Appendix A1
Analytical Method, CAS Number and Chemical Name
Sediments

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	16984-48-8	Fluoride	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
1630M	22967-92-6	Methyl Mercury	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	Dalapon
8151A	88-85-7	Dinitrobutyl Phenol	Dinoseb
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	

Appendix A1
Analytical Method, CAS Number and Chemical Name
Sediments

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	
8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	

Appendix A1
Analytical Method, CAS Number and Chemical Name
Sediments

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	

Appendix A1
Analytical Method, CAS Number and Chemical Name
Sediments

Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	
8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
NOAA S&T	1461-25-2	Tetrabutyltin	
NOAA S&T	688-73-3	Tributyltin	
NOAA S&T	77-58-7	Dibutyltin	
NOAA S&T	78763-54-9	Monobutyltn	

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5	SED-015-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010	12/21/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045	DE050
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoride	mg/kg	1.2	1.1 J	2.9 J	1.3	2.6 J	1.2 U	1.9 J	2.7 J	1.8	1.4	2	1.7	2.6	1.1 J	1.2 J
Aluminum	mg/kg	17400	14600	10400	27300	15200	30200	11300	12800	10700	8910	11500	7920	19000	11900	10200
Iron	mg/kg	20400	22100	14800	32800	19200	30300	17200	19500	19800	15400 J	18200	14400	27700	18700	15300
Lead	mg/kg	15.3 J	10 J	11 J	12.9 J	16.5 J	31.1 J	11.7 J	16.9 J	12.8	8.58	13.8 J	9.9 J	19.8 J	12.2 J	13.2 J
Lithium	mg/kg	23.8	29.2	20.3 J	34.3	22.6 J	26.5	18.2 J	23.9 J	26.2	23.2	23.4 J	17.6	32.2 J	21.1	21.2
Magnesium	mg/kg	4420	6260	3220	9100	4420	6430	3910	4440	5720	3720 J	4210	3640	6690	5030	3790
Manganese	mg/kg	440	332	190	398	287	454	277	293	306	301	330	209	524	274	257
Mercury	mg/kg	0.927	0.114 U	0.0761 J	0.0343 J	0.0309 J	0.0233 J	0.0257 J	0.106 J	0.022 J	0.0093 J	0.105 U	0.0078 J	0.0198 J	0.0209 J	0.0053 J
Methyl Mercury	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg	1.05 J	0.457 J	0.396 J	0.614 J	0.819 J	0.893 J	0.495 J	0.508 J	0.435	0.276	0.641 J	0.478 J	0.992 J	1.09 J	0.513 J
Nickel	mg/kg	16 J	12.1 J	11.2 J	21.8 J	17.6 J	21.8 J	12.8 J	12.3 J	14.7	8.35	12.9 J	9.76 J	21.7 J	14.4 J	12.7 J
Potassium	mg/kg	4070	3940	2930	6980	3360	5400	2880	3590	3270	2890 J	3370 J	2450	4530 J	3040	3150
Silver	mg/kg	0.0983 J	0.0286 J	0.0333 J	0.0368 J	0.0489 J	0.0845 J	0.0542 J	0.0811 J	0.0798 J	0.0232 J	0.0437 J	0.0246 J	0.0981 J	0.035 J	0.0473 J
Sodium	mg/kg	110 J	74.9 J	99.8 J	155	75.7 J	113 J	69.5 J	82.4 J	64 J	56.7 J	75.3 J	78.1 J	112 J	101 J	72.3 J
Strontium	mg/kg	27.2	13.6	14.6 J	67.1	15.8 J	32.8	24.3 J	19.3 J	22.9	13.2 J	18.4	10.3	24.5	26.6	23.9
Thallium	mg/kg	0.335	0.296	0.291 J	0.454	0.358 J	0.449	0.234 J	0.268 J	0.323	0.247	0.368 J	0.216	0.575 J	0.307	0.29
Tin	mg/kg	11.2 U	11.4 U	12.9 U	12.4 U	12 U	12 U	11.8 U	14.2 U	2.74 J	2.4 J	10.8 U	10.6 U	11.5 U	11.6 U	12.8 U
Titanium	mg/kg	1160	1360	856	1550	1140	1460	906	1110	997	873	1080	786	1550	1070	883
Antimony	mg/kg	0.118 J	0.111 J	0.265 UJ	0.113 J	0.24 UJ	0.174 J	0.234 UJ	0.297 UJ	0.118 J	0.233 UJ	0.221 UJ	0.1 J	0.219 UJ	0.101 J	0.0859 J
Arsenic	mg/kg	7.32 J	6.18 J	8.91 J	8.81 J	5.63 J	7.45 J	4.12 J	12.9 J	37.9	9.04 J	6.56 J	5.73 J	9.74 J	5.93 J	11.6 J
Beryllium	mg/kg	0.73	0.574	0.565	0.797	0.649	0.991	0.439	0.499	0.549	0.407	0.675 J	0.405	1.06 J	0.591	0.497
Barium	mg/kg	138	104	101 J	147	113 J	184	96.6 J	89.9 J	69.6	72.5 J	119 J	65.3	180 J	117	99.4
Boron	mg/kg	8.79	4.65 J	5.57 J	15.7	4.11 J	11.3	7.37	6.76 J	6.54 U	6.51	5.55	6.39	4.43 J	8.15	5.34 J
Cadmium	mg/kg	0.457 J	0.233 J	0.164 J	0.371 J	0.224 J	0.752 J	0.305 J	0.238 J	0.211	0.152	0.279 J	0.157 J	0.423 J	0.279 J	0.191 J
Chromium	mg/kg	26.7 J	20.4 J	17.3 J	43.6 J	25.3 J	38 J	16.5 J	16.3 J	19.1	11.8 J	20.1 J	15.3 J	37.4 J	22.9 J	18.7 J
Cobalt	mg/kg	7.38 J	5.89 J	6.47 J	11.6 J	6.97 J	10.3 J	5.12 J	5.85 J	6.53	4.17 J	6.24 J	4.48 J	9.87 J	8.83 J	5.55 J
Copper	mg/kg	13.2 J	8.69 J	8.4 J	17.8 J	11 J	17.7 J	10.8 J	10.2 J	11.2	5.42 J	9.7 J	7.46 J	15.4 J	10.8 J	9.12 J
Vanadium	mg/kg	48.4 J	42.4 J	36.5 J	83.9 J	43.7 J	68.9 J	32.3 J	31.2 J	32.4	23.9 J	41.7 J	32.1 J	69 J	47.2 J	36.1 J
Zinc	mg/kg	88.8	70.9	71.6 J	113	82.4 J	186	111 J	67.9 J	57.9	58	91.8 J	64.1	141 J	84.4	73.3
Zirconium	mg/kg	4.21 J	4.42 J	1.21 J	6.96	6 UJ	6.11	1.02 J	1.44 J	6.54 U	5.93 U	5.4 U	1.57 J	5.75 U	2.4 J	2.32 J
Calcium	mg/kg	5250	2940	2810	31400	2560	4880	3980	3610	8140	4260 J	3840	3220	4700	6160	5080
Phosphorus	mg/kg	423	501	378	641	451	526	427	415	474	378 J	457 J	327	449 J	441	399
Selenium	mg/kg	0.23 J	0.153 J	0.155 J	0.517	0.199 J	0.193 J	0.168 J	0.199 J	0.179 J	0.465 U	0.148 J	0.172 J	0.207 J	0.239 J	0.188 J
Chromium VI	mg/kg	1.1 U	0.25 J	1.4 U	0.37 J	0.6 J	0.35 J	1.2 U	1.5 U	1.3 U	1.2 U	0.6 J	0.56 J	0.95 J	0.32 J	1.3 U
Perchlorate (314.0)	ug/kg	34.1 U	35.9 U	40.6 U	37.1 U	37.1 U	37.5 U	36.5 U	29.4 J	39.2 U	36.6 U	33.1 U	31.8 U	34.5 U	35.3 U	39.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	5.5 U	--	--	--	--
Percent Moisture	%	12.1	16.4	26.1	19.2	19.1	19.9	17.8	32.7	23.5	18.1	9.3	5.8	13	15	23.2
Tetrabutyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5	SED-015-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010	12/21/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045	DE050
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dibutyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltn	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	pH unit	7.16	6.51	7.06	7.88	6.64	6.29	7.88	6.59	7.15	7.98	7.19	7.64	7.32	7.56	6.89

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-016-SIV-SD-0.0-0.5	SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5	SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5
Sample Date		12/15/2010	12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011	12/13/2010	12/13/2010
SDG		DE040	DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060	DE036	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoride	mg/kg	2	1.1	1.3	1.4	1.1	1.1 U	1.1	1.1 U	1.3	1.5	1.7 J	1.1 J	2 J	1.1 U	1.2 U
Aluminum	mg/kg	13900	12100	14800	16900	9110	9560	10800	10800	11500	11900	15500	12500	9630	10400	17700
Iron	mg/kg	19300 J	17500	20100 J	25200	14100	16900 J	19400	19900	22600	19900	22200	21200	18800	16900	26600
Lead	mg/kg	6 J	29.7 J	7.2 J	54.2 J	12.2 J	5.31 J	10.5 J	14.2 J	16.7 J	14	19.5 J	16.2 J	6.77	50.6 J	19.8 J
Lithium	mg/kg	22 J	22.2 J	27.1 J	26.8 J	22.5 J	19.8 J	24.1 J	22.7 J	24.5 J	22.2	25.7 J	24.6 J	22.6	18.5	28.8
Magnesium	mg/kg	4220 J	4030	4410 J	4990	3380	3980 J	4750	5070	5470	5230 J	4510	5510	4850	4470	5770
Manganese	mg/kg	260 J	270	306 J	269	206	239 J	293	297	309	311 J	340	308	246	255	399
Mercury	mg/kg	0.0469 J	0.0741 J	0.0097 J	0.574	0.0051 J	0.101 U	0.022 J	0.0082 J	0.0121 J	0.0102 J	0.614	0.0513 J	0.0904 J	0.038 J	0.0222 J
Methyl Mercury	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Molybdenum	mg/kg	0.377	0.865 J	0.468	3.69 J	0.497 J	0.222	0.611 J	0.678 J	0.57 J	0.508	0.94 J	0.731 J	0.291	0.694 J	0.876 J
Nickel	mg/kg	10.3 J	15.7 J	9.7 J	23.5 J	11.1 J	6.99 J	12.6 J	14 J	14.2 J	15.3	15 J	15.8 J	9.52	15.1 J	22.2 J
Potassium	mg/kg	2780 J	3590 J	3880 J	3540 J	2480 J	2920 J	3120 J	3290 J	3150 J	3320 J	3830 J	3150 J	2750	2610	5000
Silver	mg/kg	0.0265 J	0.141 J	0.0255 J	0.267 J	0.0561 J	0.017 J	0.0842 J	0.0467 J	0.06 J	0.04 J	0.575 J	0.146 J	0.037 J	0.147 J	0.0806 J
Sodium	mg/kg	89.4 J	79.4 J	71.2 J	136	60.8 J	63.5 J	79.9 J	67.3 J	68.9 J	67.1 J	112 J	86.1 J	65.7 J	86.8 J	78.9 J
Strontium	mg/kg	14 J	23.6	14.8 J	26.2	12.8	7.16 J	16.3	15.5	15.2	17.9	20.6	18	12	45.6	29.1
Thallium	mg/kg	0.214	0.387 J	0.234	0.505 J	0.284 J	0.156	0.377 J	0.357 J	0.3 J	0.24	0.465 J	0.347 J	0.191	0.188	0.394
Tin	mg/kg	11.2 U	11.1 U	11 U	13 U	10.7 U	10.3 U	10.6 U	10.9 U	11.2 U	10.8 U	11.5 U	11.6 U	2.53 J	10.6 U	11.5 U
Titanium	mg/kg	1270	1080	1260	1270	868	1130	1200	1250	1350	1250 J	1290	1250	1070	1020	1460
Antimony	mg/kg	0.219 UJ	0.222 UJ	0.22 UJ	0.931 J	0.209 UJ	0.203 UJ	0.246 U	0.235 U	0.223 U	0.136 J	0.23 U	0.227 U	0.278 U	0.191 J	0.115 J
Arsenic	mg/kg	4.07 J	7.45 J	4.12 J	11.1 J	4.71 J	2.43 J	5.23 J	6.07 J	4.96 J	4.21 J	6.61 J	6.17 J	2.87	6.15 J	7.83 J
Beryllium	mg/kg	0.468	0.735 J	0.486	1.07 J	0.548 J	0.274	0.438 J	0.472 J	0.455 J	0.488	0.666 J	0.5 J	0.365	0.463 J	0.785 J
Barium	mg/kg	69.7 J	136 J	80.1 J	183 J	95.9 J	62.3 J	110 J	122 J	99.6 J	118 J	150 J	126 J	64.4	100 J	202 J
Boron	mg/kg	4.3 J	5.92	5.74	6.31 J	3.88 J	3.56 J	4.54 J	4.1 J	3.73 J	9.33	4.12 J	4.15 J	6.88 U	4.76 J	7.59
Cadmium	mg/kg	0.154	0.743 J	0.166	2.23 J	0.311 J	0.08 J	0.358 UJ	0.216 UJ	0.251 UJ	0.202	0.26 UJ	0.259 UJ	0.208	0.902 J	0.461 J
Chromium	mg/kg	17.9 J	30.3 J	15.9 J	40.2 J	19 J	12.5 J	22.4 J	23.2 J	21.8 J	24.1	24.3 J	26.8 J	15.9	23 J	33.4 J
Cobalt	mg/kg	4.65 J	7.3 J	4.39 J	11.2 J	5.25 J	3.62 J	8.04 J	7.05 J	7.26 J	6.33 J	7.27 J	7.14 J	5.06	6.94 J	9.86 J
Copper	mg/kg	6.7	16 J	6.16	50.5 J	8.77 J	4.44	9.68 J	10.5 J	10.3 J	10.6	11.3 J	10.6 J	6.44	17.8 J	18.1 J
Vanadium	mg/kg	32.7 J	52.1 J	28.6 J	68.2 J	38.2 J	26.8 J	44.8 J	48.9 J	48.1 J	47 J	46.8 J	54.9 J	32.6	41.3	56.4
Zinc	mg/kg	62.4 J	117 J	54.9 J	308 J	96.5 J	42.6 J	99 J	93.4 J	82.8 J	70.5	105 J	88.1 J	52.6	174	122
Zirconium	mg/kg	1.3 J	1.45 J	1.38 J	1.15 J	5.33 U	5.17 U	0.9 J	1.16 J	1.51 J	1.29 J	5.74 U	1.31 J	2.1 J	5.32 U	1.44 J
Calcium	mg/kg	2450 J	5400	3310 J	3050	2190	1820 J	3690	4000	3960	3940 J	3130	3280	3900	23900	4700
Phosphorus	mg/kg	299 J	475 J	394 J	707 J	310 J	324 J	390 J	405 J	434 J	470	437 J	446 J	478	403	700
Selenium	mg/kg	0.0957 J	0.12 J	0.155 J	0.202 J	0.0829 J	0.0924 J	0.184 J	0.313 J	0.206 J	0.16 J	0.177 J	0.225 J	0.124 J	0.144 J	0.209 J
Chromium VI	mg/kg	0.81 J	0.56 J	0.34 J	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	0.29 J	1.1 U	0.7 J
Perchlorate (314.0)	ug/kg	33.5 U	33.9 U	33.3 U	40.4 U	32.6 U	31.6 U	32.5 U	33.6 U	34.4 U	33.5 U	34.8 U	34.7 U	42.5 U	33.2 U	35.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.4 U	--	--	--	5.7 U	--	--	--	--	--	--
Percent Moisture	%	10.4	11.5	9.9	25.8	8	5.1	7.6 7.6	10.8 10.8	12.8 12.8	10.4	13.8 13.8	13.6 13.6	29.4	9.7	16.3
Tetrabutyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tributyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-016-SIV-SD-0.0-0.5	SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5	SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5
Sample Date		12/15/2010	12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011	12/13/2010	12/13/2010
SDG		DE040	DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060	DE036	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dibutyltin	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monobutyltn	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	pH unit	7	7.92	7.25	4.76	6.84	6.92	7.07	7.02	6.78	7.56	7.28	6.96	7.41	7.35	7.22

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5	SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/13/2010	12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE036	DE037	DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoride	mg/kg	1.4	1.7	0.9 J	2 J	2.9 J	1.6	2.4 J	1.3	1.3	1.1 U
Aluminum	mg/kg	10300	10300	7300	8990	10600	22100	14100	12600	9390	11700
Iron	mg/kg	17000	17800	13900	15700	14800	31800	18600	17600	15400	18700
Lead	mg/kg	20.2 J	25 J	15 J	12.7 J	21	18.6 J	49 J	12 J	10.3 J	10.8 J
Lithium	mg/kg	19.5	19.4	14.9	22.6 J	15.9	42.9	20.8 J	19.7	21.5	21.6
Magnesium	mg/kg	3910	4130	3090	3960	3220	7270	4530	4300	3420	4180
Manganese	mg/kg	234	254	247	218	232	389	306	267	230	252
Mercury	mg/kg	0.0049 J	0.0148 J	0.0998 U	0.121 U	0.0187 J	0.0109 J	0.021 J	0.0059 J	0.125 U	0.0039 J
Methyl Mercury	ug/kg	--	--	--	--	0.452	--	--	--	--	--
Molybdenum	mg/kg	0.584 J	0.707 J	0.691 J	0.357 J	1.59 J	0.783 J	0.676 J	0.56 J	0.364 J	0.471 J
Nickel	mg/kg	15.1 J	17.6	21.6	9.34 J	13.5 J	28 J	18.6 J	13.7 J	11.6 J	13 J
Potassium	mg/kg	2850	2790 J	1810 J	2630	2260 J	4840	3310	3270	3100	3390
Silver	mg/kg	0.0557 J	1.39 J	0.329 J	0.0249 J	0.315 J	0.161	0.127 J	0.0475 J	0.0238 J	0.0217 J
Sodium	mg/kg	54.3 J	78.8 J	64.8 J	56.6 J	161 J	93.5 J	121 J	61.9 J	59.6 J	62.3 J
Strontium	mg/kg	16.1	18.3	9.87	8.22 J	37.7	20.4	27 J	14.3	11.1	13.8
Thallium	mg/kg	0.302	0.298	0.435	0.252 J	0.265 J	0.585	0.321 J	0.267	0.268	0.31
Tin	mg/kg	10.7 U	11.2 U	10.2 U	12.6 U	16.6 U	12.6 U	13.7 U	11.4 U	13 U	10.7 U
Titanium	mg/kg	1200	1030	759	826	912	1440	1030	1030	821	1120
Antimony	mg/kg	0.22 R	0.192 J	0.286 J	0.247 UJ	0.437 J	0.203 J	0.266 UJ	0.0951 J	0.258 UJ	0.218 R
Arsenic	mg/kg	5.9 J	8.28 J	9.5 J	5.3 J	4.36 J	15.7 J	5.93 J	5.11 J	6.51 J	4.31 J
Beryllium	mg/kg	0.546 J	0.616	0.782	0.459	0.48 J	1.07	0.677	0.555	0.513	0.503 J
Barium	mg/kg	112 J	112 J	133 J	76.1 J	110 J	154	124 J	106	106	120 J
Boron	mg/kg	6.11	4.97 J	3.23 J	5.57 J	8.28 U	9.31	8.62	4.94 J	3.97 J	5.27 J
Cadmium	mg/kg	0.255 J	0.249 J	0.15 J	0.167 J	0.732 J	0.285 J	0.397 J	0.248 J	0.125 J	0.192 J
Chromium	mg/kg	25.1 J	25.4	36.8	13 J	15.4 J	41.7 J	23.8 J	24 J	18.3 J	20.5 J
Cobalt	mg/kg	7.18 J	6.3	7.49	4.99 J	3.92 J	13.1 J	7.03 J	6.49 J	6.8 J	6.78 J
Copper	mg/kg	12.7 J	13.1	15.8	6.53 J	13.1 J	22.4 J	12.8 J	9.33 J	7.54 J	9.21 J
Vanadium	mg/kg	44.2	42.8	58	27.7 J	34.3 J	79.5 J	46.2 J	44.4 J	37 J	41.7
Zinc	mg/kg	89.1	109 J	118 J	93.8 J	209 J	142	238 J	76.5	75.6	77.6
Zirconium	mg/kg	0.92 J	1.22 J	5.1 U	6.3 U	2.73 J	5.96 J	1.54 J	2.81 J	2.19 J	1.05 J
Calcium	mg/kg	3000	3360	1710	2330	11800 J	5580	4920	2530	2200	2320
Phosphorus	mg/kg	374	386 J	267 J	404	509 J	561	449	362	357	408
Selenium	mg/kg	0.151 J	0.168 J	0.209 J	0.143 J	0.22 J	0.49 J	0.266 J	0.161 J	0.136 J	0.129 J
Chromium VI	mg/kg	1.1 U	1.1 U	1.1 U	1.3 U	1.7 U	0.43 J	0.63 J	1.1 U	0.29 J	0.44 J
Perchlorate (314.0)	ug/kg	33.3 U	34.3 U	31.8 U	38.6 U	49.7 U	37.9 U	41.9 U	34.3 U	39.8 U	32.7 U
Perchlorate (6850)	ug/kg	--	5.7 U	--	--	--	--	--	--	--	--
Percent Moisture	%	10	12.6	5.8 U	22.2	39.6	20.9	28.4	12.6	24.6	8.3
Tetrabutyltin	ug/kg	--	--	--	--	3.2 U	--	--	--	--	--
Tributyltin	ug/kg	--	--	--	--	2.9 U	--	--	--	--	--

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A2
Metals and Inorganics - Validated Data
Sediments

Sample Name		SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5	SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/13/2010	12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE036	DE037	DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dibutyltin	ug/kg	--	--	--	--	2.5 U	--	--	--	--	--
Monobutyltn	ug/kg	--	--	--	--	9.5 UJ	--	--	--	--	--
pH	pH unit	6.92	8.48	8	6.61	7.19	7.19	7.3	6.94	7.02	7.01

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A3
PCBs and Dioxins - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5	SED-015-SIV-SD-0.0-0.5	SED-016-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010	12/21/2010	12/15/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045	DE050	DE040
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0787 J	1.2 U	0.108 J	1.24 U	1.24 UJ	0.0794 J	0.13 J	1.49 U	1.31 U	0.0453 J	0.12 J	1.06 U	0.0815 J	0.217 J	1.3 U	0.12 J
1,2,3,7,8,9-HxCDD	ng/kg	1.21 J	5.98 U	6.77 U	6.19 U	0.99 J	1.51 J	1.39 J	1.28 J	0.354 J	0.368 J	1.06 J	5.31 U	3 J	14.7	0.524 J	5.06 J
OCDD	ng/kg	236	13.8	223	240	62.3	259	337	180	54.6	58.4	314	153	869	49800 J	65.2	7800 J
1,2,3,4,6,7,8-HpCDD	ng/kg	27.7	2.08 J	22.1	21.9	8.71	29	46.2	18.9	7.27	7.16	32.2	15.8	93	4430 J	5.17 J	735
OCDF	ng/kg	4.93 J	12 U	8.23 J	52.6	3.16 J	9.52 J	9.62 J	7.73 J	2.84 J	2.13 J	10.8 J	5.17 J	28.3	2920	2.04 J	177
1,2,3,4,7,8-HxCDD	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	0.782 J	7.43 U	0.183 J	6.11 U	0.511 J	5.31 U	1.48 J	8.92	0.281 J	2.18 J
1,2,3,7,8-PeCDD	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	0.58 J	7.43 U	0.245 J	0.22 J	0.432 J	5.31 U	0.847 J	2.8 J	0.419 J	0.82 J
2,3,7,8-TCDF	ng/kg	1.76	0.112 J	0.719 J	1.24 U	4.44	1.1 J	0.307 J	1.1 J	0.338 J	1.22 U	1.1 U	1.06 U	0.355 J	0.384 J	0.349 J	0.0902 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	1 J	7.43 U	6.54 U	6.11 U	0.462 J	5.31 U	1.11 J	85.3	0.314 J	11.7
2,3,4,7,8-PeCDF	ng/kg	1.66 J	5.98 U	6.77 U	6.19 U	6.18 U	1.28 J	2.16 J	1.17 J	0.956 J	0.397 J	0.515 J	5.31 U	0.68 J	5.88 U	0.787 J	5.58 U
1,2,3,7,8-PeCDF	ng/kg	11.7	5.98 U	1.98 J	6.19 U	2.12 J	1.38 J	0.751 J	3.1 J	0.618 J	6.11 U	0.307 J	5.31 U	0.551 J	5.88 U	0.452 J	0.363 J
1,2,3,6,7,8-HxCDF	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	1.8 J	7.43 U	0.282 J	6.11 U	5.51 U	5.31 U	0.743 J	12.4	0.373 J	2.82 J
1,2,3,6,7,8-HxCDD	ng/kg	1.56 J	0.149 J	1.06 J	0.85 J	0.918 J	1.69 J	2.45 J	1.37 J	0.49 J	0.467 J	1.4 J	5.31 U	3.74 J	83.8	0.511 J	20.7
2,3,4,6,7,8-HxCDF	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	1.9 J	7.43 U	6.54 U	6.11 U	5.51 U	5.31 U	0.972 J	12.9	0.51 J	4.66 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.69 U	0.578 J	6.77 U	17.4	6.18 U	6.24 U	8.14	7.43 U	1.52 J	1.09 J	5.49 J	5.31 U	14.3	455	1.12 J	75.4
1,2,3,4,7,8-HxCDF	ng/kg	1.12 J	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	3.3 J	7.43 U	0.531 J	0.287 J	5.51 U	5.31 U	0.855 J	18.1	0.334 J	2.42 J
1,2,3,7,8,9-HxCDF	ng/kg	5.69 U	5.98 U	6.77 U	6.19 U	6.18 U	6.24 U	0.69 J	7.43 U	6.54 U	6.11 U	5.51 U	5.31 U	5.75 U	2.86 J	0.331 J	0.495 J
Aroclor 1260	ug/kg	18 J	0.65 J	45	2.1	4.2 J	4.9	27	25 U	3.3 J	1.2 J	1.1 J	1.8 U	3.3	1.9 J	0.71 J	4
Aroclor 1254	ug/kg	43 J	2 U	63	3.2	12 J	4.8	3.1 J	300	3.7 J	2 J	2.2	1.8 U	5.9	4.4	2.4 J	1.9 U
Aroclor 1268	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 1221	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 5460	ug/kg	8.2 J	1.3 J	22 UJ	4.1 UJ	8 J	7.6 J	9.6 J	49 UJ	3 J	4 U	2.6 J	3.5 UJ	4.7 J	4.8 J	1.6 J	4.6
Aroclor 1232	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 5442	ug/kg	7.5 UJ	3.9 UJ	22 UJ	4.1 UJ	8.2 UJ	4.1 UJ	8 UJ	49 UJ	4.3 UJ	4 U	3.6 UJ	3.5 UJ	3.8 UJ	3.9 UJ	4.3 UJ	3.7 U
Aroclor 1248	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 1016	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 1262	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 1242	ug/kg	3.9 U	2 U	12 U	2.1 U	4.2 U	2.1 U	4.1 U	25 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Aroclor 5432	ug/kg	7.5 UJ	3.9 UJ	22 UJ	4.1 UJ	8.2 UJ	4.1 UJ	8 UJ	49 UJ	4.3 UJ	4 U	3.6 UJ	3.5 UJ	3.8 UJ	3.9 UJ	4.3 UJ	3.7 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A3
PCBs and Dioxins - Validated Data
Sediments

Sample Name		SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5	SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5	SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5
Sample Date		12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010
SDG		DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060	DE036	DE036	DE036	DE037
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.19 J	0.0408 J	2.18	0.284 J	0.0453 J	0.184 J	1.12 U	1.15 U	1.12 U	1.16 U	1.16 U	1.42 U	0.187 J	1.19 U	0.0302 J	0.228
1,2,3,7,8,9-HxCDD	ng/kg	5.15 J	0.458 J	26.7	5.57	0.745 J	1.93 J	0.391 J	0.43 J	5.58 U	1.6 J	0.471 J	0.156 J	4.22 J	0.836 J	1.18 J	3.68
OCDD	ng/kg	3550	191	24600 J	2980	565	1310	29.8	32	31.4	1490	148	31.3	1970	381	1310	982
1,2,3,4,6,7,8-HpCDD	ng/kg	419	16.4	1720	293	54.5	136	5.1 J	5 J	4.55 J	76.7	11.3	2.91 J	182	40.6	103	86.8
OCDF	ng/kg	82.4	8.78 J	703	87.8	21	80.4	11.2 U	2.24 J	11.2 U	50.3	8.78 J	1.72 J	106	21.5	99.4	43.1 U
1,2,3,4,7,8-HxCDD	ng/kg	4.07 J	0.202 J	16	2.51 J	0.391 J	0.986 J	5.61 U	5.73 U	5.58 U	0.684 J	5.79 U	0.123 J	2.99 J	0.368 J	0.578 J	5.72 U
1,2,3,7,8-PeCDD	ng/kg	0.963 J	0.19 J	4.86 J	1.07 J	0.17 J	0.532 J	5.61 U	5.73 U	5.58 U	0.376 J	5.79 U	7.08 U	1.15 J	5.97 U	0.385 J	1.4 J
2,3,7,8-TCDF	ng/kg	0.501 J	0.128 J	9.59	0.492 J	1.05 U	0.473 J	0.366 J	0.324 J	1.12 U	0.426 J	0.384 J	0.0948 J	1.03 J	1.19 U	0.331 J	0.556 J
1,2,3,4,7,8,9-HpCDF	ng/kg	3.16 J	5.55 U	21.9	4.32 J	0.816 J	2.68 J	5.61 U	5.73 U	5.58 U	0.727 J	5.79 U	7.08 U	1.99 J	5.97 U	1.07 J	1.13 J
2,3,4,7,8-PeCDF	ng/kg	1.11 J	0.461 J	9.6	0.802 J	5.27 U	0.792 J	0.57 J	0.583 J	5.58 U	0.871 J	0.736 J	0.266 J	4.53 J	0.844 J	0.812 J	5.72 U
1,2,3,7,8-PeCDF	ng/kg	0.661 J	0.26 J	18.1	0.971 J	0.192 J	0.657 J	0.307 J	0.275 J	5.58 U	1.91 J	0.588 J	0.206 J	10.6	1.71 J	1.21 J	5.72 U
1,2,3,6,7,8-HxCDF	ng/kg	1.35 J	0.196 J	11.4	1.4 J	0.343 J	1.06 J	5.61 U	5.73 U	5.58 U	0.673 J	0.387 J	7.08 U	2.44 J	0.326 J	0.541 J	5.72 U
1,2,3,6,7,8-HxCDD	ng/kg	15.1	0.619 J	62.8	10.9	2.24 J	5.6	0.421 J	0.441 J	5.58 U	4.59 J	0.721 J	0.226 J	6.88	1.12 J	3.05 J	4.48 J
2,3,4,6,7,8-HxCDF	ng/kg	2.2 J	5.55 U	13.7	2.26 J	0.513 J	1.35 J	5.61 U	5.73 U	5.58 U	0.683 J	5.79 U	7.08 U	3.27 J	0.674 J	0.768 J	1.46
1,2,3,4,6,7,8-HpCDF	ng/kg	38.5	2.93 J	239	36.6	9.15	29.1	0.994 J	1.22 J	5.58 U	13.4	3.24 J	7.08 U	29.4	7.35	22.8	14.6 J
1,2,3,4,7,8-HxCDF	ng/kg	1.31 J	5.55 U	11.8	1.31 J	5.27 U	0.858 J	5.61 U	5.73 U	5.58 U	0.673 J	0.418 J	7.08 U	2 J	0.523 J	0.593 J	5.72 U
1,2,3,7,8,9-HxCDF	ng/kg	0.332 J	5.55 U	2.48 J	0.322 J	5.27 U	5.41 U	5.61 U	5.73 U	5.58 U	5.8 U	5.79 U	7.08 U	0.718 J	5.97 U	5.56 U	0.369
Aroclor 1260	ug/kg	6.9	1.1 J	180	10	36 U	37 U	0.7 J	1.5 J	1.9 U	12 J	3.1 U	2.4 U	19 U	5.6	5.3 J	9.5
Aroclor 1254	ug/kg	4.1	1.1 J	99	2.5 J	36 U	37 U	1.4 J	2.4 J	1.2 J	18 J	11 J	1.5 J	180	6.3	8.4 J	18
Aroclor 1268	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 1221	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 5460	ug/kg	13 J	3.7	130 J	6.6 J	70 U	71 UJ	3.7 UJ	3.1 J	3.7 UJ	22 J	3.6 J	4.7 UJ	170 J	6.7 J	9.3 J	8.5
Aroclor 1232	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 5442	ug/kg	7.5 UJ	3.7 U	44 UJ	7.2 UJ	70 U	71 UJ	3.7 UJ	3.8 UJ	3.7 UJ	7.7 UJ	7.6 UJ	4.7 UJ	37 UJ	7.9 UJ	18 UJ	7.6 U
Aroclor 1248	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	17 J	6 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 1016	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 1262	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 1242	ug/kg	3.8 U	1.9 U	23 U	3.7 U	36 U	37 U	1.9 U	1.9 U	1.9 U	3.9 U	3.9 U	2.4 U	19 U	4.1 U	9.4 U	3.9 U
Aroclor 5432	ug/kg	7.5 UJ	3.7 U	44 UJ	7.2 UJ	70 U	71 UJ	3.7 UJ	3.8 UJ	3.7 UJ	7.7 UJ	7.6 UJ	4.7 UJ	37 UJ	7.9 UJ	18 UJ	7.6 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A3
PCBs and Dioxins - Validated Data
Sediments

Sample Name		SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.103	1.29 U	0.209 J	1.26 U	0.139 J	0.145 J	1.33 U	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	2.01	6.43 U	2.69 J	6.32 U	2.4 J	6.93	6.63 U	0.493 J
OCDD	ng/kg	407	21.4	924	6.76 J	692	1750	18.1	312
1,2,3,4,6,7,8-HpCDD	ng/kg	45.6	3.56 J	91.1	1.22 J	95.9	262	2.51 J	25.3
OCDF	ng/kg	20.7 U	12.9 U	30.1	12.6 U	8.47 J	43.7	13.3 U	15.5
1,2,3,4,7,8-HxCDD	ng/kg	5.31 U	6.43 U	1.31 J	6.32 U	0.876 J	2.89 J	0.114 J	0.283 J
1,2,3,7,8-PeCDD	ng/kg	0.874 J	6.43 U	0.874 J	6.32 U	6.98 U	1.51 J	0.223 J	0.316 J
2,3,7,8-TCDF	ng/kg	0.227 J	1.29 U	2.92	0.175 J	1.19 J	0.217 J	0.172 J	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.643 J	6.43 U	1.18 J	6.32 U	6.98 U	2.1 J	6.63 U	5.45 U
2,3,4,7,8-PeCDF	ng/kg	5.31 U	6.43 U	0.96 J	6.32 U	1.16 J	0.598 J	6.63 U	0.336 J
1,2,3,7,8-PeCDF	ng/kg	5.31 U	6.43 U	0.734 J	6.32 U	1.57 J	0.274 J	6.63 U	0.323 J
1,2,3,6,7,8-HxCDF	ng/kg	5.31 U	6.43 U	0.736 J	6.32 U	6.98 U	0.665 J	6.63 U	5.45 U
1,2,3,6,7,8-HxCDD	ng/kg	5.31 U	6.43 U	3.48 J	6.32 U	3.8 J	12.1	0.257 J	1.09 J
2,3,4,6,7,8-HxCDF	ng/kg	1.07	6.43 U	0.983 J	6.32 U	6.98 U	1.07 J	6.63 U	5.45 U
1,2,3,4,6,7,8-HpCDF	ng/kg	9.94 J	6.43 U	12	6.32 U	6.98 U	17.5	0.459 J	4.46 J
1,2,3,4,7,8-HxCDF	ng/kg	5.31 U	6.43 U	0.975 J	6.32 U	6.98 U	0.67 J	6.63 U	5.45 U
1,2,3,7,8,9-HxCDF	ng/kg	0.217	6.43 U	8.12 U	6.32 U	6.98 U	0.358 J	6.63 U	5.45 U
Aroclor 1260	ug/kg	2.1 J	1.3 J	3.2	0.77 J	4.7 U	1 J	1.3 J	4.3
Aroclor 1254	ug/kg	1.7 J	1.7 J	2.8 U	2.1 U	88	1.9 U	4.2 J	2.4
Aroclor 1268	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 1221	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 5460	ug/kg	7 U	1.5 J	3.9 J	4.2 UJ	140 J	2.8 J	2.1 J	4.2 J
Aroclor 1232	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 5442	ug/kg	7 U	4.2 UJ	5.5 U	4.2 UJ	9.2 UJ	3.8 UJ	4.4 UJ	3.6 UJ
Aroclor 1248	ug/kg	3.6 U	2.2 U	6.8	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 1016	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 1262	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 1242	ug/kg	3.6 U	2.2 U	2.8 U	2.1 U	4.7 U	1.9 U	2.3 U	1.9 U
Aroclor 5432	ug/kg	7 U	4.2 UJ	5.5 U	4.2 UJ	9.2 UJ	3.8 UJ	4.4 UJ	3.6 UJ

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A4
Herbicides and Pesticides - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5	SED-015-SIV-SD-0.0-0.5	SED-016-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010	12/21/2010	12/15/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045	DE050	DE040
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.9 U	2 UJ	2.3 U	2.1 U	2.1 U	2 J	2.1 U	2.5 U	2.2 U	2.1 U	1.9 U	1.8 U	2 U	2 U	2.2 U	1.9 U
Dicamba	ug/kg	1.9	1.4 UJ	1.6 U	1.5 U	1.5 U	0.78 J	1.5 U	1.8 U	1.6 U	0.74 U	0.59 J	0.77 J	0.78 J	1.4 U	1.6 U	1.3 U
2,2-Dichlor-Propionic Ac	ug/kg	10 U	11 U	12 UJ	11 U	11 UJ	11 U	11 U	13 U	12 U	11 U	9.9 U	9.6 U	10 U	11 U	12 U	10 U
Dinitrobutyl Phenol	ug/kg	2.7 R	2.9 R	3.2 UJ	3 R	3 UJ	3 R	2.9 U	3.6 U	3.1 R	2.9 R	2.6 R	2.5 R	2.8 R	2.8 R	3.1 R	2.7 R
MCPP	ug/kg	280 U	300 U	220 J	310 U	310 U	360	300 U	370 U	340 R	310 U	280 U	240 J	290 U	290 U	330 U	430
2,4,5-TP	ug/kg	0.19 U	0.2 UJ	0.23 U	0.21 U	0.21 UJ	0.21 U	0.21 U	0.25 U	0.22 U	0.21 U	0.19 U	0.18 U	0.2 U	0.2 U	0.22 U	0.2
2,4,5-T	ug/kg	0.19 U	0.2 U	0.23 U	0.21 U	0.21 U	0.21 U	0.21 U	0.25 U	0.22 U	0.21 U	0.19 U	0.18 U	0.2 U	0.2 U	0.22 U	0.19 U
MCPA	ug/kg	490 U	300 U	340 J	310 U	310 U	390	300 U	370 U	1700 U	310 U	280 U	270 U	870	580 U	330 U	430
2,4-D	ug/kg	4.1 U	4.3 U	4.9 UJ	4.5 U	4.4 UJ	4.5 U	4.4 U	5.3 U	4.7 U	4.4 U	1.9 J	3.8 U	4.1 U	4.2 U	4.7 U	4 U
2,4 DB	ug/kg	1.9 U	3.7 U	2.3 U	2.1 U	4.6 U	2.1 U	2.3 J	3.4 U	3.5 R	2.1 U	8.9 U	6.9 U	2 U	7.5 U	2.2 U	3.2 U
Toxaphene	ug/kg	7.5 U	7.9 U	8.9 U	8.2 R	8.2 UJ	8.2 UJ	8 UJ	9.8 R	8.6 UJ	8.1 U	7.3 U	7 U	7.6 U	7.8 U	8.6 U	7.4 U
Heptachlor Epoxide	ug/kg	0.45 U	0.2 U	0.74 U	0.21 R	0.21 UJ	0.21 UJ	0.24 U	0.64 R	0.22 UJ	0.2 U	0.45 U	0.18 U	0.19 U	0.2 U	0.22 U	0.19 U
Endosulfan Sulfate	ug/kg	0.39 U	0.41 U	0.46 U	0.42 R	0.42 UJ	0.42 UJ	0.41 U	0.51 R	0.44 UJ	0.61 U	0.37 U	0.36 U	0.39 U	0.4 U	0.44 U	0.38 U
Mirex	ug/kg	0.39 U	0.41 U	0.46 U	0.42 R	0.42 UJ	0.42 UJ	0.41 U	0.51 R	0.44 UJ	0.5 U	0.6 U	0.36 U	0.55 U	0.4 U	0.44 U	1 U
Aldrin	ug/kg	0.19 U	0.2 U	0.22 U	0.21 R	0.21 UJ	0.21 UJ	0.2 U	0.25 R	0.22 UJ	0.2 U	0.18 U	0.18 U	0.19 U	0.2 U	0.22 U	0.19 U
Alpha-BHC	ug/kg	0.19 U	0.2 UJ	0.22 U	0.21 R	0.21 UJ	0.21 UJ	0.2 U	0.25 R	0.22 UJ	0.2 U	1.2 J	0.18 U	0.19 U	0.2 U	0.22 UJ	0.19 U
Beta-BHC	ug/kg	0.19 U	0.2 U	0.22 U	0.21 R	0.21 UJ	0.21 UJ	0.2 U	0.25 R	0.22 UJ	0.2 U	0.18 U	0.18 U	0.19 U	0.2 U	0.22 U	0.19 U
Delta-BHC	ug/kg	0.074 J	0.2 U	0.22 U	0.21 R	0.21 UJ	0.14 J	0.2 U	0.25 R	0.22 UJ	0.2 U	0.27 J	0.18 U	0.071 J	0.11 J	0.11 J	0.19 U
Endosulfan II	ug/kg	2.1 U	0.41 U	1.7 U	0.42 R	0.42 UJ	0.42 UJ	0.41 U	0.79 R	0.44 UJ	0.44 U	0.37 U	0.36 U	0.39 U	0.4 U	0.44 U	0.38 UJ
4,4'-DDT	ug/kg	7.8	0.55 U	11	0.42 R	0.83 UJ	1.2 UJ	3.8 J	10 J	1.9 UJ	0.9 U	1.2 U	1.4	1.1 U	0.92 U	0.89 U	0.99 U
Endrin Ketone	ug/kg	0.39 U	0.41 U	0.46 U	0.42 R	0.42 UJ	0.42 UJ	0.41 U	0.51 R	0.44 UJ	0.42 U	0.37 U	0.36 U	0.39 U	0.4 U	0.44 U	0.38 U
Chlordane	ug/kg	3.9 U	4.1 U	4.6 U	4.2 R	4.2 UJ	4.2 UJ	5.7 U	5.1 R	4.4 UJ	4.2 U	5 U	3.6 U	7 U	4 U	4.4 U	3.8 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.2 UJ	0.058 J	0.21 R	0.21 UJ	0.21 UJ	0.06 J	0.25 R	0.22 UJ	0.2 U	0.18 U	0.18 U	0.19 U	0.2 U	0.22 UJ	0.19 U
Dieldrin	ug/kg	0.47 U	0.41 U	0.93 U	0.42 R	0.42 UJ	0.5 UJ	0.41 U	0.64 R	0.44 UJ	0.42 U	0.37 U	0.12 J	0.39 U	0.4 U	0.44 U	0.38 U
Endrin	ug/kg	0.39 U	0.41 U	1.2 J	0.42 R	0.42 UJ	0.42 UJ	0.41 U	0.98 R	0.44 UJ	0.42 U	0.37 U	0.36 U	0.39 U	0.4 U	0.44 U	0.38 U
Methoxychlor	ug/kg	1.9 U	2 U	2.2 U	2.1 R	2.1 UJ	2.1 UJ	2 U	2.5 R	2.2 UJ	2 U	1.8 U	1.8 U	1.9 U	2 U	2.2 U	1.9 U
4,4'-DDD	ug/kg	1.9 U	0.41 U	0.46 U	0.42 R	0.42 UJ	1.3 UJ	0.41 U	0.51 R	0.44 UJ	0.42 U	0.37 U	0.35 J	0.39 U	0.48 U	0.44 U	0.38 U
4,4'-DDE	ug/kg	2.6 U	0.41 U	2.7 U	0.42 R	0.53 UJ	1 UJ	1.6	2.8 R	1.5 UJ	1.1	1.4 U	1	1.7 U	0.73 U	0.76 U	0.38 U
Endrin Aldehyde	ug/kg	0.89 U	0.41 U	0.8 U	0.42 R	0.42 UJ	0.42 UJ	0.79 U	0.51 R	0.54 UJ	0.42 U	0.64 U	0.4	0.85 U	0.4 U	0.53 U	0.38 U
Heptachlor	ug/kg	0.19 U	0.2 U	0.22 U	0.21 R	0.21 UJ	0.21 UJ	0.2 U	0.25 R	0.26 UJ	0.2 U	0.18 U	0.18 U	0.19 U	0.2 U	0.11 J	0.19 U
Endosulfan I	ug/kg	0.19 U	0.2 U	0.22 U	0.21 R	0.21 UJ	0.43 UJ	0.2 U	0.25 R	0.22 UJ	0.21 U	0.13 J	0.18 U	0.19 U	0.2 U	0.22 U	0.19 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A4
Herbicides and Pesticides - Validated Data
Sediments

Sample Name		SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5	SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5	SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5
Sample Date		12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010
SDG		DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060	DE036	DE036	DE036	DE037
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.9 U	1.9 U	2.3 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	2 U	2.4 U	1.9 U	2 U	1.9 U	1.9 U
Dicamba	ug/kg	0.49 J	1.3 U	0.73 J	0.57 J	1.3 U	1.3 U	0.69 J	1 J	1.3 U	0.57 J	1.3 J	1.7 U	1.3 U	0.78 J	0.69 J	1.4 U
2,2-Dichlor-Propionic Ac	ug/kg	10 U	10 U	12 U	9.8 U	9.5 U	9.7 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	13 U	10 U	11 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.7 R	2.7 R	3.2 R	2.6 R	2.5 R	2.6 R	2.7 R	2.8 R	2.7 R	2.8 R	2.8 R	3.4 R	2.7 R	2.9 R	2.7 R	2.7 R
MCPP	ug/kg	220 J	200 J	670 U	540 U	370	270 U	280 U	290 U	280 U	290 U	290 U	570 U	280 U	300 U	280 U	290 U
2,4,5-TP	ug/kg	0.19 U	0.23	0.53	0.18 U	0.18 U	0.84 U	0.19 U	0.19 U	0.19 U	0.2 U	0.23	0.24 U	0.19 U	0.2 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.19 U	0.19 U	0.62 U	0.18 U	0.18 U	0.38 J	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.24 U	0.33 J	0.2 U	0.19 U	0.19 U
MCPA	ug/kg	360 U	760	700	310	280 U	1800 J	280 UJ	290 UJ	700	1200 J	290 UJ	450 U	340 U	500 U	280 U	1100 U
2,4-D	ug/kg	1.9 J	4 U	4.9 U	3.9 U	3.8 U	3.9 U	4 U	4.1 U	1.4 J	4.2 U	4.2 U	5.1 U	4 U	3 J	4 U	4.1 U
2,4 DB	ug/kg	1.9 U	12 U	2.3 U	10 U	4.7 U	14 U	14	11 U	9.2 U	2 U	8.9 U	3.8	1.9 U	12 U	16 U	30 U
Toxaphene	ug/kg	7.5 UJ	7.3 U	44 U	7.2 U	7 R	71 U	37 U	38 U	7.4 U	7.7 U	7.6 U	9.3 U	37 U	7.9 U	7.3 U	7.6 U
Heptachlor Epoxide	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	0.17 R	1.8 U	0.93 U	0.95 U	0.19 U	0.19 UJ	0.39 UJ	0.24 U	1.2 U	0.28 U	0.18 U	0.33 U
Endosulfan Sulfate	ug/kg	0.38 UJ	0.38 U	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	0.38 U	0.44 UJ	0.49 J	0.48 U	1.9 U	0.41 U	0.38 U	0.76 U
Mirex	ug/kg	0.55 UJ	0.38 U	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	2.5 U	0.6 U	0.42 UJ	0.61 UJ	0.48 U	1.9 U	0.41 U	0.38 U	0.39 U
Aldrin	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	0.17 R	1.8 U	0.93 U	0.95 U	0.19 U	0.19 U	0.19 U	0.24 U	0.92 U	0.2 U	0.18 U	0.19 U
Alpha-BHC	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	0.17 R	1.8 U	0.93 U	0.95 U	0.19 U	0.066 J	0.19 U	0.24 U	0.29 J	0.2 U	0.18 U	0.19 U
Beta-BHC	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	0.17 R	1.8 U	0.93 U	0.95 U	0.19 U	0.19 U	0.19 U	0.24 U	0.92 U	0.54	0.18 U	0.35 J
Delta-BHC	ug/kg	0.19 UJ	0.078 J	0.29 J	0.075 J	0.81 J	2.6 J	0.26 J	0.93 J	0.22	0.19 U	0.24	0.24 U	0.92 U	0.2 U	0.18 U	0.19 J
Endosulfan II	ug/kg	0.38 UJ	0.38 UJ	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	0.66 U	0.39 UJ	0.39 UJ	0.48 U	1.9 U	0.41 U	0.38 U	0.39 U
4,4'-DDT	ug/kg	2.1 UJ	0.38 U	32 U	1 U	0.62 J	1.6 J	1.9 U	1.9 U	2.1 U	4.4 J	2.2 UJ	0.48 U	8.5 U	2.6 U	2.3 U	2.4 U
Endrin Ketone	ug/kg	0.38 UJ	0.38 U	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	0.38 U	0.39 UJ	0.39 UJ	0.48 U	1.9 U	0.41 U	0.38 U	0.39 U
Chlordane	ug/kg	3.8 UJ	3.8 U	23 U	3.7 U	3.6 R	37 U	19 U	19 U	3.8 U	3.9 U	4.2 U	4.8 U	19 U	4.7 U	3.8 U	5 U
Gamma-BHC (Lindane)	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	1.3 J	2.7 J	0.93 U	0.95 U	0.19 U	0.19 U	0.19 U	0.24 U	0.92 U	0.2 U	0.18 U	0.19 U
Dieldrin	ug/kg	0.38 UJ	0.38 U	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	0.33 U	0.87 UJ	0.39 UJ	0.48 U	1.9 U	0.44 U	0.38 U	0.47 U
Endrin	ug/kg	0.38 UJ	0.38 U	2.3 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	0.38 U	0.39 UJ	0.39 UJ	0.48 U	1.9 U	0.41 U	0.38 U	0.39 U
Methoxychlor	ug/kg	1.9 UJ	1.8 U	11 U	1.8 U	1.7 R	18 U	9.3 U	9.5 U	1.9 U	1.9 UJ	1.9 UJ	2.4 U	9.2 U	2 U	1.8 U	1.9 U
4,4'-DDD	ug/kg	0.38 UJ	0.38 U	19 U	0.37 U	0.36 R	3.7 U	1.9 U	1.9 U	1.5 U	0.39 U	0.39 U	0.48 U	1.9 U	1.9 U	0.38 U	2.4 U
4,4'-DDE	ug/kg	1.3 UJ	0.38 U	2.3 U	0.41 U	0.18 J	0.96 J	1.9 U	1.9 U	1.3 U	1.9 UJ	0.69 UJ	0.48 U	1.9 U	1.1 U	1.1 U	1.3 U
Endrin Aldehyde	ug/kg	0.38 UJ	0.38 U	5.9 U	0.37 U	0.36 R	1.8 J	1.9 U	1.9 U	0.75 U	0.64 UJ	0.61 UJ	0.48 U	1.9 U	0.61 U	0.38 U	0.62 U
Heptachlor	ug/kg	0.19 UJ	0.12 J	1.1 U	0.18 U	0.17 R	1.8 U	0.56 J	0.39 J	0.19 U	0.19 U	0.19 U	0.24 U	0.92 U	0.2 U	0.18 U	0.19 U
Endosulfan I	ug/kg	0.19 UJ	0.18 U	1.1 U	0.18 U	0.17 R	1.8 U	0.93 U	0.95 U	0.19 U	0.19 UJ	0.19 UJ	0.24 U	0.92 U	0.2 U	0.18 U	0.19 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A4
Herbicides and Pesticides - Validated Data
Sediments

Sample Name		SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	2.2 U	28 U	2.1 U	2.4 U	1.9 U	2.3 U	1.9 U
Dicamba	ug/kg	1.3 U	1.5 U	20 U	1.5 U	1.7 U	1.4 U	1.6 U	1.3 U
2,2-Dichlor-Propionic Ac	ug/kg	9.6 U	12 U	150 U	11 U	13 U	10 U	12 U	9.8 U
Dinitrobutyl Phenol	ug/kg	2.5 R	3.1 U	40 R	3 R	3.4 U	2.7 R	3.2 R	2.6 R
MCPP	ug/kg	410 U	320 U	16000 U	320 U	390	290 U	330 U	410
2,4,5-TP	ug/kg	0.18 U	0.22 U	2.8 J	0.21 U	0.24 U	0.19 U	0.23 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.22 U	2.8 U	0.21 U	0.24 U	0.19 U	0.23 U	0.19 U
MCPA	ug/kg	270 U	320 U	4100 U	320 U	350 U	290 U	460	580 U
2,4-D	ug/kg	3.8 U	4.6 U	59 U	4.6 U	5 U	3 J	4.8 U	3.9 U
2,4 DB	ug/kg	5.1 U	2.2 U	28 U	2.7 U	2.4 U	1.9 U	5.6	1.9 U
Toxaphene	ug/kg	7 U	8.5 R	11 UJ	8.3 U	9.2 U	7.6 U	8.8 U	7.2 U
Heptachlor Epoxide	ug/kg	0.18 U	0.21 R	0.27 UJ	0.21 U	0.29 U	0.19 U	0.22 U	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	0.45 U	0.37 U
Mirex	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	1.7 U	0.37 U
Aldrin	ug/kg	0.18 U	0.21 R	0.27 UJ	0.21 U	0.23 U	0.19 U	0.13 J	0.18 U
Alpha-BHC	ug/kg	0.16 J	0.21 R	2.7 U	0.21 UJ	0.23 U	0.19 UJ	0.22 UJ	0.18 U
Beta-BHC	ug/kg	0.18 U	0.21 R	2.7 U	0.21 U	0.23 U	0.19 U	0.22 U	0.18 U
Delta-BHC	ug/kg	0.18 U	0.21 R	2.7 U	0.26 J	0.23 U	0.19 U	2.4 U	0.18 U
Endosulfan II	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	0.45 U	0.37 U
4,4'-DDT	ug/kg	0.37 U	0.44 R	0.52 J	0.44 U	3.7 J	0.39 U	0.78 U	0.69 U
Endrin Ketone	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	0.45 U	0.37 U
Chlordane	ug/kg	3.6 U	4.4 R	7.3 UJ	4.3 U	9.6 U	3.9 U	4.5 U	4.1 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.21 R	3.2 U	0.21 UJ	0.23 U	0.19 UJ	0.16 J	0.3 U
Dieldrin	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.49 U	0.39 U	0.45 U	0.37 U
Endrin	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	0.45 U	0.37 U
Methoxychlor	ug/kg	1.8 U	2.1 R	2.7 UJ	2.1 U	2.3 U	1.9 U	8.6 U	1.8 U
4,4'-DDD	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	0.47 U	0.39 U	0.45 U	0.37 U
4,4'-DDE	ug/kg	0.36 U	0.44 R	0.6 UJ	0.43 U	2.7 J	0.39 U	0.85 U	0.56 U
Endrin Aldehyde	ug/kg	0.36 U	0.44 R	0.56 UJ	0.43 U	1.2 U	0.39 U	0.65 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.21 R	0.27 UJ	0.21 U	0.23 U	0.19 U	0.32	0.18 U
Endosulfan I	ug/kg	0.18 U	0.21 R	0.27 UJ	0.21 U	0.23 U	0.19 U	0.22 U	0.18 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine	ug/kg	1.9 U	2 U	2.3 U	2.1 U	2.1 UJ	2.1 U	2 U	2.5 U	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Nitrobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Hexachlorobutadiene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
4-Nitroaniline	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
4-Nitrophenol	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
4-Methylphenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
4-Chloroaniline	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Phenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	45 J	--	--	23 J	--	--	--	440 U	130 J	95 J	--	28 J	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	41	--	38	8.2 J	--	54	28	69	--	--	--	13 J	--	18 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	22 U	24 U	22 U	15 J	22 U	22 UJ	27 U	24 U	22 U	8.6 J	19 U	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.63 J	2 U	2.3 U	2.1 U	2.1 U	0.83 J	0.69 J	0.51 J	2.2 U	2 U	0.4 J	1.8 U	1.9 U	2 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.8	1.3 J	1.3 J	2.1 U	2.1 J	11	6.8	3.1	3.6	1 J	3.7	1.8	3.4	2.2
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	22 U	24 U	22 U	22 U	22 U	22 U	27 U	24 U	22 U	20 U	19 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	22 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.77 J	2 UJ	1 J	2.1 U	1.9 J	1.2 J	--	2 J	1.5 J	2 U	1.6 J	0.82 J	1.4 J	1 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2 U	2.3 U	2.1 U	1.4 J	1 J	5.9 J	1.2 J	1.1 J	2 U	1.2 J	1.8 U	1.2 J	0.91 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.4	1.3 J	1.9 J	2.1 U	2.6 J	5.4	35 J	3.4	49	1.2 J	3.7	2.2	4.1	3

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Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.1	1.1 J	1.5 J	2.1 U	2.6 J	16	3.8	3.2	3.3	1.1 J	4	2	3.8	2.7
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.3 J	2 U	2.3 U	2.1 U	0.84 J	1.7 J	2 UJ	1.2 J	2.2 U	2 U	1.1 J	0.89 J	1.3 J	1.1 J
Acenaphthylene	ug/kg	1.9 U	2 UJ	2.3 U	2.1 U	2.1 U	0.55 J	2 U	2.5 U	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	5.8	0.9 J	7.1	2.1 U	2.6 J	6.9	29	8.6	3	1.1 J	2.7	1.5 J	3	1.9 J
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.96 J	2 U	2.3 U	2.1 U	1.2 J	1.7 J	10 J	1.4 J	4.5	2 U	2	1 J	2.2	1.2 J
2,4-Dinitrophenol	ug/kg	2300 U	2400 U	2700 U	2500 U	2500 U	2500 U	2400 U	3000 U	1300 U	2400 U	2200 U	2100 U	2300 U	2400 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2 U	2.3 U	2.1 U	2.1 U	2.1 U	5.7 J	2.5 U	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.3 J	2 U	2.3 U	2.1 U	2.1 U	1.5 J	2 U	1.6 J	2.2 U	2 U	1.5 J	0.95 J	1.7 J	1.2 J
Benzo(a)anthracene (8270C SIM)	ug/kg	1.3 J	2 U	2.3 U	2.1 U	2.1 U	1.5 J	2 U	1.6 J	2.2 U	2 U	1.5 J	0.95 J	1.7 J	1.2 J
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Aniline	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
Benzoic Acid	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
Hexachloroethane	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
Isophorone	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.5 U	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	22 U	24 U	22 U	22 U	22 U	22 U	27 U	24 U	22 U	20 U	19 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	22 U	24 U	22 U	22 U	22 U	22 U	27 U	24 U	22 U	20 U	19 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	6.8	0.93 J	1.3 J	2.1 U	1.6 J	14	1.4 J	4.1	1.4 J	1.8 J	2.5	1.3 J	2.1	1.4 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	7.1 J	22 U	17 J	22 U	22 U	13 J	14 J	9.9 J	11 J	22 U	20 U	12 J	21 U	11 J
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Fluorene	ug/kg	3	2 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.5 U	5.8	2 U	1.8 U	11	1.9 U	1.9 J
Carbazole	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Pentachlorophenol	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U

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Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-001-SIV-SD-0.0-0.5	SED-002-SIV-SD-0.0-0.5	SED-003-SIV-SD-0.0-0.5	SED-004-SIV-SD-0.0-0.5	SED-005-SIV-SD-0.0-0.5	SED-006-SIV-SD-0.0-0.5	SED-007-SIV-SD-0.0-0.6	SED-008-SIV-SD-0.0-0.5	SED-009-SIV-SD-0.0-0.5	SED-010-SIV-SD-0.0-0.5	SED-011-SIV-SD-0.0-0.5	SED-012-SIV-SD-0.0-0.5	SED-013-SIV-SD-0.0-0.5	SED-014-SIV-SD-0.0-0.5
Sample Date		12/17/2010	12/21/2010	12/20/2010	12/17/2010	12/20/2010	12/17/2010	12/20/2010	12/20/2010	01/13/2011	12/22/2010	12/16/2010	12/17/2010	12/16/2010	12/17/2010
SDG		DE045	DE050	DX029	DE045	DX029	DE045	DX029	DX029	DE060	DE051	DX026	DE045	DX026	DE045
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
2-Nitroaniline	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
2-Nitrophenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
1-Methylnaphthalene	ug/kg	1.8 J	2 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.2 J	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
Naphthalene	ug/kg	3.8	2.6 J	0.91 J	2.1 U	2.1 U	2.1 U	0.86 J	4.4	1 J	1 J	1.5 J	1.8 U	1.9 U	0.98 J
2-Methylnaphthalene	ug/kg	2.1	2 U	2.3 U	2.1 U	2.1 U	2.1 U	2 U	2.1 J	2.2 U	2 U	1.8 U	1.8 U	1.9 U	2 U
2-Chloronaphthalene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	380 U	400 U	450 U	410 U	410 U	420 U	410 U	500 U	440 U	410 U	370 U	350 U	380 U	390 U
Benzidine	ug/kg	3800 U	4000 UJ	4500 U	4100 U	4100 UJ	4200 U	4100 U	5000 U	4400 U	4100 U	3700 U	3500 U	3800 U	3900 U
2-Methylphenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
2-Chlorophenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
3-Nitroaniline	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U
Benzyl Alcohol	ug/kg	570 U	600 U	680 U	620 U	620 U	620 U	610 U	740 U	650 U	610 U	550 U	530 U	570 U	590 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	230 U	210 U	210 U	210 U	200 U	250 U	220 U	200 U	180 U	180 U	190 U	200 U

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Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-015-SIV-SD-0.0-0.5	SED-016-SIV-SD-0.0-0.5	SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5
Sample Date		12/21/2010	12/15/2010	12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011
SDG		DE050	DE040	DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine	ug/kg	2.2 U	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.4 U
2,4-Dinitrotoluene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Nitrobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1,4-Dichlorobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1,2,4-Trichlorobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1,3-Dichlorobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Hexachlorobutadiene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1,2-Dichlorobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
4-Nitroaniline	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
4-Nitrophenol	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
4-Bromophenyl Phenyl Ether	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
2,4-Dimethylphenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
4-Methylphenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
4-Chloroaniline	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
3,5-Dimethylphenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Phenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Bis(2-Chloroethyl) ether	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Bis(2-Chloroethoxy) methane	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	67 J	28 J	51 J	24 J	120 J	--	19 J	--	--	--	370 U	47 J	--	470 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	20 U	--	20	8.4 J	10 J	--	--	13 J	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	220 U	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	23 U	20 U	20 U	20 U	--	20 U	19 U	19 U	20 U	21 U	20 U	21 U	21 U	25 U
Hexachlorobenzene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.2 U	1.9 U	1.9 U	0.65 J	6 J	1.8 U	1.8 U	0.68 J	1.9 U	1.9 U	0.42 J	1 J	1.9 U	2.4 U
2,4-Dichlorophenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1,2-Diphenylhydrazine	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Pyrene (8270C)	ug/kg	--	--	--	--	47 J	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.5 J	12	1.9 U	5.4	--	1.8 U	1.8 U	10	1.1 J	0.95 J	2	6.1	1.9 U	2.4 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	220 U	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	23 U	20 U	20 U	20 U	--	20 U	19 U	19 U	20 U	21 U	20 U	21 U	21 U	25 U
Dibenzofuran	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	2.2 U	3.1	1.9 U	1.2 J	12	1.8 U	1.8 U	1.2 J	1.9 U	1.9 U	2	1.6 J	1.9 U	2.4 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2.2 U	2.9	1.9 U	1.1 J	8.6 J	1.8 U	1.8 U	1.1 J	1.9 UJ	1.9 UJ	1.9 U	1.3 J	1.9 UJ	2.4 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 J	12	1.9 U	4.7	35	1.8 U	1.8 U	4.7	1.3 J	1 J	1.5 J	5.6	0.94 J	25

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-015-SIV-SD-0.0-0.5	SED-016-SIV-SD-0.0-0.5	SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5
Sample Date		12/21/2010	12/15/2010	12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011
SDG		DE050	DE040	DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoranthene (8270C)	ug/kg	--	--	--	--	71 J	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 J	16	1.9 U	8	--	1.8 U	1.8 U	16 J	1.1 J	1.2 J	1.6 J	8.6 J	0.94 J	1.3 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.1 J	5.1	1.9 U	2	9.7 J	1.8 U	1.8 U	2.1	1.9 U	1.9 U	1.9 U	1.8 J	1.9 U	2.4 U
Acenaphthylene	ug/kg	0.47 J	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	0.72 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.4 U
Chrysene (8270C)	ug/kg	--	--	--	--	37 J	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 J	9	1.8 J	4.1	--	1.8 U	0.62 J	5.6 J	1.4 J	1.1 J	3.4	5.1 J	0.85 J	0.93 J
bis(2-Chloroisopropyl) ether	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.2 U	5.6	1.9 U	2.2	16	1.8 U	1.8 U	1.4 J	1.9 U	1.9 U	1.9 U	2.3	1.9 U	1.4 J
2,4-Dinitrophenol	ug/kg	2600 U	2200 U	2300 U	2200 U	2700 U	2200 U	2100 U	2200 U	2200 U	2300 U	2200 U	2300 U	2300 U	1400 U
4,6-Dinitro-2-Methylphenol	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2.2 U	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.9 UJ	1.9 U	1.9 UJ	1.9 UJ	2.4 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	24 J	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.2 U	3	1.9 U	2	--	1.8 U	1.8 U	1.2 J	1.9 U	1.9 U	1.4 J	3.1	1.9 U	2.4 U
4-Chloro-3-Methylphenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
N-Nitroso-Di-N-Propylamine	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Aniline	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
Benzoic Acid	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
Hexachloroethane	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
4-Chlorophenyl Phenylether	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Hexachlorocyclopentadiene	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
Isophorone	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2.2 U	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.4 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	220 U	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	23 U	20 U	20 U	20 U	--	20 U	19 U	19 UJ	20 UJ	21 UJ	20 U	21 UJ	21 UJ	25 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	26 J	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	23 U	20 U	20 U	20 U	--	20 U	19 U	19 UJ	20 UJ	21 UJ	7.9 J	21 UJ	21 UJ	25 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.4	5.5	1.9 U	4.7	22	1.8 U	1.8 U	16	1.6 J	1.5 J	2.5	3.9	1 J	1.2 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	42 J	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	23 U	20 U	20 U	20 U	--	20 U	19 U	19 U	20 U	21 U	8.4 J	9.1 J	21 U	25 U
N-Nitrosodiphenylamine	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Fluorene	ug/kg	2.2 U	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.9 UJ	6.9	1.9 UJ	1.9 UJ	4.4
Carbazole	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Pentachlorophenol	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-015-SIV-SD-0.0-0.5	SED-016-SIV-SD-0.0-0.5	SED-017-SIV-SD-0.0-0.5	SED-018-SIV-SD-0.0-0.5	SED-019-SIV-SD-0.0-0.5	SED-020-SIV-SD-0.0-0.5	SED-021-SIV-SD-0.0-0.5	SED-022-SIV-SD-0.0-0.5	SED-023-SIV-SD-0.0-0.5	SED-024-SIV-SD-0.0-0.5	SED-025-SIV-SD-0.0-0.5	SED-026-SIV-SD-0.0-0.5	SED-027-SIV-SD-0.0-0.5	SED-028-SIV-SD-0.0-0.5
Sample Date		12/21/2010	12/15/2010	12/16/2010	12/15/2010	12/16/2010	12/16/2010	12/15/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	01/13/2011
SDG		DE050	DE040	DX026	DE040	DX026	DX026	DE040	DE039	DE039	DE039	DE038	DE039	DE039	DE060
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,4,6-Trichlorophenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
2-Nitroaniline	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
2-Nitrophenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
1-Methylnaphthalene	ug/kg	1.8 J	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.4 J	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	2.4 U
Naphthalene	ug/kg	4.3	1.9 U	1.9 U	1.5 J	9 J	1.8 U	1.8 U	2.6	1.6 J	1.5 J	2.9	1.9 U	1.9 U	1.2 J
2-Methylnaphthalene	ug/kg	2.3	1.9 U	1.9 U	1.8 U	11 U	1.8 U	1.8 U	1.6 J	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	2.4 U
2-Chloronaphthalene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
3,3`-Dichlorobenzidine	ug/kg	430 U	370 U	380 U	370 U	450 U	360 U	350 U	360 U	370 U	380 U	370 U	390 U	390 U	470 U
Benzidine	ug/kg	4300 U	3700 U	3800 U	3700 U	4500 U	3600 U	3500 U	3600 U	3700 U	3800 U	3700 U	3900 U	3900 U	4700 U
2-Methylphenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
2-Chlorophenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
2,4,5-Trichlorophenol	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
3-Nitroaniline	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U
Benzyl Alcohol	ug/kg	650 U	560 U	560 U	550 U	670 U	540 U	530 U	540 U	560 U	570 U	560 U	580 U	580 U	710 U
2,6-Dinitrotoluene	ug/kg	220 U	190 U	190 U	180 U	220 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	240 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
R – Result is rejected

Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5	SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5	SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE036	DE036	DE036	DE037	DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine	ug/kg	18 U	2 U	1.9 U	1.9 U	1.8 U	2.1 U	14 U	2.1 U	2.3 U	1.9 U	2.2 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Nitrobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Hexachlorobutadiene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 UJ	210 U	230 U	190 U	220 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
4-Nitroaniline	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
4-Nitrophenol	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 UJ	210 U	230 U	190 U	220 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
4-Methylphenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
4-Chloroaniline	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Phenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	110 J	56 J	38 J	--	--	--	550 U	48 J	35 J	30 J	33 J	360 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	30 U	19 U	29	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	280 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	97 J	22 U	20 U	21 U	19 U	23 U	--	23 U	25 U	21 U	24 U	20 U
Hexachlorobenzene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 UJ	210 U	230 U	190 U	220 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	37 J	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	4.4 J	2 U	0.43 J	--	0.99 J	2.1 U	14 U	2.1 U	1.1 J	0.39 J	2.2 U	0.38 J
2,4-Dichlorophenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	540	--	--	48 J	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	32	1.2 J	2.3	--	15	3.5	--	1.5 J	7.8	4.6	1.4 J	2.3
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	280 U	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	22 U	20 U	21 U	19 U	23 U	--	23 U	25 U	21 U	24 U	20 U
Dibenzofuran	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	500	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	18 U	2 U	1.9 U	--	11	2.3	10 J	2.1 U	4.5	1.9 U	2.2 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	420	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	18 U	2 U	1.9 U	--	10	1.8 J	8.7 J	2.1 U	3.4	1.9 U	2.2 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	680	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	27	2	2.7	--	39	5	33	2.8	13	2.4	2.7	2.1

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Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5	SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5	SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE036	DE036	DE036	DE037	DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Fluoranthene (8270C)	ug/kg	--	--	--	420	--	--	53 J	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	47	1.4 J	3	--	14	3.7	--	2 J	8.3	6.8	2 J	3.2
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	280	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	18 U	2 U	0.85 J	--	14	2.6	9.4 J	0.96 J	4.8	1.3 J	0.91 J	0.73 J
Acenaphthylene	ug/kg	18 U	2 U	1.9 U	0.49 J	1.8 U	2.1 U	14 U	0.46 J	0.71 J	1.9 U	2.2 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	490	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	25	1.6 J	2.2	--	20	4.5	20	1.4 J	10	2.8	2.2	1.8
bis(2-Chloroisopropyl) ether	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	650	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.6 J	2 U	1.1 J	--	25	2.3	18	1.1 J	6	1.3 J	1.1 J	0.79 J
2,4-Dinitrophenol	ug/kg	2200 U	2400 U	2200 U	2300 U	2100 U	2600 U	1700 U	2500 U	2800 U	2300 U	2700 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	120 J	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	18 U	2 U	1.9 U	--	3.2	2.1 U	14 U	2.1 U	2.3 U	1.9 U	2.2 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	400	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.6 J	2 U	0.99 J	--	15	1.2 J	12 J	2.1 U	4.9	1.2 J	2.2 U	0.84 J
4-Chloro-3-Methylphenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Aniline	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
Benzoic Acid	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
Hexachloroethane	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
Isophorone	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	43 J	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	18 U	2 U	1.9 U	--	1.8 U	2.1 U	14 U	2.1 U	2.3 U	1.9 U	2.2 U	1.8 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	280 U	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	22 U	20 U	21 U	19 U	23 U	--	23 U	25 U	21 U	24 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	280 U	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	7.3 J	13 J	21 U	19 U	23 U	--	23 U	25 U	15 J	24 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	110 J	--	--	35 J	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	22	0.89 J	1.6 J	--	6.2	2 J	--	1.4 J	6	2.8	1.6 J	2.4
Butylbenzylphthalate (8270C)	ug/kg	31 J	--	--	--	--	32 J	280 U	56 J	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	22 U	7.2 J	21 U	19 U	--	--	--	25 U	21 U	17 J	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Fluorene	ug/kg	18 U	2 U	2	2	1.8 U	3.4	14 U	2.1 U	3.5	1.9 U	2 J	1.8 U
Carbazole	ug/kg	180 U	200 U	190 U	24 J	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Pentachlorophenol	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U

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Appendix A5
Semivolatile Organics - Validated Data
Sediments

Sample Name		SED-029-SIV-SD-0.0-0.5	SED-030-SIV-SD-0.0-0.5	SED-031-SIV-SD-0.0-0.5	SED-032-SIV-SD-0.0-0.5	SED-033-SIV-SD-0.0-0.5	SED-034-SIV-SD-0.0-0.5	SED-035-SIV-SD-0.0-0.5	SED-036-SIV-SD-0.0-0.5	SED-037-SIV-SD-0.0-0.5	SED-038-SIV-SD-0.0-0.5	SED-039-SIV-SD-0.0-0.5	SED-040-SIV-SD-0.0-0.5
Sample Date		12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/20/2010	05/23/2011	12/21/2010	12/20/2010	12/21/2010	12/21/2010	12/13/2010
SDG		DE036	DE036	DE036	DE037	DE037	DX029	DE159	DE050	DX029	DE050	DE050	DE036
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,4,6-Trichlorophenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
2-Nitroaniline	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
2-Nitrophenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 UJ	210 U	230 U	190 U	220 U	180 U
1-Methylnaphthalene	ug/kg	18 U	2 U	1.9 U	1.9	0.94 J	2.1 U	14 U	2.1 U	2.6	1.9 U	2.2 U	1.8 U
Naphthalene	ug/kg	18 U	0.83 J	1.1 J	6.3	1.1 J	1.1 J	14 U	1.9 J	5.9	1.5 J	1.7 J	1.3 J
2-Methylnaphthalene	ug/kg	18 U	2 U	1.9 U	2.4	0.96 J	2.1 U	14 U	2.1 U	3.1	1.9 U	2.2 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	400 UJ	370 UJ	380 U	350 U	430 U	550 U	420 U	470 U	380 U	440 U	360 UJ
Benzidine	ug/kg	3700 U	4000 U	3700 U	3800 U	3500 U	4300 U	5500 U	4200 U	4700 U	3800 U	4400 U	3600 U
2-Methylphenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
2-Chlorophenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
3-Nitroaniline	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U
Benzyl Alcohol	ug/kg	550 U	600 U	560 U	570 U	530 U	640 U	830 U	630 U	700 U	570 U	660 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	200 U	190 U	190 U	180 U	210 U	280 U	210 U	230 U	190 U	220 U	180 U

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