806 U	--	--	0.885 U	1.33 U	1.14 U
PCB-170	pg/g	0.836 U	**1,430**	**156**	--	1.53 U	**83.5**	--	--	**119**	**217**	**239 J**
PCB-171	pg/g	0.731 U	**374**	**46.7**	--	1.34 U	**26.2**	--	--	**43.5**	**75**	**78.3 J**
PCB-172	pg/g	0.795 U	**210**	**28**	--	1.46 U	14.6	--	--	**28.8**	**42.7**	**46.1 J**
PCB-173	pg/g	0.823 U	**41.3**	**4.6**	--	1.51 U	**2.25 J**	--	--	**4.07**	**6.49**	**6.93 J**
PCB-174	pg/g	0.736 U	**1,110**	**169**	--	1.35 U	**71.9**	--	--	**156**	**259**	**245 J**
PCB-175	pg/g	0.707 U	**61.5**	**7.3**	--	1.30 U	**3.74 J**	--	--	**8.55**	**14.3**	**14.2 J**
PCB-176	pg/g	0.530 U	**178**	**24.4**	--	0.973 U	**11.1**	--	--	**31**	**38.8**	**38.1 J**
PCB-177	pg/g	0.802 U	**675**	**97.2**	--	1.47 U	**48.6**	--	--	**84.2**	**148**	**144 J**
PCB-178	pg/g	0.747 U	**223**	**33.9**	--	1.37 U	**15.1**	--	--	**33.1**	**56.6**	**51.4 J**
PCB-179	pg/g	0.503 U	**470**	**69.7**	--	0.923 U	**29.4**	--	--	**85.2**	**108**	**100.0 J**
PCB-180	pg/g	0.608 U	**2,320**	**314**	--	1.12 U	**148**	--	--	**332**	**525**	**522 J**
PCB-181	pg/g	0.713 U	1.94 U	0.801 U	--	1.31 U	1.04 U	--	--	1.09 U	1.42 U	1.51 U
PCB-182	pg/g	0.658 U, C	**1,220 C**	**203 C**	--	1.21 U, C	**89.2 C**	--	--	**203 C**	**347 C**	**302 J, C**
PCB-183	pg/g	0.660 U	**722**	**102**	--	1.21 U	**49.8**	--	--	**120**	**172**	**175 J**
PCB-184	pg/g	0.486 U	1.30 U	0.546 U	--	0.892 U	**0.695 U**	--	--	0.727 U	1.04 U	1.02 U
PCB-185	pg/g	0.721 U	**139**	**19.9**	--	1.32 U	**8.45**	--	--	**32.6**	**37.6**	**37.1 J**
PCB-186	pg/g	0.525 U	1.33 U	0.590 U	--	0.963 U	0.711 U	--	--	0.743 U	1.09 U	1.10 U
PCB-187	pg/g	-- U, C182	**-- C182**	**-- C182**	--	-- U, C182	**-- C182**	--	--	**-- C182**	**-- C182**	**-- J, C182**
PCB-188	pg/g	0.507 U	1.36 U	0.594 U	--	0.973 U	0.663 U	--	--	0.720 U	1.06 U	1.18 U
PCB-189 (Dioxin-Like)	pg/g	0.527 U	**59.3**	**5.34**	--	0.915 U	**4.28**	--	--	**4.77**	**8.7**	**10.7 J**
PCB-190	pg/g	0.580 U	**292**	**31.5**	--	1.06 U	**17.2**	--	--	**39.3**	**51.9**	**56.7 J**
PCB-191	pg/g	0.549 U	**56.6**	**7.09**	--	1.01 U	**3.53 J**	--	--	**8.67**	**12.1**	**13.8 J**
PCB-192	pg/g	0.578 U	1.50 U	0.650 U	--	1.06 U	0.806 U	--	--	0.842 U	1.18 U	1.24 U
PCB-193	pg/g	0.543 U	**123**	**17.1**	--	0.996 U	**10.8**	--	--	**22.2**	**30.1**	**28.6 J**

Sample Location[1]		MAF-04	MAF-05				MAF-07	MAF-08		MAF-09	MAF-10	
Sample Identification		MAF-SC-04_16-18	MAF-SS-05_0-10	MAF-SC-05_0-2	MAF-SC-05_4-6	MAF-SC-05_12-14	MAF-SS-07_0-10	MAF-SS-08_0-10	MAF-SS-DUP-02	MAF-SS-09_0-10	MAF-SS-10_0-10	MAF-SC-10_0-2
Sample Date		11/10/2015	10/20/2015	11/11/2015	11/11/2015	11/11/2015	10/19/2015	10/19/2015	10/19/2015	10/19/2015	10/20/2015	10/29/2015
Sample Interval (dbm)		16 - 18 ft	0-10 cm	0 - 2 ft	4 - 6 ft	12 - 14 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 - 2 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Native Deposit	Native Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	0.657 U	**455**	**75.5**	--	0.556 U	**32.5**	--	--	**135**	**152**	**143 J**
PCB-195	pg/g	0.683 U	**185**	**30.3**	--	0.578 U	**12.3**	--	--	**54.9**	**65.8**	**61.3 J**
PCB-196	pg/g	0.906 U, C	**662 C**	**96.6 C**	--	1.08 U, C	**33.0 C**	--	--	**221 C**	**197 C**	**202 J, C**
PCB-197	pg/g	0.696 U	**23.6**	**3.36 J**	--	0.834 U	**1.98 J**	--	--	**10.7**	**8.29**	**8.57 J**
PCB-198	pg/g	1.05 U	**29.9**	**5.21**	--	1.26 U	**2.08 J**	--	--	**11.4**	**9.82**	**9.81 J**
PCB-199	pg/g	1.01 U	**563**	**90**	--	1.21 U	**29.7**	--	--	**172**	**156**	**150.0 J**
PCB-200	pg/g	0.719 U	**74.2**	**12.2**	--	0.862 U	**3.70 J**	--	--	**29.2**	**22.2**	**21.0 J**
PCB-201	pg/g	0.711 U	**73.2**	**13.2**	--	0.852 U	**4.56**	--	--	**28.1**	**26.1**	**23.9 J**
PCB-202	pg/g	0.702 U	**96.9**	**20**	--	0.841 U	**8.04**	--	--	**35.1**	**35.8**	**28.2 J**
PCB-203	pg/g	-- U, C196	**-- C196**	**-- C196**	--	-- U, C196	**-- C196**	--	--	**-- C196**	**-- C196**	**-- J, C196**
PCB-204	pg/g	0.716 U	0.729 U	0.766 U	--	0.857 U	0.814 U	--	--	0.727 U	1.33 U	1.38 U
PCB-205	pg/g	0.473 U	**27.9**	**3.90 J**	--	0.400 U	**2.13 J**	--	--	**10.2**	**9.5**	**9.91 J**
PCB-206	pg/g	0.550 U	**192**	**40.7**	--	0.497 U	**13.9**	--	--	**92**	**81.7**	**51.0 J**
PCB-207	pg/g	0.451 U	**28.6**	**5.58**	--	0.412 U	**2.39 J**	--	--	**15.6**	**12.2**	**9.09 J**
PCB-208	pg/g	0.403 U	**45.1**	**12.9**	--	0.371 U	**4.04**	--	--	**24.7**	**21.3**	**12.5 J**
PCB-209	pg/g	0.348 U	**384**	**35.5**	--	0.316 U	**8.86**	--	--	**25.5**	**34.8**	**9.51 J**
Total PCBs Congeners	pg/g	1.7 U	**108,000 J**	**11,600 J**	--	**28.1 J**	**5,300 J**	--	--	**5,100 J**	**16,600**	**10,500 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**96.9 J**	--	**3.66 J**	--	**15.5**	**7.71**	**293**	--	**5.68**	**5.65**	0.691 U
PCB-002	pg/g	**20.6 J**	--	**1.42 J**	--	**7.18**	**16.6**	**29.8**	--	10.9	**2.52 J**	0.711 U
PCB-003	pg/g	**80.0 J**	--	**2.52 J**	--	**19.8**	**14.1**	**138**	--	**10**	**4.29**	0.713 U
PCB-004	pg/g	**74.6 J**	--	**6.11**	--	**26.2**	1.43 U	**2,850**	--	**12.7**	**8.19**	1.44 U
PCB-005	pg/g	**6.03 J**	--	**4.01**	--	**20.1**	1.29 U	**277**	--	**12.5**	1.46 U	1.18 U
PCB-006	pg/g	**39.5 J**	--	**3.40 J**	--	**10.7**	1.26 U	**2,260**	--	**8.03**	**4.2**	1.03 U
PCB-007	pg/g	**17.3 J**	--	0.747 U	--	**3.81 J**	1.24 U	**480**	--	**2.21 J**	1.50 U	1.10 U
PCB-008	pg/g	**220.0 J**	--	**5**	--	**18.6**	**11**	**8,580**	--	**16.2**	**18.6**	1.09 U
PCB-009	pg/g	**15.6 J**	--	0.853 U	--	**4.61**	1.25 U	**539**	--	**2.06 J**	1.46 U	1.12 U
PCB-010	pg/g	**5.22 J**	--	0.830 U	--	**1.79 J**	1.42 U	**203**	--	1.54 U	1.63 U	1.22 U
PCB-011	pg/g	**36.0 J**	--	**14.7**	--	**10.2**	**6.61**	**90.2**	--	**10.7**	**5.35**	**4.1**
PCB-012	pg/g	**8.54 J**	--	0.909 U	--	**3.66 J**	**5.18**	**88.3**	--	**6.06**	1.55 U	1.18 U
PCB-013	pg/g	**21.5 J**	--	0.910 U	--	**4.13**	1.28 U	**486**	--	**5.28**	1.81 U	1.13 U
PCB-014	pg/g	**1.32 U**	--	0.875 U	--	1.22 U	1.26 U	1.31 U	--	1.63 U	1.54 U	1.11 U
PCB-015	pg/g	**275 J**	--	**5.11**	--	**54.5**	**6.96**	**2,740**	--	**10.6**	**8.35**	1.04 U
PCB-016	pg/g	**153 J**	--	**7.27**	--	**53.2**	**17**	**3,250**	--	**20.1**	**13.9**	1.59 U
PCB-017	pg/g	**176 J**	--	**12.6**	--	**72.7**	**23.1**	**5,550**	--	**27**	**16.8**	1.68 U
PCB-018	pg/g	**401 J**	--	**27.9**	--	**175**	**43.4**	**13,300**	--	**65.6**	**41**	1.81 U
PCB-019	pg/g	**43.3 J**	--	**3.69 J**	--	**14.3**	**1.71 U**	**1,140**	--	**5.89**	**4.3**	1.81 U
PCB-020	pg/g	**349 J, C**	--	**20.5 C**	--	**165 C**	**67.9 C**	**13,700 C**	--	**42.6 C**	**21.7 C**	**3.19 J, C**
PCB-021	pg/g	**-- J, C020**	--	**-- C020**	--	**-- C020**	**-- C020**	**-- C020**	--	**-- C020**	**-- C020**	-- J, C020
PCB-022	pg/g	**262 J**	--	**11.6**	--	**112**	**39.7**	**6,400**	--	**24.6**	**13.8**	**2.28 J**
PCB-023	pg/g	7.45 U	--	0.739 U	--	1.09 U	1.23 U	**32.3**	--	0.879 U	1.39 U	0.918 U
PCB-024	pg/g	**10.1 J**	--	0.887 U	--	**8.03**	1.19 U	**146**	--	**1.49 J**	1.79 U	1.17 U
PCB-025	pg/g	**54.0 J**	--	**3.49 J**	--	**20.1**	**3.55 J**	**2,190**	--	**5.48**	**3.10 J**	0.756 U

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-026	pg/g	**119 J**	--	**8.23**	--	**48.6**	**13.6**	**4,430**	--	**12.9**	**7.36**	0.842 U
PCB-027	pg/g	**32.2 J**	--	**2.05 J**	--	**4.78**	1.19 U	**896**	--	**3.46 J**	**3.54 J**	1.34 U
PCB-028	pg/g	**716 J**	--	**28.9**	--	**300**	**115**	**17,200**	--	**65.3**	**37**	**5.66**
PCB-029	pg/g	7.15 U	--	0.877 U	--	1.16 U	1.21 U	**221**	--	0.935 U	1.49 U	0.828 U
PCB-030	pg/g	3.16 U	--	0.810 U	--	1.04 U	1.18 U	1.38 U	--	1.07 U	1.68 U	1.21 U
PCB-031	pg/g	**741 J**	--	**37.8**	--	**374**	**114**	**20,600**	--	**73.4**	**35.8**	**4.59**
PCB-032	pg/g	**142 J**	--	**9.57**	--	**54.7**	**22.4**	**3,660**	--	**16.7**	**11.7**	1.31 U
PCB-033	pg/g	-- J, C020	--	**-- C020**	--	**-- C020**	**-- C020**	**-- C020**	--	**-- C020**	**-- C020**	**-- J, C020**
PCB-034	pg/g	7.35 U	--	1.02 U	--	1.44 U	1.42 U	**121**	--	1.16 U	1.80 U	0.788 U
PCB-035	pg/g	7.25 U	--	1.03 U	--	1.32 U	1.30 U	**214**	--	**2.68 J**	1.57 U	0.882 U
PCB-036	pg/g	7.22 U	--	0.958 U	--	1.27 U	1.24 U	1.86 U	--	1.03 U	1.50 U	0.842 U
PCB-037	pg/g	**231 J**	--	**7.7**	--	**75.1**	**23.3**	**206**	--	**13.6**	**8.31**	**2.66 J**
PCB-038	pg/g	6.72 U	--	0.825 U	--	**9.67**	1.22 U	**51**	--	0.954 U	1.43 U	0.800 U
PCB-039	pg/g	7.23 U	--	0.902 U	--	1.27 U	1.24 U	**18.8**	--	1.03 U	1.46 U	0.867 U
PCB-040	pg/g	**165 J**	--	**3.81 J**	--	**62.3**	**16.9**	**1,320**	--	**15.2**	**5.68**	1.95 U
PCB-041	pg/g	**754 J, C**	--	**19.4 C**	--	**363 C**	**96.0 C**	**5,430 C**	--	**72.0 C**	**27.9 C**	6.34 C
PCB-042	pg/g	**253 J, C**	--	**7.00 C**	--	**103 C**	**31.2 C**	**1,940 C**	--	**25.3 C**	**10.9 C**	**2.52 J, C**
PCB-043	pg/g	**840.0 J, C**	--	**25.7 C**	--	**635 C**	**89.7 C**	**5,360 C**	--	**73.7 C**	**35.3 C**	**6.93 C**
PCB-044	pg/g	**1120 J**	--	**30**	--	**585**	**117**	**4,880**	--	**84.3**	**36.9**	**6.56**
PCB-045	pg/g	**125 J**	--	**5.44**	--	**46.7**	**17.6**	**1,700**	--	**12.8**	**6.9**	1.63 U
PCB-046	pg/g	**56.5 J**	--	**2.24 J**	--	**16.7**	**7.52**	**618**	--	**5.64**	**3.49 J**	1.75 U
PCB-047	pg/g	**270.0 J**	--	**8.78**	--	**160**	**24.3**	**1,510**	--	**22.7**	**12.5**	**3.49 J**
PCB-048	pg/g	**110.0 J, C**	--	**4.44 C**	--	**65.9 C**	**23.4 C**	**1,860 C**	--	**17.4 C**	**7.81 C**	1.21 U, C
PCB-049	pg/g	**-- J, C043**	--	**-- C043**	--	**-- C043**	**-- C043**	**-- C043**	--	**-- C043**	**-- C043**	**-- C043**
PCB-050	pg/g	3.29 U	--	0.677 U	--	1.03 U	**1.02 U**	**41.4**	--	0.671 U	1.44 U	1.43 U
PCB-051	pg/g	**38.5 J**	--	**2.47 J**	--	**14.1**	**5.32**	**516**	--	**4.45**	**3.09 J**	1.46 U
PCB-052	pg/g	**1740 J, C**	--	**45.9 C**	--	**2,270 C**	**132 C**	**5,730 C**	--	**101 C**	**52.4 C**	**8.98 C**
PCB-053	pg/g	**134 J**	--	**5.48**	--	**57.1**	**17.1**	**1630**	--	**13.3**	**7.57**	1.52 U
PCB-054	pg/g	2.51 U	--	0.512 U	--	0.763 U	0.790 U	**35.3**	--	0.496 U	1.15 U	1.13 U
PCB-055	pg/g	**38.4 J**	--	**1.35 J**	--	**50.3**	**2.45 J**	**167**	--	**2.88 J**	0.870 U	1.09 U
PCB-056	pg/g	**711 J, C**	--	**22.2 C**	--	**412 C**	**85.7 C**	**5,330 C**	--	**58.1 C**	**29.2 C**	**4.51 C**
PCB-057	pg/g	**6.81 J**	--	0.495 U	--	**6.93**	0.754 U	**50.9**	--	0.531 U	0.930 U	1.08 U
PCB-058	pg/g	2.72 U	--	0.503 U	--	0.867 U	0.708 U	**20.5**	--	0.564 U	0.902 U	1.17 U
PCB-059	pg/g	**-- J, C042**	--	**-- C042**	--	**-- C042**	**-- C042**	**-- C042**	--	**-- C042**	**-- C042**	**-- J, C042**
PCB-060	pg/g	**-- J, C056**	--	**-- C056**	--	**-- C056**	**-- C056**	**-- C056**	--	**-- C056**	**-- C056**	**-- C056**
PCB-061	pg/g	**1950 J, C**	--	**40.4 C**	--	**1,170 C**	**136 C**	**7,590 C**	--	**105 C**	**42.3 C**	**9.94 C**
PCB-062	pg/g	2.74 U	--	0.569 U	--	0.841 U	0.843 U	**3.70 J**	--	0.547 U	1.09 U	1.29 U
PCB-063	pg/g	**59.4 J**	--	**1.50 J**	--	**24.9**	**4.68**	**351**	--	**3.79 J**	**1.96 J**	1.09 U
PCB-064	pg/g	**-- J, C041**	--	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**
PCB-065	pg/g	2.80 U	--	0.530 U	--	0.805 U	0.785 U	**3.64 J**	--	0.523 U	1.07 U	1.12 U
PCB-066	pg/g	**1220 J, C**	--	**28.5 C**	--	**1,350 C**	**103 C**	**6,690 C**	--	**78.4 C**	**33.2 C**	**8.18 C**
PCB-067	pg/g	**41.7 J**	--	**1.16 J**	--	**16.2**	**3.25 J**	**352**	--	**2.58 J**	0.947 U	1.06 U

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-068	pg/g	9.20 J	--	0.474 U	--	0.803 U	**0.713 U**	**11**	--	0.522 U	0.903 U	1.06 U
PCB-069	pg/g	**-- J, C052**	--	**-- C052**	--	**-- C052**	**-- C052**	**-- C052**	--	**-- C052**	**-- C052**	**-- C052**
PCB-070	pg/g	**-- J, C061**	--	**-- C061**	--	**-- C061**	**-- C061**	**-- C061**	--	**-- C061**	**-- C061**	**-- C061**
PCB-071	pg/g	**-- J, C041**	--	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**
PCB-072	pg/g	**-- J, C041**	--	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	**-- C041**	**-- C041**
PCB-073	pg/g	2.61 U	--	0.543 U	--	0.772 U	0.875 U	**43.5**	--	0.502 U	1.03 U	1.30 U
PCB-074	pg/g	**716 J**	--	**17.3**	--	**363**	**60.5**	**3,960**	--	**47.3**	**17.7**	**3.61 J**
PCB-075	pg/g	**-- J, C048**	--	**-- C048**	--	**-- C048**	**-- C048**	**-- C048**	--	**-- C048**	**-- C048**	**-- U, C048**
PCB-076	pg/g	**-- J, C066**	--	**-- C066**	--	**-- C066**	**-- C066**	**-- C066**	--	**-- C066**	**-- C066**	**-- C066**
PCB-077 (Dioxin-Like)	pg/g	**118 J**	--	**3.28 J**	--	**189**	**9.65**	**575**	--	**6.7**	**4.93**	0.803 U
PCB-078	pg/g	**9.76 J**	--	0.800 U	--	0.719 U	0.938 U	**13**	--	1.15 U	1.51 U	0.816 U
PCB-079	pg/g	**23.4 J**	--	0.799 U	--	**59.5**	**3.19 J**	**35.4**	--	**2.16 J**	**1.48 J**	0.812 U
PCB-080	pg/g	2.23 U	--	0.405 U	--	0.723 U	0.661 U	**9.3**	--	0.470 U	0.728 U	0.934 U
PCB-081 (Dioxin-Like)	pg/g	**40.8 J**	--	**1.43 J**	--	**201**	**4.38**	**68.9**	--	**2.74 J**	**2.35 J**	0.785 U
PCB-082	pg/g	**417 J**	--	**10.6**	--	**292**	**29.8**	**444**	--	**17.1**	**9.64**	**4.36**
PCB-083	pg/g	**146 J, C**	--	**3.95 J, C**	--	**158 C**	**9.51 C**	**135 C**	--	**4.70 C**	**3.85 J, C**	**2.13 J, C**
PCB-084	pg/g	**1370 J, C**	--	**43.0 C**	--	**5,340 C**	**81.9 C**	**1,000 C**	--	**43.0 C**	**38.1 C**	**14.8 C**
PCB-085	pg/g	**506 J, C**	--	**12.9 C**	--	**343 C**	**38.9 C**	**512 C**	--	**22.7 C**	**12.3 C**	**4.93 C**
PCB-086	pg/g	**12.1 J**	--	1.75 U	--	1.01 U	1.32 U	**37.2**	--	1.32 U	0.939 U	1.62 U
PCB-087	pg/g	**1410 J, C**	--	**32.1 C**	--	**4,420 C**	**87.1 C**	**878 C**	--	**43.2 C**	**30.5 C**	**12.5 C**
PCB-088	pg/g	**425 J, C**	--	**14.7 C**	--	**1,370 C**	**31.9 C**	**960.0 C**	--	**19.3 C**	**16.3 C**	**5.53 C**
PCB-089	pg/g	**27.0 J**	--	1.78 U	--	**13.4**	**2.83 J**	**86**	--	**2.14 J**	1.13 U	1.79 U
PCB-090	pg/g	**3780 J, C**	--	**119 C**	--	**30,600 C**	**214 C**	**1,930 C**	--	**117 C**	**103 C**	**38.4 C**
PCB-091	pg/g	**-- J, C088**	--	**-- C088**	--	**-- C088**	**-- C088**	**-- C088**	--	**-- C088**	**-- C088**	**-- C088**
PCB-092	pg/g	**-- J, C084**	--	**-- C084**	--	**-- C084**	**-- C084**	**-- C084**	--	**-- C084**	**-- C084**	**-- C084**
PCB-093	pg/g	4.96 U	--	1.34 U	--	1.21 U	1.66 U	1.87 U	--	1.15 U	1.83 U	1.81 U
PCB-094	pg/g	**16.7 J**	--	1.32 U	--	**10.8**	1.64 U	65.7	--	1.12 U	1.86 U	1.78 U
PCB-095	pg/g	**2960 J**	--	**100**	--	**25,900**	**185**	**4,440**	--	**103**	**103**	**38.9**
PCB-096	pg/g	**18.0 J**	--	0.958 U	--	**12.2**	1.14 U	**93.8**	--	0.714 U	1.41 U	1.21 U
PCB-097	pg/g	**953 J**	--	**23.9**	--	**1,370**	**54.6**	**715**	--	**30.3**	**21.1**	**8.85**
PCB-098	pg/g	3.67 U, C	--	1.02 U, C	--	0.934 U, C	1.28 U, C	1.24 U, C	--	0.886 U, C	1.50 U, C	1.36 U, C
PCB-099	pg/g	**1400 J**	--	**42.1**	--	**2,270**	**86.9**	**1160**	--	**48.9**	**35.5**	**17.3**
PCB-100	pg/g	4.05 U	--	1.12 U	--	**73.7**	**1.36 U**	**31.2**	--	0.903 U	1.58 U	1.53 U
PCB-101	pg/g	**-- J, C090**	--	**-- C090**	--	**-- C090**	**-- C090**	**-- C090**	--	**-- C090**	**-- C090**	**-- C090**
PCB-102	pg/g	-- U, C098	--	-- U, C098	--	-- U, C098	-- U, C098	-- U, C098	--	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	**17.0 J**	--	1.12 U	--	**134**	1.34 U	**46.8**	--	0.881 U	1.58 U	1.41 U
PCB-104	pg/g	3.04 U	--	0.895 U	--	0.671 U	1.07 U	1.08 U	--	0.637 U	1.34 U	1.16 U
PCB-105 (Dioxin-Like)	pg/g	**1120 J**	--	**29.1**	--	**1,860**	**94.1**	**1,120**	--	**42.9**	**37.6**	**11.3**
PCB-106	pg/g	**2670 J, C**	--	**78.1 C**	--	**10,300 C**	**204 C**	**2,130 C**	--	**99.4 C**	**90.3 C**	**26.9 C**
PCB-107	pg/g	**191 J, C**	--	**4.98 C**	--	**346 C**	**12.5 C**	**178 C**	--	**6.55 C**	**6.97 C**	**2.17 J, C**
PCB-108	pg/g	**-- J, C107**	--	**-- C107**	--	**-- C107**	**-- C107**	**-- C107**	--	**-- C107**	**-- C107**	**-- J, C107**
PCB-109	pg/g	2.05 U	--	1.20 U	--	0.702 U	0.958 U	**6.41**	--	0.920 U	0.751 U	1.31 U

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-110	pg/g	**3380 J**	--	**86.2**	--	**15,300**	**205**	**1,890**	--	**107**	**80.4**	**39.1**
PCB-111	pg/g	**82.1 J, C**	--	2.10 J, C	--	**31.7 C**	**5.11 C**	**82.3 C**	--	**2.39 J, C**	**1.70 J, C**	1.15 U, C
PCB-112	pg/g	**– J, C083**	--	**– J, C083**	--	**– C083**	**– C083**	**– C083**	--	**– C083**	**– J, C083**	**– J, C083**
PCB-113	pg/g	1.96 U	--	1.26 U	--	0.768 U	1.02 U	1.49 U	--	1.01 U	0.783 U	1.29 U
PCB-114 (Dioxin-Like)	pg/g	**71.0 J**	--	1.17 U	--	**52.2**	**7.75**	**82.7**	--	**3.82 J**	**2.58 J**	0.776 U
PCB-115	pg/g	**– J, C111**	--	**– J, C111**	--	**– C111**	**– C111**	**– C111**	--	**– J, C111**	**– J, C111**	-- U, C111
PCB-116	pg/g	**– J, C085**	--	**– C085**	--	**– C085**	**– C085**	**– C085**	--	**– C085**	**– C085**	**– C085**
PCB-117	pg/g	**– J, C087**	--	– C087	--	**– C087**	**– C087**	**– C087**	--	**– C087**	**– C087**	**– C087**
PCB-118 (Dioxin-Like)	pg/g	**– J, C106**	--	**– C106**	--	**– C106**	**– C106**	**– C106**	--	**– C106**	**– C106**	**– C106**
PCB-119	pg/g	**53.4 J**	--	**2.09 J**	--	**121**	**3.27 J**	**50.3**	--	**2.12 J**	**2.10 J**	1.16 U
PCB-120	pg/g	**8.09 J**	--	1.03 U	--	**127**	0.863 U	**3.81 J**	--	0.834 U	0.661 U	1.11 U
PCB-121	pg/g	3.41 U	--	0.906 U	--	0.797 U	1.17 U	1.24 U	--	0.757 U	1.23 U	1.27 U
PCB-122	pg/g	**36.2 J**	--	1.24 U	--	**78.6**	**3.01 J**	**47.4**	--	**1.99 J**	0.892 U	0.746 U
PCB-123 (Dioxin-Like)	pg/g	**40.4 J**	--	1.04 U	--	**230**	**3.58 J**	**53.6**	--	**2.04 J**	**1.35 J**	0.681 U
PCB-124	pg/g	**120.0 J**	--	**3.43 J**	--	**344**	**9.91**	**85.5**	--	**4.16**	**5.28**	**1.72 J**
PCB-125	pg/g	**– J, C087**	--	**– C087**	--	**– C087**	**– C087**	**– C087**	--	**– C087**	**– C087**	**– C087**
PCB-126 (Dioxin-Like)	pg/g	**16.6 J**	--	1.21 U	--	**74.8**	1.17 U	**15.3**	--	**1.55 J**	1.10 U	0.784 U
PCB-127	pg/g	4.00 U	--	1.15 U	--	1.31 U	1.14 U	1.73 U	--	0.739 U	0.954 U	0.749 U
PCB-128	pg/g	**608 J, C**	--	**16.6 C**	--	**6,120 C**	**39.6 C**	**186 C**	--	**17.6 C**	**22.8 C**	**12.7 C**
PCB-129	pg/g	**177 J**	--	**6.1**	--	**1,740**	**14.4**	**56.5**	--	**6.86**	**7.13**	**3.40 J**
PCB-130	pg/g	**251 J**	--	**7.95**	--	**3,320**	**12**	**66.1**	--	**7.7**	**11**	**5.07**
PCB-131	pg/g	**106 J, C**	--	**2.94 J, C**	--	**1,210 C**	**6.09 C**	**30.2 C**	--	**3.32 J, C**	**4.40 C**	**2.02 J, C**
PCB-132	pg/g	**962 J, C**	--	**33.1 C**	--	**16,800 C**	**61.8 C**	**290.0 C**	--	**27.4 C**	**43.3 C**	**21.1 C**
PCB-133	pg/g	**– J, C131**	--	**– J, C131**	--	**– C131**	**– C131**	**– C131**	--	**– J, C131**	**– C131**	**– J, C131**
PCB-134	pg/g	**194 J, C**	--	**5.86 C**	--	**2,560 C**	**11.1 C**	**56.9 C**	--	**5.86 C**	**8.90 C**	**4.03 C**
PCB-135	pg/g	**510.0 J**	--	**16**	--	**9,430**	**21.3**	**115**	--	**13.4**	**21.6**	**10.6**
PCB-136	pg/g	**512 J**	--	**19**	--	**11,500**	**26.6**	**130**	--	**17.2**	**23**	**12.6**
PCB-137	pg/g	**206 J**	--	**4.94**	--	**486**	**16.9**	**65.7**	--	**5.87**	**5.6**	**3.37 J**
PCB-138	pg/g	**3680 J, C**	--	**110.0 C**	--	**62,000 C**	**209 C**	**958 C**	--	**104 C**	**138 C**	**70.3 C**
PCB-139	pg/g	**3020 J, C**	--	**111 C**	--	**58,400 C**	**152 C**	**796 C**	--	**88.5 C**	**139 C**	**65.7 C**
PCB-140	pg/g	**15.1 J**	--	1.07 U	--	1.73 U	1.06 U	**6.91**	--	0.858 U	1.41 U	1.64 U
PCB-141	pg/g	**832 J**	--	**26**	--	**19,400**	**41.9**	**172**	--	**24**	**31.3**	**14.2**
PCB-142	pg/g	4.46 U	--	1.27 U	--	2.04 U	1.25 U	2.57 U	--	1.01 U	1.59 U	1.95 U
PCB-143	pg/g	**– J, C134**	--	**– C134**	--	**– C134**	**– C134**	**– C134**	--	**– C134**	**– C134**	**– C134**
PCB-144	pg/g	**194 J**	--	**8.02**	--	**3,600**	**13**	**52.6**	--	**6.03**	**10.6**	**3.23 J**
PCB-145	pg/g	4.10 U	--	1.06 U	--	**1.22 J**	1.10 U	1.11 U	--	0.571 U	0.924 U	0.909 U
PCB-146	pg/g	**519 J, C**	--	**15.3 C**	--	**8,570 C**	**24.3 C**	**134 C**	--	**14.4 C**	**21.0 C**	**10.6 C**
PCB-147	pg/g	**57.9 J**	--	**3.06 J**	--	**403**	**4.39**	**28.1**	--	**2.15 J**	**3.47 J**	1.70 U
PCB-148	pg/g	4.81 U	--	1.47 U	--	0.719 U	1.48 U	1.37 U	--	0.696 U	1.15 U	1.04 U
PCB-149	pg/g	**– J, C139**	--	**– C139**	--	**– C139**	**– C139**	**– C139**	--	**– C139**	**– C139**	**– C139**
PCB-150	pg/g	4.04 U	--	1.11 U	--	**66.2**	1.05 U	**3.30 J**	--	0.521 U	0.880 U	0.882 U
PCB-151	pg/g	**894 J**	--	**32.8**	--	**18,700**	**40.2**	**196**	--	**26.2**	**43.3**	**20**

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-152	pg/g	3.93 U	--	1.12 U	--	**3.44 J**	1.08 U	**2.29 J**	--	0.537 U	0.887 U	0.857 U
PCB-153	pg/g	**3600 J**	--	**120**	--	**69,300**	**192**	**932**	--	**113**	**147**	**71.2**
PCB-154	pg/g	**28.6 J**	--	1.20 U	--	**213**	1.22 U	**12.9**	--	**1.94 J**	**1.96 J**	0.969 U
PCB-155	pg/g	3.69 U	--	1.05 U	--	**2.08 J**	0.961 U	0.913 U	--	0.459 U	0.794 U	0.820 U
PCB-156 (Dioxin-Like)	pg/g	**367 J**	--	**10.8**	--	**5,600**	**27**	**103**	--	**10.5**	**12.8**	**5.59**
PCB-157 (Dioxin-Like)	pg/g	**77.4 J**	--	**2.89 J**	--	**411**	**7.05**	**27.8**	--	**2.70 J**	**3.49 J**	1.42 U
PCB-158	pg/g	**495 J, C**	--	**14.5 C**	--	**6,620 C**	**30.1 C**	**124 C**	--	**14.2 C**	**17.9 C**	**8.34 C**
PCB-159	pg/g	**37.1 J**	--	**1.77 J**	--	**566**	0.807 U	**9.89**	--	**1.75 J**	**2.63 J**	1.25 U
PCB-160	pg/g	**– J, C158**	--	**– C158**	--	**– C158**	**– C158**	**– C158**	--	**– C158**	**– C158**	**– C158**
PCB-161	pg/g	**– J, C132**	--	**– C132**	--	**– C132**	**– C132**	**– C132**	--	**– C132**	**– C132**	**– C132**
PCB-162	pg/g	**– J, C128**	--	**– C128**	--	**– C128**	**– C128**	**– C128**	--	**– C128**	**– C128**	**– C128**
PCB-163	pg/g	**– J, C138**	--	**– C138**	--	**– C138**	**– C138**	**– C138**	--	**– C138**	**– C138**	**– C138**
PCB-164	pg/g	**– J, C138**	--	**– C138**	--	**– C138**	**– C138**	**– C138**	--	**– C138**	**– C138**	**– C138**
PCB-165	pg/g	**– J, C146**	--	**– C146**	--	**– C146**	**– C146**	**– C146**	--	**– C146**	**– C146**	**– C146**
PCB-166	pg/g	**16.2 J**	--	0.837 U	--	**13.8**	**1.66 J**	**4.87**	--	0.680 U	1.09 U	1.30 U
PCB-167 (Dioxin-Like)	pg/g	**154 J**	--	**4.79**	--	**2,560**	**10.4**	**43**	--	**4.42**	**6.39**	**3.25 J**
PCB-168	pg/g	3.20 U	--	0.765 U	--	1.35 U	0.853 U	**2.92 J**	--	0.667 U	1.05 U	1.34 U
PCB-169	pg/g	3.12 U	--	0.800 U	--	1.37 U	0.949 U	1.67 U	--	0.722 U	1.16 U	1.21 U
PCB-170	pg/g	**1150 J**	--	**42.4**	--	**32,100**	**50.3**	**181**	--	**34.2**	**36.2**	**24.5**
PCB-171	pg/g	**374 J**	--	**13.1**	--	**7,550**	**14.9**	**58.4**	--	**10.2**	**12.8**	**7.08**
PCB-172	pg/g	**225 J**	--	**7.12**	--	**4,960**	**9.13**	**31.5**	--	**7.07**	**6.96**	**5.4**
PCB-173	pg/g	**33.4 J**	--	0.974 U	--	**610**	0.826 U	**4.89**	--	0.857 U	1.35 U	1.90 U
PCB-174	pg/g	**1280 J**	--	**41.9**	--	**27,300**	**48.9**	**188**	--	**37.8**	**39.8**	**26.8**
PCB-175	pg/g	**59.3 J**	--	**2.20 J**	--	**1,120**	**3.04 J**	**9.72**	--	**2.09 J**	**2.31 J**	1.66 U
PCB-176	pg/g	**184 J**	--	**6.47**	--	**3,090**	**7.34**	**28.5**	--	**5.82**	**6.36**	**3.73 J**
PCB-177	pg/g	**763 J**	--	**24.5**	--	**16,400**	**29.2**	**116**	--	**21.5**	**27.9**	**17.3**
PCB-178	pg/g	**259 J**	--	**8.25**	--	**5,110**	**9.67**	**44.7**	--	**7.9**	**9.47**	**7.67**
PCB-179	pg/g	**524 J**	--	**18.5**	--	**8,570**	**19.3**	**88.6**	--	**17.2**	**18.1**	**12.8**
PCB-180	pg/g	**2310 J**	--	**83.7**	--	**48,700**	**94.7**	**387**	--	**76.9**	**73.4**	**59.1**
PCB-181	pg/g	4.50 U	--	0.868 U	--	0.940 U	0.710 U	1.66 U	--	0.742 U	1.20 U	1.85 U
PCB-182	pg/g	**1510 J, C**	--	**49.6 C**	--	**25,000 C**	**56.2 C**	**276 C**	--	**53.6 C**	**56.6 C**	**42.2 C**
PCB-183	pg/g	**786 J**	--	**27.9**	--	**13,400**	**31.1**	**125**	--	**25.5**	**27**	**16.9**
PCB-184	pg/g	3.15 U	--	0.581 U	--	**4.94**	0.510 U	1.22 U	--	0.506 U	0.847 U	1.19 U
PCB-185	pg/g	**150.0 J**	--	**6.03**	--	**2,440**	**7.43**	**25**	--	**4.82**	**5.84**	**3.79 J**
PCB-186	pg/g	3.41 U	--	0.594 U	--	0.691 U	0.548 U	1.28 U	--	0.546 U	0.898 U	1.31 U
PCB-187	pg/g	**– J, C182**	--	**– C182**	--	**– C182**	**– C182**	**– C182**	--	**– C182**	**– C182**	**– C182**
PCB-188	pg/g	3.51 U	--	0.633 U	--	**11.3**	0.549 U	1.22 U	--	0.542 U	0.936 U	1.41 U
PCB-189 (Dioxin-Like)	pg/g	**45.6 J**	--	**1.92 J**	--	**1,070**	**2.60 J**	**7.89**	--	**1.50 J**	0.914 U	1.07 U
PCB-190	pg/g	**245 J**	--	**9.64**	--	**5,140**	**10.5**	**38**	--	**7.63**	**7.92**	**5.58**
PCB-191	pg/g	**53.0 J**	--	**2.51 J**	--	**1,230**	**3.43 J**	**11.3**	--	**2.28 J**	**1.90 J**	1.28 U
PCB-192	pg/g	3.74 U	--	0.673 U	--	0.762 U	0.606 U	1.38 U	--	0.602 U	0.981 U	1.39 U
PCB-193	pg/g	**112 J**	--	**5.14**	--	**2,950**	**5.88**	**23.7**	--	**4.52**	**5.88**	**3.44 J**

Sample Location[1]		MAF-10		MAF-11				MAF-12			MAF-13	MAF-14
Sample Identification		MAF-SC-DUP-07	MAF-SC-10_6-7.6	MAF-SS-11_0-10	MAF-SC-11_0-2	MAF-SC-11_2-4	MAF-SC-11_6-8	MAF-SS-12_0-10	MAF-SC-12_0-2	MAF-SC-12_2-4	MAF-SS-13_0-10	MAF-SS-14_0-10
Sample Date		10/29/2015	10/29/2015	10/20/2015	10/28/2015	10/28/2015	10/28/2015	10/20/2015	10/28/2015	10/28/2015	10/20/2015	10/21/2015
Sample Interval (dbm)		0 - 2 ft	6 - 7.6 ft	0-10 cm	0 - 2 ft	2 - 4 ft	6 - 8 ft	0-10 cm	0 - 2 ft	2 - 4 ft	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-194	pg/g	**488 J**	--	**18.8**	--	**7,540**	**26.1**	**112**	--	**24.3**	**16.7**	**16.5**
PCB-195	pg/g	**203 J**	--	**7.66**	--	**3,180**	**10.3**	**46**	--	**7.88**	**7.17**	**5.93**
PCB-196	pg/g	**616 J, C**	--	**28.2 C**	--	**7,430 C**	**38.3 C**	**133 C**	--	**38.9 C**	**26.5 C**	**23.1 C**
PCB-197	pg/g	**34.5 J**	--	**1.13 J**	--	**291**	**1.99 J**	**5.33**	--	1.25 U	1.28 U	1.03 U
PCB-198	pg/g	**35.6 J**	--	**1.84 J**	--	**451**	**1.86 J**	**8.19**	--	2.25 J	2.02 J	1.45 U
PCB-199	pg/g	**590.0 J**	--	**23.8**	--	**6,460**	**42.8**	**116**	--	**41.1**	**21.8**	**21.3**
PCB-200	pg/g	**70.9 J**	--	**3.11 J**	--	**815**	**4.48**	**16**	--	**4.13**	**3.35 J**	**3.09 J**
PCB-201	pg/g	**91.6 J**	--	**3.34 J**	--	**847**	**5.15**	**17.6**	--	**5.81**	**3.52 J**	**2.97 J**
PCB-202	pg/g	**127 J**	--	**4.81**	--	**848**	**9.65**	**29.7**	--	**9.65**	**5.79**	**4.62**
PCB-203	pg/g	**– J, C196**	--	**– C196**	--	**– C196**	**– C196**	**– C196**	--	**– C196**	**– C196**	**– C196**
PCB-204	pg/g	3.71 U	--	0.572 U	--	0.801 U	1.02 U	1.58 U	--	1.28 U	1.31 U	1.03 U
PCB-205	pg/g	**29.5 J**	--	**1.02 J**	--	**335**	**1.68 J**	**6.61**	--	**1.52 J**	0.997 U	0.643 U
PCB-206	pg/g	**208 J**	--	**6.69**	--	**633**	**56.2**	**58.9**	--	**56.4**	**8.35**	**7.83**
PCB-207	pg/g	**29.0 J**	--	0.526 U	--	**105**	**5.42**	**9.22**	--	**6.44**	1.36 U	1.28 U
PCB-208	pg/g	**60.5 J**	--	**1.76 J**	--	**100**	**21.1**	**17.9**	--	**22.3**	**2.70 J**	**2.12 J**
PCB-209	pg/g	**109 J**	--	**2.66 J**	--	**49.3**	**73.1**	**40.7**	--	**76.6**	**4.51**	**4.72**
Total PCBs Congeners	pg/g	**66,400 J**	--	**2,140 J**	--	**657,000 J**	**4,580 J**	**195,000 J**	--	**3,110 J**	**2,390 J**	**988 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	0.891 U	--	--	1.17 U	--	--	**2.47 J**	**8.02**	**2.93 J**	**36.4 J**	**5.37 J**
PCB-002	pg/g	0.931 U	--	--	1.21 U	--	--	1.22 U	**2.48 J**	**5.75**	**13.9 J**	**2.54 J**
PCB-003	pg/g	0.947 U	--	--	1.23 U	--	--	**2.60 J**	**6.47**	**5.27**	**42.9 J**	**6.47 J**
PCB-004	pg/g	1.20 U	--	--	1.09 U	--	--	**2.47 J**	**5.67**	1.45 U	**34.3 J**	**5.34 J**
PCB-005	pg/g	0.973 U	--	--	0.902 U	--	--	1.01 U	**5.24**	1.25 U	**7.53**	1.47 U
PCB-006	pg/g	0.846 U	--	--	0.784 U	--	--	**2.96 J**	**3.99**	1.22 U	**27.1 J**	**3.92 J**
PCB-007	pg/g	0.906 U	--	--	0.840 U	--	--	1.04 U	**1.67 J**	1.20 U	**10.8 J**	1.37 UJ
PCB-008	pg/g	**3.54**	--	--	0.836 U	--	--	**5.95**	**12.5**	**5.95**	**114 J**	**20.8 J**
PCB-009	pg/g	0.927 U	--	--	0.859 U	--	--	1.01 U	1.15 U	1.22 U	**9.44 J**	1.40 UJ
PCB-010	pg/g	1.01 U	--	--	0.932 U	--	--	1.13 U	1.12 U	1.38 U	**3.78 J**	1.52 U
PCB-011	pg/g	**3.6**	--	--	**7.39**	--	--	**5.19**	**10.6**	**6.2**	**32.8 J**	**9.96 J**
PCB-012	pg/g	0.974 U	--	--	0.902 U	--	--	1.08 U	1.23 U	**4.42**	**6.25**	1.47 U
PCB-013	pg/g	0.927 U	--	--	0.860 U	--	--	1.25 U	**1.92 J**	1.25 U	**12.9 J**	1.40 UJ
PCB-014	pg/g	0.917 U	--	--	0.850 U	--	--	1.07 U	1.18 U	1.23 U	1.30 U	1.38 U
PCB-015	pg/g	**3.4**	--	--	0.794 U	--	--	**3.89 J**	**14.1**	**3.54 J**	**78.2 J**	**16.3 J**
PCB-016	pg/g	1.31 U	--	--	1.56 U	--	--	**4.17**	**12.3**	**3.43 J**	**66.3 J**	**14.0 J**
PCB-017	pg/g	1.38 U	--	--	1.65 U	--	--	**5.89**	**16.4**	**4.5**	**88.9 J**	**18.5 J**
PCB-018	pg/g	**4.97**	--	--	1.78 U	--	--	**14.9**	**43.5**	**11.6**	**234 J**	**38.6 J**
PCB-019	pg/g	1.49 U	--	--	1.78 U	--	--	1.61 U	**3.74 J**	1.45 U	**18.7 J**	**4.51 J**
PCB-020	pg/g	**3.91 C**	--	--	1.32 U, C	--	--	**9.78 C**	**28.9 C**	**8.72 C**	**2,74 J, C**	**36.0 J, C**
PCB-021	pg/g	-- C020	--	--	-- U, C020	--	--	**-- C020**	**-- C020**	**-- C020**	**-- J, C020**	**-- J, C020**
PCB-022	pg/g	**2.84 J**	--	--	1.34 U	--	--	**6.84**	**22**	**5.34**	**171 J**	**24.7 J**
PCB-023	pg/g	1.40 U	--	--	1.48 U	--	--	1.40 U	0.992 U	1.13 U	1.77 U	1.02 U
PCB-024	pg/g	0.959 U	--	--	1.14 U	--	--	1.18 U	1.01 U	1.01 U	**2.05 J**	1.21 U
PCB-025	pg/g	1.16 U	--	--	1.22 U	--	--	1.21 U	**4.19**	0.944 U	**34.8 J**	**4.57 J**

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	1.29 U	--	--	1.36 U	--	--	**2.85 J**	**9.34**	1.15 U	**78.3 J**	**10.3 J**
PCB-027	pg/g	1.10 U	--	--	1.31 U	--	--	1.11 U	**3.34 J**	1.01 U	**15.7 J**	**3.77 J**
PCB-028	pg/g	**6.13**	--	--	1.21 U	--	--	**17.7**	**53.1**	**13.9**	**444 J**	**65.8 J**
PCB-029	pg/g	1.27 U	--	--	1.33 U	--	--	1.50 U	1.18 U	1.11 U	1.73 U	0.918 U
PCB-030	pg/g	0.992 U	--	--	1.18 U	--	--	1.11 U	0.923 U	0.995 U	1.26 U	1.25 U
PCB-031	pg/g	**5.17**	--	--	1.27 U	--	--	**16**	**64.3**	**15.1**	**537 J**	**65.2 J**
PCB-032	pg/g	1.08 U	--	--	1.29 U	--	--	**5.06**	**14.7**	**3.22 J**	**70.4 J**	**15.9 J**
PCB-033	pg/g	**-- C020**	--	--	-- U, C020	--	--	**-- C020**	**-- C020**	**-- C020**	**-- J, C020**	**-- J, C020**
PCB-034	pg/g	1.20 U	--	--	1.27 U	--	--	1.81 U	1.37 U	1.30 U	1.78 U	0.874 U
PCB-035	pg/g	1.35 U	--	--	1.42 U	--	--	1.58 U	**2.32 J**	1.20 U	**12.3 J**	0.979 UJ
PCB-036	pg/g	1.29 U	--	--	1.36 U	--	--	1.51 U	1.29 U	1.14 U	1.69 U	0.934 U
PCB-037	pg/g	**4.46**	--	--	1.25 U	--	--	**4.93**	**19.7**	**3.83 J**	**106 J**	**20.7 J**
PCB-038	pg/g	1.22 U	--	--	1.29 U	--	--	1.44 U	1.11 U	1.12 U	1.65 U	0.888 U
PCB-039	pg/g	1.32 U	--	--	1.40 U	--	--	1.47 U	1.21 U	1.14 U	1.72 U	0.962 U
PCB-040	pg/g	1.33 U	--	--	1.52 U	--	--	**4.69**	**13.7**	**4.7**	**64.0 J**	**18.4 J**
PCB-041	pg/g	**6.42 C**	--	--	**2.13 J, C**	--	--	**20.4 C**	**77.3 C**	**19.8 C**	**280.0 J, C**	**92.7 J, C**
PCB-042	pg/g	**3.01 J, C**	--	--	0.987 U, C	--	--	**8.00 C**	**25.1 C**	**6.45 C**	**81.5 J, C**	**30.8 J, C**
PCB-043	pg/g	**8.05 C**	--	--	**2.53 J, C**	--	--	**25.0 C**	**93.7 C**	**19.6 C**	**318 J, C**	**97.3 J, C**
PCB-044	pg/g	**7.7**	--	--	**2.76 J**	--	--	**28.7**	**117**	**24.1**	**334 J**	**120.0 J**
PCB-045	pg/g	1.11 U	--	--	1.27 U	--	--	**4.28**	**11**	**3.63 J**	**47.7 J**	**11.9 J**
PCB-046	pg/g	1.19 U	--	--	1.37 U	--	--	**2.15 J**	**4.19**	1.30 U	**20.0 J**	**5.59 J**
PCB-047	pg/g	**4.21**	--	--	**2.31 J**	--	--	**8.06**	**25.4**	**6.99**	**85.5 J**	**31.1 J**
PCB-048	pg/g	0.824 U, C	--	--	0.944 U, C	--	--	**5.47 C**	**14.4 C**	**4.75 C**	**58.4 J, C**	**18.0 J, C**
PCB-049	pg/g	**-- C043**	--	--	**-- J, C043**	--	--	**-- C043**	**-- C043**	**-- C043**	**-- J, C043**	**-- J, C043**
PCB-050	pg/g	0.972 U	--	--	1.11 U	--	--	1.47 U	0.463 U	1.09 U	1.45 U	0.613 U
PCB-051	pg/g	0.992 U	--	--	1.14 U	--	--	**1.95 J**	**3.43 J**	1.07 U	**16.0 J**	**3.90 J**
PCB-052	pg/g	**9.46 C**	--	--	**3.64 J, C**	--	--	**41.4 C**	**175 C**	**30.3 C**	**655 J, C**	**166 J, C**
PCB-053	pg/g	1.04 U	--	--	1.19 U	--	--	**4.09**	**11.4**	**3.95 J**	**56.7 J**	**13.2 J**
PCB-054	pg/g	0.767 U	--	--	0.879 U	--	--	1.17 U	0.350 U	0.844 U	1.18 U	0.484 U
PCB-055	pg/g	0.740 U	--	--	0.847 U	--	--	0.888 U	**3.85 J**	0.789 U	**13.8 J**	**3.07 J**
PCB-056	pg/g	**5.37 C**	--	--	1.85 U, C	--	--	**22.2 C**	**81.4 C**	**16.5 C**	**397 J, C**	**87.9 J, C**
PCB-057	pg/g	0.732 U	--	--	0.839 U	--	--	0.949 U	0.339 U	0.806 U	1.10 U	0.462 U
PCB-058	pg/g	0.797 U	--	--	0.913 U	--	--	0.921 U	0.344 U	0.756 U	**2.13 J**	0.502 U
PCB-059	pg/g	**-- J, C042**	--	--	-- U, C042	--	--	**-- C042**	**-- C042**	**-- C042**	**-- J, C042**	**-- J, C042**
PCB-060	pg/g	**-- C056**	--	--	-- U, C056	--	--	**-- C056**	**-- C056**	**-- C056**	**-- J, C056**	**-- J, C056**
PCB-061	pg/g	**10.7 C**	--	--	**3.70 J, C**	--	--	**31.7 C**	**160.0 C**	**31.8 C**	**871 J, C**	**190.0 J, C**
PCB-062	pg/g	0.874 U	--	--	1.00 U	--	--	1.11 U	0.389 U	0.901 U	1.20 U	0.551 U
PCB-063	pg/g	0.741 U	--	--	0.849 U	--	--	0.929 U	**4.63**	0.814 U	**23.2 J**	**5.41 J**
PCB-064	pg/g	**-- C041**	--	--	**-- J, C041**	--	--	**-- C041**	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**
PCB-065	pg/g	0.763 U	--	--	0.874 U	--	--	1.10 U	0.363 U	0.838 U	1.19 U	0.481 U
PCB-066	pg/g	**9.89 C**	--	--	**4.01 J, C**	--	--	**24.3 C**	**103 C**	**22.6 C**	**581 J, C**	**127 J, C**
PCB-067	pg/g	0.721 U	--	--	0.826 U	--	--	0.967 U	**2.58 J**	0.855 U	**15.5 J**	**4.28 J**

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	0.720 U	--	--	0.825 U	--	--	0.921 U	0.324 U	0.762 U	1.08 U	0.454 U
PCB-069	pg/g	**-- C052**	--	--	**-- J, C052**	--	--	**-- C052**	**-- C052**	**-- C052**	**-- J, C052**	**-- J, C052**
PCB-070	pg/g	**-- C061**	--	--	**-- J, C061**	--	--	**-- C061**	**-- C061**	**-- C061**	**-- J, C061**	**-- J, C061**
PCB-071	pg/g	**-- C041**	--	--	**-- J, C041**	--	--	**-- C041**	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**
PCB-072	pg/g	**-- C041**	--	--	**-- J, C041**	--	--	**-- C041**	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**
PCB-073	pg/g	0.887 U	--	--	1.02 U	--	--	1.06 U	0.372 U	0.935 U	1.15 U	0.559 U
PCB-074	pg/g	**4.22**	--	--	0.794 U	--	--	**13.6**	**64.5**	**13.6**	**316 J**	**72.4 J**
PCB-075	pg/g	-- U, C048	--	--	-- U, C048	--	--	**-- C048**	**-- C048**	**-- C048**	**-- J, C048**	**-- J, C048**
PCB-076	pg/g	**-- C066**	--	--	**-- J, C066**	--	--	**-- C066**	**-- C066**	**-- C066**	**-- J, C066**	**-- J, C066**
PCB-077 (Dioxin-Like)	pg/g	1.02 U	--	--	1.75 U	--	--	**3.76 J**	**12.1**	**2.49 J**	**49.8 J**	**11.6 J**
PCB-078	pg/g	1.02 U	--	--	1.71 U	--	--	1.16 U	1.11 U	0.909 U	**4.17**	0.488 U
PCB-079	pg/g	1.01 U	--	--	1.70 U	--	--	**1.51 J**	**4.45**	0.868 U	**14.9 J**	**3.41 J**
PCB-080	pg/g	0.635 U	--	--	0.728 U	--	--	0.743 U	0.277 U	0.706 U	0.756 U	0.401 U
PCB-081 (Dioxin-Like)	pg/g	0.958 U	--	--	1.58 U	--	--	**2.28 J**	**7.19**	0.842 U	**32.5 J**	**4.73 J**
PCB-082	pg/g	**3.67**	--	--	1.99 U	--	--	**7.72**	**51.1**	**6.12**	**141 J**	**42.4 J**
PCB-083	pg/g	**2.21 J, C**	--	--	1.48 U, C	--	--	**3.08 J, C**	**18.1 C**	**2.49 J, C**	**50.6 J, C**	**14.3 J, C**
PCB-084	pg/g	**13.5 C**	--	--	**7.52 C**	--	--	**29.0 C**	**181 C**	**17.8 C**	**608 J, C**	**117 J, C**
PCB-085	pg/g	**4.59 C**	--	--	1.39 U, C	--	--	**10.0 C**	**67.5 C**	**8.43 C**	**178 J, C**	**53.7 J, C**
PCB-086	pg/g	1.30 U	--	--	1.61 U	--	--	1.05 U	1.67 U	1.00 U	**4.15**	1.65 U
PCB-087	pg/g	**10.8 C**	--	--	**5.78 C**	--	--	**26.0 C**	**162 C**	**19.4 C**	**617 J, C**	**131 J, C**
PCB-088	pg/g	**3.88 C**	--	--	1.61 U, C	--	--	**12.4 C**	**45.6 C**	**6.02 C**	**251 J, C**	**45.7 J, C**
PCB-089	pg/g	1.44 U	--	--	1.78 U	--	--	1.26 U	**5.18**	1.01 U	**8.95**	**2.90 J**
PCB-090	pg/g	**46.0 C**	--	--	**13.8 C**	--	--	**73.8 C**	**480.0 C**	**49.0 C**	**2,360 J, C**	**343 J, C**
PCB-091	pg/g	**-- C088**	--	--	-- U, C088	--	--	**-- C088**	**-- C088**	**-- C088**	**-- J, C088**	**-- J, C088**
PCB-092	pg/g	**-- C084**	--	--	**-- C084**	--	--	**-- C084**	**-- C084**	**-- C084**	**-- J, C084**	**-- J, C084**
PCB-093	pg/g	1.85 U	--	--	1.84 U	--	--	1.25 U	0.632 U	1.20 U	1.80 U	1.65 U
PCB-094	pg/g	1.81 U	--	--	1.80 U	--	--	1.27 U	**1.77 J**	1.18 U	**9.45**	1.62 U
PCB-095	pg/g	**36.3**	--	--	**20.5**	--	--	**73.2**	**298**	**36.1**	**3360 J**	**299 J**
PCB-096	pg/g	1.24 U	--	--	1.23 U	--	--	0.966 U	**2.41 J**	0.825 U	**9.14**	**2.15 J**
PCB-097	pg/g	**7.63**	--	--	**4.25**	--	--	**17.6**	**117**	**12.9**	**355 J**	**92.6 J**
PCB-098	pg/g	1.39 U, C	--	--	1.38 U, C	--	--	1.02 U, C	0.480 U, C	0.925 U, C	1.19 U, C	1.24 U, C
PCB-099	pg/g	**15.7**	--	--	**6.16**	--	--	**28.6**	**197**	**19.7**	**532 J**	**148 J**
PCB-100	pg/g	1.56 U	--	--	1.55 U	--	--	1.08 U	**1.38 J**	0.980 U	**7.48**	1.39 U
PCB-101	pg/g	**-- C090**	--	--	**-- C090**	--	--	**-- C090**	**-- C090**	**-- C090**	**-- J, C090**	**-- J, C090**
PCB-102	pg/g	-- U, C098	--	--	-- U, C098	--	--	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	1.44 U	--	--	1.43 U	--	--	1.08 U	**2.34 J**	0.968 U	**12.0 J**	**2.38 J**
PCB-104	pg/g	1.18 U	--	--	1.18 U	--	--	0.913 U	0.422 U	0.774 U	1.04 U	1.06 U
PCB-105 (Dioxin-Like)	pg/g	**13**	--	--	**6.01**	--	--	**32.7**	**182**	**19**	**660.0 J**	**144 J**
PCB-106	pg/g	**34.6 C**	--	--	10.2 C	--	--	**75.3 C**	**447 C**	**42.7 C**	**1980 J, C**	**351 J, C**
PCB-107	pg/g	**1.85 U, C**	--	--	0.625 U, C	--	--	**5.47 C**	**29.3 C**	**3.52 J, C**	**107 J, C**	**23.2 J, C**
PCB-108	pg/g	**-- U, C107**	--	--	-- U, C107	--	--	**-- C107**	**-- C107**	**-- J, C107**	**-- J, C107**	**-- J, C107**
PCB-109	pg/g	1.05 U	--	--	1.30 U	--	--	0.837 U	1.14 U	0.728 U	1.21 U	1.34 U

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	**40.8**	--	--	**14.3**	--	--	**61.5**	**411**	**43.9**	**1670 J**	**340.0 J**
PCB-111	pg/g	0.921 U, C	--	--	1.14 U, C	--	--	**1.54 J, C**	**9.03 C**	**1.27 J, C**	**18.4 J, C**	**7.68 J, C**
PCB-112	pg/g	**-- J, C083**	--	--	-- U, C083	--	--	**-- J, C083**	**-- C083**	**-- J, C083**	**-- J, C083**	**-- J, C083**
PCB-113	pg/g	1.03 U	--	--	1.28 U	--	--	0.873 U	1.20 U	0.773 U	1.13 U	1.32 U
PCB-114 (Dioxin-Like)	pg/g	1.93 U	--	--	0.560 U	--	--	**1.73 J**	**11.5**	**2.19 J**	**48.3 J**	**8.93 J**
PCB-115	pg/g	-- U, C111	--	--	-- U, C111	--	--	**-- J, C111**	**-- C111**	**-- J, C111**	**-- J, C111**	**-- J, C111**
PCB-116	pg/g	**-- C085**	--	--	-- U, C085	--	--	**-- C085**	**-- C085**	**-- C085**	**-- J, C085**	**-- J, C085**
PCB-117	pg/g	**-- C087**	--	--	**-- C087**	--	--	**-- C087**	**-- C087**	**-- C087**	**-- J, C087**	**-- J, C087**
PCB-118 (Dioxin-Like)	pg/g	**-- C106**	--	--	**-- C106**	--	--	**-- C106**	**-- C106**	**-- C106**	**-- J, C106**	**-- J, C106**
PCB-119	pg/g	**1.52 J**	--	--	1.15 U	--	--	2.00 U	**7.18**	0.679 U	**16.7 J**	**5.11 J**
PCB-120	pg/g	0.892 U	--	--	1.11 U	--	--	0.737 U	0.987 U	0.656 U	**7.09**	1.14 U
PCB-121	pg/g	1.29 U	--	--	1.28 U	--	--	0.841 U	0.427 U	0.844 U	1.19 U	1.15 U
PCB-122	pg/g	1.80 U	--	--	0.609 U	--	--	**1.29 J**	**6.32**	0.839 U	**27.2 J**	**4.13 J**
PCB-123 (Dioxin-Like)	pg/g	1.69 U	--	--	0.585 U	--	--	**1.50 J**	**6.39**	0.765 U	**26.6 J**	**5.11 J**
PCB-124	pg/g	1.82 U	--	--	0.613 U	--	--	**3.86 J**	19.6	**2.47 J**	**99.7 J**	**14.7 J**
PCB-125	pg/g	**-- C087**	--	--	**-- C087**	--	--	**-- C087**	**-- C087**	**-- C087**	**-- J, C087**	**-- J, C087**
PCB-126 (Dioxin-Like)	pg/g	1.90 U	--	--	0.593 U	--	--	0.856 U	**2.48 J**	1.01 U	**11.5 J**	**2.16 J**
PCB-127	pg/g	1.81 U	--	--	0.611 U	--	--	0.732 U	0.995 U	0.928 U	1.58 U	0.727 U
PCB-128	pg/g	**22.6 C**	--	--	**4.20 C**	--	--	**17.5 C**	**84.5 C**	**9.10 C**	**707 J, C**	**81.2 J, C**
PCB-129	pg/g	**5.81**	--	--	1.91 U	--	--	**5.61**	**32.9**	**3.46 J**	**214 J**	**24.2 J**
PCB-130	pg/g	**15.2**	--	--	1.82 U	--	--	**8.21**	**30.4**	**2.93 J**	**337 J**	**27.3 J**
PCB-131	pg/g	**6.40 C**	--	--	1.65 U, C	--	--	**3.12 J, C**	**13.9 C**	1.27 U, C	**127 J, C**	**12.1 J, C**
PCB-132	pg/g	**88.3 C**	--	--	**7.76 C**	--	--	**28.6 C**	**140.0 C**	**13.4 C**	**1420 J, C**	**124 J, C**
PCB-133	pg/g	**-- C131**	--	--	-- U, C131	--	--	**-- J, C131**	**-- C131**	-- U, C131	**-- J, C131**	**-- J, C131**
PCB-134	pg/g	**11.7 C**	--	--	1.66 U, C	--	--	**5.95 C**	**27.6 C**	**3.01 J, C**	**255 J, C**	**20.9 J, C**
PCB-135	pg/g	**49.9**	--	--	**7.21**	--	--	**13.5**	**61**	**6.21**	**694 J**	**44.6 J**
PCB-136	pg/g	**55.5**	--	--	**4.61**	--	--	**16.1**	**54.8**	**6.14**	**650.0 J**	**54.0 J**
PCB-137	pg/g	1.71 U	--	--	1.67 U	--	--	**4.27**	**34.1**	**3.66 J**	**110.0 J**	**28.0 J**
PCB-138	pg/g	**292 C**	--	--	**26.0 C**	--	--	**95.4 C**	**441 C**	**47.0 C**	**5980 J, C**	**424 J, C**
PCB-139	pg/g	**363 C**	--	--	**29.2 C**	--	--	**86.6 C**	**360.0 C**	**42.8 C**	**4560 J, C**	**341 J, C**
PCB-140	pg/g	1.58 U	--	--	1.55 U	--	--	1.02 U	**3.06 J**	1.23 U	**8.83**	**2.00 J**
PCB-141	pg/g	**81.9**	--	--	**9.13**	--	--	**18.8**	**88.4**	**10.7**	**1540 J**	**81.0 J**
PCB-142	pg/g	1.88 U	--	--	1.83 U	--	--	1.16 U	1.21 U	1.45 U	1.94 U	1.09 U
PCB-143	pg/g	**-- C134**	--	--	-- U, C134	--	--	**-- C134**	**-- C134**	**-- J, C134**	**-- J, C134**	**-- J, C134**
PCB-144	pg/g	**19**	--	--	**3.26 J**	--	--	**5.69**	**22.9**	**3.75 J**	**351 J**	**21.1 J**
PCB-145	pg/g	0.893 U	--	--	1.64 U	--	--	0.776 U	0.459 U	0.666 U	0.990 U	0.553 U
PCB-146	pg/g	**46.0 C**	--	--	**4.55 C**	--	--	**14.2 C**	**55.3 C**	**7.68 C**	**826 J, C**	**52.3 J, C**
PCB-147	pg/g	1.64 U	--	--	1.60 U	--	--	**2.38 J**	**10.6**	1.18 U	**42.6 J**	**8.28 J**
PCB-148	pg/g	1.02 U	--	--	1.87 U	--	--	0.970 U	0.634 U	0.895 U	1.23 U	0.631 U
PCB-149	pg/g	**-- C139**	--	--	**-- C139**	--	--	**-- C139**	**-- C139**	**-- C139**	**-- J, C139**	**-- J, C139**
PCB-150	pg/g	0.868 U	--	--	1.59 U	--	--	0.739 U	0.480 U	0.637 U	**3.01 J**	0.537 U
PCB-151	pg/g	**121**	--	--	**10.3**	--	--	**24.4**	**95.1**	**13.5**	**1310 J**	**75.7 J**

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	0.843 U	--	--	1.54 U	--	--	0.745 U	**1.24 J**	0.655 U	0.957 U	0.522 U
PCB-153	pg/g	**343**	--	--	**28.4**	--	--	**96.7**	**402**	**56.4**	**6020 J**	**377 J**
PCB-154	pg/g	**2.86 J**	--	--	1.75 U	--	--	0.830 U	**3.82 J**	0.740 U	**16.3 J**	**3.94 J**
PCB-155	pg/g	0.807 U	--	--	1.48 U	--	--	0.667 U	0.453 U	0.583 U	0.815 U	0.499 U
PCB-156 (Dioxin-Like)	pg/g	**14.3**	--	--	**3.77 J**	--	--	**10.2**	**61.1**	**5.91**	**684 J**	**52.0 J**
PCB-157 (Dioxin-Like)	pg/g	1.35 U	--	--	1.33 U	--	--	**2.23 J**	**13.7**	**2.16 J**	**86.9 J**	**13.3 J**
PCB-158	pg/g	**27.7 C**	--	--	**3.78 J, C**	--	--	**12.0 C**	**63.1 C**	**6.22 C**	**735 J, C**	**54.7 J, C**
PCB-159	pg/g	**5.55**	--	--	1.18 U	--	--	**1.52 J**	**3.13 J**	0.934 U	**67.0 J**	**3.55 J**
PCB-160	pg/g	**-- C158**	--	--	**-- J, C158**	--	--	**-- C158**	**-- C158**	**-- C158**	**-- J, C158**	**-- J, C158**
PCB-161	pg/g	**-- C132**	--	--	**-- C132**	--	--	**-- C132**	**-- C132**	**-- C132**	**-- J, C132**	**-- J, C132**
PCB-162	pg/g	**-- C128**	--	--	**-- C128**	--	--	**-- C128**	**-- C128**	**-- C128**	**-- J, C128**	**-- J, C128**
PCB-163	pg/g	**-- C138**	--	--	**-- C138**	--	--	**-- C138**	**-- C138**	**-- C138**	**-- J, C138**	**-- J, C138**
PCB-164	pg/g	**-- C138**	--	--	**-- C138**	--	--	**-- C138**	**-- C138**	**-- C138**	**-- J, C138**	**-- J, C138**
PCB-165	pg/g	**-- C146**	--	--	**-- C146**	--	--	**-- C146**	**-- C146**	**-- C146**	**-- J, C146**	**-- J, C146**
PCB-166	pg/g	1.26 U	--	--	1.23 U	--	--	0.793 U	**2.77 J**	0.998 U	**11.8 J**	**2.30 J**
PCB-167 (Dioxin-Like)	pg/g	**5.8**	--	--	1.23 U	--	--	**4.57**	**22.4**	**2.99 J**	**284 J**	**19.5 J**
PCB-168	pg/g	1.29 U	--	--	1.26 U	--	--	0.765 U	0.728 U	0.987 U	1.38 U	0.751 U
PCB-169	pg/g	1.22 U	--	--	1.07 U	--	--	0.739 U	0.811 U	0.990 U	1.18 U	0.656 U
PCB-170	pg/g	**91.1**	--	--	**8.44**	--	--	**25.2**	**84.8**	**15.1**	**2740 J**	**103 J**
PCB-171	pg/g	**33.9**	--	--	1.63 U	--	--	**9.54**	**24.6**	**5.95**	**703 J**	**31.3 J**
PCB-172	pg/g	**19.8**	--	--	1.71 U	--	--	**5.23**	**14.4**	**4.76**	**457 J**	**20.4 J**
PCB-173	pg/g	0.993 U	--	--	1.89 U	--	--	1.11 U	**2.50 J**	1.30 U	**64.7 J**	**2.54 J**
PCB-174	pg/g	**160**	--	--	**12.9**	--	--	**26.5**	**75.8**	**26.2**	**2150 J**	**96.4 J**
PCB-175	pg/g	**6.5**	--	--	1.65 U	--	--	**2.32 J**	**4.28**	1.13 U	**108 J**	**4.82 J**
PCB-176	pg/g	**24.6**	--	--	1.23 U	--	--	**3.97 J**	**11.1**	**4.4**	**268 J**	**14.1 J**
PCB-177	pg/g	**97.7**	--	--	**10.8**	--	--	**16.9**	**47**	**12.9**	**1300 J**	**60.3 J**
PCB-178	pg/g	**35.6**	--	--	**4.88**	--	--	**6.23**	**15.3**	**7.22**	**410.0 J**	**22.0 J**
PCB-179	pg/g	**89.3**	--	--	**8.47**	--	--	**10.9**	**33.9**	**14.4**	**678 J**	**43.7 J**
PCB-180	pg/g	**207**	--	--	**18.6**	--	--	**48.2**	**150**	**59.1**	**4830 J**	**236 J**
PCB-181	pg/g	0.971 U	--	--	1.85 U	--	--	0.987 U	0.725 U	1.12 U	1.68 U	0.999 U
PCB-182	pg/g	**190.0 C**	--	--	**16.9 C**	--	--	**34.5 C**	**90.6 C**	**53.7 C**	**2170 J, C**	**146 J, C**
PCB-183	pg/g	**76.3**	--	--	**9.33**	--	--	**17.8**	**49**	**20.5**	**1230 J**	**68.7 J**
PCB-184	pg/g	0.621 U	--	--	1.18 U	--	--	0.696 U	0.485 U	0.802 U	1.24 U	0.639 U
PCB-185	pg/g	**20.8**	--	--	**7.77**	--	--	**3.61 J**	**9.48**	**5.15**	**230.0 J**	**12.8 J**
PCB-186	pg/g	0.684 U	--	--	1.30 U	--	--	0.738 U	0.496 U	0.863 U	1.29 U	0.703 U
PCB-187	pg/g	**-- C182**	--	--	**-- C182**	--	--	**-- C182**	**-- C182**	**-- C182**	**-- J, C182**	**-- J, C182**
PCB-188	pg/g	0.698 U	--	--	1.34 U	--	--	0.825 U	0.523 U	0.855 U	1.30 U	0.759 U
PCB-189 (Dioxin-Like)	pg/g	0.599 U	--	--	1.13 U	--	--	0.689 U	**3.65 J**	0.851 U	**144 J**	**4.84 J**
PCB-190	pg/g	**22.4**	--	--	1.35 U	--	--	**5.6**	**17.7**	**4.24**	**527 J**	**21.8 J**
PCB-191	pg/g	**5.47**	--	--	1.28 U	--	--	0.772 U	**3.77 J**	0.893 U	**127 J**	**4.95 J**
PCB-192	pg/g	**1.99 J**	--	--	1.39 U	--	--	0.806 U	0.562 U	0.955 U	1.40 U	0.750 U
PCB-193	pg/g	**17.4**	--	--	1.25 U	--	--	**3.19 J**	**9.19**	**2.82 J**	**270.0 J**	**11.6 J**

Sample Location[1]		MAF-15			MAF-16	MAF-17	MAF-18	MAF-19	MAF-20		MAF-21	
Sample Identification		MAF-SS-15_0-10	MAF-SC-15_0-2	MAF-SC-DUP-08	MAF-SS-16_0-10	MAF-SS-17_0-10	MAF-SS-18_0-10	MAF-SS-19_0-10	MAF-SS-20-0-10	MAF-SC-20_1-2	MAF-SS-21_0-10	MAF-SS-DUP-04
Sample Date		10/21/2015	10/28/2015	10/28/2015	10/21/2015	10/21/2015	10/21/2015	10/20/2015	10/20/2015	10/29/2015	10/21/2015	10/21/2015
Sample Interval (dbm)		0-10 cm	0 - 2 ft	0 - 2 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	1 - 2 ft	0-10 cm	0-10 cm
Sample Type		Surface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Subsurface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	**19**	--	--	**4.59**	--	--	**10.1**	**34.7**	**38.3**	**1020 J**	**97.1 J**
PCB-195	pg/g	**10**	--	--	**2.12 J**	--	--	**4.14**	**11.5**	**8.68**	**458 J**	**28.0 J**
PCB-196	pg/g	**42.4 C**	--	--	**7.33 C**	--	--	**16.7 C**	**44.2 C**	**59.9 C**	**872 J, C**	**154 J, C**
PCB-197	pg/g	1.38 U	--	--	1.38 U	--	--	1.03 U	**1.80 J**	0.875 U	**36.6 J**	**4.25 J**
PCB-198	pg/g	1.95 U	--	--	1.94 U	--	--	1.58 U	**1.28 J**	**2.33 J**	**51.6 J**	**8.35 J**
PCB-199	pg/g	**40.1**	--	--	**6.72**	--	--	**14.3**	**42.3**	**65**	**653 J**	**143 J**
PCB-200	pg/g	**10.2**	--	--	1.36 U	--	--	**2.26 J**	**4.99**	**6.52**	**88.9 J**	**14.2 J**
PCB-201	pg/g	**11.2**	--	--	1.36 U	--	--	**2.96 J**	**5.19**	**8.56**	**95.8 J**	**18.6 J**
PCB-202	pg/g	**9.04**	--	--	1.41 U	--	--	**4.3**	**8.74**	**15.1**	**114 J**	**31.3 J**
PCB-203	pg/g	**-- C196**	--	--	**-- C196**	--	--	**-- C196**	**-- C196**	**-- C196**	**-- J, C196**	**-- J, C196**
PCB-204	pg/g	1.38 U	--	--	1.37 U	--	--	1.05 U	0.521 U	0.883 U	1.43 U	0.998 U
PCB-205	pg/g	0.438 U	--	--	0.290 U	--	--	1.15 U	**1.88 J**	**1.44 J**	**60.6 J**	**3.75 J**
PCB-206	pg/g	**4.54**	--	--	1.40 U	--	--	**7.15**	**17.2**	**66.1**	**170**	**119**
PCB-207	pg/g	1.29 U	--	--	1.21 U	--	--	1.15 U	**2.37 J**	**7.49**	**24.5**	**15.8**
PCB-208	pg/g	1.19 U	--	--	1.20 U	--	--	**2.37 J**	**5.42**	**21.6**	**36.6**	**31.1**
PCB-209	pg/g	1.44 U	--	--	0.587 U	--	--	**3.71 J**	**8.4**	**48.9**	**51**	**35.4**
Total PCBs Congeners	pg/g	**3,170 J**	--	--	**378 J**	--	--	**1,600 J**	**7,110 J**	**1,440 J**	**69,300 J**	**7,270 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	1.12 U	**11.6**	--	--	1.80 U	--	0.939 U	--	**13.4**
PCB-002	pg/g	--	--	1.30 U	1.47 U	--	--	1.78 U	--	0.964 U	--	**3.59 J**
PCB-003	pg/g	--	--	1.54 U	**4.32**	--	--	1.74 U	--	0.965 U	--	**9**
PCB-004	pg/g	--	--	1.83 U	**7.86**	--	--	1.41 U	--	0.645 U	--	**10.7**
PCB-005	pg/g	--	--	1.25 U	1.25 U	--	--	1.09 U	--	0.519 U	--	**5.22**
PCB-006	pg/g	--	--	1.33 U	**3.52 J**	--	--	1.03 U	--	0.451 U	--	**7.4**
PCB-007	pg/g	--	--	1.21 U	1.28 U	--	--	1.07 U	--	0.483 U	--	**2.55 J**
PCB-008	pg/g	--	--	1.28 U	**14.3**	--	--	1.05 U	--	0.481 U	--	**26**
PCB-009	pg/g	--	--	1.38 U	1.26 U	--	--	1.06 U	--	0.494 U	--	**2.36 J**
PCB-010	pg/g	--	--	1.23 U	1.40 U	--	--	1.17 U	--	0.536 U	--	1.27 U
PCB-011	pg/g	--	--	1.56 U	**6.53**	--	--	**5.17**	--	**3.68 J**	--	**20.8**
PCB-012	pg/g	--	--	1.59 U	1.33 U	--	--	1.11 U	--	0.519 U	--	1.21 U
PCB-013	pg/g	--	--	1.38 U	1.55 U	--	--	1.07 U	--	0.495 U	--	**2.81 J**
PCB-014	pg/g	--	--	1.30 U	1.32 U	--	--	1.06 U	--	0.489 U	--	1.15 U
PCB-015	pg/g	--	--	1.33 U	**6.3**	--	--	0.985 U	--	0.446 U	--	**16.3**
PCB-016	pg/g	--	--	1.03 U	**7.18**	--	--	1.28 U	--	1.04 U	--	**11.4**
PCB-017	pg/g	--	--	1.08 U	**10.1**	--	--	1.43 U	--	1.10 U	--	**20**
PCB-018	pg/g	--	--	1.20 U	**23.4**	--	--	1.56 U	--	**2.18 J**	--	**48.8**
PCB-019	pg/g	--	--	1.12 U	**3.08 J**	--	--	1.54 U	--	1.18 U	--	**4.45**
PCB-020	pg/g	--	--	1.16 U, C	**13.5 C**	--	--	1.71 U, C	--	1.61 U, C	--	**49.7 C**
PCB-021	pg/g	--	--	-- U, C020	**-- C020**	--	--	-- U, C020	--	-- U, C020	--	**-- C020**
PCB-022	pg/g	--	--	1.20 U	**10.8**	--	--	1.69 U	--	1.63 U	--	**32.9**
PCB-023	pg/g	--	--	1.12 U	0.970 U	--	--	1.79 U	--	1.81 U	--	1.30 U
PCB-024	pg/g	--	--	0.827 U	1.43 U	--	--	1.07 U	--	0.762 U	--	1.55 U
PCB-025	pg/g	--	--	1.03 U	**2.33 J**	--	--	1.53 U	--	1.49 U	--	**9.09**

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	1.29 U	**4.29**	--	--	1.71 U	--	1.66 U	--	18.2
PCB-027	pg/g	--	--	0.794 U	**2.12 J**	--	--	1.07 U	--	0.874 U	--	**4.55**
PCB-028	pg/g	--	--	1.01 U	**25.8**	--	--	1.49 U	--	**3.31 J**	--	**89**
PCB-029	pg/g	--	--	1.19 U	1.04 U	--	--	1.75 U	--	1.63 U	--	1.27 U
PCB-030	pg/g	--	--	0.817 U	1.35 U	--	--	1.02 U	--	0.789 U	--	1.47 U
PCB-031	pg/g	--	--	1.24 U	**26.4**	--	--	1.71 U	--	**2.75 J**	--	**85.3**
PCB-032	pg/g	--	--	0.854 U	**7.34**	--	--	1.19 U	--	0.857 U	--	**18.4**
PCB-033	pg/g	--	--	-- U, C020	**-- C020**	--	--	-- U, C020	--	-- U, C020	--	**-- C020**
PCB-034	pg/g	--	--	1.48 U	1.26 U	--	--	1.80 U	--	1.55 U	--	1.30 U
PCB-035	pg/g	--	--	1.36 U	1.10 U	--	--	1.79 U	--	1.74 U	--	1.29 U
PCB-036	pg/g	--	--	1.31 U	1.05 U	--	--	1.71 U	--	1.66 U	--	1.24 U
PCB-037	pg/g	--	--	1.15 U	**6.06**	--	--	1.61 U	--	1.53 U	--	**28.5**
PCB-038	pg/g	--	--	1.21 U	1.00 U	--	--	1.66 U	--	1.58 U	--	1.21 U
PCB-039	pg/g	--	--	1.31 U	1.02 U	--	--	1.74 U	--	1.71 U	--	1.26 U
PCB-040	pg/g	--	--	0.867 U	**6.37**	--	--	1.77 U	--	1.10 U	--	**10.6**
PCB-041	pg/g	--	--	**1.27 J, C**	**27.7 C**	--	--	1.08 U, C	--	**3.30 J, C**	--	**48.7 C**
PCB-042	pg/g	--	--	**1.78 J, C**	**10.5 C**	--	--	1.14 U, C	--	**2.06 J, C**	--	**15.6 C**
PCB-043	pg/g	--	--	0.644 U, C	**35.1 C**	--	--	1.38 U, C	--	3.64 J, C	--	**59.8 C**
PCB-044	pg/g	--	--	**1.80 J**	**39.6**	--	--	1.51 U	--	**3.99**	--	**57.7**
PCB-045	pg/g	--	--	0.711 U	**5.18**	--	--	1.48 U	--	0.916 U	--	**9.16**
PCB-046	pg/g	--	--	0.762 U	**2.49 J**	--	--	1.60 U	--	0.984 U	--	**3.46 J**
PCB-047	pg/g	--	--	0.498 U	**11**	--	--	1.10 U	--	**2.14 J**	--	**17.3**
PCB-048	pg/g	--	--	0.518 U, C	**7.08 C**	--	--	1.15 U, C	--	0.680 U, C	--	**11.0 C**
PCB-049	pg/g	--	--	-- U, C043	**-- C043**	--	--	-- U, C043	--	**-- J, C043**	--	**-- C043**
PCB-050	pg/g	--	--	0.633 U	1.12 U	--	--	1.33 U	--	0.803 U	--	1.09 U
PCB-051	pg/g	--	--	0.622 U	**2.06 J**	--	--	1.33 U	--	0.819 U	--	**3.45 J**
PCB-052	pg/g	--	--	**1.58 J, C**	**56.1 C**	--	--	**3.33 J, C**	--	**4.78 C**	--	**101 C**
PCB-053	pg/g	--	--	0.643 U	**5.45**	--	--	1.42 U	--	0.856 U	--	**10.2**
PCB-054	pg/g	--	--	0.468 U	0.888 U	--	--	1.08 U	--	0.633 U	--	0.881 U
PCB-055	pg/g	--	--	0.489 U	0.674 U	--	--	1.03 U	--	0.611 U	--	0.838 U
PCB-056	pg/g	--	--	0.657 U, C	**30.0 C**	--	--	1.13 U, C	--	**2.97 J, C**	--	**55.2 C**
PCB-057	pg/g	--	--	0.501 U	0.720 U	--	--	1.01 U	--	0.605 U	--	0.822 U
PCB-058	pg/g	--	--	0.532 U	0.699 U	--	--	1.03 U	--	0.658 U	--	0.842 U
PCB-059	pg/g	--	--	**-- J, C042**	**-- C042**	--	--	-- U, C042	--	**-- J, C042**	--	**-- C042**
PCB-060	pg/g	--	--	-- U, C056	**-- C056**	--	--	-- U, C056	--	**-- J, C056**	--	**-- C056**
PCB-061	pg/g	--	--	**1.73 J, C**	**43.4 C**	--	--	**2.88 J, C**	--	**5.41 C**	--	**130.0 C**
PCB-062	pg/g	--	--	0.517 U	0.845 U	--	--	1.10 U	--	0.722 U	--	0.902 U
PCB-063	pg/g	--	--	0.503 U	**1.82 J**	--	--	1.00 U	--	0.612 U	--	**4.73**
PCB-064	pg/g	--	--	**-- J, C041**	**-- C041**	--	--	-- U, C041	--	**-- J, C041**	--	**-- C041**
PCB-065	pg/g	--	--	0.494 U	0.832 U	--	--	1.09 U	--	0.630 U	--	0.890 U
PCB-066	pg/g	--	--	**3.18 J, C**	**32.9 C**	--	--	**2.14 J, C**	--	**4.57 C**	--	**88.0 C**
PCB-067	pg/g	--	--	0.502 U	0.734 U	--	--	1.00 U	--	0.596 U	--	**3.47 J**

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	0.493 U	0.701 U	--	--	0.990 U	--	0.594 U	--	0.808 U
PCB-069	pg/g	--	--	**– J, C052**	**– C052**	--	--	**– J, C052**	--	**– C052**	--	**– C052**
PCB-070	pg/g	--	--	**– J, C061**	**– C061**	--	--	**– J, C061**	--	**– C061**	--	**– C061**
PCB-071	pg/g	--	--	**– J, C041**	**– C041**	--	--	-- U, C041	--	**– J, C041**	--	**– C041**
PCB-072	pg/g	--	--	**– J, C041**	**– C041**	--	--	-- U, C041	--	**– J, C041**	--	**– C041**
PCB-073	pg/g	--	--	0.474 U	0.802 U	--	--	1.05 U	--	0.733 U	--	0.860 U
PCB-074	pg/g	--	--	0.483 U	**17.7**	--	--	0.968 U	--	**1.97 J**	--	**51**
PCB-075	pg/g	--	--	-- U, C048	**– C048**	--	--	-- U, C048	--	-- U, C048	--	**– C048**
PCB-076	pg/g	--	--	**– J, C066**	**– C066**	--	--	**– J, C066**	--	**– C066**	--	**– C066**
PCB-077 (Dioxin-Like)	pg/g	--	--	0.686 U	**3.90 J**	--	--	1.16 U	--	0.676 U	**26.1**	**10.2**
PCB-078	pg/g	--	--	0.673 U	0.897 U	--	--	1.10 U	--	0.665 U	--	0.829 U
PCB-079	pg/g	--	--	0.653 U	**1.65 J**	--	--	1.08 U	--	0.662 U	--	**2.15 J**
PCB-080	pg/g	--	--	0.444 U	0.564 U	--	--	0.887 U	--	0.525 U	--	0.725 U
PCB-081 (Dioxin-Like)	pg/g	--	--	0.599 U	**2.59 J**	--	--	1.01 U	--	0.621 U	**6.25**	**3.34 J**
PCB-082	pg/g	--	--	1.17 U	**9.32**	--	--	1.78 U	--	**2.16 J**	--	**17**
PCB-083	pg/g	--	--	0.818 U, C	**3.39 J, C**	--	--	1.36 U, C	--	1.20 U, C	--	**7.12 C**
PCB-084	pg/g	--	--	0.928 U, C	**31.3 C**	--	--	4.94 C	--	**5.69 C**	--	**55.5 C**
PCB-085	pg/g	--	--	0.820 U, C	**11.4 C**	--	--	1.27 U, C	--	**2.53 J, C**	--	**23.3 C**
PCB-086	pg/g	--	--	1.00 U	1.24 U	--	--	1.40 U	--	1.30 U	--	1.75 U
PCB-087	pg/g	--	--	0.734 U, C	**29.0 C**	--	--	**4.60 C**	--	**5.18 C**	--	**56.4 C**
PCB-088	pg/g	--	--	1.87 U, C	**15.4 C**	--	--	1.26 U, C	--	2.47 J, C	--	**30.5 C**
PCB-089	pg/g	--	--	0.979 U	1.49 U	--	--	1.54 U	--	**1.44 U**	--	1.93 U
PCB-090	pg/g	--	--	**2.55 J, C**	**85.8 C**	--	--	**11.3 C**	--	**18.2 C**	--	**170.0 C**
PCB-091	pg/g	--	--	-- U, C088	**– C088**	--	--	-- U, C088	--	**– J, C088**	--	**– C088**
PCB-092	pg/g	--	--	-- U, C084	**– C084**	--	--	**– C084**	--	**– C084**	--	**– C084**
PCB-093	pg/g	--	--	1.99 U	1.67 U	--	--	1.61 U	--	2.02 U	--	1.99 U
PCB-094	pg/g	--	--	1.94 U	1.70 U	--	--	1.46 U	--	1.98 U	--	1.80 U
PCB-095	pg/g	--	--	1.86 U	**89.9**	--	--	**13.6**	--	**20.1**	--	**230**
PCB-096	pg/g	--	--	1.24 U	1.29 U	--	--	0.988 U	--	1.35 U	--	1.22 U
PCB-097	pg/g	--	--	0.783 U	**20.1**	--	--	**2.74 J**	--	**4.04**	--	**41.1**
PCB-098	pg/g	--	--	1.54 U, C	1.37 U, C	--	--	1.06 U, C	--	1.52 U, C	--	1.31 U, C
PCB-099	pg/g	--	--	0.755 U	**34.2**	--	--	**5.58**	--	**6.3**	--	**75.9**
PCB-100	pg/g	--	--	1.57 U	1.44 U	--	--	1.24 U	--	1.70 U	--	1.53 U
PCB-101	pg/g	--	--	**– J, C090**	**– C090**	--	--	**– C090**	--	**– C090**	--	**– C090**
PCB-102	pg/g	--	--	-- U, C098	-- U, C098	--	--	-- U, C098	--	-- U, C098	--	-- U, C098
PCB-103	pg/g	--	--	1.53 U	1.44 U	--	--	1.17 U	--	1.57 U	--	1.45 U
PCB-104	pg/g	--	--	1.11 U	1.22 U	--	--	0.928 U	--	1.29 U	--	1.15 U
PCB-105 (Dioxin-Like)	pg/g	--	--	0.857 U	**39.8**	--	--	**2.72 J**	--	**4.96**	**121**	**61.8**
PCB-106	pg/g	--	--	**2.10 J, C**	**90.4 C**	--	--	**6.54 C**	--	**11.8 C**	--	**163 C**
PCB-107	pg/g	--	--	0.809 U, C	**6.69 C**	--	--	0.917 U, C	--	1.25 U, C	--	**10.8 C**
PCB-108	pg/g	--	--	-- U, C107	**– C107**	--	--	-- U, C107	--	-- U, C107	--	**– C107**
PCB-109	pg/g	--	--	0.697 U	0.993 U	--	--	1.17 U	--	1.06 U	--	1.46 U

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	**2.58 J**	**70.9**	--	--	**10.1**	--	**16.4**	--	**156**
PCB-111	pg/g	--	--	0.570 U, C	**1.65 J, C**	--	--	1.01 U, C	--	0.924 U, C	--	**2.87 J, C**
PCB-112	pg/g	--	--	-- U, C083	**-- J, C083**	--	--	-- U, C083	--	-- U, C083	--	**-- C083**
PCB-113	pg/g	--	--	0.762 U	1.04 U	--	--	1.10 U	--	1.04 U	--	1.37 U
PCB-114 (Dioxin-Like)	pg/g	--	--	0.839 U	**3.38 J**	--	--	0.850 U	--	1.13 U	**8.96**	**4.51**
PCB-115	pg/g	--	--	-- U, C111	**-- J, C111**	--	--	-- U, C111	--	-- U, C111	--	**-- J, C111**
PCB-116	pg/g	--	--	-- U, C085	**-- C085**	--	--	-- U, C085	--	**-- J, C085**	--	**-- C085**
PCB-117	pg/g	--	--	-- U, C087	**-- C087**	--	--	**-- C087**	--	**-- C087**	--	**-- C087**
PCB-118 (Dioxin-Like)	pg/g	--	--	**-- J, C106**	**-- C106**	--	--	**-- C106**	--	**-- C106**	**284 C**	**-- C106**
PCB-119	pg/g	--	--	0.664 U	0.925 U	--	--	1.02 U	--	0.934 U	--	**3.56 J**
PCB-120	pg/g	--	--	0.632 U	0.874 U	--	--	0.970 U	--	0.896 U	--	1.21 U
PCB-121	pg/g	--	--	1.32 U	1.13 U	--	--	1.06 U	--	1.41 U	--	1.31 U
PCB-122	pg/g	--	--	0.809 U	**1.56 J**	--	--	0.950 U	--	1.22 U	--	**2.35 J**
PCB-123 (Dioxin-Like)	pg/g	--	--	0.726 U	**1.47 J**	--	--	0.841 U	--	1.10 U	**4.78**	**2.63 J**
PCB-124	pg/g	--	--	0.881 U	**4.92**	--	--	0.838 U	--	1.23 U	--	**5.71**
PCB-125	pg/g	--	--	-- U, C087	**-- C087**	--	--	**-- C087**	--	**-- C087**	--	**-- C087**
PCB-126 (Dioxin-Like)	pg/g	--	--	0.979 U	1.07 U	--	--	1.03 U	--	1.23 U	**1.69 J**	1.33 U
PCB-127	pg/g	--	--	0.898 U	0.883 U	--	--	0.937 U	--	1.23 U	--	1.22 U
PCB-128	pg/g	--	--	0.611 U, C	**19.9 C**	--	--	**2.84 J, C**	--	4.98 C	--	**28.8 C**
PCB-129	pg/g	--	--	0.833 U	**5.7**	--	--	1.68 U	--	1.73 U	--	**8.7**
PCB-130	pg/g	--	--	0.851 U	**8.88**	--	--	1.60 U	--	1.65 U	--	**11.3**
PCB-131	pg/g	--	--	0.667 U, C	**3.57 J, C**	--	--	1.43 U, C	--	1.49 U, C	--	**4.79 C**
PCB-132	pg/g	--	--	0.588 U, C	**38.8 C**	--	--	**4.74 C**	--	**8.64 C**	--	**43.4 C**
PCB-133	pg/g	--	--	-- U, C131	**-- J, C131**	--	--	-- U, C131	--	-- U, C131	--	**-- C131**
PCB-134	pg/g	--	--	0.673 U, C	**7.25 C**	--	--	1.49 U, C	--	**1.90 J, C**	--	**8.98 C**
PCB-135	pg/g	--	--	0.662 U	**15.2**	--	--	**2.68**	--	**4.66**	--	**18.5**
PCB-136	pg/g	--	--	0.745 U	**19.3**	--	--	**3.50 J**	--	**5.97**	--	**21.5**
PCB-137	pg/g	--	--	0.665 U	**5.41**	--	--	1.43 U	--	1.51 U	--	**8.43**
PCB-138	pg/g	--	--	**2.16 J, C**	**129 C**	--	--	**17.5 C**	--	**26.1 C**	--	**166 C**
PCB-139	pg/g	--	--	**1.94 J, C**	**114 C**	--	--	**17.2 J, C**	--	**30.5 C**	--	**136 C**
PCB-140	pg/g	--	--	0.669 U	0.861 U	--	--	1.38 U	--	1.40 U	--	1.21 U
PCB-141	pg/g	--	--	0.692 U	**28.6**	--	--	**4.05**	--	**6.42**	--	**30.6**
PCB-142	pg/g	--	--	0.786 U	0.976 U	--	--	1.60 U	--	1.66 U	--	1.40 U
PCB-143	pg/g	--	--	-- U, C134	**-- C134**	--	--	-- U, C134	--	**-- J, C134**	--	**-- C134**
PCB-144	pg/g	--	--	0.668 U	**8.82**	--	--	1.41 U	--	**2.22 J**	--	**8.01**
PCB-145	pg/g	--	--	0.714 U	0.691 U	--	--	1.33 U	--	0.996 U	--	1.57 U
PCB-146	pg/g	--	--	0.556 U, C	**18.2 C**	--	--	**3.08 J, C**	--	**5.01 C**	--	**24.3 C**
PCB-147	pg/g	--	--	0.669 U	**2.44 J**	--	--	1.38 U	--	1.45 U	--	**3.15 J**
PCB-148	pg/g	--	--	0.870 U	0.863 U	--	--	1.64 U	--	1.14 U	--	1.94 U
PCB-149	pg/g	--	--	**-- J, C139**	**-- C139**	--	--	**-- C139**	--	**-- C139**	--	**-- C139**
PCB-150	pg/g	--	--	0.651 U	0.657 U	--	--	1.26 U	--	0.968 U	--	1.49 U
PCB-151	pg/g	--	--	0.721 U	**32.5**	--	--	**6.21**	--	**10.4**	--	**36.3**

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	0.671 U	0.663 U	--	--	1.28 U	--	0.940 U	--	1.51 U
PCB-153	pg/g	--	--	**2.65 J**	**135**	--	--	**18.6**	--	**30.3**	--	**176**
PCB-154	pg/g	--	--	0.802 U	**1.46 J**	--	--	1.43 U	--	1.06 U	--	**3.13 J**
PCB-155	pg/g	--	--	0.574 U	0.593 U	--	--	1.09 U	--	0.900 U	--	1.29 U
PCB-156 (Dioxin-Like)	pg/g	--	--	0.485 U	13.5	--	--	1.06 U	--	**2.46 J**	**36.5**	**16.8**
PCB-157 (Dioxin-Like)	pg/g	--	--	0.539 U	**2.65 J**	--	--	1.24 U	--	1.21 U	**8.09**	**4.58**
PCB-158	pg/g	--	--	0.505 U, C	**17.1 C**	--	--	**2.01 J, C**	--	**3.73 J, C**	--	**21.1 C**
PCB-159	pg/g	--	--	0.486 U	**2.00 J**	--	--	1.04 U	--	1.07 U	--	**2.80 J**
PCB-160	pg/g	--	--	-- U, C158	**-- C158**	--	--	**-- J, C158**	--	**-- J, C158**	--	**-- C158**
PCB-161	pg/g	--	--	-- U, C132	**-- C132**	--	--	**-- C132**	--	**-- C132**	--	**-- C132**
PCB-162	pg/g	--	--	-- U, C128	**-- C128**	--	--	**-- J, C128**	--	**-- C128**	--	**-- C128**
PCB-163	pg/g	--	--	**-- J, C138**	**-- C138**	--	--	**-- C138**	--	**-- C138**	--	**-- C138**
PCB-164	pg/g	--	--	**-- J, C138**	**-- C138**	--	--	**-- C138**	--	**-- C138**	--	**-- C138**
PCB-165	pg/g	--	--	-- U, C146	**-- C146**	--	--	**-- J, C146**	--	**-- C146**	--	**-- C146**
PCB-166	pg/g	--	--	0.530 U	0.667 U	--	--	1.10 U	--	1.11 U	--	0.961 U
PCB-167 (Dioxin-Like)	pg/g	--	--	0.542 U	**4.92**	--	--	1.22 U	--	1.13 U	**14.3**	**7.56**
PCB-168	pg/g	--	--	0.520 U	0.644 U	--	--	1.14 U	--	1.14 U	--	0.999 U
PCB-169	pg/g	--	--	0.548 U	0.698 U	--	--	0.967 U	--	0.952 U	0.566 U	0.929 U
PCB-170	pg/g	--	--	1.25 U	**37**	--	--	**5.16**	--	**11.2**	--	**39.5**
PCB-171	pg/g	--	--	1.09 U	**11.3**	--	--	**2.08 J**	--	**3.34 J**	--	**12.6**
PCB-172	pg/g	--	--	**1.62 J**	**6.16**	--	--	1.04 U	--	**3.22 J**	--	**8.04**
PCB-173	pg/g	--	--	1.23 U	0.925 U	--	--	1.12 U	--	1.74 U	--	1.52 U
PCB-174	pg/g	--	--	1.10 U	**39.6**	--	--	**6.9**	--	**12.4**	--	**43.3**
PCB-175	pg/g	--	--	1.06 U	**1.75 J**	--	--	0.942 U	--	1.52 U	--	**3.05 J**
PCB-176	pg/g	--	--	0.791 U	**6.04**	--	--	0.711 U	--	**2.34 J**	--	**6.58**
PCB-177	pg/g	--	--	1.20 U	**23.5**	--	--	**4.7**	--	**8.31**	--	**26.1**
PCB-178	pg/g	--	--	1.12 U	**8.93**	--	--	**2.28 J**	--	**3.94 J**	--	**11.5**
PCB-179	pg/g	--	--	0.751 U	**18**	--	--	**4.06**	--	**6.58**	--	**18.4**
PCB-180	pg/g	--	--	**1.84 J**	**72.8**	--	--	**11.9**	--	**24.3**	--	**87**
PCB-181	pg/g	--	--	1.06 U	0.826 U	--	--	0.992 U	--	1.70 U	--	1.35 U
PCB-182	pg/g	--	--	0.982 U, C	**48.2 C**	--	--	**11.1 C**	--	**18.9 C**	--	**62.6 C**
PCB-183	pg/g	--	--	**2.00 J**	**24.5**	--	--	**4.91**	--	**8.69**	--	**28.7**
PCB-184	pg/g	--	--	0.726 U	0.582 U	--	--	0.730 U	--	1.09 U	--	0.996 U
PCB-185	pg/g	--	--	1.08 U	**5.45**	--	--	1.02 U	--	**2.60 J**	--	**6.2**
PCB-186	pg/g	--	--	0.783 U	0.617 U	--	--	0.762 U	--	1.20 U	--	1.04 U
PCB-187	pg/g	--	--	-- U, C182	**-- C182**	--	--	**-- C182**	--	**-- C182**	--	**-- C182**
PCB-188	pg/g	--	--	0.776 U	0.652 U	--	--	0.771 U	--	1.24 U	--	1.09 U
PCB-189 (Dioxin-Like)	pg/g	--	--	0.764 U	**1.48 J**	--	--	0.731 U	--	1.04 U	**4**	0.950 U
PCB-190	pg/g	--	--	0.866 U	**7.49**	--	--	0.787 U	--	**2.92 J**	--	**9.43**
PCB-191	pg/g	--	--	0.820 U	**2.09 J**	--	--	0.743 U	--	1.18 U	--	**2.98 J**
PCB-192	pg/g	--	--	0.863 U	0.674 U	--	--	0.825 U	--	1.28 U	--	1.12 U
PCB-193	pg/g	--	--	0.810 U	**4.7**	--	--	0.737 U	--	**2.07 J**	--	**5.47**

Sample Location[1]		MAF-21			MAF-22	MAF-23	MAF-24	MAF-25	MAF-26	MAF-27	MAF-31	MAF-32
Sample Identification		MAF-SC-21_0-1	MAF-SC-DUP-09	MAF-SC-21_2-4	MAF-SS-22_0-10	MAF-SS-23_0-10	MAF-SS-24_0-10	MAF-SS-25_0-10	MAF-SS-26_0-10	MAF-SS-27_0-10	MAF-SS-31_0-10	MAF-SS-32_0-10
Sample Date		10/29/2015	10/29/2015	10/29/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/21/2015	10/19/2015	10/19/2015
Sample Interval (dbm)		0 - 1 ft	0 - 1 ft	2 - 4 ft	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Subsurface	Subsurface	Subsurface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	0.860 U	**14.2**	--	--	**3.84 J**	--	**7.68**	--	**22.3**
PCB-195	pg/g	--	--	0.894 U	**4.94**	--	--	1.24 U	--	**2.67 J**	--	**7.57**
PCB-196	pg/g	--	--	1.31 U, C	**22.7 C**	--	--	**6.07 C**	--	**11.0 C**	--	**27.4 C**
PCB-197	pg/g	--	--	1.01 U	0.750 U	--	--	1.31 U	--	1.36 U	--	1.42 U
PCB-198	pg/g	--	--	1.52 U	1.15 U	--	--	1.78 U	--	1.92 U	--	1.93 U
PCB-199	pg/g	--	--	1.46 U	**24**	--	--	**5.03**	--	**10.8**	--	**25.5**
PCB-200	pg/g	--	--	1.04 U	**2.91 J**	--	--	1.27 U	--	1.35 U	--	**3.68 J**
PCB-201	pg/g	--	--	1.03 U	**3.65 J**	--	--	1.30 U	--	1.35 U	--	**4.08**
PCB-202	pg/g	--	--	1.02 U	**5.82**	--	--	1.38 U	--	**3.89 J**	--	**9.61**
PCB-203	pg/g	--	--	-- U, C196	**-- C196**	--	--	**-- C196**	--	**-- C196**	--	**-- C196**
PCB-204	pg/g	--	--	1.04 U	0.767 U	--	--	1.28 U	--	1.36 U	--	1.39 U
PCB-205	pg/g	--	--	0.619 U	0.962 U	--	--	0.907 U	--	0.800 U	--	1.06 U
PCB-206	pg/g	--	--	**2.15 J**	**9.35**	--	--	1.26 U	--	**5.11**	--	**13.3**
PCB-207	pg/g	--	--	0.470 U	**1.62 J**	--	--	0.966 U	--	1.08 U	--	**2.77 J**
PCB-208	pg/g	--	--	0.402 U	**2.85 J**	--	--	0.945 U	--	1.07 U	--	**4.1**
PCB-209	pg/g	--	--	**2.06 J**	**4.48**	--	--	1.17 U	--	1.74 U	--	**7.81**
Total PCBs Congeners	pg/g	--	--	**35 J**	**2,140 J**	--	--	**226 J**	--	**442 J**	--	**3,650 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	**11.9**	**37.3**	**94.5**	**6.33**	--	--	--	--	--	--
PCB-002	pg/g	--	**3.82 J**	**13.9**	**28.8**	**2.36 J**	--	--	--	--	--	--
PCB-003	pg/g	--	**9.77**	**23.3**	**91.5**	**5.89**	--	--	--	--	--	--
PCB-004	pg/g	--	**9.23**	**101**	**77.1**	**9.27**	--	--	--	--	--	--
PCB-005	pg/g	--	1.36 U	**12.4**	**14.1**	1.24 U	--	--	--	--	--	--
PCB-006	pg/g	--	**8.34**	**55.5**	**57.2**	**9.61**	--	--	--	--	--	--
PCB-007	pg/g	--	**3.50 J**	**9.32**	**23**	1.22 U	--	--	--	--	--	--
PCB-008	pg/g	--	**33.7**	**296**	**255**	**22.1**	--	--	--	--	--	--
PCB-009	pg/g	--	**3.99**	**21.9**	**17.4**	1.20 U	--	--	--	--	--	--
PCB-010	pg/g	--	1.41 U	**4.86**	**14.1**	1.33 U	--	--	--	--	--	--
PCB-011	pg/g	--	**10.8**	**18.4**	**46.6**	**13.9**	--	--	--	--	--	--
PCB-012	pg/g	--	**2.35 J**	**5.6**	**15.5**	1.27 U	--	--	--	--	--	--
PCB-013	pg/g	--	**3.00 J**	**9.54**	**28.5**	**5.53**	--	--	--	--	--	--
PCB-014	pg/g	--	1.28 U	0.874 U	1.37 U	1.21 U	--	--	--	--	--	--
PCB-015	pg/g	--	**19.4**	**87.7**	**271**	**16**	--	--	--	--	--	--
PCB-016	pg/g	--	**14.8**	**366**	**212**	**10.3**	--	--	--	--	--	--
PCB-017	pg/g	--	**21.4**	**557**	**290**	**20.1**	--	--	--	--	--	--
PCB-018	pg/g	--	**49.3**	**1670**	**580**	**39.9**	--	--	--	--	--	--
PCB-019	pg/g	--	**4.94**	**58.9**	**50.6**	**4.3**	--	--	--	--	--	--
PCB-020	pg/g	--	**54.3 C**	**1,760 C**	**685 C**	**50.7 C**	--	--	--	--	--	--
PCB-021	pg/g	--	**-- C020**	**-- C020**	**-- C020**	**-- C020**	--	--	--	--	--	--
PCB-022	pg/g	--	**35.4**	**888**	**301**	**32.9**	--	--	--	--	--	--
PCB-023	pg/g	--	1.24 U	**3.15 J**	2.65 U	1.64 U	--	--	--	--	--	--
PCB-024	pg/g	--	1.48 U	**4.9**	**20.4**	1.52 U	--	--	--	--	--	--
PCB-025	pg/g	--	**8.12**	**96.4**	**85.9**	**20.3**	--	--	--	--	--	--

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	**17.8**	**362**	**227**	**56.5**	--	--	--	--	--	--
PCB-027	pg/g	--	**3.95 J**	**75.8**	**39.7**	**3.48 J**	--	--	--	--	--	--
PCB-028	pg/g	--	**97.5**	**2,550**	**1,460**	**85.2**	--	--	--	--	--	--
PCB-029	pg/g	--	1.12 U	**10.7**	**9.13**	1.60 U	--	--	--	--	--	--
PCB-030	pg/g	--	1.53 U	0.952 U	1.23 U	1.45 U	--	--	--	--	--	--
PCB-031	pg/g	--	**91.7**	**3,330**	**1,590**	**97**	--	--	--	--	--	--
PCB-032	pg/g	--	**16**	**527**	**284**	**17.5**	--	--	--	--	--	--
PCB-033	pg/g	--	**-- C020**	**-- C020**	**-- C020**	**-- C020**	--	--	--	--	--	--
PCB-034	pg/g	--	1.06 U	**11.1**	**9.52**	1.64 U	--	--	--	--	--	--
PCB-035	pg/g	--	1.19 U	**11.9**	**31.3**	1.63 U	--	--	--	--	--	--
PCB-036	pg/g	--	1.14 U	1.59 U	2.87 U	1.56 U	--	--	--	--	--	--
PCB-037	pg/g	--	**27**	**205**	**75.4**	**22.6**	--	--	--	--	--	--
PCB-038	pg/g	--	1.08 U	**11.3**	**13.9**	1.52 U	--	--	--	--	--	--
PCB-039	pg/g	--	1.17 U	1.62 U	2.81 U	1.59 U	--	--	--	--	--	--
PCB-040	pg/g	--	**14.1**	**372**	**160**	**13.4**	--	--	--	--	--	--
PCB-041	pg/g	--	**59.4 C**	**1,590 C**	**914 C**	**61.2 C**	--	--	--	--	--	--
PCB-042	pg/g	--	**20.5 C**	**404 C**	**321 C**	**21.9 C**	--	--	--	--	--	--
PCB-043	pg/g	--	**65.2 C**	**1,960 C**	**1,270 C**	**126 C**	--	--	--	--	--	--
PCB-044	pg/g	--	**65.2**	**2530**	**1,450**	**81**	--	--	--	--	--	--
PCB-045	pg/g	--	**8.81**	**407**	**171**	**8.65**	--	--	--	--	--	--
PCB-046	pg/g	--	**3.78 J**	**151**	**70.6**	**4.4**	--	--	--	--	--	--
PCB-047	pg/g	--	**21.7**	**357**	**389**	**34.2**	--	--	--	--	--	--
PCB-048	pg/g	--	**11.7 C**	**378 C**	**178 C**	**13.0 C**	--	--	--	--	--	--
PCB-049	pg/g	--	**-- C043**	**-- C043**	**-- C043**	**-- C043**	--	--	--	--	--	--
PCB-050	pg/g	--	0.937 U	**6.64**	**3.50 J**	1.91 U	--	--	--	--	--	--
PCB-051	pg/g	--	**3.77 J**	**113**	**44.8**	**4.23**	--	--	--	--	--	--
PCB-052	pg/g	--	**106 C**	**5,090 C**	**2,200 C**	**180.0 C**	--	--	--	--	--	--
PCB-053	pg/g	--	**9.72**	**502**	**187**	**12.3**	--	--	--	--	--	--
PCB-054	pg/g	--	0.739 U	**5.69**	**2.77 J**	1.55 U	--	--	--	--	--	--
PCB-055	pg/g	--	**2.89 J**	**66.3**	**40.4**	**5.71**	--	--	--	--	--	--
PCB-056	pg/g	--	**72.8 C**	**1,360 C**	**1,630 C**	**65.2 C**	--	--	--	--	--	--
PCB-057	pg/g	--	**0.705 U**	**7.22**	**6.51**	**2.80 J**	--	--	--	--	--	--
PCB-058	pg/g	--	0.768 U	**2.39 J**	0.868 U	1.48 U	--	--	--	--	--	--
PCB-059	pg/g	--	**-- C042**	**-- C042**	**-- C042**	**-- C042**	--	--	--	--	--	--
PCB-060	pg/g	--	**-- C056**	**-- C056**	**-- C056**	**-- C056**	--	--	--	--	--	--
PCB-061	pg/g	--	**157 C**	**5,490 C**	**1,930 C**	**194 C**	--	--	--	--	--	--
PCB-062	pg/g	--	0.842 U	1.07 U	1.05 U	1.58 U	--	--	--	--	--	--
PCB-063	pg/g	--	**4.61**	**92.1**	**68.7**	**5.27**	--	--	--	--	--	--
PCB-064	pg/g	--	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--	--	--	--	--	--
PCB-065	pg/g	--	0.735 U	1.05 U	1.03 U	1.56 U	--	--	--	--	--	--
PCB-066	pg/g	--	**113 C**	**2,390 C**	**1,560 C**	**135 C**	--	--	--	--	--	--
PCB-067	pg/g	--	**4.39**	**32**	**51.9**	**6.31**	--	--	--	--	--	--

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	0.693 U	0.956 U	**5.27**	**2.10 J**	--	--	--	--	--	--
PCB-069	pg/g	--	**-- C052**	**-- C052**	**-- C052**	**-- C052**	--	--	--	--	--	--
PCB-070	pg/g	--	**-- C061**	**-- C061**	**-- C061**	**-- C061**	--	--	--	--	--	--
PCB-071	pg/g	--	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--	--	--	--	--	--
PCB-072	pg/g	--	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--	--	--	--	--	--
PCB-073	pg/g	--	0.855 U	1.02 U	0.995 U	1.51 U	--	--	--	--	--	--
PCB-074	pg/g	--	**61.9**	**1480**	**935**	**61.5**	--	--	--	--	--	--
PCB-075	pg/g	--	**-- C048**	**-- C048**	**-- C048**	**-- C048**	--	--	--	--	--	--
PCB-076	pg/g	--	**-- C066**	**-- C066**	**-- C066**	**-- C066**	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	**11.3**	**71.6**	**215**	**18.3**	**1.58 J**	**6.84**	--	--	--	--
PCB-078	pg/g	--	0.541 U	**30**	1.24 U	1.38 U	--	--	--	--	--	--
PCB-079	pg/g	--	**1.82 J**	**99.6**	**51.2**	**5.69**	--	--	--	--	--	--
PCB-080	pg/g	--	0.612 U	0.857 U	0.700 U	1.27 U	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	**3.47 J**	**203**	**94.6**	**5.41**	**1.04 J**	**3.15 J**	--	--	--	--
PCB-082	pg/g	--	**24.6**	**1,300**	**478**	**30**	--	--	--	--	--	--
PCB-083	pg/g	--	**7.78 C**	**450.0 C**	**169 C**	**15.6 C**	--	--	--	--	--	--
PCB-084	pg/g	--	**69.4 C**	**4,370 C**	**1,760 C**	**136 C**	--	--	--	--	--	--
PCB-085	pg/g	--	**29.3 C**	**1,540 C**	**586 C**	**40.3 C**	--	--	--	--	--	--
PCB-086	pg/g	--	1.13 U	**28.7**	1.69 U	1.44 U	--	--	--	--	--	--
PCB-087	pg/g	--	**76.7 C**	**4,680 C**	**1710 C**	**107 C**	--	--	--	--	--	--
PCB-088	pg/g	--	**32.6 C**	**2,300 C**	**605 C**	**111 C**	--	--	--	--	--	--
PCB-089	pg/g	--	**2.31 J**	**70.7**	**40**	**2.60 J**	--	--	--	--	--	--
PCB-090	pg/g	--	**215 C**	**11,600 C**	**4,860 C**	**353 C**	--	--	--	--	--	--
PCB-091	pg/g	--	**-- C088**	**-- C088**	**-- C088**	**-- C088**	--	--	--	--	--	--
PCB-092	pg/g	--	**-- C084**	**-- C084**	**-- C084**	**-- C084**	--	--	--	--	--	--
PCB-093	pg/g	--	1.94 U	1.55 U	1.59 U	1.77 U	--	--	--	--	--	--
PCB-094	pg/g	--	1.91 U	**77.2**	**22.1**	1.61 U	--	--	--	--	--	--
PCB-095	pg/g	--	**236**	**20,000**	**4,040**	**523**	--	--	--	--	--	--
PCB-096	pg/g	--	1.30 U	**77.3**	**19.8**	1.09 U	--	--	--	--	--	--
PCB-097	pg/g	--	**54**	**3,010**	**1,080**	**91.1**	--	--	--	--	--	--
PCB-098	pg/g	--	1.46 U, C	1.02 U, C	1.30 U, C	1.17 U, C	--	--	--	--	--	--
PCB-099	pg/g	--	**83.6**	**4,340**	**1,630**	**193**	--	--	--	--	--	--
PCB-100	pg/g	--	1.64 U	**34.9**	**12.3**	**4.78**	--	--	--	--	--	--
PCB-101	pg/g	--	**-- C090**	**-- C090**	**-- C090**	**-- C090**	--	--	--	--	--	--
PCB-102	pg/g	--	-- U, C098	-- U, C098	-- U, C098	-- U, C098	--	--	--	--	--	--
PCB-103	pg/g	--	**2.54 J**	**73.5**	**25.3**	**7.98**	--	--	--	--	--	--
PCB-104	pg/g	--	1.24 U	0.893 U	1.16 U	1.02 U	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	**80.9**	**5,260**	**1,950**	**131**	**15**	**62.7**	--	--	--	--
PCB-106	pg/g	--	**206 C**	**13,000 C**	**4,440 C**	**432 C**	--	--	--	--	--	--
PCB-107	pg/g	--	**13.6 C**	**775 C**	**338 C**	**28.6 C**	--	--	--	--	--	--
PCB-108	pg/g	--	**-- C107**	**-- C107**	**-- C107**	**-- C107**	--	--	--	--	--	--
PCB-109	pg/g	--	0.915 U	1.60 U	1.35 U	1.20 U	--	--	--	--	--	--

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	**203**	**11,700**	**3,930**	**391**	--	--	--	--	--	--
PCB-111	pg/g	--	**4.06 C**	**186 C**	**91.0 C**	**8.70 C**	--	--	--	--	--	--
PCB-112	pg/g	--	**-- C083**	**-- C083**	**-- C083**	**-- C083**	--	--	--	--	--	--
PCB-113	pg/g	--	0.899 U	1.50 U	1.41 U	1.13 U	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	**5.2**	**344**	**131**	**9.99**	0.653 U	**3.94 J**	--	--	--	--
PCB-115	pg/g	--	**-- C111**	**-- C111**	**-- C111**	**-- C111**	--	--	--	--	--	--
PCB-116	pg/g	--	**-- C085**	**-- C085**	**-- C085**	**-- C085**	--	--	--	--	--	--
PCB-117	pg/g	--	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	**-- C106**	**-- C106**	**-- C106**	**-- C106**	**35.1 C**	**153 C**	--	--	--	--
PCB-119	pg/g	--	**3.18 J**	**120**	**52.7**	**10.4**	--	--	--	--	--	--
PCB-120	pg/g	--	0.776 U	**12.9**	**4.47**	0.998 U	--	--	--	--	--	--
PCB-121	pg/g	--	1.36 U	1.02 U	1.07 U	1.17 U	--	--	--	--	--	--
PCB-122	pg/g	--	**2.57 J**	**169**	**46.9**	**4.84**	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	**3.11 J**	**178**	**70.7**	**7.77**	0.627 U	**2.43 J**	--	--	--	--
PCB-124	pg/g	--	**8.85**	**549**	**209**	**16.4**	--	--	--	--	--	--
PCB-125	pg/g	--	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	0.903 U	**55.1**	**24.7**	**5.09**	0.777 U	**1.13 J**	--	--	--	--
PCB-127	pg/g	--	0.852 U	1.40 U	1.34 U	1.62 U	--	--	--	--	--	--
PCB-128	pg/g	--	**58.4 C**	**2,870 C**	**876 C**	**64.9 C**	--	--	--	--	--	--
PCB-129	pg/g	--	**18**	**955**	**264**	**18.2**	--	--	--	--	--	--
PCB-130	pg/g	--	**25.4**	**1,080**	**363**	**23.9**	--	--	--	--	--	--
PCB-131	pg/g	--	**10.9 C**	**371 C**	**142 C**	**10.3 C**	--	--	--	--	--	--
PCB-132	pg/g	--	**100.0 C**	**4,050 C**	**1,340 C**	**80.1 C**	--	--	--	--	--	--
PCB-133	pg/g	--	**-- C131**	**-- C131**	**-- C131**	**-- C131**	--	--	--	--	--	--
PCB-134	pg/g	--	**17.9 C**	**767 C**	**275 C**	**20.8 C**	--	--	--	--	--	--
PCB-135	pg/g	--	**48**	**1,430**	**696**	**40.2**	--	--	--	--	--	--
PCB-136	pg/g	--	**47**	**1,530**	**708**	**46.2**	--	--	--	--	--	--
PCB-137	pg/g	--	**16**	**888**	**236**	**18.1**	--	--	--	--	--	--
PCB-138	pg/g	--	**396 C**	**14,200 C**	**5,890 C**	**340.0 C**	--	--	--	--	--	--
PCB-139	pg/g	--	**310.0 C**	**9,550 C**	**5,150 C**	**286 C**	--	--	--	--	--	--
PCB-140	pg/g	--	**1.44 J**	**52**	**23.2**	1.69 U	--	--	--	--	--	--
PCB-141	pg/g	--	**88.9**	**2,780**	**1,390**	**57**	--	--	--	--	--	--
PCB-142	pg/g	--	1.11 U	**5.14**	1.87 U	1.95 U	--	--	--	--	--	--
PCB-143	pg/g	--	**-- C134**	**-- C134**	**-- C134**	**-- C134**	--	--	--	--	--	--
PCB-144	pg/g	--	**17.8**	**629**	**402**	**15.3**	--	--	--	--	--	--
PCB-145	pg/g	--	0.693 U	**6.56**	**2.46 J**	1.56 U	--	--	--	--	--	--
PCB-146	pg/g	--	**53.9 C**	**1,600 C**	**782 C**	**48.7 C**	--	--	--	--	--	--
PCB-147	pg/g	--	**5.05**	**267**	**83.8**	**11.7**	--	--	--	--	--	--
PCB-148	pg/g	--	0.791 U	**9.08**	1.61 U	1.93 U	--	--	--	--	--	--
PCB-149	pg/g	--	**-- C139**	**-- C139**	**-- C139**	**-- C139**	--	--	--	--	--	--
PCB-150	pg/g	--	0.673 U	**11.8**	**6.06**	1.49 U	--	--	--	--	--	--
PCB-151	pg/g	--	**79.7**	**2160**	**1,460**	**62.9**	--	--	--	--	--	--

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	0.654 U	**14**	**5.17**	1.51 U	--	--	--	--	--	--
PCB-153	pg/g	--	**383**	**12,000**	**6,290**	**363**	--	--	--	--	--	--
PCB-154	pg/g	--	**3.38 J**	**78**	**32.3**	**6.54**	--	--	--	--	--	--
PCB-155	pg/g	--	0.626 U	1.62 U	1.11 U	1.29 U	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	**43.2**	**2,150**	**650**	**44**	**4.79**	**17**	--	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	**8.38**	**463**	**119**	**12.2**	**1.22 J**	**3.92 J**	--	--	--	--
PCB-158	pg/g	--	**49.5 C**	**2,010 C**	**710.0 C**	**50.8 C**	--	--	--	--	--	--
PCB-159	pg/g	--	**4.17**	**82.8**	**112**	**3.58 J**	--	--	--	--	--	--
PCB-160	pg/g	--	**-- C158**	**-- C158**	**-- C158**	**-- C158**	--	--	--	--	--	--
PCB-161	pg/g	--	**-- C132**	**-- C132**	**-- C132**	**-- C132**	--	--	--	--	--	--
PCB-162	pg/g	--	**-- C128**	**-- C128**	**-- C128**	**-- C128**	--	--	--	--	--	--
PCB-163	pg/g	--	**-- C138**	**-- C138**	**-- C138**	**-- C138**	--	--	--	--	--	--
PCB-164	pg/g	--	**-- C138**	**-- C138**	**-- C138**	**-- C138**	--	--	--	--	--	--
PCB-165	pg/g	--	**-- C146**	**-- C146**	**-- C146**	**-- C146**	--	--	--	--	--	--
PCB-166	pg/g	--	0.744 U	**74.3**	**20.4**	**2.49 J**	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	**19**	**712**	**232**	**20.6**	**2.27 J**	**6.53**	--	--	--	--
PCB-168	pg/g	--	0.764 U	**14.2**	1.24 U	1.39 U	--	--	--	--	--	--
PCB-169	pg/g	--	0.673 U	1.70 U	1.30 U	1.39 U	0.375 U	0.418 U	--	--	--	--
PCB-170	pg/g	--	**234**	**3,030**	**3,670**	**63.6**	--	--	--	--	--	--
PCB-171	pg/g	--	**57**	**844**	**1,060**	**21.3**	--	--	--	--	--	--
PCB-172	pg/g	--	**39.2**	**476**	**681**	**11.9**	--	--	--	--	--	--
PCB-173	pg/g	--	**6.28**	**69.6**	**69.9**	2.14 U	--	--	--	--	--	--
PCB-174	pg/g	--	**170**	**2,670**	**3970**	**65.3**	--	--	--	--	--	--
PCB-175	pg/g	--	**8.72**	**128**	**171**	**4.73**	--	--	--	--	--	--
PCB-176	pg/g	--	**22.9**	**321**	**545**	**8.68**	--	--	--	--	--	--
PCB-177	pg/g	--	**112**	**1,480**	**2,240**	**39.2**	--	--	--	--	--	--
PCB-178	pg/g	--	**38**	**447**	**737**	**16.6**	--	--	--	--	--	--
PCB-179	pg/g	--	**64.2**	**862**	**1,560**	**29.1**	--	--	--	--	--	--
PCB-180	pg/g	--	**412**	**5,570**	**8,620**	**141**	--	--	--	--	--	--
PCB-181	pg/g	--	1.12 U	1.60 U	1.32 U	1.90 U	--	--	--	--	--	--
PCB-182	pg/g	--	**205 C**	**2,710 C**	**4,870 C**	**92.4 C**	--	--	--	--	--	--
PCB-183	pg/g	--	**110**	**1,580**	**2,570**	**42.3**	--	--	--	--	--	--
PCB-184	pg/g	--	0.718 U	**2.11 J**	**1.90 J**	1.40 U	--	--	--	--	--	--
PCB-185	pg/g	--	**19.7**	**330**	**527**	**10.2**	--	--	--	--	--	--
PCB-186	pg/g	--	0.790 U	1.23 U	0.989 U	1.46 U	--	--	--	--	--	--
PCB-187	pg/g	--	**-- C182**	**-- C182**	**-- C182**	**-- C182**	--	--	--	--	--	--
PCB-188	pg/g	--	0.855 U	**2.31 J**	**3.40 J**	1.40 U	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	**12.3**	**136**	**122**	**3.69 J**	0.557 U	**2.08 J**	--	--	--	--
PCB-190	pg/g	--	**48.8**	**660**	**816**	**15.5**	--	--	--	--	--	--
PCB-191	pg/g	--	**11.4**	**137**	**156**	**3.98**	--	--	--	--	--	--
PCB-192	pg/g	--	0.842 U	1.33 U	1.08 U	1.58 U	--	--	--	--	--	--
PCB-193	pg/g	--	**23.4**	**288**	**412**	**9.16**	--	--	--	--	--	--

Sample Location[1]		MAF-33		MAF-34	MAF-35	MAF-36	MAF-37	MAF-38	MAF-39		MAF-40	MAF-41
Sample Identification		MAF-SS-33_0-10	MAF-SS-DUP-06	MAF-SS-34_0-10	MAF-SS-35_0-10	MAF-SS-36_0-10	MAF-SS-37_0-10	MAF-SS-38_0-10	MAF-SS-39_0-10	MAF-DUP-08	MAF-SS-40_0-10	MAF-SS-41_0-10
Sample Date		10/19/2015	10/19/2015	10/20/2015	10/19/2015	10/19/2015	09/13/2016	09/13/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	**107**	**1,580**	**2,540**	**34**	--	--	--	--	--	--
PCB-195	pg/g	--	**43.7**	**635**	**1,270**	**14.1**	--	--	--	--	--	--
PCB-196	pg/g	--	**121 C**	**1,540 C**	**3,240 C**	**40.6 C**	--	--	--	--	--	--
PCB-197	pg/g	--	**5.78**	**57.8**	**126**	1.41 U	--	--	--	--	--	--
PCB-198	pg/g	--	**5.53**	**65.6**	**170**	1.91 U	--	--	--	--	--	--
PCB-199	pg/g	--	**102**	**1,130**	**2,610**	**35.5**	--	--	--	--	--	--
PCB-200	pg/g	--	**12.4**	**156**	**377**	**4.21**	--	--	--	--	--	--
PCB-201	pg/g	--	**12.4**	**166**	**422**	**5.73**	--	--	--	--	--	--
PCB-202	pg/g	--	**16.7**	**207**	**482**	**10.8**	--	--	--	--	--	--
PCB-203	pg/g	--	**– C196**	**– C196**	**– C196**	**– C196**	--	--	--	--	--	--
PCB-204	pg/g	--	0.849 U	0.902 U	1.44 U	1.37 U	--	--	--	--	--	--
PCB-205	pg/g	--	**5.93**	**97.4**	**120**	**2.07 J**	--	--	--	--	--	--
PCB-206	pg/g	--	**29.9**	**461**	**764**	**14.5**	--	--	--	--	--	--
PCB-207	pg/g	--	**4.29**	**61.3**	**118**	**2.48 J**	--	--	--	--	--	--
PCB-208	pg/g	--	**6.97**	**81.2**	**162**	**4.16**	--	--	--	--	--	--
PCB-209	pg/g	--	**13.5**	**32.9**	**187**	**8.67**	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	**6,640 J**	**216,000 J**	**123,000 J**	**6,680 J**	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-002	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-003	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-004	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-005	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-006	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-007	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-008	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-009	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-010	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-011	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-012	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-013	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-014	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-015	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-016	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-017	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-018	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-019	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-020	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-021	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-022	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-023	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-024	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-025	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-027	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-028	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-029	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-030	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-031	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-032	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-033	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-034	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-035	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-036	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-037	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-038	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-039	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-040	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-041	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-042	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-043	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-044	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-045	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-046	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-047	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-048	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-049	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-050	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-051	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-052	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-053	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-054	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-055	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-056	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-057	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-058	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-059	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-060	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-061	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-062	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-063	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-064	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-065	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-066	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-067	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-069	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-070	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-071	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-072	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-073	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-074	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-075	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-076	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	**5.87**	--	--	**7.69**	--	--	--
PCB-078	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-079	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-080	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	**4.56**	--	--	**3.34 J**	--	--	--
PCB-082	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-083	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-084	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-085	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-086	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-087	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-088	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-089	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-090	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-091	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-092	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-093	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-094	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-095	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-096	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-097	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-098	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-099	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-100	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-101	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-102	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-103	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-104	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	**74.8**	--	--	**68**	--	--	--
PCB-106	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-107	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-108	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-109	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-111	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-112	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-113	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	**5.49**	--	--	**3.90 J**	--	--	--
PCB-115	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-116	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-117	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	**193 C**	--	--	**167 C**	--	--	--
PCB-119	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-120	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-121	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-122	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	**3.00 J**	--	--	**2.63 J**	--	--	--
PCB-124	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-125	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	**1.25 J**	--	--	**1.07 J**	--	--	--
PCB-127	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-128	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-129	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-130	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-131	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-132	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-133	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-134	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-135	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-136	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-137	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-138	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-139	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-140	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-141	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-142	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-143	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-144	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-145	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-146	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-147	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-148	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-149	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-150	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-151	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-153	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-154	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-155	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	**37.2**	--	--	**19.4**	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	**8.43**	--	--	**4.2**	--	--	--
PCB-158	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-159	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-160	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-161	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-162	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-163	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-164	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-165	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-166	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	**14.6**	--	--	**7.64**	--	--	--
PCB-168	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-169	pg/g	--	--	--	--	0.515 U	--	--	0.372 U	--	--	--
PCB-170	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-171	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-172	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-173	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-174	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-175	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-176	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-177	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-178	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-179	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-180	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-181	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-182	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-183	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-184	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-185	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-186	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-187	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-188	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	**2.83 J**	--	--	**1.82 J**	--	--	--
PCB-190	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-191	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-192	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-193	pg/g	--	--	--	--	--	--	--	--	--	--	--

Sample Location[1]		MAF-42	MAF-43	MAF-44	MAF-45	MAF-46	MAF-47	MAF-48	MAF-49	MAF-50	MAF-51	MAF-52
Sample Identification		MAF-SS-42_0-10	MAF-SS-43_0-10	MAF-SS-44_0-10	MAF-SS-45_0-10	MAF-SS-46_0-10	MAF-SS-47_0-10	MAF-SS-48_0-10	MAF-SS-49_0-10	MAF-SS-50_0-10	MAF-SS-51_0-10	MAF-SS-52_0-10
Sample Date		09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016	09/14/2016
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-195	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-196	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-197	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-198	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-199	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-200	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-201	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-202	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-203	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-204	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-205	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-206	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-207	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-208	pg/g	--	--	--	--	--	--	--	--	--	--	--
PCB-209	pg/g	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	--	--	--	**3.82 J**	**3.62 J**	**96.9 J**	0.407 U	**19.4**	**17.5**	**1.98 J**	**27.9**
PCB-002	pg/g	--	--	--	**1.31 J**	**3.38 J**	**20.6 J**	0.497 U	**2.57 J**	**4.67**	0.463 U	**7.39**
PCB-003	pg/g	--	--	--	**2.67 J**	**4.54**	**80.0 J**	0.493 U	**7.56**	**15.8**	**1.88 J**	**26.2**
PCB-004	pg/g	--	--	--	**6.75**	**2.90 J**	**74.6 J**	1.75 U	**10.2**	**20.5**	**3.12 J**	**48.2**
PCB-005	pg/g	--	--	--	1.06 U	0.441 U	**6.03 J**	1.50 U	0.958 U	0.962 U	0.461 U	0.839 U
PCB-006	pg/g	--	--	--	**6.61**	**2.77 J**	**39.5 J**	1.46 U	**6.48**	**13.2**	**2.13 J**	**55.1**
PCB-007	pg/g	--	--	--	1.02 U	**1.24 J**	**17.3 J**	1.45 U	**1.97 J**	**3.11 J**	0.444 U	**13.1**
PCB-008	pg/g	--	--	--	**15.1**	**11.7**	**220.0 J**	1.53 U	**16.6**	**57.3**	**9.21**	**226**
PCB-009	pg/g	--	--	--	1.04 U	**0.861 J**	**15.6 J**	1.54 U	**2.50 J**	**5.44**	0.474 U	**19**
PCB-010	pg/g	--	--	--	1.25 U	0.509 U	**5.22 J**	1.74 U	1.12 U	**1.75 J**	0.533 U	**4.39**
PCB-011	pg/g	--	--	--	**5.69**	**4.58**	**36.0 J**	1.65 U	**8.85**	**11.1**	**3.39 J**	**16**
PCB-012	pg/g	--	--	--	1.05 U	**1.19 J**	**8.54 J**	1.54 U	0.944 U	**3.66 J**	0.471 U	**7.31**
PCB-013	pg/g	--	--	--	1.13 U	**1.74 J**	**21.5 J**	1.56 U	**2.36 J**	**3.59 J**	0.479 U	**17.3**
PCB-014	pg/g	--	--	--	1.10 U	0.462 U	1.32 U	1.57 U	0.990 U	1.01 U	0.483 U	0.867 U
PCB-015	pg/g	--	--	--	**8.35**	**6.45**	**275 J**	1.42 U	**10.2**	**39.5**	**5.36**	**129**
PCB-016	pg/g	--	--	--	**7.62**	**6.64**	**153 J**	1.32 U	**10.5**	**29.5**	**4.58**	**65.6**
PCB-017	pg/g	--	--	--	**13.6**	**9.06**	**176 J**	1.52 U	**16.5**	**44.7**	**5.73**	**99.5**
PCB-018	pg/g	--	--	--	**29.4**	**23.5**	**401 J**	1.62 U	**33.9**	**103**	**13.9**	**219**
PCB-019	pg/g	--	--	--	**3.27 J**	**1.85 J**	**43.3 J**	1.56 U	**5.62**	**9.36**	**1.61 J**	**17.2**
PCB-020	pg/g	--	--	--	**20.7 C**	**14.5 C**	**349 J, C**	**1.98 J, C**	**32.8 C**	**68.8 C**	**10.3 C**	**227 C**
PCB-021	pg/g	--	--	--	**-- C020**	**-- C020**	**-- J, C020**	**-- J, C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**
PCB-022	pg/g	--	--	--	**11.9**	**9.37**	**262 J**	1.02 U	**21.6**	**39.4**	**6.12**	**128**
PCB-023	pg/g	--	--	--	0.745 U	1.02 U	7.45 U	1.11 U	0.966 U	1.27 U	0.679 U	1.04 U
PCB-024	pg/g	--	--	--	0.834 U	**0.730 J**	**10.1 J**	1.14 U	0.949 U	**4.53**	0.879 U	**11.9**
PCB-025	pg/g	--	--	--	**3.38 J**	**1.93 J**	**54.0 J**	0.891 U	**7.19**	**8.53**	**1.57 J**	**34**

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-026	pg/g	--	--	--	**7.2**	**4.69**	**119 J**	1.12 U	**15.3**	**21.6**	**2.85 J**	**73.8**
PCB-027	pg/g	--	--	--	0.790 U	**1.68 J**	**32.2 J**	1.08 U	**2.96 J**	**4.79**	0.830 U	**11**
PCB-028	pg/g	--	--	--	**33.9**	**26.2**	**716 J**	**2.90 J**	**69.9**	**109**	**16.4**	**363**
PCB-029	pg/g	--	--	--	0.722 U	0.976 U	7.15 U	1.06 U	0.937 U	1.22 U	0.650 U	**4.5**
PCB-030	pg/g	--	--	--	0.794 U	0.478 U	3.16 U	1.11 U	0.903 U	0.874 U	0.858 U	0.785 U
PCB-031	pg/g	--	--	--	**32.4**	**24.5**	**741 J**	**2.20 J**	**61.5**	**121**	**16.5**	**402**
PCB-032	pg/g	--	--	--	**10.5**	**7.6**	**142 J**	1.26 U	**13.6**	**35.7**	**4.6**	**71.7**
PCB-033	pg/g	--	--	--	**-- C020**	**-- C020**	**-- J, C020**	**-- J, C020**	**-- C020**	**-- C020**	**-- C020**	**-- C020**
PCB-034	pg/g	--	--	--	0.728 U	0.994 U	7.35 U	1.08 U	0.944 U	1.24 U	0.662 U	1.01 U
PCB-035	pg/g	--	--	--	0.826 U	1.08 U	7.25 U	1.17 U	1.07 U	**3.56 J**	0.717 U	**6.24**
PCB-036	pg/g	--	--	--	0.774 U	1.06 U	7.22 U	1.15 U	1.00 U	1.32 U	0.706 U	1.08 U
PCB-037	pg/g	--	--	--	**10.5**	**9.05**	**231 J**	1.01 U	**14.5**	**32.9**	**4.5**	**84.8**
PCB-038	pg/g	--	--	--	0.732 U	0.981 U	6.72 U	1.07 U	0.950 U	1.22 U	0.654 U	1.02 U
PCB-039	pg/g	--	--	--	0.747 U	1.02 U	7.23 U	1.11 U	0.969 U	1.27 U	0.677 U	1.04 U
PCB-040	pg/g	--	--	--	**10.1**	**5.79**	**165 J**	0.601 U	**7.49**	**32**	**4.6**	**37.2**
PCB-041	pg/g	--	--	--	**47.6 C**	**27.8 C**	**754 J, C**	**2.52 J, C**	**32.0 C**	**145 C**	**18.7 C**	**173 C**
PCB-042	pg/g	--	--	--	**14.6 C**	**9.72 C**	**253 J, C**	0.373 U, C	**12.1 C**	**51.5 C**	**6.49 C**	**65.4 C**
PCB-043	pg/g	--	--	--	**62.0 C**	**29.6 C**	**840.0 J, C**	**2.88 J, C**	**45.8 C**	**155 C**	**20.7 C**	**223 C**
PCB-044	pg/g	--	--	--	**90.9**	**34.3**	**1120 J**	**3.94 J**	**39.4**	**177**	**22.1**	**229**
PCB-045	pg/g	--	--	--	**8.52**	**5.07**	**125 J**	0.517 U	**10.4**	**22.7**	**2.82 J**	**38.4**
PCB-046	pg/g	--	--	--	**4.24**	**1.79 J**	**56.5 J**	0.548 U	**4.42**	**11.5**	**1.92 J**	**16.5**
PCB-047	pg/g	--	--	--	**15.3**	**9.26**	**270.0 J**	0.344 U	**15.3**	**44.9**	**6.08**	**62.4**
PCB-048	pg/g	--	--	--	**10.5 C**	**6.10 C**	**110.0 J, C**	0.379 U, C	**8.86 C**	**33.0 C**	**4.29 C**	**50.4 C**
PCB-049	pg/g	--	--	--	**-- C043**	**-- C043**	**-- J, C043**	**-- J, C043**	**-- C043**	**-- C043**	**-- C043**	**-- C043**
PCB-050	pg/g	--	--	--	1.30 U	0.527 U	3.29 U	0.448 U	2.01 U	1.13 U	0.600 U	2.12 U
PCB-051	pg/g	--	--	--	**2.88 J**	**1.68 J**	**38.5 J**	0.428 U	**3.45 J**	**7.56**	0.573 U	**11.5**
PCB-052	pg/g	--	--	--	**150 C**	**47.4 C**	**1740 J, C**	**6.39 C**	**62.4 C**	**247 C**	**29.8 C**	**326 C**
PCB-053	pg/g	--	--	--	**9.17**	**4.27**	**134 J**	0.438 U	**11.2**	**24.6**	**2.91 J**	**41.2**
PCB-054	pg/g	--	--	--	0.892 U	0.373 U	2.51 U	0.318 U	1.39 U	0.802 U	0.425 U	1.46 U
PCB-055	pg/g	--	--	--	**2.13 J**	0.386 U	**38.4 J**	0.329 U	**2.24 J**	**5.06**	0.440 U	**8.04**
PCB-056	pg/g	--	--	--	**29.2 C**	**21.1 C**	**711 J, C**	**1.35 J, C**	**30.3 C**	**97.0 C**	**12.7 C**	**155 C**
PCB-057	pg/g	--	--	--	1.01 U	0.423 U	**6.81 J**	0.360 U	1.58 U	**1.47 J**	0.481 U	**2.15 J**
PCB-058	pg/g	--	--	--	1.01 U	0.386 U	2.72 U	0.329 U	1.57 U	0.830 U	0.440 U	0.919 U
PCB-059	pg/g	--	--	--	**-- C042**	**-- C042**	**-- J, C042**	-- U, C042	**-- C042**	**-- C042**	**-- C042**	**-- C042**
PCB-060	pg/g	--	--	--	**-- C056**	**-- C056**	**-- J, C056**	**-- J, C056**	**-- C056**	**-- C056**	**-- C056**	**-- C056**
PCB-061	pg/g	--	--	--	**119 C**	**47.6 C**	**1950 J, C**	**5.09 C**	**70.1 C**	**232 C**	**33.2 C**	**365 C**
PCB-062	pg/g	--	--	--	1.11 U	0.405 U	2.74 U	0.345 U	1.72 U	0.871 U	0.461 U	1.01 U
PCB-063	pg/g	--	--	--	**3.81 J**	**1.97 J**	**59.4 J**	0.365 U	**3.63 J**	**8.62**	**1.26 J**	**14.1**
PCB-064	pg/g	--	--	--	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**
PCB-065	pg/g	--	--	--	0.997 U	0.441 U	2.80 U	0.375 U	1.55 U	0.948 U	0.502 U	0.904 U
PCB-066	pg/g	--	--	--	**64.0 C**	**36.6 C**	**1220 J, C**	**2.69 J, C**	**60.8 C**	**178 C**	**26.6 C**	**287 C**
PCB-067	pg/g	--	--	--	0.959 U	**1.59 J**	**41.7 J**	0.358 U	**3.31 J**	**5.77**	**1.06 J**	**11**

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-068	pg/g	--	--	--	0.938 U	0.379 U	**9.20 J**	0.322 U	1.46 U	**1.51 J**	0.431 U	0.850 U
PCB-069	pg/g	--	--	--	**-- C052**	**-- C052**	**-- J, C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**	**-- C052**
PCB-070	pg/g	--	--	--	**-- C061**	**-- C061**	**-- J, C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**	**-- C061**
PCB-071	pg/g	--	--	--	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**
PCB-072	pg/g	--	--	--	**-- C041**	**-- C041**	**-- J, C041**	**-- J, C041**	**-- C041**	**-- C041**	**-- C041**	**-- C041**
PCB-073	pg/g	--	--	--	1.06 U	0.383 U	2.61 U	0.326 U	1.65 U	0.822 U	0.435 U	0.964 U
PCB-074	pg/g	--	--	--	**35.1**	**19.9**	**716 J**	**1.86 J**	**31.5**	**95.9**	**13.7**	**153**
PCB-075	pg/g	--	--	--	**-- C048**	**-- C048**	**-- J, C048**	-- U, C048	**-- C048**	**-- C048**	**-- C048**	**-- C048**
PCB-076	pg/g	--	--	--	**-- C066**	**-- C066**	**-- J, C066**	**-- J, C066**	**-- C066**	**-- C066**	**-- C066**	**-- C066**
PCB-077 (Dioxin-Like)	pg/g	--	--	--	**3.85 J**	**3.64 J**	**118 J**	0.452 U	**7.7**	**17.8**	**2.65 J**	**28.3**
PCB-078	pg/g	--	--	--	**1.12 U**	0.518 U	**9.76 J**	0.456 U	0.538 U	0.830 U	0.495 U	0.980 U
PCB-079	pg/g	--	--	--	**3.48 J**	0.508 U	**23.4 J**	0.447 U	**2.13 J**	**4.63**	0.486 U	**5.84**
PCB-080	pg/g	--	--	--	0.853 U	0.354 U	2.23 U	0.301 U	1.32 U	0.760 U	0.402 U	0.773 U
PCB-081 (Dioxin-Like)	pg/g	--	--	--	**6.8**	**1.64 J**	**40.8 J**	0.418 U	**2.52 J**	**7.41**	**0.938 J**	**9.09**
PCB-082	pg/g	--	--	--	**45.7**	**8.4**	**417 J**	1.26 U	**20.9**	**49.3**	**6.4**	**74.1**
PCB-083	pg/g	--	--	--	**17.2 C**	**2.98 J, C**	**146 J, C**	0.908 U, C	**9.83 C**	**16.5 C**	**2.13 J, C**	**26.1 C**
PCB-084	pg/g	--	--	--	**160 C**	**25.3 C**	**1,370 J, C**	**5.03 C**	**73.4 C**	**155 C**	**18.4 C**	**226 C**
PCB-085	pg/g	--	--	--	**54.9 C**	**10.6 C**	**506 J, C**	0.859 U, C	**24.3 C**	**58.2 C**	**7.51 C**	**90.9 C**
PCB-086	pg/g	--	--	--	1.30 U	0.968 U	**12.1 J**	0.923 U	1.43 U	1.21 U	0.691 U	1.11 U
PCB-087	pg/g	--	--	--	**159 C**	**25.6 C**	**1,410 J, C**	**4.70 C**	**55.5 C**	**141 C**	**16.5 C**	**225 C**
PCB-088	pg/g	--	--	--	**46.4 C**	**7.30 C**	**425 J, C**	0.673 U, C	**33.0 C**	**51.7 C**	**5.87 C**	**82.5 C**
PCB-089	pg/g	--	--	--	**4.23**	1.11 U	**27.0 J**	1.06 U	**1.89 J**	**6.23**	0.793 U	**7.61**
PCB-090	pg/g	--	--	--	**475 C**	**73.9 C**	**3,780 J, C**	**12.7 C**	**153 C**	**390 C**	**48.4 C**	**633 C**
PCB-091	pg/g	--	--	--	**-- C088**	**-- C088**	**-- J, C088**	-- U, C088	**-- C088**	**-- C088**	**-- C088**	**-- C088**
PCB-092	pg/g	--	--	--	**-- C084**	**-- C084**	**-- J, C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**	**-- C084**
PCB-093	pg/g	--	--	--	1.04 U	0.518 U	4.96 U	0.664 U	1.00 U	0.730 U	0.407 U	0.841 U
PCB-094	pg/g	--	--	--	1.04 U	0.575 U	**16.7 J**	0.737 U	1.00 U	0.810 U	0.451 U	**4.13**
PCB-095	pg/g	--	--	--	**340**	**50.5**	**2,960 J**	**10.2**	**188**	**295**	**32.8**	**507**
PCB-096	pg/g	--	--	--	**2.04 J**	0.401 U	**18.0 J**	0.514 U	0.715 U	**2.37 J**	0.315 U	**3.63 J**
PCB-097	pg/g	--	--	--	**96.5**	**17.2**	**953 J**	**3.15 J**	**40.2**	**94.5**	**11.4**	**145**
PCB-098	pg/g	--	--	--	0.859 U, C	0.502 U, C	3.67 U, C	0.643 U, C	0.826 U, C	0.707 U, C	0.394 U, C	0.694 U, C
PCB-099	pg/g	--	--	--	**158**	**26.6**	**1,400 J**	**4.44**	**73.1**	**150**	**20.5**	**254**
PCB-100	pg/g	--	--	--	0.866 U	0.483 U	4.05 U	0.619 U	**2.05 J**	0.680 U	0.379 U	**2.14 J**
PCB-101	pg/g	--	--	--	**-- C090**	**-- C090**	**-- J, C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**	**-- C090**
PCB-102	pg/g	--	--	--	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098	-- U, C098
PCB-103	pg/g	--	--	--	**2.64 J**	0.487 U	**17.0 J**	0.624 U	**2.59 J**	**4.13**	0.382 U	**5.04**
PCB-104	pg/g	--	--	--	0.664 U	0.372 U	3.04 U	0.477 U	0.638 U	0.523 U	0.292 U	0.536 U
PCB-105 (Dioxin-Like)	pg/g	--	--	--	**118**	**23.1**	**1,120 J**	**3.89 J**	**41.3**	**128**	**16.3**	**201**
PCB-106	pg/g	--	--	--	**306 C**	**54.6 C**	**2,670 J, C**	**8.94 C**	**111 C**	**307 C**	**41.2 C**	**475 C**
PCB-107	pg/g	--	--	--	**20.5 C**	**4.19 C**	**1,91 J, C**	0.854 U, C	**8.74 C**	**22.3 C**	**3.54 J, C**	**34.8 C**
PCB-108	pg/g	--	--	--	**-- C107**	**-- C107**	**-- J, C107**	-- U, C107	**-- C107**	**-- C107**	**-- J, C107**	**-- C107**
PCB-109	pg/g	--	--	--	1.09 U	0.765 U	2.05 U	0.730 U	1.19 U	0.957 U	0.546 U	0.927 U

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-110	pg/g	--	--	--	**398**	**62.3**	**3380 J**	**10.4**	**177**	**352**	**44.6**	**577**
PCB-111	pg/g	--	--	--	**7.29 C**	**1.54 J, C**	**82.1 J, C**	0.617 U, C	**2.94 J, C**	**6.95 C**	**0.884 J, C**	**12.2 C**
PCB-112	pg/g	--	--	--	**– C083**	**– J, C083**	**– J, C083**	-- U, C083	**– C083**	**– C083**	**– J, C083**	**– C083**
PCB-113	pg/g	--	--	--	1.09 U	0.844 U	1.96 U	0.805 U	1.20 U	1.06 U	0.603 U	0.931 U
PCB-114 (Dioxin-Like)	pg/g	--	--	--	**8.83**	**2.12 J**	**71.0 J**	0.864 U	**2.77 J**	**9.6**	**1.37 J**	**12.2**
PCB-115	pg/g	--	--	--	**– C111**	**– J, C111**	**– J, C111**	-- U, C111	**– J, C111**	**– C111**	**– J, C111**	**– C111**
PCB-116	pg/g	--	--	--	**– C085**	**– C085**	**– J, C085**	-- U, C085	**– C085**	**– C085**	**– C085**	**– C085**
PCB-117	pg/g	--	--	--	**– C087**	**– C087**	**– J, C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**
PCB-118 (Dioxin-Like)	pg/g	--	--	--	**– C106**	**– C106**	**– J, C106**	**– C106**	**– C106**	**– C106**	**– C106**	**– C106**
PCB-119	pg/g	--	--	--	**5.97**	**1.79 J**	**53.4 J**	0.714 U	**5.15**	**7.44**	**1.22 J**	**10.2**
PCB-120	pg/g	--	--	--	**2.28 J**	0.732 U	**8.09 J**	0.698 U	1.09 U	**1.58 J**	0.523 U	**2.23 J**
PCB-121	pg/g	--	--	--	0.727 U	0.415 U	3.41 U	0.532 U	0.699 U	0.584 U	0.326 U	0.587 U
PCB-122	pg/g	--	--	--	**4.58**	0.548 U	**36.2 J**	0.845 U	**2.22 J**	**3.29 J**	**0.790 J**	**7.38**
PCB-123 (Dioxin-Like)	pg/g	--	--	--	**4.98**	**1.07 J**	**40.4 J**	0.746 U	**2.73 J**	**4.64**	**0.980 J**	**7.9**
PCB-124	pg/g	--	--	--	**19.4**	**2.34 J**	**120.0 J**	0.924 U	**5.78**	**14.6**	**2.01 J**	**24.6**
PCB-125	pg/g	--	--	--	**– C087**	**– C087**	**– J, C087**	**– C087**	**– C087**	**– C087**	**– C087**	**– C087**
PCB-126 (Dioxin-Like)	pg/g	--	--	--	**1.82 J**	0.571 U	**16.6 J**	0.870 U	**1.32 J**	**2.40 J**	0.435 U	**3.39 J**
PCB-127	pg/g	--	--	--	1.04 U	0.590 U	4.00 U	0.910 U	0.871 U	0.946 U	0.453 U	0.985 U
PCB-128	pg/g	--	--	--	**78.7 C**	**12.0 C**	**608 J, C**	**1.82 J, C**	**26.5 C**	**70.2 C**	**7.02 C**	**115 C**
PCB-129	pg/g	--	--	--	**26.5**	**2.56 J**	**177 J**	**1.24 J**	**7.88**	**20.8**	**2.89 J**	**36.4**
PCB-130	pg/g	--	--	--	**29.9**	**6.2**	**251 J**	**1.34 J**	**10.5**	**32.1**	**4.31**	**43.6**
PCB-131	pg/g	--	--	--	**13.5 C**	**2.55 J, C**	**106 J, C**	0.559 U, C	**5.43 C**	**13.7 C**	**1.76 J, C**	**19.8 C**
PCB-132	pg/g	--	--	--	**147 C**	**27.8 C**	**962 J, C**	**5.09 C**	**47.2 C**	**144 C**	**14.1 C**	**200 C**
PCB-133	pg/g	--	--	--	**– C131**	**– J, C131**	**– J, C131**	**– U, C131**	**– C131**	**– C131**	**– J, C131**	**– C131**
PCB-134	pg/g	--	--	--	**29.1 C**	**4.85 C**	**194 J, C**	**1.06 J, C**	**8.85 C**	**26.7 C**	**3.57 J, C**	**35.6 C**
PCB-135	pg/g	--	--	--	**84**	**10.6**	**510.0 J**	**2.46 J**	**24.1**	**74**	**7.68**	**102**
PCB-136	pg/g	--	--	--	**105**	**11.1**	**512 J**	**2.69 J**	**22.9**	**70.6**	**6.43**	**104**
PCB-137	pg/g	--	--	--	**29.2**	**3.74 J**	**206 J**	**0.712 J**	**9.42**	**21.5**	**2.19 J**	**40.5**
PCB-138	pg/g	--	--	--	**528 C**	**78.6 C**	**3,680 J, C**	**14.2 C**	**149 C**	**462 C**	**46.8 C**	**674 C**
PCB-139	pg/g	--	--	--	**466 C**	**74.0 C**	**3,020 J, C**	**13.0 C**	**133 C**	**431 C**	**43.7 C**	**547 C**
PCB-140	pg/g	--	--	--	1.05 U	0.743 U	**15.1 J**	0.532 U	0.529 U	**4.13**	0.557 U	**4.5**
PCB-141	pg/g	--	--	--	**137**	**19.4**	**832 J**	**3.43 J**	**27.6**	**111**	**10.4**	**152**
PCB-142	pg/g	--	--	--	1.34 U	0.877 U	4.46 U	0.628 U	0.676 U	1.27 U	0.657 U	1.09 U
PCB-143	pg/g	--	--	--	**– C134**	**– C134**	**– J, C134**	**– J, C134**	**– C134**	**– C134**	**– J, C134**	**– C134**
PCB-144	pg/g	--	--	--	**33.1**	**5.23**	**194 J**	0.558 U	**6.84**	**32.6**	**3.59 J**	**35.2**
PCB-145	pg/g	--	--	--	0.259 U	0.423 U	4.10 U	0.333 U	0.361 U	0.449 U	0.390 U	0.366 U
PCB-146	pg/g	--	--	--	**69.6 C**	**12.2 C**	**519 J, C**	**2.56 J, C**	**22.5 C**	**75.9 C**	**8.20 C**	**96.8 C**
PCB-147	pg/g	--	--	--	**8.57**	**1.76 J**	**57.9 J**	0.508 U	**5.32**	**11.3**	**1.42 J**	**14.6**
PCB-148	pg/g	--	--	--	0.328 U	0.619 U	4.81 U	0.487 U	0.458 U	0.657 U	0.570 U	0.464 U
PCB-149	pg/g	--	--	--	**– C139**	**– C139**	**– J, C139**	**– C139**	**– C139**	**– C139**	**– C139**	**– C139**
PCB-150	pg/g	--	--	--	0.253 U	0.422 U	4.04 U	0.332 U	0.354 U	**1.61 J**	0.389 U	0.358 U
PCB-151	pg/g	--	--	--	**154**	**20.5**	**894 J**	**2.25 J**	**37.7**	**90.2**	**10.3**	**168**

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-152	pg/g	--	--	--	0.266 U	0.446 U	3.93 U	0.352 U	0.372 U	0.474 U	0.411 U	0.377 U
PCB-153	pg/g	--	--	--	**544**	**84.6**	**3600 J**	**14.6**	**147**	**517**	**52.8**	**669**
PCB-154	pg/g	--	--	--	**3.30 J**	0.501 U	**28.6 J**	0.395 U	**2.57 J**	**5.35**	0.462 U	**7.09**
PCB-155	pg/g	--	--	--	0.233 U	0.383 U	3.69 U	0.302 U	0.326 U	0.407 U	0.353 U	0.330 U
PCB-156 (Dioxin-Like)	pg/g	--	--	--	**61.8**	**7.49**	**367 J**	**1.17 J**	**13.2**	**49.2**	**5.27**	**77.2**
PCB-157 (Dioxin-Like)	pg/g	--	--	--	**11.9**	**1.65 J**	**77.4 J**	0.398 U	**3.59 J**	**10.3**	**1.28 J**	**17.5**
PCB-158	pg/g	--	--	--	**70.2 C**	**10.7 C**	**495 J, C**	**1.77 J, C**	**18.8 C**	**65.1 C**	**6.62 C**	**91.9 C**
PCB-159	pg/g	--	--	--	**6.29**	**1.36 J**	**37.1 J**	0.405 U	**2.19 J**	**7.41**	0.424 U	**7.79**
PCB-160	pg/g	--	--	--	**– C158**	**– C158**	**– J, C158**	**– J, C158**	**– C158**	**– C158**	**– C158**	**– C158**
PCB-161	pg/g	--	--	--	**– C132**	**– C132**	**– J, C132**	**– C132**	**– C132**	**– C132**	**– C132**	**– C132**
PCB-162	pg/g	--	--	--	**– C128**	**– C128**	**– J, C128**	**– J, C128**	**– C128**	**– C128**	**– C128**	**– C128**
PCB-163	pg/g	--	--	--	**– C138**	**– C138**	**– J, C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**
PCB-164	pg/g	--	--	--	**– C138**	**– C138**	**– J, C138**	**– C138**	**– C138**	**– C138**	**– C138**	**– C138**
PCB-165	pg/g	--	--	--	**– C146**	**– C146**	**– J, C146**	**– J, C146**	**– C146**	**– C146**	**– C146**	**– C146**
PCB-166	pg/g	--	--	--	**2.39 J**	0.598 U	**16.2 J**	0.428 U	0.445 U	**2.02 J**	0.449 U	**2.97 J**
PCB-167 (Dioxin-Like)	pg/g	--	--	--	**23.2**	**3.74 J**	**154 J**	**1.07 J**	**6.95**	**20.5**	**2.08 J**	**29.9**
PCB-168	pg/g	--	--	--	0.845 U	0.585 U	3.20 U	0.419 U	0.427 U	0.846 U	0.439 U	0.686 U
PCB-169	pg/g	--	--	--	0.708 U	0.506 U	3.12 U	0.360 U	0.383 U	0.728 U	0.333 U	0.696 U
PCB-170	pg/g	--	--	--	**220**	**22.5**	**1150 J**	**4.04**	**35.4**	**160**	**12.1**	**217**
PCB-171	pg/g	--	--	--	**61.6**	**7.09**	**374 J**	**1.78 J**	**11.1**	**53.3**	**4.58**	**66.4**
PCB-172	pg/g	--	--	--	**36.1**	**4.68**	**225 J**	0.447 U	**7.29**	**31.1**	**2.13 J**	**40.9**
PCB-173	pg/g	--	--	--	**5.51**	0.585 U	**33.4 J**	0.468 U	0.523 U	**3.27 J**	0.391 U	**4.7**
PCB-174	pg/g	--	--	--	**198**	**25.6**	**1,280 J**	**5.32**	**39.7**	**168**	**13.7**	**207**
PCB-175	pg/g	--	--	--	**9.13**	**1.65 J**	**59.3 J**	0.447 U	**2.27 J**	**9.75**	**1.04 J**	**11.5**
PCB-176	pg/g	--	--	--	**28.7**	**4.72**	**184 J**	0.346 U	**6.07**	**29.6**	**3.01 J**	**33**
PCB-177	pg/g	--	--	--	**124**	**13.7**	**763 J**	**3.20 J**	**24.9**	**102**	**7.61**	**132**
PCB-178	pg/g	--	--	--	**43.3**	**6.01**	**259 J**	0.453 U	**12.4**	**42.6**	**2.95 J**	**44.7**
PCB-179	pg/g	--	--	--	**89**	**12.2**	**524 J**	**1.94 J**	**20.7**	**77**	**6.71**	**91.5**
PCB-180	pg/g	--	--	--	**382**	**48.9**	**2,310 J**	**9.53**	**81.4**	**371**	**26.3**	**414**
PCB-181	pg/g	--	--	--	0.514 U	0.513 U	4.50 U	0.410 U	0.448 U	0.673 U	0.343 U	0.648 U
PCB-182	pg/g	--	--	--	**223 C**	**35.0 C**	**1,510 J, C**	**6.14 C**	**67.4 C**	**255 C**	**20.5 C**	**276 C**
PCB-183	pg/g	--	--	--	**120**	**19.8**	**786 J**	**4.3**	**29.8**	**137**	**11.1**	**143**
PCB-184	pg/g	--	--	--	0.353 U	0.372 U	3.15 U	0.297 U	0.307 U	0.488 U	0.249 U	0.445 U
PCB-185	pg/g	--	--	--	**24.7**	**3.77 J**	**150.0 J**	0.419 U	**5.47**	**25.5**	**2.07 J**	**28**
PCB-186	pg/g	--	--	--	0.379 U	0.401 U	3.41 U	0.321 U	0.330 U	0.527 U	0.268 U	0.477 U
PCB-187	pg/g	--	--	--	**– C182**	**– C182**	**– J, C182**	**– C182**	**– C182**	**– C182**	**– C182**	**– C182**
PCB-188	pg/g	--	--	--	0.414 U	0.424 U	3.51 U	0.336 U	0.368 U	**2.12 J**	0.290 U	0.557 U
PCB-189 (Dioxin-Like)	pg/g	--	--	--	**7.75**	**1.24 J**	**45.6 J**	0.292 U	**1.30 J**	**7.03**	0.235 U	**7.73**
PCB-190	pg/g	--	--	--	**45.7**	**5.49**	**245 J**	**1.05 J**	**8.56**	**41.5**	**2.51 J**	**47.7**
PCB-191	pg/g	--	--	--	**10.3**	0.395 U	**53.0 J**	0.316 U	**1.92 J**	**8.18**	**0.855 J**	**11.6**
PCB-192	pg/g	--	--	--	0.415 U	0.411 U	3.74 U	0.329 U	0.362 U	0.540 U	0.275 U	0.523 U
PCB-193	pg/g	--	--	--	**25.1**	**3.09 J**	**112 J**	0.318 U	**4.81**	**20.2**	**1.70 J**	**26**

Sample Location[1]		MAF-53	MAF-54	MAF-55	MAF-56				MAF-57			MAF-58
Sample Identification		MAF-SS-53_0-10	MAF-SS-54_0-10	MAF-SS-55-0-10	MAF-SS-56_0-10	MAF-SC-56_0-2	MAF-SC-DUP-07	MAF-SC-56_2-4	MAF-SS-57_0-10	MAF-SC-57_0-2	MAF-SC-57_2-4	MAF-SS-58_0-10
Sample Date		09/14/2016	09/14/2016	11/13/18	11/13/18	11/12/18	11/12/18	11/12/18	11/14/18	11/13/18	11/13/18	11/14/18
Sample Interval (dbm)		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-2 ft	0-2 ft	2-4 ft	0-10 cm	0-2 ft	2-4 ft	0-10 cm
Sample Type		Surface	Surface	Surface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal
PCB-194	pg/g	--	--	--	**70**	**15**	**488 J**	**2.56 J**	**24.5**	**128**	**7.6**	**113**
PCB-195	pg/g	--	--	--	**38.4**	**5.6**	**203 J**	**1.09 J**	**9.33**	**49.3**	**2.99 J**	**53.4**
PCB-196	pg/g	--	--	--	**116 C**	**22.4 C**	**616 J, C**	**3.64 J, C**	**41.7 C**	**184 C**	**11.2 C**	**168 C**
PCB-197	pg/g	--	--	--	**4.4**	**1.38 J**	**34.5 J**	0.331 U	**1.47 J**	**6.42**	**0.735 J**	**6.74**
PCB-198	pg/g	--	--	--	**6.27**	**1.13 J**	**35.6 J**	0.532 U	**1.75 J**	**13.5**	**1.11 J**	**8.15**
PCB-199	pg/g	--	--	--	**103**	**19.1**	**590.0 J**	**3.37 J**	**39.2**	**149**	**10.5**	**159**
PCB-200	pg/g	--	--	--	**14.3**	**3.06 J**	**70.9 J**	0.352 U	**5**	**21.7**	**1.18 J**	**22.3**
PCB-201	pg/g	--	--	--	**14.7**	**2.43 J**	**91.6 J**	0.357 U	**5.38**	**22.7**	**1.29 J**	**23.4**
PCB-202	pg/g	--	--	--	**16.8**	**4.42**	**127 J**	0.350 U	**8.9**	**33.5**	**2.55 J**	**30**
PCB-203	pg/g	--	--	--	**– C196**	**– C196**	**– J, C196**	**– J, C196**	**– C196**	**– C196**	**– C196**	**– C196**
PCB-204	pg/g	--	--	--	0.425 U	0.388 U	3.71 U	0.362 U	0.411 U	0.551 U	0.475 U	0.437 U
PCB-205	pg/g	--	--	--	**4.63**	**1.15 J**	**29.5 J**	0.258 U	**1.47 J**	**8.12**	0.324 U	**6.37**
PCB-206	pg/g	--	--	--	**20.8**	**13.3**	**208 J**	0.833 U	**20.7**	**56.3**	**3.94 J**	**52.4**
PCB-207	pg/g	--	--	--	**3.91 J**	**2.07 J**	**29.0 J**	0.710 U	**2.77 J**	**10.4**	**0.704 J**	**8.41**
PCB-208	pg/g	--	--	--	**4.88**	**4.49**	**60.5 J**	0.640 U	**6.65**	**12.6**	**1.35 J**	**12.8**
PCB-209	pg/g	--	--	--	**3.47 J**	**9.06**	**109 J**	0.673 U	**13.1**	**14.9**	**3.37 J**	**19.2**
Total PCBs Congeners	pg/g	--	--	--	**8,120 J**	**1,630 J**	**66,400 J**	**245 J**	**3,180 J**	**9,340 J**	**1,030 J**	**14,200 J**

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
Polychlorinated Biphenyl (PCB) Aroclors												
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners												
PCB-001	pg/g	**1.23 J**	**18.4**	**22.5**	**6.81**	--	**14.6**	**16.1**	0.437 U	--	--	--
PCB-002	pg/g	**3.07 J**	**4.45**	**15**	**13.2**	--	**2.58 J**	**5.79**	0.519 U	--	--	--
PCB-003	pg/g	**2.48 J**	**11.9**	**31.8**	**13.6**	--	**7.81**	**18.8**	0.503 U	--	--	--
PCB-004	pg/g	1.81 U	**30.8**	**21.3**	**3.66 J**	--	**33.7**	**12.8**	0.986 U	--	--	--
PCB-005	pg/g	1.57 U	0.751 U	1.36 U	0.883 U	--	0.840 U	1.32 U	0.856 U	--	--	--
PCB-006	pg/g	1.53 U	**28.2**	**14.6**	**3.83 J**	--	**28**	**13.2**	0.835 U	--	--	--
PCB-007	pg/g	1.51 U	**5.29**	**6.15**	**1.48 J**	--	**4.7**	**4.47**	0.824 U	--	--	--
PCB-008	pg/g	**2.64 J**	**70.7**	**96.2**	**17.4**	--	**61.6**	**51**	0.874 U	--	--	--
PCB-009	pg/g	1.61 U	**7.44**	**4.92**	**1.30 J**	--	**6.78**	**4.76**	0.881 U	--	--	--
PCB-010	pg/g	1.81 U	**4.38**	**2.11 J**	1.02 U	--	**3.39 J**	**3.23 J**	0.990 U	--	--	--
PCB-011	pg/g	**4.34**	**13.5**	**13.5**	**8.25**	--	**9.22**	**13.7**	**2.70 J**	--	--	--
PCB-012	pg/g	1.60 U	**3.95 J**	**5.18**	**4.85**	--	**2.43 J**	**3.00 J**	0.875 U	--	--	--
PCB-013	pg/g	1.63 U	**5.28**	**4.6**	**3.16 J**	--	**5.78**	**5.68**	0.890 U	--	--	--
PCB-014	pg/g	1.64 U	0.777 U	1.43 U	**1.70 J**	--	0.868 U	1.38 U	0.898 U	--	--	--
PCB-015	pg/g	**2.34 J**	**32.6**	**65.3**	**15.6**	--	**27.7**	**38.1**	0.821 U	--	--	--
PCB-016	pg/g	**1.63 J**	**44.5**	**38.9**	**12.9**	--	**29.5**	**29.8**	1.10 U	--	--	--
PCB-017	pg/g	**2.60 J**	**67.4**	**58.9**	**17**	--	**53.7**	**45.3**	1.26 U	--	--	--
PCB-018	pg/g	**5.22**	**152**	**135**	**44.7**	--	**120**	**85.4**	**3.21 J**	--	--	--
PCB-019	pg/g	0.775 U	**15.6**	**10.8**	**3.80 J**	--	**11.7**	**10.4**	1.29 U	--	--	--
PCB-020	pg/g	**4.24 C**	**122 C**	**110 C**	**37.0 C**	--	**93.9 C**	**102 C**	**1.85 J, C**	--	--	--
PCB-021	pg/g	**-- C020**	**-- C020**	**-- C020**	**-- C020**	--	**-- C020**	**-- C020**	**-- J, C020**	--	--	--
PCB-022	pg/g	**2.79 J**	**62.2**	**68**	**21.9**	--	**46.9**	**56.9**	0.851 U	--	--	--
PCB-023	pg/g	1.11 U	1.23 U	1.24 U	0.963 U	--	0.946 U	1.20 U	0.926 U	--	--	--
PCB-024	pg/g	0.567 U	**5.69**	**6.63**	**1.41 J**	--	**6.23**	**5.41**	0.945 U	--	--	--
PCB-025	pg/g	0.894 U	**27.7**	**12.4**	**4.08**	--	**21.8**	**18.7**	0.743 U	--	--	--

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-026	pg/g	1.12 U	**53.8**	**33.1**	**19.1**	–	**48.5**	**47.8**	0.930 U	–	–	–
PCB-027	pg/g	0.535 U	**10.1**	**4.26**	**1.74 J**	–	**6.15**	**4.47**	0.892 U	–	–	–
PCB-028	pg/g	**6.97**	**215**	**197**	**53.6**	–	**167**	**180**	**3.20 J**	–	–	–
PCB-029	pg/g	1.07 U	1.19 U	**2.51 J**	0.921 U	–	0.916 U	1.15 U	0.886 U	–	–	–
PCB-030	pg/g	0.553 U	0.951 U	0.824 U	0.719 U	–	0.971 U	1.00 U	0.922 U	–	–	–
PCB-031	pg/g	**6.6**	**217**	**196**	**69.8**	–	**174**	**161**	**2.78 J**	–	–	–
PCB-032	pg/g	**1.90 J**	**43.8**	**51.4**	**16.2**	–	**33.2**	**33.2**	1.05 U	–	–	–
PCB-033	pg/g	**– C020**	**– C020**	**– C020**	**– C020**	–	**– C020**	**– C020**	**– J, C020**	–	–	–
PCB-034	pg/g	1.09 U	1.20 U	1.21 U	0.938 U	–	0.924 U	1.17 U	0.903 U	–	–	–
PCB-035	pg/g	1.18 U	1.36 U	1.31 U	**3.26 J**	–	1.05 U	1.27 U	0.977 U	–	–	–
PCB-036	pg/g	1.16 U	1.27 U	1.29 U	1.00 U	–	0.982 U	1.25 U	0.963 U	–	–	–
PCB-037	pg/g	**2.71 J**	**37.1**	**43.8**	**17.9**	–	**28.2**	**48.8**	0.842 U	–	–	–
PCB-038	pg/g	1.07 U	1.21 U	1.19 U	0.926 U	–	0.929 U	1.16 U	0.891 U	–	–	–
PCB-039	pg/g	1.11 U	1.23 U	1.24 U	0.960 U	–	0.948 U	1.20 U	0.924 U	–	–	–
PCB-040	pg/g	**2.21 J**	**22**	**42.6**	**18.2**	–	**13.9**	**11.2**	0.690 U	–	–	–
PCB-041	pg/g	**8.24 C**	**93.8 C**	**211 C**	**104 C**	–	**61.2 C**	**120 C**	**2.74 J, C**	–	–	–
PCB-042	pg/g	**3.23 J, C**	**38.3 C**	**65.0 C**	**40.7 C**	–	**24.0 C**	**45.1 C**	**1.28 J, C**	–	–	–
PCB-043	pg/g	**8.29 C**	**131 C**	**283 C**	**177 C**	–	**88.6 C**	**217 C**	**3.19 J, C**	–	–	–
PCB-044	pg/g	**10.6**	**121**	**355**	**129**	–	**71.2**	**161**	**3.09**	–	–	–
PCB-045	pg/g	**1.28 J**	**28.4**	**30**	**14.5**	–	**17.9**	**22.7**	0.594 U	–	–	–
PCB-046	pg/g	0.565 U	**10.2**	**12.4**	**6.07**	–	**7.45**	**11.5**	0.629 U	–	–	–
PCB-047	pg/g	**3.39 J**	**38**	**68.8**	**33**	–	**28.5**	**63.9**	**1.83 J**	–	–	–
PCB-048	pg/g	**1.63 J, C**	**28.0 C**	**36.1 C**	**20.6 C**	–	**17.0 C**	**25.5 C**	0.435 U, C	–	–	–
PCB-049	pg/g	**– C043**	**– C043**	**– C043**	**– C043**	–	**– C043**	**– C043**	**– J, C043**	–	–	–
PCB-050	pg/g	0.462 U	1.11 U	1.12 U	0.883 U	–	1.13 U	1.13 U	0.515 U	–	–	–
PCB-051	pg/g	**0.944 J**	**9.3**	**8.8**	**4.8**	–	**6.33**	**8.45**	0.492 U	–	–	–
PCB-052	pg/g	**14.1 C**	**176 C**	**653 C**	**444 C**	–	**111 C**	**298 C**	**4.72 C**	–	–	–
PCB-053	pg/g	**1.38 J**	**29.3**	**35**	**14.5**	–	**19.5**	**24.9**	0.503 U	–	–	–
PCB-054	pg/g	0.327 U	0.763 U	0.790 U	0.626 U	–	0.779 U	0.799 U	0.365 U	–	–	–
PCB-055	pg/g	0.339 U	**4.27**	**8.38**	**4.93**	–	**3.43 J**	**6.98**	0.377 U	–	–	–
PCB-056	pg/g	**6.68 C**	**91.2 C**	**180 C**	**72.4 C**	–	**59.4 C**	**118 C**	**1.71 J, C**	–	–	–
PCB-057	pg/g	0.371 U	**1.62 J**	0.896 U	**2.89 J**	–	0.886 U	0.905 U	0.413 U	–	–	–
PCB-058	pg/g	0.339 U	0.867 U	1.61 J	0.648 U	–	0.885 U	**3.88 J**	0.378 U	–	–	–
PCB-059	pg/g	**– J, C042**	**– C042**	**– C042**	**– C042**	–	**– C042**	**– C042**	**– J, C042**	–	–	–
PCB-060	pg/g	**– C056**	**– C056**	**– C056**	**– C056**	–	**– C056**	**– C056**	**– J, C056**	–	–	–
PCB-061	pg/g	**15.6 C**	**234 C**	**631 C**	**182 C**	–	**145 C**	**416 C**	**4.35 C**	–	–	–
PCB-062	pg/g	0.356 U	0.949 U	0.858 U	0.679 U	–	0.969 U	0.868 U	0.396 U	–	–	–
PCB-063	pg/g	0.376 U	**9.19**	**15.8**	**6.65**	–	**6.12**	**17.7**	0.419 U	–	–	–
PCB-064	pg/g	**– C041**	**– C041**	**– C041**	**– C041**	–	**– C041**	**– C041**	**– J, C041**	–	–	–
PCB-065	pg/g	0.387 U	0.853 U	0.934 U	0.739 U	–	0.871 U	0.944 U	0.431 U	–	–	–
PCB-066	pg/g	**12.7 C**	**175 C**	**365 C**	**140 C**	–	**117 C**	**377 C**	**3.02 J, C**	–	–	–
PCB-067	pg/g	0.369 U	**7.64**	**9.45**	**5.68**	–	**5.59**	**9.45**	0.411 U	–	–	–

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-068	pg/g	0.332 U	0.802 U	**1.39 J**	**1.97 J**	--	0.819 U	0.811 U	0.370 U	--	--	--
PCB-069	pg/g	**-- C052**	**-- C052**	**-- C052**	**-- C052**	--	**-- C052**	**-- C052**	**-- C052**	--	--	--
PCB-070	pg/g	**-- C061**	**-- C061**	**-- C061**	**-- C061**	--	**-- C061**	**-- C061**	**-- C061**	--	--	--
PCB-071	pg/g	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	**-- C041**	**-- J, C041**	--	--	--
PCB-072	pg/g	**-- C041**	**-- C041**	**-- C041**	**-- C041**	--	**-- C041**	**-- C041**	**-- J, C041**	--	--	--
PCB-073	pg/g	0.336 U	0.910 U	0.810 U	0.641 U	--	0.929 U	0.819 U	0.374 U	--	--	--
PCB-074	pg/g	**6.82**	**94.3**	**208**	**74.3**	--	**61.1**	**150**	**1.94 J**	--	--	--
PCB-075	pg/g	**-- J, C048**	**-- C048**	**-- C048**	**-- C048**	--	**-- C048**	**-- C048**	**-- U, C048**	--	--	--
PCB-076	pg/g	**-- C066**	**-- C066**	**-- C066**	**-- C066**	--	**-- C066**	**-- C066**	**-- J, C066**	--	--	--
PCB-077 (Dioxin-Like)	pg/g	**1.52 J**	**16.4**	**23.7**	**8.76**	--	**9.12**	**25.8**	0.403 U	--	--	--
PCB-078	pg/g	0.379 U	0.953 U	**3.60 J**	0.860 U	--	0.901 U	**2.53 J**	0.396 U	--	--	--
PCB-079	pg/g	0.371 U	**3.23 J**	**9.85**	**4.29**	--	**2.74 J**	**9.24**	0.388 U	--	--	--
PCB-080	pg/g	0.310 U	0.729 U	0.749 U	0.593 U	--	0.744 U	0.757 U	0.346 U	--	--	--
PCB-081 (Dioxin-Like)	pg/g	0.358 U	**5.04**	**18.1**	**6.32**	--	**3.16 J**	**8.66**	0.354 U	--	--	--
PCB-082	pg/g	**2.79 J**	**43.2**	**131**	**36.2**	--	**22.5**	**80.6**	1.53 U	--	--	--
PCB-083	pg/g	**1.10 J, C**	**13.7 C**	**44.0 C**	**16.8 C**	--	**9.88 C**	**32.3 C**	1.10 U, C	--	--	--
PCB-084	pg/g	**6.99 C**	**134 C**	**416 C**	**179 C**	--	**75.9 C**	**278 C**	**2.67 J, C**	--	--	--
PCB-085	pg/g	**3.61 J, C**	**51.5 C**	**161 C**	**44.2 C**	--	**28.4 C**	**106 C**	1.04 U, C	--	--	--
PCB-086	pg/g	0.504 U	0.980 U	1.22 U	1.63 U	--	1.16 U	1.18 U	1.12 U	--	--	--
PCB-087	pg/g	**7.59 C**	**123 C**	**437 C**	**134 C**	--	**67.8 C**	**241 C**	**2.18 J, C**	--	--	--
PCB-088	pg/g	**2.55 J, C**	**58.9 C**	**124 C**	**58.4 C**	--	**34.5 C**	**96.9 C**	0.566 U, C	--	--	--
PCB-089	pg/g	0.579 U	**4.3**	**9.8**	**4.61**	--	**2.50 J**	**7.71**	1.29 U	--	--	--
PCB-090	pg/g	**21.3 C**	**374 C**	**1140 C**	**392 C**	--	**229 C**	**759 C**	**6.86 C**	--	--	--
PCB-091	pg/g	**-- J, C088**	**-- C088**	**-- C088**	**-- C088**	--	**-- C088**	**-- C088**	-- U, C088	--	--	--
PCB-092	pg/g	**-- C084**	**-- C084**	**-- C084**	**-- C084**	--	**-- C084**	**-- C084**	**-- J, C084**	--	--	--
PCB-093	pg/g	0.674 U	0.829 U	1.01 U	0.568 U	--	0.937 U	1.32 U	0.559 U	--	--	--
PCB-094	pg/g	0.748 U	**2.07 J**	**3.91 J**	**3.29 J**	--	0.941 U	**3.36 J**	0.621 U	--	--	--
PCB-095	pg/g	**14.4**	**377**	**849**	**341**	--	**213**	**593**	**5.06**	--	--	--
PCB-096	pg/g	0.522 U	**2.34 J**	**4.88**	**1.96 J**	--	0.670 U	**2.62 J**	0.433 U	--	--	--
PCB-097	pg/g	**6.33**	**83.1**	**269**	**67.5**	--	**45.8**	**181**	**2.06 J**	--	--	--
PCB-098	pg/g	0.653 U, C	0.685 U, C	0.974 U, C	0.550 U, C	--	0.774 U, C	1.28 U, C	0.542 U, C	--	--	--
PCB-099	pg/g	**8.19**	**146**	**402**	**144**	--	**91.6**	**351**	**2.14 J**	--	--	--
PCB-100	pg/g	0.628 U	**2.11 J**	**2.60 J**	**4.11**	--	**2.04 J**	**3.45 J**	0.521 U	--	--	--
PCB-101	pg/g	**-- C090**	**-- C090**	**-- C090**	**-- C090**	--	**-- C090**	**-- C090**	**-- C090**	--	--	--
PCB-102	pg/g	-- U, C098	-- U, C098	-- U, C098	-- U, C098	--	-- U, C098	-- U, C098	-- U, C098	--	--	--
PCB-103	pg/g	0.634 U	**4.33**	**4.82**	**19.7**	--	**3.05 J**	**10.7**	0.525 U	--	--	--
PCB-104	pg/g	0.484 U	0.529 U	0.721 U	0.408 U	--	0.597 U	0.951 U	0.401 U	--	--	--
PCB-105 (Dioxin-Like)	pg/g	**7.79**	**108**	**366**	**93.3**	--	**62.6**	**210**	**1.98 J**	--	--	--
PCB-106	pg/g	**18.3 C**	**264 C**	**884 C**	**227 C**	--	**164 C**	**726 C**	**4.28 C**	--	--	--
PCB-107	pg/g	**1.36 J, C**	**19.2 C**	**58.1 C**	**15.9 C**	--	**11.2 C**	**62.0 C**	0.649 U, C	--	--	--
PCB-108	pg/g	**-- J, C107**	**-- C107**	**-- C107**	**-- C107**	--	**-- C107**	**-- C107**	-- U, C107	--	--	--
PCB-109	pg/g	0.399 U	0.817 U	0.967 U	**1.72**	--	0.965 U	0.934 U	0.888 U	--	--	--

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-110	pg/g	**19.3**	**330**	**1030**	**280**	--	**194**	**700**	**5.05**	--	--	--
PCB-111	pg/g	**0.640 J, C**	**6.37 C**	**20.8 C**	**7.33 C**	--	**3.61 J, C**	**9.78 C**	0.751 U, C	--	--	--
PCB-112	pg/g	**-- J, C083**	**-- C083**	**-- C083**	**-- C083**	--	**-- C083**	**-- C083**	-- U, C083	--	--	--
PCB-113	pg/g	0.440 U	0.821 U	1.07 U	1.42 U	--	0.970 U	1.03 U	0.980 U	--	--	--
PCB-114 (Dioxin-Like)	pg/g	0.418 U	**6.2**	**23.1**	**6.9**	--	**3.78 J**	**12.1**	0.610 U	--	--	--
PCB-115	pg/g	**-- J, C111**	**-- C111**	**-- C111**	**-- C111**	--	**-- J, C111**	**-- C111**	-- U, C111	--	--	--
PCB-116	pg/g	**-- J, C085**	**-- C085**	**-- C085**	**-- C085**	--	**-- C085**	**-- C085**	-- U, C085	--	--	--
PCB-117	pg/g	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--	**-- C087**	**-- C087**	**-- J, C087**	--	--	--
PCB-118 (Dioxin-Like)	pg/g	**-- C106**	**-- C106**	**-- C106**	**-- C106**	--	**-- C106**	**-- C106**	-- C106	--	--	--
PCB-119	pg/g	0.390 U	**6.81**	**16.1**	**11.7**	--	**4.51**	**28.6**	0.868 U	--	--	--
PCB-120	pg/g	0.381 U	**2.09 J**	**2.23 J**	**2.30 J**	--	**1.57 J**	**5.11**	0.850 U	--	--	--
PCB-121	pg/g	0.540 U	0.579 U	0.804 U	0.455 U	--	0.654 U	1.06 U	0.448 U	--	--	--
PCB-122	pg/g	0.432 U	**3.75 J**	**11.7**	**3.93 J**	--	**2.71 J**	**5.11**	0.643 U	--	--	--
PCB-123 (Dioxin-Like)	pg/g	0.357 U	**3.48 J**	**10.4**	**3.27 J**	--	**2.65 J**	**7.92**	0.544 U	--	--	--
PCB-124	pg/g	**0.899 J**	**14.5**	**39.8**	**12.9**	--	**8.66**	**23.8**	0.703 U	--	--	--
PCB-125	pg/g	**-- C087**	**-- C087**	**-- C087**	**-- C087**	--	**-- C087**	**-- C087**	**-- J, C087**	--	--	--
PCB-126 (Dioxin-Like)	pg/g	0.450 U	**2.52 J**	**3.72 J**	1.15 U	--	**1.44 J**	**4.27**	0.675 U	--	--	--
PCB-127	pg/g	0.465 U	1.07 U	1.28 U	1.18 U	--	0.916 U	0.882 U	0.692 U	--	--	--
PCB-128	pg/g	**4.00 C**	**71.8 C**	**173 C**	**49.1 C**	--	**48.0 C**	**119 C**	0.651 U, C	--	--	--
PCB-129	pg/g	**1.80 J**	**20.2**	**57.8**	**13.8**	--	**12.5**	**34.2**	0.887 U	--	--	--
PCB-130	pg/g	**2.42 J**	**28.9**	**88.1**	**33.1**	--	**21**	**50**	0.863 U	--	--	--
PCB-131	pg/g	**1.12 J, C**	**13.7 C**	**34.3 C**	**18.3 C**	--	**11.0 C**	**24.3 C**	0.760 U, C	--	--	--
PCB-132	pg/g	**7.68 C**	**150 C**	**301 C**	**161 C**	--	**102 C**	**238 C**	**2.00 J, C**	--	--	--
PCB-133	pg/g	**-- J, C131**	**-- C131**	**-- C131**	**-- C131**	--	**-- C131**	**-- C131**	-- U, C131	--	--	--
PCB-134	pg/g	**1.42 J, C**	**24.1 C**	**56.8 C**	**25.6 C**	--	**16.1 C**	**39.2 C**	0.775 U, C	--	--	--
PCB-135	pg/g	**4.11**	**81.4**	**147**	**126**	--	**54.6**	**94.1**	0.772 U	--	--	--
PCB-136	pg/g	**3.57 J**	**84.9**	**141**	**133**	--	**55.2**	**88.3**	0.843 U	--	--	--
PCB-137	pg/g	**1.07 J**	**19.7**	**56.9**	**16**	--	**12.2**	**34.6**	0.742 U	--	--	--
PCB-138	pg/g	**25.8 C**	**497 C**	**1030 C**	**418 C**	--	**351 C**	**704 C**	**5.39 C**	--	--	--
PCB-139	pg/g	**24.8 C**	**422 C**	**851 C**	**547 C**	--	**303 C**	**598 C**	**5.43 C**	--	--	--
PCB-140	pg/g	0.592 U	0.774 U	**3.45 J**	**6.69**	--	**2.59 J**	**7.02**	0.724 U	--	--	--
PCB-141	pg/g	**6.73**	**122**	**245**	**101**	--	**92**	**139**	**1.43 J**	--	--	--
PCB-142	pg/g	0.698 U	0.989 U	1.26 U	1.24 U	--	1.20 U	1.42 U	0.854 U	--	--	--
PCB-143	pg/g	**-- J, C134**	**-- C134**	**-- C134**	**-- C134**	--	**-- C134**	**-- C134**	-- U, C134	--	--	--
PCB-144	pg/g	**1.32 J**	**32.4**	**62.9**	**32.9**	--	**23.5**	**44.2**	0.759 U	--	--	--
PCB-145	pg/g	0.344 U	0.279 U	0.523 U	0.485 U	--	0.304 U	0.605 U	0.817 U	--	--	--
PCB-146	pg/g	**4.94 C**	**73.9 C**	**163 C**	**76.2 C**	--	**58.0 C**	**127 C**	**2.01 J, C**	--	--	--
PCB-147	pg/g	0.565 U	**8.75**	**16**	**6.3**	--	**6.06**	**16.8**	0.691 U	--	--	--
PCB-148	pg/g	0.503 U	0.353 U	0.764 U	0.710 U	--	0.385 U	0.885 U	1.19 U	--	--	--
PCB-149	pg/g	**-- C139**	**-- C139**	**-- C139**	**-- C139**	--	**-- C139**	**-- C139**	**-- C139**	--	--	--
PCB-150	pg/g	0.343 U	**1.53 J**	0.522 U	**4.92**	--	0.297 U	**2.44 J**	0.815 U	--	--	--
PCB-151	pg/g	**5.6**	**134**	**244**	**168**	--	**97.9**	**191**	0.790 U	--	--	--

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-152	pg/g	0.363 U	0.287 U	0.551 U	0.512 U	--	0.312 U	**1.37 J**	0.862 U	--	--	--
PCB-153	pg/g	**29.9**	**506**	**1,090**	**474**	--	**377**	**755**	**6.29**	--	--	--
PCB-154	pg/g	0.407 U	**5.91**	**8.13**	**15.8**	--	**3.87 J**	**10.1**	0.968 U	--	--	--
PCB-155	pg/g	0.311 U	0.251 U	0.473 U	0.439 U	--	0.274 U	0.548 U	0.740 U	--	--	--
PCB-156 (Dioxin-Like)	pg/g	**2.47 J**	**56.2**	**122**	**36.2**	--	**40.4**	**81.6**	0.566 U	--	--	--
PCB-157 (Dioxin-Like)	pg/g	0.474 U	**9.11**	**24.9**	**7.05**	--	**6**	**15.6**	0.582 U	--	--	--
PCB-158	pg/g	**3.57 J, C**	**71.1 C**	**142 C**	**54.2 C**	--	**48.7 C**	**95.0 C**	0.553 U, C	--	--	--
PCB-159	pg/g	0.450 U	**9.11**	**10.5**	**7.2**	--	**7.02**	**7.78**	0.551 U	--	--	--
PCB-160	pg/g	**– J, C158**	**– C158**	**– C158**	**– C158**	--	**– C158**	**– C158**	-- U, C158	--	--	--
PCB-161	pg/g	**– C132**	**– C132**	**– C132**	**– C132**	--	**– C132**	**– C132**	**– J, C132**	--	--	--
PCB-162	pg/g	**– C128**	**– C128**	**– C128**	**– C128**	--	**– C128**	**– C128**	-- U, C128	--	--	--
PCB-163	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	--	**– C138**	**– C138**	**– C138**	--	--	--
PCB-164	pg/g	**– C138**	**– C138**	**– C138**	**– C138**	--	**– C138**	**– C138**	**– C138**	--	--	--
PCB-165	pg/g	**– C146**	**– C146**	**– C146**	**– C146**	--	**– C146**	**– C146**	**– J, C146**	--	--	--
PCB-166	pg/g	**0.476 U**	**1.60 J**	**4.96**	**1.74 J**	--	0.792 U	**2.26 J**	0.583 U	--	--	--
PCB-167 (Dioxin-Like)	pg/g	**1.34 J**	**25.5**	**45.9**	**15.1**	--	**15.7**	**33.8**	0.564 U	--	--	--
PCB-168	pg/g	0.466 U	0.625 U	0.840 U	0.825 U	--	0.760 U	0.949 U	0.570 U	--	--	--
PCB-169	pg/g	0.381 U	0.616 U	0.630 U	0.775 U	--	0.689 U	0.794 U	0.488 U	--	--	--
PCB-170	pg/g	**10.3**	**278**	**303**	**147**	--	**177**	**189**	0.638 U	--	--	--
PCB-171	pg/g	**2.76 J**	**96.2**	**95.6**	**49.6**	--	**67.6**	**65.2**	0.617 U	--	--	--
PCB-172	pg/g	**2.05 J**	**52.5**	**53.2**	**23.9**	--	**32**	**37.9**	0.619 U	--	--	--
PCB-173	pg/g	0.556 U	**7.01**	**8.47**	0.805 U	--	**5.19**	**3.34 J**	0.648 U	--	--	--
PCB-174	pg/g	**9.01**	**237**	**274**	**158**	--	**182**	**204**	2.00 U	--	--	--
PCB-175	pg/g	0.532 U	**15.6**	**16.3**	**7.96**	--	**11.6**	**13.2**	0.620 U	--	--	--
PCB-176	pg/g	**2.31 J**	**45.7**	**45.6**	**32.4**	--	**34.3**	**35.2**	0.479 U	--	--	--
PCB-177	pg/g	**6.81**	**154**	**177**	**114**	--	**117**	**119**	0.651 U	--	--	--
PCB-178	pg/g	**2.78 J**	**53.2**	**60.2**	**45.5**	--	**38.8**	**44.8**	0.628 U	--	--	--
PCB-179	pg/g	**4.54**	**99.3**	**116**	**90**	--	**91.5**	**93.7**	0.430 U	--	--	--
PCB-180	pg/g	**19**	**504**	**604**	**315**	--	**341**	**433**	**3.46 J**	--	--	--
PCB-181	pg/g	0.487 U	0.589 U	0.803 U	0.705 U	--	0.804 U	0.814 U	0.568 U	--	--	--
PCB-182	pg/g	**14.4 C**	**286 C**	**374 C**	**239 C**	--	**224 C**	**289 C**	**2.70 J, C**	--	--	--
PCB-183	pg/g	**8.57**	**190**	**207**	**123**	--	**137**	**164**	**2.45 J**	--	--	--
PCB-184	pg/g	0.353 U	0.404 U	0.582 U	0.512 U	--	0.551 U	0.590 U	0.412 U	--	--	--
PCB-185	pg/g	**1.61 J**	**31.3**	**36.6**	**23**	--	**24.9**	**27.3**	0.580 U	--	--	--
PCB-186	pg/g	0.382 U	0.434 U	0.628 U	0.552 U	--	0.592 U	0.637 U	0.445 U	--	--	--
PCB-187	pg/g	**– C182**	**– C182**	**– C182**	**– C182**	--	**– C182**	**– C182**	**– J, C182**	--	--	--
PCB-188	pg/g	0.416 U	0.443 U	0.691 U	**1.78 J**	--	0.613 U	**1.62 J**	0.501 U	--	--	--
PCB-189 (Dioxin-Like)	pg/g	0.330 U	**12.1**	**11.6**	**5.18**	--	**8.16**	**10.5**	0.372 U	--	--	--
PCB-190	pg/g	**2.06 J**	**67.3**	**62.2**	**36**	--	**44.8**	**48**	0.476 U	--	--	--
PCB-191	pg/g	0.375 U	**15.1**	**12.8**	**6.7**	--	**10.4**	**11.9**	0.437 U	--	--	--
PCB-192	pg/g	0.391 U	0.475 U	0.644 U	0.566 U	--	0.648 U	0.653 U	0.455 U	--	--	--
PCB-193	pg/g	**1.24 J**	**35.2**	**36.1**	**19.3**	--	**21.9**	**27**	0.441 U	--	--	--

Sample Location[1]		MAF-58	MAF-59				MAF-60			MAF-61		EDP62
Sample Identification		MAF-SC-58_2-4	MAF-SS-59_0-10	MAF-SC-59_2-4	MAF-SC-59_6-8	MAF-SC-59_10-12	MAF-SS-60_0-10	MAF-SC-60_4-6	MAF-SC-60_8-10	MAF-SS-61_0-10	MAF-SS-DUP-11	EDP62_0.0-1.0
Sample Date		11/13/18	11/14/18	11/12/18	11/12/18	11/12/18	11/14/18	11/12/18	11/12/18	11/14/18	11/14/18	04/27/21
Sample Interval (dbm)		2-4 ft	0-10 cm	2-4 ft	6-8 ft	10-12 ft	0-10 cm	4-6 ft	8-10 ft	0-10 cm	0-10 cm	0-1 ft
Sample Type		Subsurface	Surface	Subsurface	Subsurface	Subsurface	Surface	Subsurface	Subsurface	Surface	Surface	Subsurface
Stratigraphic Unit		Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Native Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Subtidal	Intertidal
PCB-194	pg/g	**6.24**	**146**	**189**	**99.9**	--	**78.5**	**149**	0.997 U	--	--	--
PCB-195	pg/g	**2.65 J**	**65**	**83.2**	**38.2**	--	**38.2**	**60.3**	1.01 U	--	--	--
PCB-196	pg/g	**10.1 C**	**215 C**	**283 C**	**205 C**	--	**129 C**	**200 C**	**2.03 J, C**	--	--	--
PCB-197	pg/g	0.449 U	**9.55**	**9.35**	**7.35**	--	**5.3**	**8.58**	0.542 U	--	--	--
PCB-198	pg/g	0.722 U	**11.8**	**22.7**	**13.5**	--	**7.04**	**13.7**	0.872 U	--	--	--
PCB-199	pg/g	**7.98**	**169**	**258**	**279**	--	**98.6**	**165**	0.772 U	--	--	--
PCB-200	pg/g	0.478 U	**23.8**	**29.3**	**19.6**	--	**15**	**23**	0.577 U	--	--	--
PCB-201	pg/g	**1.71 J**	**24.1**	**33.5**	**30.6**	--	**15**	**22.7**	0.585 U	--	--	--
PCB-202	pg/g	**2.32 J**	**27.3**	**54.2**	**68.5**	--	**16.7**	**33.1**	0.573 U	--	--	--
PCB-203	pg/g	**– C196**	**– C196**	**– C196**	**– C196**	--	**– C196**	**– C196**	**– J, C196**	--	--	--
PCB-204	pg/g	0.492 U	0.388 U	0.711 U	**0.759 J**	--	0.458 U	0.745 U	0.594 U	--	--	--
PCB-205	pg/g	0.296 U	**9.39**	**10.3**	**5.92**	--	**7.2**	**7.97**	0.744 U	--	--	--
PCB-206	pg/g	**6.62**	**52.6**	**510**	**1,460**	--	**29.7**	**82.9**	0.970 U	--	--	--
PCB-207	pg/g	**0.991 J**	**8.91**	**44.4**	**105**	--	**5.49**	**12.4**	0.829 U	--	--	--
PCB-208	pg/g	**2.42 J**	**12**	**188**	**574**	--	**6.72**	**20**	0.747 U	--	--	--
PCB-209	pg/g	**9.79**	**13.8**	**602**	**1,820**	--	**9.83**	**33.3**	0.661 U	--	--	--
Total PCBs Congeners	pg/g	**565 J**	**10,300 J**	**20,900 J**	**12,800 J**	--	**7,020 J**	**13,900 J**	**144 J**	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-3

Summary of Sediment Analytical Results for Polychlorinated Biphenyl Aroclors and Congeners

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
Polychlorinated Biphenyl (PCB) Aroclors								
PCB-Aroclor 1016	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1221	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1232	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1242	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1248	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1254	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1260	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1262	ug/Kg	--	--	--	--	--	--	--
PCB-Aroclor 1268	ug/Kg	--	--	--	--	--	--	--
Total PCBs Aroclors	ug/Kg	--	--	--	--	--	--	--
Polychlorinated Biphenyl (PCB) Congeners								
PCB-001	pg/g	--	--	--	--	--	--	--
PCB-002	pg/g	--	--	--	--	--	--	--
PCB-003	pg/g	--	--	--	--	--	--	--
PCB-004	pg/g	--	--	--	--	--	--	--
PCB-005	pg/g	--	--	--	--	--	--	--
PCB-006	pg/g	--	--	--	--	--	--	--
PCB-007	pg/g	--	--	--	--	--	--	--
PCB-008	pg/g	--	--	--	--	--	--	--
PCB-009	pg/g	--	--	--	--	--	--	--
PCB-010	pg/g	--	--	--	--	--	--	--
PCB-011	pg/g	--	--	--	--	--	--	--
PCB-012	pg/g	--	--	--	--	--	--	--
PCB-013	pg/g	--	--	--	--	--	--	--
PCB-014	pg/g	--	--	--	--	--	--	--
PCB-015	pg/g	--	--	--	--	--	--	--
PCB-016	pg/g	--	--	--	--	--	--	--
PCB-017	pg/g	--	--	--	--	--	--	--
PCB-018	pg/g	--	--	--	--	--	--	--
PCB-019	pg/g	--	--	--	--	--	--	--
PCB-020	pg/g	--	--	--	--	--	--	--
PCB-021	pg/g	--	--	--	--	--	--	--
PCB-022	pg/g	--	--	--	--	--	--	--
PCB-023	pg/g	--	--	--	--	--	--	--
PCB-024	pg/g	--	--	--	--	--	--	--
PCB-025	pg/g	--	--	--	--	--	--	--

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
PCB-026	pg/g	--	--	--	--	--	--	--
PCB-027	pg/g	--	--	--	--	--	--	--
PCB-028	pg/g	--	--	--	--	--	--	--
PCB-029	pg/g	--	--	--	--	--	--	--
PCB-030	pg/g	--	--	--	--	--	--	--
PCB-031	pg/g	--	--	--	--	--	--	--
PCB-032	pg/g	--	--	--	--	--	--	--
PCB-033	pg/g	--	--	--	--	--	--	--
PCB-034	pg/g	--	--	--	--	--	--	--
PCB-035	pg/g	--	--	--	--	--	--	--
PCB-036	pg/g	--	--	--	--	--	--	--
PCB-037	pg/g	--	--	--	--	--	--	--
PCB-038	pg/g	--	--	--	--	--	--	--
PCB-039	pg/g	--	--	--	--	--	--	--
PCB-040	pg/g	--	--	--	--	--	--	--
PCB-041	pg/g	--	--	--	--	--	--	--
PCB-042	pg/g	--	--	--	--	--	--	--
PCB-043	pg/g	--	--	--	--	--	--	--
PCB-044	pg/g	--	--	--	--	--	--	--
PCB-045	pg/g	--	--	--	--	--	--	--
PCB-046	pg/g	--	--	--	--	--	--	--
PCB-047	pg/g	--	--	--	--	--	--	--
PCB-048	pg/g	--	--	--	--	--	--	--
PCB-049	pg/g	--	--	--	--	--	--	--
PCB-050	pg/g	--	--	--	--	--	--	--
PCB-051	pg/g	--	--	--	--	--	--	--
PCB-052	pg/g	--	--	--	--	--	--	--
PCB-053	pg/g	--	--	--	--	--	--	--
PCB-054	pg/g	--	--	--	--	--	--	--
PCB-055	pg/g	--	--	--	--	--	--	--
PCB-056	pg/g	--	--	--	--	--	--	--
PCB-057	pg/g	--	--	--	--	--	--	--
PCB-058	pg/g	--	--	--	--	--	--	--
PCB-059	pg/g	--	--	--	--	--	--	--
PCB-060	pg/g	--	--	--	--	--	--	--
PCB-061	pg/g	--	--	--	--	--	--	--
PCB-062	pg/g	--	--	--	--	--	--	--
PCB-063	pg/g	--	--	--	--	--	--	--
PCB-064	pg/g	--	--	--	--	--	--	--
PCB-065	pg/g	--	--	--	--	--	--	--
PCB-066	pg/g	--	--	--	--	--	--	--
PCB-067	pg/g	--	--	--	--	--	--	--

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
PCB-068	pg/g	--	--	--	--	--	--	--
PCB-069	pg/g	--	--	--	--	--	--	--
PCB-070	pg/g	--	--	--	--	--	--	--
PCB-071	pg/g	--	--	--	--	--	--	--
PCB-072	pg/g	--	--	--	--	--	--	--
PCB-073	pg/g	--	--	--	--	--	--	--
PCB-074	pg/g	--	--	--	--	--	--	--
PCB-075	pg/g	--	--	--	--	--	--	--
PCB-076	pg/g	--	--	--	--	--	--	--
PCB-077 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-078	pg/g	--	--	--	--	--	--	--
PCB-079	pg/g	--	--	--	--	--	--	--
PCB-080	pg/g	--	--	--	--	--	--	--
PCB-081 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-082	pg/g	--	--	--	--	--	--	--
PCB-083	pg/g	--	--	--	--	--	--	--
PCB-084	pg/g	--	--	--	--	--	--	--
PCB-085	pg/g	--	--	--	--	--	--	--
PCB-086	pg/g	--	--	--	--	--	--	--
PCB-087	pg/g	--	--	--	--	--	--	--
PCB-088	pg/g	--	--	--	--	--	--	--
PCB-089	pg/g	--	--	--	--	--	--	--
PCB-090	pg/g	--	--	--	--	--	--	--
PCB-091	pg/g	--	--	--	--	--	--	--
PCB-092	pg/g	--	--	--	--	--	--	--
PCB-093	pg/g	--	--	--	--	--	--	--
PCB-094	pg/g	--	--	--	--	--	--	--
PCB-095	pg/g	--	--	--	--	--	--	--
PCB-096	pg/g	--	--	--	--	--	--	--
PCB-097	pg/g	--	--	--	--	--	--	--
PCB-098	pg/g	--	--	--	--	--	--	--
PCB-099	pg/g	--	--	--	--	--	--	--
PCB-100	pg/g	--	--	--	--	--	--	--
PCB-101	pg/g	--	--	--	--	--	--	--
PCB-102	pg/g	--	--	--	--	--	--	--
PCB-103	pg/g	--	--	--	--	--	--	--
PCB-104	pg/g	--	--	--	--	--	--	--
PCB-105 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-106	pg/g	--	--	--	--	--	--	--
PCB-107	pg/g	--	--	--	--	--	--	--
PCB-108	pg/g	--	--	--	--	--	--	--
PCB-109	pg/g	--	--	--	--	--	--	--

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
PCB-110	pg/g	--	--	--	--	--	--	--
PCB-111	pg/g	--	--	--	--	--	--	--
PCB-112	pg/g	--	--	--	--	--	--	--
PCB-113	pg/g	--	--	--	--	--	--	--
PCB-114 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-115	pg/g	--	--	--	--	--	--	--
PCB-116	pg/g	--	--	--	--	--	--	--
PCB-117	pg/g	--	--	--	--	--	--	--
PCB-118 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-119	pg/g	--	--	--	--	--	--	--
PCB-120	pg/g	--	--	--	--	--	--	--
PCB-121	pg/g	--	--	--	--	--	--	--
PCB-122	pg/g	--	--	--	--	--	--	--
PCB-123 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-124	pg/g	--	--	--	--	--	--	--
PCB-125	pg/g	--	--	--	--	--	--	--
PCB-126 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-127	pg/g	--	--	--	--	--	--	--
PCB-128	pg/g	--	--	--	--	--	--	--
PCB-129	pg/g	--	--	--	--	--	--	--
PCB-130	pg/g	--	--	--	--	--	--	--
PCB-131	pg/g	--	--	--	--	--	--	--
PCB-132	pg/g	--	--	--	--	--	--	--
PCB-133	pg/g	--	--	--	--	--	--	--
PCB-134	pg/g	--	--	--	--	--	--	--
PCB-135	pg/g	--	--	--	--	--	--	--
PCB-136	pg/g	--	--	--	--	--	--	--
PCB-137	pg/g	--	--	--	--	--	--	--
PCB-138	pg/g	--	--	--	--	--	--	--
PCB-139	pg/g	--	--	--	--	--	--	--
PCB-140	pg/g	--	--	--	--	--	--	--
PCB-141	pg/g	--	--	--	--	--	--	--
PCB-142	pg/g	--	--	--	--	--	--	--
PCB-143	pg/g	--	--	--	--	--	--	--
PCB-144	pg/g	--	--	--	--	--	--	--
PCB-145	pg/g	--	--	--	--	--	--	--
PCB-146	pg/g	--	--	--	--	--	--	--
PCB-147	pg/g	--	--	--	--	--	--	--
PCB-148	pg/g	--	--	--	--	--	--	--
PCB-149	pg/g	--	--	--	--	--	--	--
PCB-150	pg/g	--	--	--	--	--	--	--
PCB-151	pg/g	--	--	--	--	--	--	--

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
PCB-152	pg/g	--	--	--	--	--	--	--
PCB-153	pg/g	--	--	--	--	--	--	--
PCB-154	pg/g	--	--	--	--	--	--	--
PCB-155	pg/g	--	--	--	--	--	--	--
PCB-156 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-157 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-158	pg/g	--	--	--	--	--	--	--
PCB-159	pg/g	--	--	--	--	--	--	--
PCB-160	pg/g	--	--	--	--	--	--	--
PCB-161	pg/g	--	--	--	--	--	--	--
PCB-162	pg/g	--	--	--	--	--	--	--
PCB-163	pg/g	--	--	--	--	--	--	--
PCB-164	pg/g	--	--	--	--	--	--	--
PCB-165	pg/g	--	--	--	--	--	--	--
PCB-166	pg/g	--	--	--	--	--	--	--
PCB-167 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-168	pg/g	--	--	--	--	--	--	--
PCB-169	pg/g	--	--	--	--	--	--	--
PCB-170	pg/g	--	--	--	--	--	--	--
PCB-171	pg/g	--	--	--	--	--	--	--
PCB-172	pg/g	--	--	--	--	--	--	--
PCB-173	pg/g	--	--	--	--	--	--	--
PCB-174	pg/g	--	--	--	--	--	--	--
PCB-175	pg/g	--	--	--	--	--	--	--
PCB-176	pg/g	--	--	--	--	--	--	--
PCB-177	pg/g	--	--	--	--	--	--	--
PCB-178	pg/g	--	--	--	--	--	--	--
PCB-179	pg/g	--	--	--	--	--	--	--
PCB-180	pg/g	--	--	--	--	--	--	--
PCB-181	pg/g	--	--	--	--	--	--	--
PCB-182	pg/g	--	--	--	--	--	--	--
PCB-183	pg/g	--	--	--	--	--	--	--
PCB-184	pg/g	--	--	--	--	--	--	--
PCB-185	pg/g	--	--	--	--	--	--	--
PCB-186	pg/g	--	--	--	--	--	--	--
PCB-187	pg/g	--	--	--	--	--	--	--
PCB-188	pg/g	--	--	--	--	--	--	--
PCB-189 (Dioxin-Like)	pg/g	--	--	--	--	--	--	--
PCB-190	pg/g	--	--	--	--	--	--	--
PCB-191	pg/g	--	--	--	--	--	--	--
PCB-192	pg/g	--	--	--	--	--	--	--
PCB-193	pg/g	--	--	--	--	--	--	--

Sample Location[1]		EDP62	EDP63		EDP64		EDP65	
Sample Identification		EDP62_2.0-3.0	EDP63_0.0-1.0	EDP63_2.0-3.0	EDP64_0.0-1.0	EDP64_2.0-3.0	EDP65_0.0-1.0	EDP65_2.0-3.0
Sample Date		04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21	04/27/21
Sample Interval (dbm)		2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft	0-1 ft	2-3 ft
Sample Type		Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface	Subsurface
Stratigraphic Unit		Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit	Recent Deposit
Tidal Zone		Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal	Intertidal
PCB-194	pg/g	--	--	--	--	--	--	--
PCB-195	pg/g	--	--	--	--	--	--	--
PCB-196	pg/g	--	--	--	--	--	--	--
PCB-197	pg/g	--	--	--	--	--	--	--
PCB-198	pg/g	--	--	--	--	--	--	--
PCB-199	pg/g	--	--	--	--	--	--	--
PCB-200	pg/g	--	--	--	--	--	--	--
PCB-201	pg/g	--	--	--	--	--	--	--
PCB-202	pg/g	--	--	--	--	--	--	--
PCB-203	pg/g	--	--	--	--	--	--	--
PCB-204	pg/g	--	--	--	--	--	--	--
PCB-205	pg/g	--	--	--	--	--	--	--
PCB-206	pg/g	--	--	--	--	--	--	--
PCB-207	pg/g	--	--	--	--	--	--	--
PCB-208	pg/g	--	--	--	--	--	--	--
PCB-209	pg/g	--	--	--	--	--	--	--
Total PCBs Congeners	pg/g	--	--	--	--	--	--	--

Notes:

[1] Sample locations shown in Figures 10 through 12.

[2] Sediment sample collected from the Z-Layer during the 2016 Interim Action Dredged Material Characterization Study and is representative of surface sediment conditions following completion of the 2016/2017 Interim Action.

[3] The polychlorinated biphenyl (PCB) results are from sample MAF-SC-04-0-2(B) which was collected from an additional core advanced at this location to collect an adequate volume of sediment sample.

[4] The reported results are from sample MAF-SC-DUP-06 which is a duplicate sample for MAF-SC-04_2-4 advanced at this location.

-- = not analyzed

µg/kg = microgram per kilogram

cm = centimeter

dbm = depth below mudline

ft = feet

J = The analyte was detected and the detected concentration is considered an estimate.

pg/g = picogram per gram

U = The analyte was not detected at a concentration greater than the value identified.

Bold font type indicates the analyte was detected at the reported concentration.

Table H-4

Sediment Bioassay Data Summary - 10-Day Amphipod Mortality Test[1]

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location ID[2]	Mean Mortality (%)	Comparison Sample	Statistically More than Reference (p=0.05) (Yes/No)	Mortality Comparison to Reference M_T-M_R	Fails SCO[3] (Yes/No)	Fails CSL[4] (Yes/No)
Control	1	--	--	--	--	--
CARR-16	6	--	--	--	--	--
CARR-44	0	--	--	--	--	--
MAF-09	2	CARR-16	No	-4	No	No
MAF-10	2	CARR-44	No	2	No	No
MAF-11	5	CARR-44	No	5	No	No
MAF-12	3	CARR-44	No	3	No	No
MAF-20	8	CARR-44	Yes	8	No	No
MAF-21	3	CARR-44	No	3	No	No
MAF-22	5	CARR-44	No	5	No	No
MAF-31	4	CARR-44	No	4	No	No
MAF-35	1	CARR-44	No	1	No	No

Notes:

[1] Sediment Management Standards (SMS) comparison for *Eohaustorius estuarius* .

[2] Sediment sample locations are shown on Figure 10.

[3] Sediment Cleanup Objective (SCO) criteria: statistical significance and M_T-M_R >25%.

[4] Sediment Cleanup Level (CSL) criteria: statistical significance and M_T-M_R >30%.

-- = Not applicable

M_R = Reference Mortality

M_T = Treatment Mortality

Bioassay testing performed by Ramboll Environ of Port Gamble, Washington.

Table H-5

Sediment Bioassay Data Summary - 20-Day Juvenile Infaunal Growth Test[1]

Weyerhaeuser Mill A Former

Everett, Washington

	Sample Location ID[2]	MIG (mg/ind/day)	Comparison Sample	Statistically Less than Reference (p=0.05) (Yes/No)	MIG Relative to Reference MIG_T/MIG_R	Fails SCO[3] (Yes/No)	Fails CSL[4] (Yes/No)
Dry Weight	Control	0.472	--	--	--	--	--
	CARR-16	0.506	--	--	--	--	--
	CARR-44	0.583	--	--	--	--	--
	MAF-09	0.53	CARR-16	No	1.05	No	No
	MAF-10	0.642	CARR-44	No	1.1	No	No
	MAF-11	0.637	CARR-44	No	1.09	No	No
	MAF-12	0.649	CARR-44	No	1.11	No	No
	MAF-20	0.619	CARR-44	No	1.06	No	No
	MAF-21	0.514	CARR-44	No	0.88	No	No
	MAF-22	0.66	CARR-44	No	1.13	No	No
	MAF-31	0.596	CARR-44	No	1.02	No	No
	MAF-35	0.704	CARR-44	No	1.21	No	No
Ash-Free Dry Weight	Control	0.364	--	--	--	--	--
	CARR-16	0.323	--	--	--	--	--
	CARR-44	0.395	--	--	--	--	--
	MAF-09	0.407	CARR-16	No	1.26	No	No
	MAF-10	0.433	CARR-44	No	1.1	No	No
	MAF-11	0.506	CARR-44	No	1.28	No	No
	MAF-12	0.486	CARR-44	No	1.23	No	No
	MAF-20	0.463	CARR-44	No	1.17	No	No
	MAF-21	0.368	CARR-44	No	0.93	No	No
	MAF-22	0.495	CARR-44	No	1.26	No	No
	MAF-31	0.449	CARR-44	No	1.14	No	No
	MAF-35	0.503	CARR-44	No	1.27	No	No

Notes:

[1] Sediment Management Standards (SMS) comparison for *Mytilus galloprovincialis* .

[2] Sediment sample locations are shown on Figure 10.

[3] Sediment Cleanup Objective (SCO) criteria: statistical significance and MIG_T/MIG_R <0.70.

[4] Sediment Cleanup Level (CSL) criteria: statistical significance and MIG_T/MIG_R <0.50.

-- = Not applicable

MIG_R = Reference Mean Individual Growth

MIG_T = Treatment Mean Individual Growth

Bioassay testing performed by Ramboll Environ of Port Gamble, Washington.

Table H-6

Sediment Bioassay Data Summary - Larval Development Test[1]

Weyerhaeuser Mill A Former

Everett, Washington

Sample Location ID[2]	Mean Number Normal	N_T/N_R	Comparison Sample	Statistically Less than Reference (p=0.10) (Yes/No)	Fails SCOS[3] (Yes/No)	Fails CSL[4] (Yes/No)
Control	239.8	--	--	--	--	--
CARR-16	220	--	--	--	--	--
CARR-44	227.4	--	--	--	--	--
MAF-09	201.5	0.92	CARR-16	No	No	No
MAF-10	181	0.80	CARR-44	**Yes**	**Yes**	No
MAF-11	204	0.90	CARR-44	No	No	No
MAF-12	183.8	0.81	CARR-44	**Yes**	**Yes**	No
MAF-20	209.8	0.92	CARR-44	No	No	No
MAF-21	194	0.85	CARR-44	No	No	No
MAF-22	177.2	0.78	CARR-44	**Yes**	**Yes**	No
MAF-31	202.6	0.89	CARR-44	No	No	No
MAF-35	195	0.86	CARR-44	No	No	No

Notes:

[1] Sediment Management Standards (SMS) comparison for *Mytilus galloprovincialis* .

[2] Surface (0 - 10 cm) sediment sample locations are shown on Figure 10.

[3] Sediment Cleanup Objective (SCO) criteria: statistical significance and N_T/N_R <0.85.

[4] Sediment Cleanup Level (CSL) criteria: statistical significance and N_T/N_R <0.70.

-- = Not applicable

N_C =Control Mean Number Normal

N_R =Reference Mean Number Normal

N_T =Treatment Mean Number Normal

Bioassay testing performed by Ramboll Environ of Port Gamble, Washington.