Preliminary Sediment Results - Unlvalidated Data (Do Not Distribute)
T25 South

					Task	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019
					Location ID	T25-SC02	T25-SC02	T25-SC02	T25-SC03	T25-SC03	T25-SC04	T25-SC04
					Sample ID	T25-SC02-0-4.6	T25-SC02-4.6-5.6	T25-SC52-0-4.6	T25-SC-03-0-5.7	T25-SC03-5.7-6.2	T25-SC-04-0-4	T25-SC04-4-5
					Sample Date	3/25/2019	3/25/2019	3/25/2019	3/24/2019	3/24/2019	3/24/2019	3/24/2019
					Depth	0 - 4.6 ft	4.6 - 5.6 ft	0 - 4.6 ft	0 - 5.7	5.7 - 6.2 ft	0 - 4	4 - 5 ft
					Sample Type	N	N	FD	N	N	N	N
					Matrix	SE	SE	SE	SE	SE	SE	SE
					X	1267668.28	1267668.28	1267668.28	1267650.75	1267650.75	1267597.9	1267597.9
					Y	212812.47	212812.47	212812.47	212756.49	212756.49	212603.43	212603.43
		SMS SCO	SMS CSL	AET SCO	AET CSL							
Conventional Parameters (pct)												
Total organic carbon	SW9060A					--	**0.66**	--	--	**0.2**	--	**1.84**
Total Solids	SM2540G					**59.98**	**74.94**	**61.37**	**70.37**	**78.74**	**66.73**	**69.91**
Metals (mg/kg)												
Arsenic	SW6020A	57	93	57	93	--	**3.28**	--	--	**4.59**	--	**5.45**
Cadmium	SW6020A	5.1	6.7	5.1	6.7	--	**0.29**	--	--	**0.11 J**	--	**0.5**
Chromium	SW6020A	260	270	260	270	--	**10.4**	--	--	**13.6**	--	**21.4**
Copper	SW6020A	390	390	390	390	--	**20.3**	--	--	**20.5**	--	**44.2**
Lead	SW6020A	450	530	450	530	--	**42.6**	--	--	**35.2**	--	**91.4**
Mercury	SW7471B	0.41	0.59	0.41	0.59	--	**0.205**	--	--	**0.0165 J**	--	**0.627**
Silver	SW6020A	6.1	6.1	6.1	6.1	--	**0.14 J**	--	--	**0.1 J**	--	**0.4**
Zinc	SW6020A	410	960	410	960	--	**44.8**	--	--	**53.6**	--	**142**
Semivolatile Organics (mg/kg-OC)												
1,2,4-Trichlorobenzene	SW8270DSIM	0.81	1.8			--	0.7424 U	--	--	--	--	**0.962**
1,2-Dichlorobenzene	SW8270DSIM	2.3	2.3			--	0.7424 U	--	--	--	--	0.5163 U
1,4-Dichlorobenzene	SW8270DSIM	3.1	9			--	0.7424 U	--	--	--	--	**0.3152 J**
bis(2-Ethylhexyl)phthalate	SW8270D	47	78			--	7.5 U	--	--	--	--	**10**
Butylbenzyl phthalate	SW8270D	4.9	64			--	3 U	--	--	--	--	2.0707 U
Diethyl phthalate	SW8270DSIM	61	110			--	**1.5152 J**	--	--	--	--	2.0707 U
Dimethyl phthalate	SW8270DSIM	53	53			--	0.7424 U	--	--	--	--	0.5163 U
Di-n-butyl phthalate	SW8270D	220	1700			--	**9.9394**	--	--	--	--	2.0707 U
Di-n-octyl phthalate	SW8270D	58	4500			--	3 U	--	--	--	--	2.0707 U
Hexachlorobenzene	SW8270DSIM	0.38	2.3			--	0.7424 U	--	--	--	--	0.5163 U
Hexachlorobutadiene	SW8270DSIM	3.9	6.2			--	0.7424 U	--	--	--	--	0.5163 U
n-Nitrosodiphenylamine	SW8270DSIM	11	11			--	0.7424 U	--	--	--	--	0.5163 U
Polycyclic Aromatic Hydrocarbons (mg/kg-OC)												
2-Methylnaphthalene	SW8270D	38	64			--	**8.2879**	--	--	--	--	**4.1196**
Acenaphthene	SW8270D	16	57			--	**18.788**	--	--	--	--	**5.1848**
Acenaphthylene	SW8270D	66	66			--	**5.9545**	--	--	--	--	**3.5543**
Anthracene	SW8270D	220	1200			--	**22.121**	--	--	--	--	**14.62**
Benzo(a)anthracene	SW8270D	110	270			--	**21.818**	--	--	--	--	**32.609**
Benzo(a)pyrene	SW8270D	99	210			--	**27.879**	--	--	--	--	**32.88**
Benzo(g,h,i)perylene	SW8270D	31	78			--	**16.515**	--	--	--	--	**19.674**
Chrysene	SW8270D	110	460			--	**37.576**	--	--	--	--	**41.087**
Dibenzo(a,h)anthracene	SW8270DSIM	12	33			--	**5.7424**	--	--	--	--	**5.761**
Dibenzofuran	SW8270D	15	58			--	**7.4394**	--	--	--	--	**4.5652**
Fluoranthene	SW8270D	160	1200			--	**54.091**	--	--	--	--	**100.543**
Fluorene	SW8270D	23	79			--	**8.6515**	--	--	--	--	**9.185**
Indeno(1,2,3-c,d)pyrene	SW8270D	34	88			--	**14.9848**	--	--	--	--	**16.902**
Naphthalene	SW8270D	99	170			--	**29.091**	--	--	--	--	**7.554**

T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019
T25-SC-05	T25-SC-06	T25-SC07	T25-SC07	T25-SC08	T25-SC-09B
T25-SC05-0-1	T25-SC06-0-1	T25-SC07-0-1	T25-SC57-0-1	T25-SC08-0-1	T25-SC09B-0-1
3/26/2019	3/26/2019	3/25/2019	3/25/2019	3/25/2019	3/26/2019
0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
N	N	N	FD	N	N
SE	SE	SE	SE	SE	SE
1267419.4	1267525.53	1267571.79	1267571.79	1267624.89	1267749.02
212412.09	212519.45	212704.13	212704.13	212881.97	212873.88

1.52	1.13	1.34	1.75	1.09	21.8
61.65	70.08	48.94	48.66	42	24.26

8.04	5.8	21.4	16.7	13.2	11.9
0.49	0.32	0.99	1.02	0.65	3.77
20.9	22.3	39.3	40.4	28.9	36.7
43.7	27.5	110	98.8	71.2	105
37.9	27.3	84	71.8	52.3	391
0.134	0.0815	0.322	0.351	0.235	1.42
0.38	0.21 J	0.91	0.87	0.55	1.73
88.9	71.8	185	181	135	300

0.2829 J	0.3186 J	0.306 J	--	0.2661 J	0.0229 U
0.3289 U	0.4336 U	0.3657 U	--	0.4495 U	0.0229 U
1	8.7876	2.2015	--	1.8899	0.0216 J
20.658	37.257	34.776	--	44.954	0.228 U
1.3092 U	1.1416 J	1.9776	--	1.8165 U	0.0913 U
0.5526 J	1.1681 J	0.7164 J	--	0.8716 J	0.0537 J
0.3289 U	0.4336 U	0.6418	--	0.3394 J	0.0229 U
0.7763 J	4.1504	3.9478	--	6.4679	0.0839 J
1.3092 U	1.7522 U	1.4701 U	--	1.8165 U	0.0913 U
0.3289 U	0.4336 U	0.3657 U	--	0.4495 U	0.0229 U
0.3289 U	0.4336 U	0.3657 U	--	0.4495 U	0.0229 U
0.3289 U	0.4336 U	0.8358	--	0.4495 U	0.0229 U

2.3487	2.4956	2.8955	--	4.6055	0.72
2.9868	4.4513	2.6567	--	7.2294	6.789
4.6316	8.938	12.537	--	25.688	0.592
13.289	33.274	29.627	--	60.826	8.67
14.671	48.23	48.955	--	96.33	6.972
25.592	63.717	80.597	--	--	4.266
10.789	20.265	20.448	--	100.917	1.009
33.882	118.584	108.955	--	--	--
4.0987	9.027	10.672	--	39.358	0.459
2.7039	4.1327	2.597	--	9.725	3.028
26.579	117.699	102.985	--	--	--
5.7434	1.7522 U	5.6119	--	14.771	5.183
11.184	21.504	23.731	--	108.257	1.073
7.961	6.5929	4.806	--	7.5688	1.798

Phenanthrene	SW8270D	100	480			--	**37.727**	--	--	--	--	**51.196**
Pyrene	SW8270D	1000	1400			--	**193.939**	--	--	--	--	**131.522**
Total Benzofluoranthenes (b,j,k) (U = 0)		230	450			--	**56.212**	--	--	--	--	**67.391**
Total HPAH (SMS) (U = 0)		960	5300			--	**428.7576**	--	--	--	--	**448.37**
Total LPAH (SMS) (U = 0)		370	780			--	**122.3333**	--	--	--	--	**91.2935**
Semivolatile Organics (µg/kg)												
1,2,4-Trichlorobenzene	SW8270DSIM			31	51	5 U	4.9 U	5 U	49.1 U	**2.7 J**	49.9 U	**17.7**
1,2-Dichlorobenzene	SW8270DSIM			35	50	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	9.5 U
1,4-Dichlorobenzene	SW8270DSIM			110	110	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	**5.8 J**
2,4-Dimethylphenol	SW8270DSIM	29	29	29	29	**11.1 J**	**5.4 J**	**12.8 J**	**23.2 J**	**4.5 J**	200 U	**8.3 J**
2-Methylphenol (o-Cresol)	SW8270DSIM	63	63	63	63	**7.3**	**4.2 J**	**10.1**	49.1 U	4.8 U	49.9 U	**6.7 J**
4-Methylphenol (p-Cresol)	SW8270DSIM	670	670	670	670	**122**	**12.1**	**120**	**45.5 J**	**4.8 J**	**31.3 J**	**24.7**
Benzoic acid	SW8270DSIM	650	650	650	650	**147**	99 U	99.4 U	983 U	96.9 U	998 U	190 U
Benzyl alcohol	SW8270DSIM	57	73	57	73	19.9 U	19.8 U	19.9 U	197 U	**4.5 J**	200 U	38.1 U
bis(2-Ethylhexyl)phthalate	SW8270D			1300	3100	**54.8**	49.5 U	49.7 U	491 U	**58.9**	**650**	**184**
Butylbenzyl phthalate	SW8270D			63	900	19.9 U	19.8 U	19.9 U	197 U	19.4 U	200 U	38.1 U
Diethyl phthalate	SW8270DSIM			200	1200	**14.4 J**	**10 J**	**12.2 J**	197 U	**10.1 J**	200 U	38.1 U
Dimethyl phthalate	SW8270DSIM			71	160	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	9.5 U
Di-n-butyl phthalate	SW8270D			1400	1400	**69.3**	**65.6**	**66.6**	197 U	19.4 U	200 U	38.1 U
Di-n-octyl phthalate	SW8270D			6200	6200	19.9 U	19.8 U	19.9 U	197 U	19.4 U	200 U	38.1 U
Hexachlorobenzene	SW8270DSIM			22	70	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	9.5 U
Hexachlorobutadiene	SW8270DSIM			11	120	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	9.5 U
n-Nitrosodiphenylamine	SW8270DSIM			28	40	5 U	4.9 U	5 U	49.1 U	4.8 U	49.9 U	9.5 U
Pentachlorophenol	SW8270DSIM	360	690	360	690	**50.6**	19.8 U	19.9 U	197 U	19.4 U	200 U	38.1 U
Phenol	SW8270DSIM	420	1200	420	1200	**19.5**	**8.2**	**13.8**	**69.1**	**11.5**	**114**	**43.4**
Polycyclic Aromatic Hydrocarbons (µg/kg)												
2-Methylnaphthalene	SW8270D			670	670	**142**	**54.7**	**102**	**452**	**19.3 J**	**230**	**75.8**
Acenaphthene	SW8270D			500	500	**279**	**124**	**192**	**861**	**52.5**	**269**	**95.4**
Acenaphthylene	SW8270D			1300	1300	**217**	**39.3**	**77.2**	**80.1 J**	**18 J**	**270**	**65.4**
Anthracene	SW8270D			960	960	**877**	**146**	**388**	**1830**	**115**	**971**	**269**
Benzo(a)anthracene	SW8270D			1300	1600	--	**144**	**588**	**3070**	**160**	**2290**	**600**
Benzo(a)pyrene	SW8270D			1600	1600	--	**184**	**544**	**3260**	**180**	**2050**	**605**
Benzo(b,j,k)fluoranthenes	SW8270D					--	**371**	**998**	**4870**	**334**	**4550**	**1240**
Benzo(g,h,i)perylene	SW8270D			670	720	**1140**	**109**	**205**	**2690**	**123**	**1300**	**362**
Chrysene	SW8270D			1400	2800	--	**248**	**837**	**3650**	**275**	**3580**	**756**
Dibenzo(a,h)anthracene	SW8270DSIM			230	230	**476**	**37.9**	**64.6**	**727**	**29**	**397**	**106**
Dibenzofuran	SW8270D			540	540	**195**	**49.1**	**117**	**634**	**29.5**	**192 J**	**84**
Fluoranthene	SW8270D			1700	2500	--	**357**	**1360**	**7740**	**817**	**10700**	**1850**
Fluorene	SW8270D			540	540	**319**	**57.1**	**193**	**1720**	**84.5**	**697**	**169**
Indeno(1,2,3-c,d)pyrene	SW8270D			600	690	**1170**	**98.9**	**199**	**2170**	**101**	**1180**	**311**
Naphthalene	SW8270D			2100	2100	**332**	**192**	**470**	**1230**	**74.9**	**533**	**139**
Phenanthrene	SW8270D			1500	1500	--	**249**	**1110**	**9740**	**455**	**3960**	**942**
Pyrene	SW8270D			2600	3300	**7950**	**1280**	**3160**	**8650**	**835**	**10300**	**2420**
Total Benzofluoranthenes (b,j,k) (U = 0)				3200	3600	--	**371**	**998**	**4870**	**334**	**4550**	**1240**
Total HPAH (SMS) (U = 0)				12000	17000	**10736**	**2829.8**	**7955.6**	**36827**	**2854**	**36347**	**8250**
Total LPAH (SMS) (U = 0)				5200	5200	**2024**	**807.4**	**2430.2**	**15461.1 J**	**799.9 J**	**6700**	**1679.8**
PCB Aroclors (mg/kg-OC)												
Total PCB Aroclors (SMS Marine 2013) (U = 0)		12	65			--	0.5909 U	--	--	--	--	**66.4674**
PCB Aroclors (µg/kg)												
Aroclor 1016	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U

13.224	36.106	37.313	--	--	--
34.474	138.053	220.896	--	814.679	26.743
62.895	144.248	187.313	--	--	8.853
224.1645	681.327	804.552	--	1159.541	49.376
47.8355	89.3628	92.5522	--	116.0826	23.032

4.3 J	3.6 J	4.1 J	--	2.9 J	5 U
5 U	4.9 U	4.9 U	--	4.9 U	5 U
15.2	99.3	29.5	--	20.6	4.7 J
7.4 J	5.7 J	11.1 J	--	13 J	15.8 J
8.1	4.2 J	9.6	--	9.5	5 U
144	23.3	35.8	--	33	309
130	98.9 U	42 J	--	36 J	99.4 U
19.9 U	9.3 J	36.3	--	32.3	15.1 J
314	421	466	--	490	49.7 U
19.9 U	12.9 J	26.5	--	19.8 U	19.9 U
8.4 J	13.2 J	9.6 J	--	9.5 J	11.7 J
5 U	4.9 U	8.6	--	3.7 J	5 U
11.8 J	46.9	52.9	--	70.5	18.3 J
19.9 U	19.8 U	19.7 U	--	19.8 U	19.9 U
5 U	4.9 U	4.9 U	--	4.9 U	5 U
5 U	4.9 U	4.9 U	--	4.9 U	5 U
5 U	4.9 U	11.2	--	4.9 U	5 U
6.5 J	8.6 J	21.2	--	9.6 J	19.9 U
242	15.7	30.2	--	24.2	154

35.7	28.2	38.8	--	50.2	157
45.4	50.3	35.6	--	78.8	1480
70.4	101	168	--	280	129
202	376	397	--	663	1890
223	545	656	--	1050	1520
389	720	1080	--	--	930
956	1630	2510	--	--	1930
164	229	274	--	1100	220
515	1340	1460	--	--	--
62.3	102	143	--	429	100
41.1	46.7	34.8	--	106	660
404	1330	1380	--	--	--
87.3	19.8 U	75.2	--	161	1130
170	243	318	--	1180	234
121	74.5	64.4	--	82.5	392
201	408	500	--	--	--
524	1560	2960	--	8880	5830
956	1630	2510	--	--	1930
3407.3	7699	10781	--	12639	10764
727.1	1009.8	1240.2	--	1265.3	5021

17.0461	47.6195	55.1269	--	35.0367	0.5656 J

4 U	39.6 U	7.8 U	--	7.9 U	7.9 U

Aroclor 1221	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U
Aroclor 1232	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U
Aroclor 1242	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U
Aroclor 1248	SW8082A					7.9 U	3.9 U	7.7 U	**60.2**	**12.9**	**266**	39.7 U
Aroclor 1254	SW8082A					**11.4**	3.9 U	**12.7**	**243**	**50.5**	**598**	**541**
Aroclor 1260	SW8082A					**17.8**	3.9 U	**44.1**	**229**	**50.6**	**523**	**682**
Aroclor 1262	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U
Aroclor 1268	SW8082A					7.9 U	3.9 U	7.7 U	19.7 U	4 U	39.4 U	39.7 U
Total PCB Aroclors (SMS Marine 2013) (U = 0)				130	1000	**29.2**	3.9 U	**56.8**	**532.2**	**114**	**1387**	**1223**
Dioxin Furans (ng/kg)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	E1613B					--	**0.235 JEMPC**	--	--	**0.195 JEMPC**	--	**1.96**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	E1613B					--	**0.298 JEMPC**	--	--	**0.658 J**	--	**20.3**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	E1613B					--	0.103 U	--	--	**0.543 J**	--	**17.1**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	E1613B					--	**0.325 JEMPC**	--	--	**3.89**	--	**108**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	E1613B					--	**0.224 JEMPC**	--	--	**1.93**	--	**27.4**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	E1613B					--	**6.64**	--	--	**105**	--	**1130**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	E1613B					--	**50.1**	--	--	**956**	--	**6110**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	E1613B					--	**0.732 J**	--	--	**0.526 J**	--	**7.09**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	E1613B					--	**0.411 J**	--	--	**0.504 JEMPC**	--	**5.96 EMPC**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	E1613B					--	**0.487 J**	--	--	**0.74 J**	--	**9.78 EMPC**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	E1613B					--	**0.338 JEMPC**	--	--	**2.08**	--	**35.2**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	E1613B					--	**0.294 JEMPC**	--	--	**0.804 J**	--	**17.5**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	E1613B					--	**0.243 JEMPC**	--	--	**0.873 J**	--	**15.3**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	E1613B					--	**0.379 J**	--	--	**0.461 J**	--	**10.8**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	E1613B					--	**3.35**	--	--	**24.8**	--	**321**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	E1613B					--	0.081 U	--	--	**1.58**	--	**28.5**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	E1613B					--	**14.8**	--	--	**121**	--	**1220**
Total Tetrachlorodibenzo-p-dioxin (TCDD)	E1613B					--	**4.44**	--	--	**3.28**	--	**704**
Total Pentachlorodibenzo-p-dioxin (PeCDD)	E1613B					--	**2.75**	--	--	**5.6**	--	**442**
Total Hexachlorodibenzo-p-dioxin (HxCDD)	E1613B					--	**4.74**	--	--	**36.2**	--	**1230**
Total Heptachlorodibenzo-p-dioxin (HpCDD)	E1613B					--	**15.8**	--	--	**308**	--	**2510**
Total Tetrachlorodibenzofuran (TCDF)	E1613B					--	**17.9**	--	--	**16.8**	--	**273**
Total Pentachlorodibenzofuran (PeCDF)	E1613B					--	**5.86**	--	--	**11.3**	--	**269**
Total Hexachlorodibenzofuran (HxCDF)	E1613B					--	**4.76**	--	--	**34.6**	--	**672**
Total Heptachlorodibenzofuran (HpCDF)	E1613B					--	**11.5**	--	--	**103**	--	**1230**
TEQ ng/kg (WHO 2005, U=1/2, Including EMPC)		EWW=25 TEQ				--	**0.51**		--	**3.78**	--	**66.21**

Notes:

TOC in range (0.5% - 3.5%)

Detected concentration is greater than SMS_Marine_SCO_SCUMII screening level

Detected concentration is greater than SMS_Marine_CSL_SCUMII screening level

TOC out of range or No TOC Analyzed

Detected concentration is greater than AET_Marine_SCO_SCUMII screening level

Detected concentration is greater than AET_Marine_CSL_SCUMII screening level

East Waterway Criteria

DF TEQ above the East Waterway RAL.

Bold = Detected result

J = Estimated value

U = Compound analyzed, but not detected above detection limit

4 U	39.6 U	7.8 U	--	7.9 U	7.9 U
4 U	39.6 U	7.8 U	--	7.9 U	7.9 U
4 U	39.6 U	7.8 U	--	7.9 U	7.9 U
32.4	**84.1**	**79.7**	--	**45.9**	7.9 U
92.7	**232**	**270**	--	**124**	**48.8 J**
134	**222**	**389**	--	**212**	**74.5**
4 U	39.6 U	7.8 U	--	7.9 U	7.9 U
4 U	39.6 U	7.8 U	--	7.9 U	7.9 U
259.1	**538.1**	**738.7**	--	**381.9**	**123.3 J**

0.396 JEMPC	**1.11**	0.735 U	**0.84 JEMPC**	1.01 U	1.43 U
1.82	**2.73**	**5.64 JEMPC**	**4.3**	**3.96 J**	**13**
2.2	**2.38**	**7.23 J**	**6.18**	**5.98 J**	**3.5 EMPC**
10.6	**51.8**	**38 J**	**35.9**	**26.4**	**15.6**
5.23	**6.74**	**14.7 J**	**5**	**10.5**	**6.52**
319	**1650**	**1470**	**1420**	**1190**	**143**
2930	**12200**	**12700**	**13200**	**12300**	**941**
1.4	**1.81 EMPC**	**11.9 J**	**3.51**	**2.19 JEMPC**	**6.39**
1.12	**1.23**	**3.28 J**	**2.25**	**1.82 JEMPC**	**5.58**
1.78	**2.31**	**5.12 JEMPC**	**3.92**	**2.55 JEMPC**	**13.8**
5.15	**8.72**	**15.5 J**	**11.3**	**7.63 JEMPC**	**12.7**
1.88	**5.39**	**5.63 J**	**4.77**	**2.97 J**	**15.9**
1.24	**2.07 EMPC**	**3.39 J**	**3.02 EMPC**	**2.51 J**	**4.24**
1.45	**2.3**	**5.57 JEMPC**	**3.86**	**3.17 JEMPC**	**15**
58	**360**	**169**	**151**	**91.5**	**102**
3.81	**17.2**	**11.4 J**	**9.79**	**6.79 JEMPC**	**5.39 EMPC**
194	**1510**	**599**	**515**	**334**	**439**
10.3	**276**	**31**	**22.3**	**6.81 J**	**122**
12.4	**43.2**	**40.7**	**26**	**18.5**	**108**
102	**340**	**467**	**455**	**346**	**171**
870	**3500**	**5190**	**5470**	**4950**	**109**
41.6	**51.2**	**90.9**	**60.1**	**40**	**455**
35.8	**62.1**	**101**	**59.1**	**50.9**	**618**
90	**480**	**252**	**273**	**150**	**465**
199	**1380**	**625**	**538**	**340**	**292**
10.44	**37.08**	**35.45**		**28.09**	**28.93**

Table No
Table Title

		Task	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019
		Location ID	T25-SC02	T25-SC02	T25-SC03
		Sample ID	T25-SC02-0-4.6	T25-SC52-0-4.6	T25-SC-03-0-5.7
		Sample Date	3/25/2019	3/25/2019	3/24/2019
		Depth	0 - 4.6 ft	0 - 4.6 ft	0-5.7
		Sample Type	N	FD	N
		Matrix	SE	SE	SE
		X	1267668.28	1267668.28	1267650.75
		Y	212812.47	212812.47	212756.49
		RCRA TCLP Metals			
Conventional Parameters (pct)					
Total Solids	SM2540G		**59.98**	**61.37**	**70.37**
TCLP Metals (SW1311) (µg/L)					
Arsenic	SW6010C	5,000	**79.3 J**	**52.4 J**	**40.4 J**
Barium	SW6010C	100,000	**155**	**375**	**169**
Cadmium	SW6010C	1,000	**4.5 J**	**3.3 J**	10 U
Chromium	SW6010C	5,000	25 U	25 U	25 U
Lead	SW6010C	5,000	100 U	100 U	100 U
Mercury	SW7470A	200	**0.046 J**	**0.041 J**	**0.017 J**
Selenium	SW6010C	1,000	250 U	250 U	250 U
Silver	SW6010C	5,000	**3.2 J**	15 U	15 U
Semivolatile Organics (µg/kg)					
1,2,4-Trichlorobenzene	SW8270DSIM		5 U	5 U	49.1 U
1,2-Dichlorobenzene	SW8270DSIM		5 U	5 U	49.1 U
1,4-Dichlorobenzene	SW8270DSIM		5 U	5 U	49.1 U
2,4-Dimethylphenol	SW8270DSIM		**11.1 J**	**12.8 J**	**23.2 J**
2-Methylphenol (o-Cresol)	SW8270DSIM		**7.3**	**10.1**	49.1 U
4-Methylphenol (p-Cresol)	SW8270DSIM		**122**	**120**	**45.5 J**
Benzoic acid	SW8270DSIM		**147**	99.4 U	983 U
Benzyl alcohol	SW8270DSIM		19.9 U	19.9 U	197 U

T25_SedChar2019
T25-SC04
T25-SC-04-0-4
3/24/2019
0-4
N
SE
1267597.9
212603.43

66.73

43.3 J
277
10 U
8 J
100 U
0.1 U
250 U
15 U

49.9 U
49.9 U
49.9 U
200 U
49.9 U
31.3 J
998 U
200 U

bis(2-Ethylhexyl)phthalate	SW8270D		**54.8**	49.7 U	491 U
Butylbenzyl phthalate	SW8270D		19.9 U	19.9 U	197 U
Diethyl phthalate	SW8270DSIM		**14.4 J**	**12.2 J**	197 U
Dimethyl phthalate	SW8270DSIM		5 U	5 U	49.1 U
Di-n-butyl phthalate	SW8270D		**69.3**	**66.6**	197 U
Di-n-octyl phthalate	SW8270D		19.9 U	19.9 U	197 U
Hexachlorobenzene	SW8270DSIM		5 U	5 U	49.1 U
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	SW8270DSIM		5 U	5 U	49.1 U
n-Nitrosodiphenylamine	SW8270DSIM		5 U	5 U	49.1 U
Pentachlorophenol	SW8270DSIM		**50.6**	19.9 U	197 U
Phenol	SW8270DSIM		**19.5**	**13.8**	**69.1**
Polycyclic Aromatic Hydrocarbons (µg/kg)					
2-Methylnaphthalene	SW8270D		**142**	**102**	**452**
Acenaphthene	SW8270D		**279**	**192**	**861**
Acenaphthylene	SW8270D		**217**	**77.2**	**80.1 J**
Anthracene	SW8270D		**877**	**388**	**1830**
Benzo(a)anthracene	SW8270D		--	**588**	**3070**
Benzo(a)pyrene	SW8270D		--	**544**	**3260**
Benzo(b,j,k)fluoranthenes	SW8270D		--	**998**	**4870**
Benzo(g,h,i)perylene	SW8270D		**1140**	**205**	**2690**
Chrysene	SW8270D		--	**837**	**3650**
Dibenzo(a,h)anthracene	SW8270DSIM		**476**	**64.6**	**727**
Dibenzofuran	SW8270D		**195**	**117**	**634**
Fluoranthene	SW8270D		--	**1360**	**7740**
Fluorene	SW8270D		**319**	**193**	**1720**
Indeno(1,2,3-c,d)pyrene	SW8270D		**1170**	**199**	**2170**
Naphthalene	SW8270D		**332**	**470**	**1230**
Phenanthrene	SW8270D		--	**1110**	**9740**
Pyrene	SW8270D		**7950**	**3160**	**8650**
Total Benzofluoranthenes (b,j,k) (U = 0)			--	**998**	**4870**
Total HPAH (SMS) (U = 0)			**10736**	**7955.6**	**36827**

Table No
Table Title

650
200 U
200 U
49.9 U
200 U
200 U
49.9 U
49.9 U
49.9 U
200 U
114

230
269
270
971
2290
2050
4550
1300
3580
397
192 J
10700
697
1180
533
3960
10300
4550
36347

Table No
Table Title

Total LPAH (SMS) (U = 0)			**2024**	**2430.2**	**15461.1 J**
PCB Aroclors (µg/kg)					
Aroclor 1016	SW8082A	--	7.9 U	7.7 U	19.7 U
Aroclor 1221	SW8082A	--	7.9 U	7.7 U	19.7 U
Aroclor 1232	SW8082A	--	7.9 U	7.7 U	19.7 U
Aroclor 1242	SW8082A	--	7.9 U	7.7 U	19.7 U
Aroclor 1248	SW8082A	--	7.9 U	7.7 U	**60.2**
Aroclor 1254	SW8082A	--	**11.4**	**12.7**	**243**
Aroclor 1260	SW8082A	--	**17.8**	**44.1**	**229**
Aroclor 1262	SW8082A	--	7.9 U	7.7 U	19.7 U
Aroclor 1268	SW8082A	--	7.9 U	7.7 U	19.7 U
Total PCB Aroclors (SMS Marine 2013) (U = 0)			**29.2**	**56.8**	**532.2**
Total Petroleum Hydrocarbons (mg/kg)					
Diesel range hydrocarbons	NWTPHDx		--	--	**221**
Motor oil range hydrocarbons	NWTPHDx		--	--	**345**

Notes:
Detected concentration is greater than AET_Marine_SCO_SCUMII screening level
Detected concentration is greater than MTCA Unrestricted Land Use Criteria

Bold = Detected result

J = Estimated value
U = Compound analyzed, but not detected above detection limit

Table No
Table Title

6700

39.4 U
39.4 U
39.4 U
39.4 U
266
598
523
39.4 U
39.4 U
1387

554
1120

Table No
Table Title

	Task	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019
	Location ID	T25-SC02	T25-SC04	T25-SC04	T25-SC04	T25-SC-05
	Sample ID	T25-SC02-4.6-5.6	T25-SC04-2-3	T25-SC04-4-5	T25-SC04-5-5.6	T25-SC05-0-1
	Sample Date	3/25/2019	3/24/2019	3/24/2019	3/24/2019	3/26/2019
	Depth	4.6 - 5.6 ft	2 - 3 ft	4 - 5 ft	5 - 5.6 ft	0 - 1 ft
	Sample Type	N	N	N	N	N
	Matrix	SE	SE	SE	SE	SE
	X	1267668.28	1267597.9	1267597.9	1267597.9	1267419.4
	Y	212812.47	212603.43	212603.43	212603.43	212412.09
Conventional Parameters (unitless)						
Specific gravity	D854	--	**2.57**	--	**2.65**	--
Conventional Parameters (pct)						
Moisture (water) content	D2216	--	**47.9**	--	**39.8**	--
Total Solids	SM2540G	**74.94**	--	**69.91**	--	**61.65**
Grain Size (pct)						
Percent retained 1.5 inch (1.5 inch sieve)	D422	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Gravel	D422	**1.7**	**5.9**	**22.9**	**0.6**	**4.6**
Sand	D422	**88.2**	**83.7**	**70.2**	**95.2**	**70.3**
Silt	D422	**8.3**	**9.6**	**5.4**	**4.3**	**21.4**
Clay	D422	**0.8**	**0.8**	**1.2**	0.1 U	**1.8**
Percent retained 1.3 micron sieve	D422	**0.8**	**0.8**	**1.2**	0.1 U	**1.8**
Percent retained 3.2 micron sieve	D422	**1.7**	**0.8**	**1.2**	**0.9**	**3.5**
Percent retained 7 micron sieve sieve	D422	**0.8**	**0.8**	**0.6**	**0.9**	**1.8**
Percent retained 9 micron sieve	D422	**0.8**	**0.8**	**0.6**	**0.9**	**2.6**
Percent retained 13 micron sieve	D422	**0.8**	**1.5**	**1.2**	**0.9**	**5.7**
Percent retained 22 micron sieve	D422	**2.5**	**1.5**	**1.2**	0.1 U	**2.6**
Percent retained 32 micron sieve	D422	**1.7**	**4.2**	**0.6**	**0.7**	**5.2**
Percent retained 75 micron sieve (#200)	D422	**7.4**	**5.1**	**6.3**	**3.2**	**5.6**
Percent retained 150 micron sieve (#100)	D422	**21.5**	**14.8**	**17.7**	**16.2**	**13.8**

Table No
Table Title

T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019	T25_SedChar2019
T25-SC-06	T25-SC-06	T25-SC07	T25-SC07	T25-SC08	T25-SC-09B	T25-SC-09B
T25-SC06-0-1	T25-SC56-0-1	T25-SC07-0-1	T25-SC07-1-2	T25-SC08-0-1	T25-SC09B-0-1	T25-SC09B-2-3
3/26/2019	3/26/2019	3/25/2019	3/25/2019	3/25/2019	3/26/2019	3/26/2019
0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	2 - 3 ft
N	FD	N	N	N	N	N
SE	SE	SE	SE	SE	SE	SE
1267525.53	1267525.53	1267571.79	1267571.79	1267624.89	1267749.02	1267749.02
212519.45	212519.45	212704.13	212704.13	212881.97	212873.88	212873.88
--	--	--	2.46	--	--	2.36
--	--	--	118.4	--	--	128.6
70.08	--	48.94	--	42	24.26	--
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7.2	2.7	0.1	2.3	1.7	1	0.8
76.7	80.5	24.3	36.4	31.9	7.9	13.6
13.8	15.2	65	55.7	59.3	78.8	79.1
0.1 U	0.1 U	3.6	0.1 U	1.4	1	2.2
0.1 U	0.1 U	3.6	0.1 U	1.4	1	2.2
2.3	2.8	7.2	5.5	4.3	4.1	6.5
0.8	0.9	3.6	3.7	2.9	5.1	6.5
1.5	1.9	5.4	1.8	1.4	7.1	6.5
3.5	1.9	3.6	5.5	6.4	6.1	10.8
1.9	2.8	10.8	5.5	2.1	4.1	4.3
3.8	4.9	34.4	33.7	42.2	52.3	44.5
4.5	4.7	4.1	5.6	2.9	1.8	3.1
12.2	13	4.6	5.8	1.9	1.1	2

Table No
Table Title

Percent retained 250 micron sieve (#60)	D422	**39.7**	**24**	**22.9**	**45.8**	**22.8**
Percent retained 425 micron sieve (#40)	D422	**14.9**	**20.2**	**12.2**	**26.3**	**16.3**
Percent retained 850 micron sieve (#20)	D422	**2.4**	**11.2**	**5.1**	**3.1**	**7**
Percent retained 2000 micron sieve (#10)	D422	**2.3**	**8.4**	**6**	**0.6**	**4.8**
Percent retained 4750 micron sieve (#4)	D422	**1.7**	**5.9**	**22.9**	**0.6**	**4.6**
Percent retained 0.375 inch (3/8 inch sieve)	D422	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Percent retained 0.5 inch (1/2 inch sieve)	D422	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Percent retained 0.75 inch (3/4 inch sieve)	D422	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Percent retained 1 inch (1 inch sieve)	D422	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Percent passing 1.3 micron sieve	D422	**0.8**	0.1 U	0.1 U	0.1 U	**1.8**

Notes:
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit

Table No
Table Title

25.7	**27.1**	**6.7**	**8.9**	**1.8**	**1.1**	**1.6**
23.1	**23.9**	**3.7**	**6.3**	**3.1**	**1.3**	**2.2**
6.6	**6.5**	**3**	**5.3**	**11.1**	**1.9**	**4.1**
4.6	**5.3**	**2.2**	**4.5**	**11.1**	**0.7**	**0.6**
7.2	**2.7**	**0.1**	**2.3**	**1.7**	**1**	**0.8**
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2.3	**1.9**	**7.2**	**5.5**	**5.7**	**11.2**	**4.3**

ED_006289_00009631-00016