ONONDAGA LAKE PRE-DESIGN INVESTIGATION PHASE VI 2010 WATER QUALITY MONITORING FOR CONSTRUCTION BASELINE DATA SUMMARY REPORT

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OCTOBER 2011

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LIST OF ACRONYMS

C_P	beam attenuation coefficient
CLP	Contract Laboratory Program
DUSR	Data Usability Summary Report
CPOI	chemical parameter of interest
mph	miles per hour
nm	Nanometer
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation/reduction potential
PCB	polychlorinated biphenyl
PDI	Pre-design investigation
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance/quality control
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SU	Syracuse University
SVOC	semivolatile organic compound
Tn	Turbidity
TSS	total suspended solids
UFI	Upstate Freshwater Institute
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

EXECUTIVE SUMMARY

This data summary report describes water quality monitoring conducted on behalf of Honeywell during October and November 2010 in the littoral and profundal regions of Onondaga Lake as part of the Phase VI Pre-Design Investigation (PDI). Monitoring activities were conducted to obtain an initial understanding of baseline water quality conditions near proposed in-lake remediation areas prior to the start of dredging. This report describes the sample locations, data collection methods, analyses and testing performed, and includes a summary of results.

The primary objective of this sampling program was to obtain an understanding of baseline chemical and optical (i.e., turbidity/water clarity) water quality levels near proposed dredging and capping remediation areas where water quality monitoring during construction activities may occur. The sampling program collected data over a range of natural forcing conditions that can affect various components of water quality, including tributary runoff, wind-driven waves, and typical lake currents to understand how these forcing conditions affect water quality within Onondaga Lake.

Sampling and analyses were conducted in accordance with Addendum 3 to the Onondaga Lake Phase VI PDI Work Plan (Parsons, 2010a), the Onondaga Lake PDI: Phase I Sampling and Analysis Plan (SAP) (Parsons, 2005), and the revised Onondaga Lake PDI Quality Assurance Project Plan (QAPP) (Parsons, 2010b).

This Data Summary Report does not present an analysis of data collected as part of the 2010 field activities. An assessment of the data will be presented with the 2011 Water Quality Monitoring for Construction Baseline Work Plan, in the context of evaluating whether any modifications are warranted based on the results of the 2010 measurements. In addition, a Baseline Water Quality Data Report will be submitted after the 2011 field season which will also include data assessment.

DISCRETE WATER COLUMN SAMPLING

Discrete water column samples were collected during three sampling events: October 25 to 26, 2010 (Sampling Event 1); November 9 to 10, 2010 (Sampling Event 2); and November 16 and 18, 2010 (Sampling Event 3). All three sampling events occurred after lake turnover (which took place in 2010 on or about October 18) and, therefore, represent thermally-mixed lake conditions.

DISCRETE OPTICAL/TURBIDITY MONITORING USING RAPID PROFILING INSTRUMENATION

During the three discrete sampling events, a second vessel collected spatially detailed water quality information with rapid profiling instrumentation. Profiling was also conducted on three additional occasions to provide weekly optical/turbidity data for the six-week 2010 field program (a total of six discrete optical/turbidity monitoring samples).

CONTINUOUS TURBIDITY MONITORING

Continuous turbidity measurements were collected at mid-depth within the water column at buoyed stations to understand how turbidity levels in the primary sediment remediation areas change in response to natural forcing conditions. Four continuous turbidity monitoring stations (T1, T2, T3, and T4; see Figure 1 and Table 1 for approximate water depths) were deployed for approximately six weeks (October 18 through November 23, 2010).

SECTION 1

INTRODUCTION

This Data Summary Report describes water quality monitoring conducted on behalf of Honeywell during October and November 2010 in the littoral and profundal regions of Onondaga Lake as part of the Phase VI PDI. Monitoring activities were conducted to obtain an initial understanding of baseline water quality conditions near proposed in-lake remediation areas prior to the start of dredging. This report describes the sample locations, data collection methods, analyses and testing performed, and includes a summary of results.

Sampling and analyses were conducted in accordance with Addendum 3 to the Onondaga Lake Phase VI PDI Work Plan (Parsons, 2010a), the Onondaga Lake PDI: Phase I SAP (Parsons, 2005), and the revised Onondaga Lake PDI QAPP (Parsons, 2010b).

This Data Summary Report does not present an analysis of data collected as part of the 2010 field activities. An assessment of the data will be presented with the 2011 Water Quality Monitoring for Construction Baseline Work Plan, in the context of evaluating whether any modifications are warranted based on the results of the 2010 measurements. In addition, a Baseline Water Quality Data Report will be submitted after the 2011 field season which will also include data assessment.

1.1 2010 BASELINE WATER QUALITY MONITORING

The primary objective of this sampling program was to obtain an understanding of baseline chemical and optical (e.g., turbidity/water clarity) water quality conditions near proposed dredging and capping remediation areas. Data were collected over a range of natural forcing conditions that can affect various components of water quality, including tributary runoff, wind-driven waves, and typical lake currents to understand how these forcing conditions affect water quality within Onondaga Lake. The information collected as part of this sampling program will be used to:

- Guide development of additional baseline monitoring to be conducted in 2011
- Assess repeatability of results from two years of data (2010 and 2011)
- Develop a water quality monitoring plan as part of the overall construction monitoring program for the dredging and capping activities within the lake

1.2 REPORT ORGANIZATION

This report is organized into the following sections:

- Section 1: Introduction
- Section 2: 2010 Field Activities
- Section 3: Data Management
- Section 4: References

SECTION 2

2010 FIELD ACTIVIITES

Water quality samples were collected and processed using methods developed during the Phase I PDI and as described in Appendix A of the Phase VI PDI Work Plan – Addendum 3 (Parsons, 2010a).

Figures 1 and 2 illustrate the 2010 sample locations and Table 1 presents a summary of the 2010 field program, which consisted of: (1) three discrete sampling events with a focus on water quality conditions near the primary sediment remediation areas, (2) six weekly lake-wide monitoring events that included rapid profiling instrumentation, and (3) continuous measurement of turbidity at multiple locations within the lake. Each of these activities is described below.

2.1 DISCRETE WATER COLUMN SAMPLING

Discrete water column samples were collected during three sampling events: October 25 to 26, 2010 (Sampling Event 1); November 9 to 10, 2010 (Sampling Event 2); and November 16 and 18, 2010 (Sampling Event 3). All three sampling events occurred after lake turnover (which took place in 2010 on or about October 18) and, therefore, represent thermally-mixed lake conditions. In addition to lake turnover, Sampling Event 1 was conducted during a moderate rainfall event (approximately 0.5 inches of rain) and Sampling Event 2 commenced on November 9 following 10- to 20-miles-per-hour (mph) winds from the west on the prior day (November 8). The final sampling event (November 16 and 18) was conducted over two non-continuous days due to high winds (20 plus mph) occurring on the intermediate day (November 17).

For this discrete water column sampling effort, grab samples were collected from mid-depth within the water column at four locations within the major remediation areas (T1, T2, T3, and T4), seven locations outside of the major remediation areas (A1, A2, B1, C1, D1, E1, and E2), and two profundal zone sites (North Deep and South Deep), as shown on Figure 1. These sampling locations were chosen to assess water quality conditions both within the remediation area as well as within 500 ft. of remediation area boundaries, potentially representing an area that would be outside the limits of silt curtain placement during remediation. Locations greater than 1,000 ft. outside of proposed remediation areas were also selected to obtain a representative baseline measurement for assessing system-wide impacts.

The sampling was conducted in accordance with Appendix A to Addendum 3 – Surface Water Quality Monitoring and Sampling Standard Operating Procedure (SOP), with one modification. Due to the large sample volume required by the analytical laboratory, a Teflon-lined submersible pump with Teflon-lined tubing was substituted for the Kemmerer bottle sampler, for all but the volatile organic compound chemical parameters of interest [VOC CPOIs]**.** The New York State Department of Environmental Conservation (NYSDEC) verbally approved this change in the field.

Collected samples were analyzed for a suite of parameters. Chemistry analyses (mercury [total and filtered], methylmercury [total], VOC CPOIs, polychlorinated biphenyls [PCBs], and semivolatile organic compounds [SVOC] CPOIs) were conducted to establish baseline concentrations of these constituents. Measurements of turbidity (Tn), the beam attenuation coefficient at 660 Nanometer (nm) (c_P660), and total suspended solids (TSS) were taken to provide baseline information on particle concentrations and impacts on water clarity. Components of phosphorus (total phosphorus, total dissolved phosphorus, soluble reactive phosphorus) and inorganic nitrogen (nitrate, nitrite, ammonia) were also monitored to provide baseline information on phytoplankton nutrients and forms of nitrogen. Field measurements for pH, temperature, oxidation/reduction potential (ORP), and specific conductance were also collected.

Average water depths over the three sampling events are provided in Table 1. Analytical results from this sampling are presented in Table 2. Results from field measurements are included in Appendix A. Chemistry data, as specified above, are presented in Table 2, while several graphs displaying the phosphorus, nitrogen, chlorophyll, turbidity, and beam attenuation data are provided in Appendix B.

Current velocity was measured with a Marsh-McBirney Flo-Mate Portable Velocity Meter (Model 2000) during the three discrete water column monitoring events. Measurements were collected at three depths (surface, mid-depth, and near bottom) near each of the four continuous turbidity monitoring stations (T1, T2, T3, and T4 on Figure 1) in accordance with Appendix A to Addendum 3 – Surface Water Quality Monitoring and Sampling SOP. Velocity measurement results are presented in Table 3, while several graphs displaying the turbidity data are provided in Appendix E.

2.2 DISCRETE OPTICAL/TURBIDITY MONITORING USING RAPID PROFILING INSTRUMENATION

On October 25, November 9, and November 16, 2010, a second vessel collected spatially detailed water quality information with rapid profiling instrumentation during the three discrete sampling events. Profiling was conducted with a Sea-Bird probe package[1] at three stations along each of four transects, and at North Deep and South Deep (see Figure 1), for a total of 14 profiles per sampling event. Profiling was also conducted during three additional occasions (October 14, October 28, and November 5) to provide weekly optical/turbidity data for the 6-week 2010 field program (a total of six discrete optical/turbidity monitoring samples). The rapid profiling was conducted in accordance with methods described in the 2008 Book 1 Work Plan (Upstate Freshwater Institute [UFI] and Syracuse University [SU], 2008). The rapid profiling measured light scattering, including turbidity and the beam attenuation coefficient at 660 nm (**c**660). Other sensors in the rapid profiling package (i.e., temperature, specific conductance, optical

[1] The Sea-Bird Electronics, Inc. package of instruments contains:

1.) temperature, specific conductance, pressure - SBE 25 SEALOGGER CTD (Sea-Bird Electronics) 2. Chlorophyll - WETStar Fluorometer (WET Labs) 3.) Beam attenuation coefficient - C-star transmissometer (WET Labs) 4.) Photosynthetically Active Radiation (PAR) sensor (LI-COR Environmental) 5.) Optical Backscattering (OBS) - OBS-3 (D&A Instruments; UFI calibrates for turbidity), 6.) datalogger that stores and integrates all of the above components (Sea-Bird Electronics)

backscattering, chlorophyll, and photosynthetically active radiance) provide additional information on stratification, tracer(s) patterns, and light penetration. The measured parameters and sampling dates are listed in Table 1. Results from this monitoring are presented in Appendix C.

Weekly profiles were also conducted using an *in situ* ultraviolet spectrophotometer (ISUS)[2], at ten sites (six along the long axis of the lake and four additional sites to form a lateral at South Deep) as part of Honeywell's Book 1 Baseline Monitoring Program (UFI and SU, 2008). This monitoring program was supplemented with two additional lateral transects in the south basin, one additional transect in the north basin, and one additional location outside of remediation area B as shown on Figure 2, in order to provide increased spatial resolution adjacent to the major remediation areas. A total of 23 locations were monitored, including 10 from the Book 1 Baseline Monitoring Program (ISUS-5, -9, -12, -13, -15, -18, -22, -27, and -34, in addition to 13 supplemental locations (ISUS-6 through ISUS-8 and ISUS-37 through ISUS-46). Data obtained are presented in Appendix D. These additional measurements were conducted on October 18 and 25, and November 1, 11, 15, and 29, 2010.

2.3 CONTINUOUS TURBIDITY MONITORING

Continuous turbidity measurements were collected at mid-depth within the water column at buoyed stations to understand how turbidity levels in the primary sediment remediation areas change in response to natural forcing conditions. Four continuous turbidity monitoring stations (T1, T2, T3, and T4; see Figure 1 and Table 1 for approximate water depth) were deployed for approximately six weeks (October 18 through November 23, 2010) in accordance with Appendix A to Addendum 3 – Surface Water Quality Monitoring and Sampling SOP. Data obtained using multi-parameter sondes (turbidity, temperature, and pH) suspended from buoys at each of the four stations are presented in Appendix E. The turbidity monitoring station located at T1 was stolen on two occasions and had to be replaced, so, a reduced turbidity dataset was collected from this location (October 18 through November 2, 2010).

[2] The ISUS package of instruments contains:

1. nitrate probe - Satlantic ISUS sensor (Satlantic Instruments), 2.) turbidity and chlorophyll - ECO FLNTU combination fluorometer and turbidity sensor (WET Labs), 3.) beam attenuation coefficient - C-star transmissometer (WET Labs), 4.) scalar PAR sensor (Biospherical Instruments), 5.) temperature, specific conductance, and pressure - CTD 37I sensor (Sea-Bird Electronics), 6.) datalogger that stores and integrates all of the above components (WET Labs)

SECTION 3

DATA MANAGEMENT & QA/QC

3.1 DATA MANAGEMENT

3.1.1 Field Database

An electronic database was developed for the Phase VI PDI to ensure consistency in field sample ID assignment and compatibility with the Locus Focus data management system in use on behalf of Honeywell. The database recorded sample descriptions, assigned field sample IDs, and reproduced chains of custody. The data collection program for this Phase VI field effort was similar to that used during Phases I through V of the PDI.

3.1.2 Quality Assurance/Quality Control

Field quality assurance/quality control (QA/QC) consisted of the collection and analysis of field duplicates, and matrix spike/matrix spike duplicate samples at a frequency of one per 20 samples (one per event) for chemistry data and field triplicates for conventional water quality parameters (e.g., phosphorous and nitrogen). All field QA/QC samples were identified using standard sample identifiers and collected in accordance with the revised Onondaga Lake PDI QAPP (Parsons, 2010b).

3.1.3 Sample Holding

Samples were collected and handled according to the procedures outlined in the Phase I PDI SAP (Parsons, 2005) and revised QAPP (Parsons, 2010b).

3.1.4 Sample Collection and Recordkeeping

Samples were collected and managed by the field database as described above. Sample recordkeeping and database entry were conducted in accordance with the Phase I PDI SAP (Parsons, 2005) and the revised QAPP (Parsons, 2010b) on each of the sampling vessels.

3.1.5 Data Validation

Analytical data generated during the investigation activities were reviewed and validated in accordance with the approved Phase I SAP (Parsons, 2005) and revised QAPP (Parsons, 2010b). Data validation of Level II through Level IV analytical deliverables was performed (task dependent) in accordance with guidance provided by the U.S. Environmental Protection Agency (USEPA) and adapted to the QA/QC criteria in the USEPA Contract Laboratory Program (CLP) and USEPA SW-846. Following validation, the results were incorporated into the Locus Focus data management system.

3.2 QUALITY ASSURANCE/QUALITY CONTROL

The sample names, QA/QC procedures, sample collection, data entry, and data validation for this portion of the work were conducted in accordance with the Phase I PDI SAP (Parsons, 2005). The one deviation from these procedures was related to the substitution of a submersible

pump with Teflon-lined tubing for the Kemmerer bottle sampler, as noted in Section 2.1, and was discussed with NYSDEC prior to execution of the work.

Analytical data were collected in accordance with the revised Onondaga Lake PDI QAPP (Parsons, 2010b). The data were evaluated in relation to the established laboratory and project control limits for accuracy and precision with factors impacting data quality being identified in the laboratory analytical report. Results of this evaluation are presented in the Data Usability Summary Report (DUSR) (Appendix F).

SECTION 4

REFERENCES

Parsons, 2005. Onondaga Lake Phase I Pre-Design Investigation: Sampling and Analysis Plan. Prepared for Honeywell, Morristown, New Jersey and Syracuse, New York.

Parsons, 2010a. Onondaga Lake Pre-Design Investigation: Phase VI Addendum 3. Prepared for Honeywell, Morristown, New Jersey and Syracuse, New York.

Parsons, 2010b. Onondaga Lake Pre-Design Investigation: Revised Quality Assurance Project Plan. Prepared for Honeywell, Morristown, New Jersey. Syracuse, New York.

UFI and SU, 2008. Onondaga Lake Baseline Monitoring Book 1 Deep Basin Water and

Zooplankton Monitoring Work Plan for 2008. Prepared for Honeywell, Inc., East Syracuse, NY. Upstate Freshwater Institute and Syracuse University, Syracuse, NY. May 2008

TABLES

TABLE 1
WATER QUALITY SAMPLING LOCATIONS AND ANALYSES CONDUCTED

Description	Corresponding Map Sympbol (Figure #)	Number of locations	Number of sampling events	Vertical Sampling intervals	Monitoring Locations: Station ID	Monitoring Locations: Corresponding Database Sample ID	Approx. Total Water Depth[1] (ft)	Approx. Sample Depth[1] (ft)	Mercury [total & filtered]	Methylmercury [total]	VOCs (CPOIs)[2]	PCBs	SVOCs (CPOIs)[2]	Rapid profiling parameters[3]	Field measurements[4]	Current velocity[5]	Table/Appendix presenting field data
									number of samples								
Discrete Water	▲ (Figure 1)	13	3 (Oct 25 to 26; Nov 9 to 10; Nov 16 & 18)	mid-depth	T1	OL-SW-40313	10.5	5	3	3	3	3	3		3		Table 2, Appendices A & B
					T2	OL-SW-10194	10	5	3	3	3	3	3		3		Table 2, Appendices A & B
					T3	OL-SW-60328	8	4	5	5	5	5	5		3		Table 2, Appendices A & B
					T4	OL-SW-60329	6.5	3	3	3	3	3	3		3		Table 2, Appendices A & B
					A1	OL-SW-80224	45	22.5	3	3	3	3	3		3		Table 2, Appendices A & B
					A2	OL-SW-80225	50	25	3	3	3	3	3		3		Table 2, Appendices A & B
					B1	OL-SW-80226	58	29	3	3	3	3	3		3		Table 2, Appendices A & B
					C1	OL-SW-80227	51	25.5	3	3	3	3	3		3		Table 2, Appendices A & B
					D1	OL-SW-80228	57.3	29	3	3	3	3	3		3		Table 2, Appendices A & B
					E1	OL-SW-80229	42	21	3	3	3	3	3		3		Table 2, Appendices A & B
					E2	OL-SW-80230	44	22	4	4	4	4	4		3		Table 2, Appendices A & B
					North Deep	DEEP_N	62	31	3	3	3	3	3		3		Table 2, Appendices A & B
					South Deep	DEEP_S	66	33	3	3	3	3	3		3		Table 2, Appendices A & B
Discrete Turbidity	● (Figure 1)	14	6 (Oct 14; Oct 25; Oct 28; Nov 5; Nov 9; Nov 16)	Continuous	T1	OL-SW-40313	11	--						6			Appendix C
					T1-1	OL-SW-80231	37	--						6			Appendix C
					T1-2	OL-SW-40314	2	--						6			Appendix C
					T2	OL-SW-10194	10	--						6			Appendix C
					T2-1	OL-SW-80232	35	--						6			Appendix C
					T2-2	OL-SW-10195	3	--						6			Appendix C
					T3	OL-SW-60328	7	--						6			Appendix C
					T3-1	OL-SW-60330	22	--						6			Appendix C
					T3-2	OL-SW-60331	3	--						6			Appendix C
					T4	OL-SW-60329	6	--						6			Appendix C
					T4-1	OL-SW-60332	22	--						6			Appendix C
					T4-2	OL-SW-60333	4	--						6			Appendix C
					NorthDeep	DEEP_N	58	--						6			Appendix C
					SouthDeep	DEEP_S	61	--						6			Appendix C

TABLE 1
WATER QUALITY SAMPLING LOCATIONS AND ANALYSES CONDUCTED

Description	Corresponding Map Sympbol (Figure #)	Number of locations	Number of sampling events	Vertical Sampling intervals	Monitoring Locations: Station ID	Monitoring Locations: Corresponding Database Sample ID	Approx. Total Water Depth[1] (ft)	Approx. Sample Depth[1] (ft)	Mercury [total & filtered]	Methylmercury [total]	VOCs (CPOIs)[2]	PCBs	SVOCs (CPOIs)[2]	Rapid profiling parameters[3]	Field measurements[4]	Current velocity[5]	Table/Appendix presenting field data
									number of samples								
Discrete Turbidity **Book 1 Baseline Monitoring Program (supplemental locations in bold and italics)**	◉ (Figure 2)	23	6 (Oct 18; Oct 25; Nov 1; Nov 11; Nov 15; Nov 29)	Continuous	ISUS-5	--	40	--						6			Appendix D
					ISUS-6	--	30	--						6			Appendix D
					ISUS-7	--	6	--						6			Appendix D
					ISUS-8	--	54	--						6			Appendix D
					ISUS-9	--	32	--						6			Appendix D
					ISUS-11	--	61	--						6			Appendix D
					ISUS-12	--	59	--						6			Appendix D
					ISUS-13	--	59	--						6			Appendix D
					ISUS-15	--	27	--						6			Appendix D
					ISUS-18	--	61	--						6			Appendix D
					ISUS-22	--	54	--						6			Appendix D
					ISUS-27	--	57	--						6			Appendix D
					ISUS-34	--	34	--						6			Appendix D
					ISUS-37	--	6	--						6			Appendix D
					ISUS-38	--	37	--						6			Appendix D
					ISUS-39	--	24	--						6			Appendix D
					ISUS-40	--	52	--						6			Appendix D
					ISUS-41	--	52	--						6			Appendix D
					ISUS-42	--	28	--						6			Appendix D
					ISUS-43	--	49	--						6			Appendix D
					ISUS-44	--	7	--						6			Appendix D
					ISUS-45	--	42	--						6			Appendix D
					ISUS-46	--	37	--						6			Appendix D
Current Velocity/ Continuous Turbidity[6]	☐ (Figure 1)	4	3	surface, mid-depth, near	T1	OL-SW-40313	10.5	0, 5, 9								9	Table 3, Appendix E
					T2	OL-SW-10194	10	0, 5, 9								9	Table 3, Appendix E
					T3	OL-SW-60328	8	0, 4, 7								9	Table 3, Appendix E
					T4	OL-SW-60329	6.5	0, 3, 5.5								9	Table 3, Appendix E

Notes:

1. These depths represent conditions during discrete water sampling during the October 25 and 26 event. Depths recorded during the other two sampling events were no more than 1 foot different with the exception of OL-SW-40313 where the water depth was approximately 2.5 feet shallower during the November 9 to 10, 2010 event.
2. CPOI list for VOCs are the same compounds as those listed in the Revised PDI QUAPP (Parsons, 2010).
3. Rapid profiling parameters included turbidity, temperature, beam attenuation coefficient, specific conductance, chlorophyll, and photosynthetically active radiance. Non-ISUS profiles also included optical backscattering.
4. Field measurements included pH, temperature, specific conductance, and oxidation-reduction potential.
5. Current velocity measurements were recorded at surface, mid-depth, and near bottom for a total of three velocities per event.
6. Continuous turbidity measurements were recorded at mid-depth, logged every 10 minutes.

			Location	DEEP_N	DEEP_N	DEEP_N	DEEP_S	DEEP_S	DEEP_S	FIELD QC	FIELD QC	FIELD QC	OL-SW-10194	OL-SW-10194	OL-SW-10194	OL-SW-10194
			Sample Depth	31-31 FT	31-31 FT	32-32 FT	33-33 FT	33.5-33.5 FT	33.5-33.5 FT				5-5 FT	4.4-4.4 FT	4.4-4.4 Ft	4.4-4.4 Ft
			Field Sample ID	OL-1353-01	OL-1358-03	OL-1378-01	OL-1354-03	OL-1358-05	OL-1379-01	OL-1356-05	OL-1360-07	OL-1380-05	OL-1355-03	OL-1360-01	OL-1360-01A	OL-1360-01B
			Abbreviated ID	North Deep	North Deep	North Deep	South Deep	South Deep	South Deep				T2	T2	T2	T2
			Sample Date	10/25/2010	11/9/2010	11/16/2010	10/25/2010	11/9/2010	11/16/2010	10/26/2010	11/10/2010	11/18/2010	10/26/2010	11/10/2010	11/10/2010	11/10/2010
			SDG	1044039|C0J260540|UFICHM2010-045	UFICHM2010-050|C0K100473|1046015	1047013|UFICHM2010-051|C0K170502	C0J260541|UFICHM2010-045|1044038	UFICHM2010-050|C0K100473|1046015	1047014|UFICHM2010-051|C0K170498	1044041|C0J270570	C0K110569|1046024	1047037|C0K200411	1044040|UFICHM2010-045|C0J270568	C0K110569|1046024	UFICHM2010-050	UFICHM2010-050
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	EB	EB	EB	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Blank water (field)	Blank water (field)	Blank water (field)	Surface water	Surface water	Surface water	Surface water
Method	Parameter Name	Units	Filtered													
E1630	METHYL MERCURY	ug/L	N	8.40E-05 J	1.22E-04	6.70E-05	6.40E-05 J	1.21E-04	6.20E-05	2.00E-05 U	2.00E-05 U	2.00E-05 U	1.02E-04	1.07E-04		
E1631	MERCURY	ug/L	N	0.00061	0.0012 J	0.00088	0.00091	0.0046 J	0.0014	0.00012 U	0.0118 J	0.00035 J	0.0015	0.0014 J		
E1631	MERCURY	ug/L	Y	0.00013 J	0.00028 J	0.00027 J	0.00012 U	0.00028 J	0.00042 J	0.00012 U	0.0012 J	0.00016 J	0.00012 U	0.00022 J		
SM2540D	Total Suspended Solids	mg/L	N	2.8 J	2 J	2 J	2.8 J	2.4 J	2.4 J	4 U	4 U	4 U	4 U	2 J		
SW8082	AROCLOR-1016	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1221	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1232	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1242	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1248	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1254	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0055 J		
SW8082	AROCLOR-1260	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1262	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	AROCLOR-1268	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0096 U		
SW8082	PCBS, N.O.S.	ug/L	N	0.01 U	0.0095 U	0.0099 U	0.01 U	0.0094 U	0.0096 U	0.01 U	0.0095 U	0.0095 U	0.01 U	0.0055 J		
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	1,2-DICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	1,3-DICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	1,4-DICHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	BENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.14 J	0.16 J	1 U	1 U		
SW8260	CHLOROBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	ETHYLBENZENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	O-XYLENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
SW8260	TOLUENE	ug/L	N	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.83 J	0.88 J	1 U	1 U		
SW8260	XYLENES, M & P	ug/L	N	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
SW8260	XYLENES, TOTAL	ug/L	N	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U		
SW8270	ACENAPHTHENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.035 J	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	ACENAPHTHYLENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.047 J	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	ANTHRACENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.13 J	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	BENZO(A)ANTHRACENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	1.4	0.26 U	0.19 U	0.062 J	0.21 U	0.19 U		
SW8270	BENZO(A)PYRENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	1.1	0.067 J	0.19 U	0.051 J	0.21 U	0.19 U		
SW8270	BENZO(B)FLUORANTHENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	1.6	0.079 J	0.19 U	0.13 J	0.21 U	0.19 U		
SW8270	BENZO(G,H,I)PERYLENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.78	0.25 J	0.19 U	0.3	0.21 U	0.19 U		
SW8270	BENZO(K)FLUORANTHENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.75	0.12 J	0.19 U	0.2	0.21 U	0.19 U		
SW8270	CHRYSENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	1.3	0.26 U	0.19 U	0.11 J	0.21 U	0.19 U		
SW8270	DIBENZO(A,H)ANTHRACENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.81	0.46	0.19 U	0.37	0.21 U	0.19 U		
SW8270	FLUORANTHENE	ug/L	N	0.033 J	0.19 U	0.38	0.032 J	0.19 U	1.7	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	FLUORENE	ug/L	N	0.032 J	0.19 U	0.2 U	0.062 J	0.19 U	0.54	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	INDENO(1,2,3-CD)PYRENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.97	0.23 J	0.19 U	0.25	0.21 U	0.19 U		
SW8270	NAPHTHALENE	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.19 U	0.13 J	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	PHENANTHRENE	ug/L	N	0.17 J	0.19 U	0.27	0.35	0.19 U	0.32	0.2 J	0.19 U	0.19 U	0.12 J	0.19 U		
SW8270	PHENOL	ug/L	N	0.22 U	0.19 U	0.2 U	0.21 U	0.19 U	0.19 U	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
SW8270	PYRENE	ug/L	N	0.03 J	0.19 U	0.15 J	0.02 J	0.19 U	1.5	0.26 U	0.19 U	0.19 U	0.21 U	0.19 U		
UFI SOP	AMMONIA	mg/L	N	0.322	0.245	0.193	0.298	0.245	0.214				0.328		0.232	0.242
UFI SOP	Beam Attenuation Coefficient	1/m	N	1.89	2.46	2.04	2.44	3.73	2.08				2.14		2.49	2.1
UFI SOP	CHLOROPHYLL-A	ug/L	N	2.4	3.4	5.4	2.9	4.2	5.6				1.2		4.6 J	4.7 J
UFI SOP	NITRITE	mg/l	N	0.049	0.073	0.097	0.049	0.072	0.094				0.049		0.072	0.072
UFI SOP	NITROGEN, NITRATE-NITRITE	mg/L	N	1.832	1.709	1.875	1.999	2.03	1.999				1.886		1.797	1.766
UFI SOP	PHOSPHORUS, DISSOLVED (AS P)	ug/l	Y	27.9	25.1	19.1	24.6	22.1	19.5				24.6		24.5	24.5
UFI SOP	PHOSPHORUS, TOTAL (AS P)	mg/L	N	0.0414	0.0359	0.0301	0.0381	0.0393	0.0328				0.0371		0.0376	0.0352
UFI SOP	REACTIVE PHOSPHATE	mg/L	N	0.0213	0.0177	0.0144	0.0178	0.0149	0.0129				0.0188		0.0167	0.0165
UFI SOP	TURBIDITY	NTU	N	1.9	1.9	1.2	2.5	2.8	1.3				1.7		1.8	2

			Location	OL-SW-10194	OL-SW-10194	OL-SW-40313	OL-SW-40313	OL-SW-40313	OL-SW-60328	OL-SW-60328	OL-SW-60328	OL-SW-60328	OL-SW-60328	OL-SW-60328	OL-SW-60328	OL-SW-60328
			Sample Depth	4.4-4.4 Ft	5-5 FT	5-5 FT	3.95-4 FT	5-5 FT	4-4 FT	4-4 FT	3.8-3.8 FT	3.8-3.8 FT	4-4 FT	4-4 Ft	4-4 Ft	4-4 Ft
			Field Sample ID	OL-1360-01C	OL-1380-02	OL-1353-04	OL-1359-02	OL-1380-01	OL-1356-01	OL-1356-02	OL-1360-03	OL-1360-04	OL-1380-03	OL-1380-03A	OL-1380-03B	OL-1380-03C
			Abbreviated ID	T2	T2	T1	T1	T1	T3	T3	T3	T3	T3	T3	T3	T3
			Sample Date	11/10/2010	11/18/2010	10/25/2010	11/10/2010	11/18/2010	10/26/2010	10/26/2010	11/10/2010	11/10/2010	11/18/2010	11/18/2010	11/18/2010	11/18/2010
			SDG	UFICHM2010-050	UFICHM2010-051|1047037|C0K200411	1044039|C0J260540|UFICHM2010-045	UFICHM2010-050|1046025|C0K110574	UFICHM2010-051|1047037|C0K200411	1044041|C0J270570|UFICHM2010-045	1044041|C0J270570	UFICHM2010-050|C0K110569|1046024	C0K110569|1046024	1047037|C0K200411	UFICHM2010-051	UFICHM2010-051	UFICHM2010-051
			Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
			Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample
			Sample Type	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water	Surface water
Method	Parameter Name	Units	Filtered													
E1630	METHYL MERCURY	ug/L	N		5.10E-05	9.80E-05 J	7.40E-05	5.60E-05	8.60E-05	1.00E-04	1.26E-04	1.08E-04	1.00E-04			
E1631	MERCURY	ug/L	N		0.0021	0.00091	0.00083	0.0017	0.00071	0.00071	0.003 J	0.0035 J	0.0132			
E1631	MERCURY	ug/L	Y		0.00026 J	0.00012 U	0.00015 J	0.00029 J	0.00012 U	0.00012 U	0.00035 J	0.00034 J	0.00036 J			
SM2540D	Total Suspended Solids	mg/L	N		4 U	2 J	4 U	4 U	5.2	4	2.4 J	2.8 J	3.2 J			
SW8082	AROCLOR-1016	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1221	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1232	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1242	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1248	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1254	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0095 J	0.0089 J	0.0095 U			
SW8082	AROCLOR-1260	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1262	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	AROCLOR-1268	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0096 U	0.0096 U	0.0095 U			
SW8082	PCBS, N.O.S.	ug/L	N		0.0099 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.01 U	0.0095 J	0.0089 J	0.0095 U			
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	N		1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	N		1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	1,2-DICHLOROBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	1,3-DICHLOROBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	1,4-DICHLOROBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	BENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	CHLOROBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	ETHYLBENZENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	O-XYLENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	TOLUENE	ug/L	N		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
SW8260	XYLENES, M & P	ug/L	N		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U			
SW8260	XYLENES, TOTAL	ug/L	N		3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U			
SW8270	ACENAPHTHENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	ACENAPHTHYLENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	ANTHRACENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	BENZO(A)ANTHRACENE	ug/L	N		0.19 U	0.077 J	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	BENZO(A)PYRENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	BENZO(B)FLUORANTHENE	ug/L	N		0.19 U	0.041 J	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	BENZO(G,H,I)PERYLENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	BENZO(K)FLUORANTHENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	CHRYSENE	ug/L	N		0.19 U	0.063 J	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	DIBENZO(A,H)ANTHRACENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	FLUORANTHENE	ug/L	N		0.19 U	0.048 J	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.016 J	0.031 J			
SW8270	FLUORENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.029 J	0.2 U	0.2 U	0.19 U			
SW8270	INDENO(1,2,3-CD)PYRENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	NAPHTHALENE	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	PHENANTHRENE	ug/L	N		0.19 U	0.091 J	0.2 U	0.2 U	0.12 J	0.19 J	0.2 U	0.2 U	0.058 J			
SW8270	PHENOL	ug/L	N		0.19 U	0.23 U	0.2 U	0.2 U	0.22 U	0.22 U	0.2 U	0.2 U	0.19 U			
SW8270	PYRENE	ug/L	N		0.016 J	0.06 J	0.2 U	0.2 U	0.022 J	0.034 J	0.2 U	0.2 U	0.026 J			
UFI SOP	AMMONIA	mg/L	N	0.241	0.219	0.309	0.233	0.21	0.295		0.251			0.212	0.21	0.205
UFI SOP	Beam Attenuation Coefficient	1/m	N	2.36	1.66	2.27	2.19	2.63	5.41		2.88			4.6	4.43	4.43
UFI SOP	CHLOROPHYLL-A	ug/L	N	5.5 J	2.1	3.3	5.4 J	2.8	1.3		4.3 J			4.5	4.6	3.6
UFI SOP	NITRITE	mg/l	N	0.071	0.091	0.049	0.074	0.089	0.04		0.062			0.092	0.091	0.09
UFI SOP	NITROGEN, NITRATE-NITRITE	mg/L	N	1.774	2.099	1.917	1.645	1.983	1.869		3.023			2.262	2.415	2.146
UFI SOP	PHOSPHORUS, DISSOLVED (AS P)	ug/l	Y	26.5	20.1	26.6	24.5	20.4	21		22.8			18.8	19.1	19.7
UFI SOP	PHOSPHORUS, TOTAL (AS P)	mg/L	N	0.0373	0.0276	0.0407	0.0366	0.0309	0.0411		0.039			0.0348	0.0365	0.0347
UFI SOP	REACTIVE PHOSPHATE	mg/L	N	0.0167	0.0137	0.0192	0.0176	0.0144	0.0154		0.0135			0.0129	0.0128	0.0128
UFI SOP	TURBIDITY	NTU	N	1.8	1.4	2.1	1.6	2.4	5.8		2.5			3.9	4.1	3.9

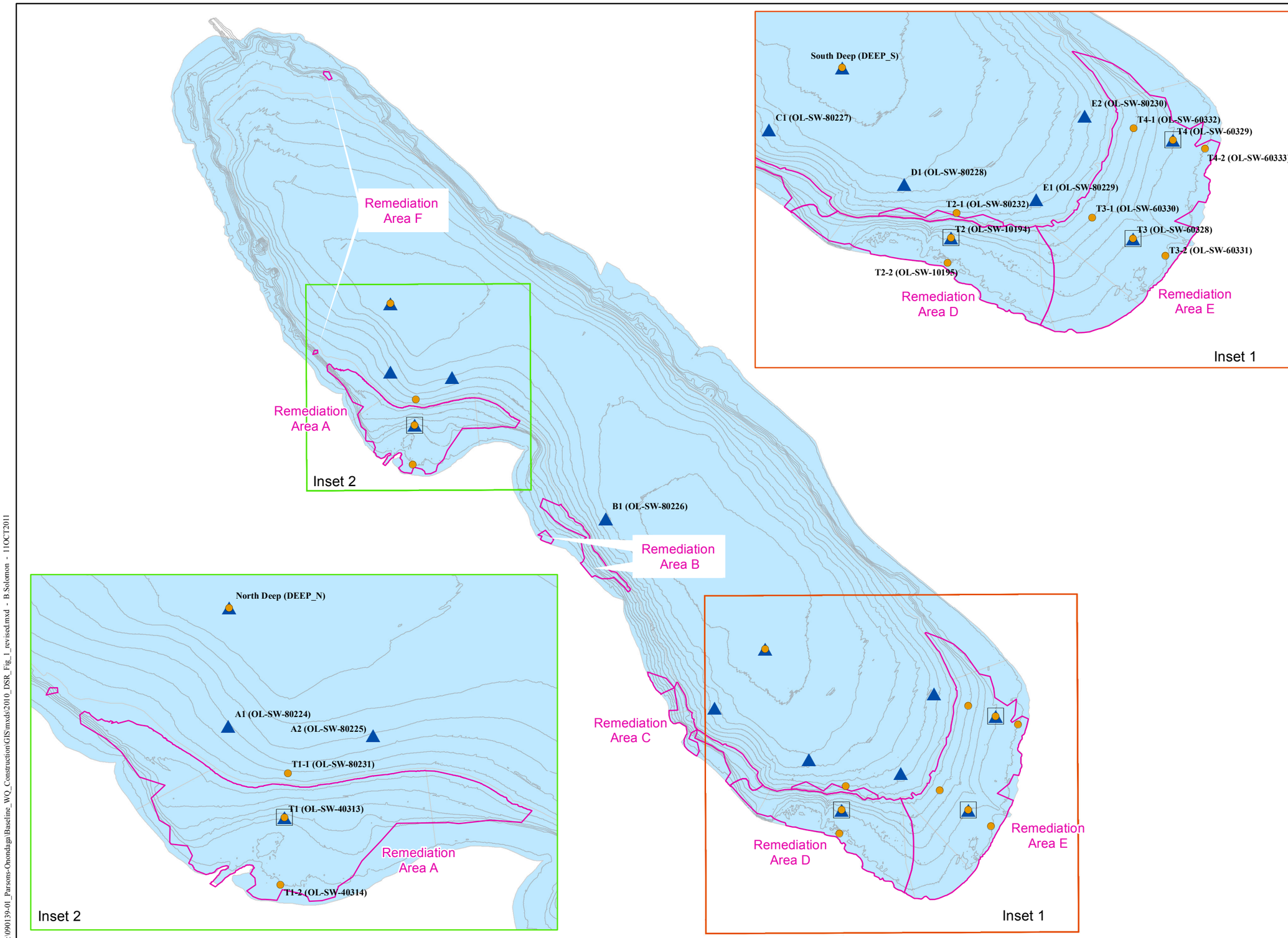
			Location	OL-SW-60329		OL-SW-60329		OL-SW-60329		OL-SW-80224		OL-SW-80224		OL-SW-80224		OL-SW-80225		OL-SW-80225		OL-SW-80225		OL-SW-80226		OL-SW-80226		OL-SW-80226		OL-SW-80227	
			Sample Depth	3-3 FT		3.6-3.6 FT		3.5-3.5 FT		22.5-22.5 FT		22-22 FT		22-22 FT		25-25 FT		24.5-24.5 FT		25-25 FT		29-29 FT		29-29 FT		30-30 FT		25.5-25.5 FT	
			Field Sample ID	OL-1356-03		OL-1360-05		OL-1380-04		OL-1353-02		OL-1359-01		OL-1378-02		OL-1353-03		OL-1358-02		OL-1378-03		OL-1354-01		OL-1359-03		OL-1378-04		OL-1354-02	
			Abbreviated ID	T4		T4		T4		A1		A1		A1		A2		A2		A2		B1		B1		B1		C1	
			Sample Date	10/26/2010		11/10/2010		11/18/2010		10/25/2010		11/10/2010		11/16/2010		10/25/2010		11/9/2010		11/16/2010		10/25/2010		11/10/2010		11/16/2010		10/25/2010	
			SDG	1044041|C0J270570 |UFICHM2010-045		UFICHM2010-050|C0K110569|1046024		UFICHM2010-051|1047037|C0K200411		1044039|C0J260540 |UFICHM2010-045		UFICHM2010-050|1046025|C0K110574		1047013|UFICHM2010-051|C0K170502		1044039|C0J260540 |UFICHM2010-045		UFICHM2010-050|C0K100473|1046015		1047013|UFICHM2010-051|C0K170502		C0J260541|UFICHM2010-045|1044038		UFICHM2010-050|1046025|C0K110574		1047013|UFICHM2010-051|C0K170502		C0J260541|UFICHM2010-045|1044038	
			Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
			Sample Purpose	Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample	
			Sample Type	Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water	
Method	Parameter Name	Units	Filtered																										
E1630	METHYL MERCURY	ug/L	N	8.80E-05		7.20E-05		1.00E-04		9.00E-05	J	7.80E-05		5.80E-05		6.20E-05	J	1.53E-04		6.40E-05		6.70E-05	J	7.90E-05		5.80E-05		7.80E-05	J
E1631	MERCURY	ug/L	N	0.00081		0.00071	J	0.0199		0.00079		0.00099		0.00093		0.00068		0.0012	J	0.0011		0.00095		0.0012		0.0012		0.0011	
E1631	MERCURY	ug/L	Y	0.00012	U	0.00024	J	0.00041	J	0.00012	U	0.00026	J	0.00028	J	0.00012	U	0.00023	J	0.00025	J	0.00012	U	0.00014	J	0.00021	J	0.00012	U
SM2540D	Total Suspended Solids	mg/L	N	4.4		2	J	37.2		2.4	J	4	U	4	U	2	J	4	U	2	J	3.6	J	2	J	4	U	3.2	J
SW8082	AROCLOR-1016	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1221	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1232	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1242	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1248	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1254	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1260	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1262	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	AROCLOR-1268	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8082	PCBS, N.O.S.	ug/L	N	0.01	U	0.0096	U	0.0095	U	0.01	U	0.0095	U	0.0098	U	0.01	U	0.0097	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	UJ	1	U	1	U
SW8260	1,2-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,3-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,4-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	BENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	CHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	ETHYLBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	O-XYLENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	TOLUENE	ug/L	N	1	U	1	U	1	U	1	U	0.16	J	1	U	1	U	0.24	J	1	U	1	U	1	U	1	U	1	U
SW8260	XYLENES, M & P	ug/L	N	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
SW8260	XYLENES, TOTAL	ug/L	N	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
SW8270	ACENAPHTHENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	0.19	U	0.21	U
SW8270	ACENAPHTHYLENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	0.19	U	0.21	U
SW8270	ANTHRACENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.022	J	0.19	U	0.094	J	0.26	U	0.19	U	1.3		0.21	U
SW8270	BENZO(A)ANTHRACENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	1		0.26	U	0.19	U	11		0.21	U
SW8270	BENZO(A)PYRENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.47		0.26	U	0.19	U	8.9		0.21	U
SW8270	BENZO(B)FLUORANTHENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	1		0.26	U	0.19	U	12		0.21	U
SW8270	BENZO(G,H,I)PERYLENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.17	J	0.26	U	0.19	U	12		0.21	U
SW8270	BENZO(K)FLUORANTHENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	10		0.21	U
SW8270	CHRYSENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.88		0.26	U	0.19	U	11		0.21	U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	11		0.21	U
SW8270	FLUORANTHENE	ug/L	N	0.026	J	0.2	U	0.061	J	0.02	J	0.2	U	0.2	U	0.067	J	0.19	U	2		0.26	U	0.19	U	4.9		0.019	J
SW8270	FLUORENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.061	J	0.19	U	0.2	U	0.26	U	0.19	U	0.57		0.21	U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.47		0.26	U	0.19	U	11		0.21	U
SW8270	NAPHTHALENE	ug/L	N	0.21	U	0.2	U	0.069	J	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	0.19	U	0.21	U
SW8270	PHENANTHRENE	ug/L	N	0.1	J	0.2	U	0.043	J	0.22	J	0.2	U	0.052	J	0.51		0.19	U	0.3		0.22	J	0.19	U	0.5		0.14	J
SW8270	PHENOL	ug/L	N	0.21	U	0.2	U	0.19	U	0.23	U	0.2	U	0.2	U	0.23	U	0.19	U	0.2	U	0.26	U	0.19	U	0.19	U	0.21	U
SW8270	PYRENE	ug/L	N	0.03	J	0.2	U	0.049	J	0.23	U	0.2	U	0.2	U	0.026	J	0.19	U	1.6		0.025	J	0.19	U	5.4		0.21	U
UFI SOP	AMMONIA	mg/L	N	0.288		0.221		0.13		0.323		0.24		0.199		0.319		0.258		0.196		0.298		0.238		0.209		0.308	
UFI SOP	Beam Attenuation Coefficient	1/m	N	5.21		1.4		54.45		2.36		2.06		1.87		2.19		2.68		1.83		2.19		2.4		1.74		2.14	
UFI SOP	CHLOROPHYLL-A	ug/L	N	0.2	J	1.3	J	2.3		2.7		3.3	J	4.9		0.3	J	3.4		4.5		1.2		4.2	J	3.4		1.6	
UFI SOP	NITRITE	mg/l	N	0.039		0.064		0.024		0.05		0.075		0.097		0.051		0.074		0.099		0.049		0.075		0.093		0.05	
UFI SOP	NITROGEN, NITRATE-NITRITE	mg/L	N	2.111		1.767		2.249		1.847		1.716		1.972		1.908		2.013	J	1.862		2.195		1.693		1.939		2.01	
UFI SOP	PHOSPHORUS, DISSOLVED (AS P)	ug/l	Y	20.4		24.1		12.1		29.6		25.1		20.7		28.6		24.8		21.1		24.3		24.1		20.4		25.6	
UFI SOP	PHOSPHORUS, TOTAL (AS P)	mg/L	N	0.0421		0.0302		0.0606		0.0424		0.0366		0.0312		0.0388		0.0349		0.0318		0.0348		0.0363		0.0309		0.0381	
UFI SOP	REACTIVE PHOSPHATE	mg/L	N	0.0138		0.0161		0.0064		0.0218		0.0181		0.0152		0.0213		0.0175		0.0152		0.0175		0.0172		0.0146		0.0185	
UFI SOP	TURBIDITY	NTU	N	5.9		1.1		62.8		1.8		1.7		1.3		2.2		2.1		1.2		2.2		1.8		1.2		3.1	

			Location	OL-SW-80227		OL-SW-80227		OL-SW-80228		OL-SW-80228		OL-SW-80228		OL-SW-80229		OL-SW-80229		OL-SW-80230		OL-SW-80230		OL-SW-80230		OL-SW-80230	
			Sample Depth	25-25 FT		25.5-25.5 FT		29-29 FT		28.2-28.2 FT		28.5-28.5 FT		21-21 FT		20.9-20.9 FT		21-21 FT		22-22 FT		21-21 FT		21-21 FT	
			Field Sample ID	OL-1358-04		OL-1378-05		OL-1355-01		OL-1359-04		OL-1379-02		OL-1355-02		OL-1360-02		OL-1379-03		OL-1356-04		OL-1360-06		OL-1379-04		OL-1379-05	
			Abbreviated ID	C1		C1		D1		D1		D1		E1		E1		E1		E2		E2		E2		E2	
			Sample Date	11/9/2010		11/16/2010		10/26/2010		11/10/2010		11/16/2010		10/26/2010		11/10/2010		11/16/2010		10/26/2010		11/10/2010		11/16/2010		11/16/2010	
			SDG	UFICHM2010-050|C0K100473|1046015		1047013|UFICHM2010-051|C0K170502		1044040|UFICHM2010-045|C0J270568		UFICHM2010-050|1046025|C0K110574		1047014|UFICHM2010-051|C0K170498		1044040|UFICHM2010-045|C0J270568		UFICHM2010-050|C0K110569|1046024		1047014|UFICHM2010-051|C0K170498		1044041|C0J270570|UFICHM2010-045		UFICHM2010-050|C0K110569|1046024		1047014|UFICHM2010-051|C0K170498		1047014|C0K170498	
			Matrix	WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
			Sample Purpose	Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Regular sample		Field duplicate	
			Sample Type	Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water		Surface water	
Method	Parameter Name	Units	Filtered																								
E1630	METHYL MERCURY	ug/L	N	1.09E-04		5.80E-05		9.00E-05		8.90E-05		5.50E-05		8.20E-05		1.07E-04		6.00E-05		1.02E-04		7.00E-05		5.50E-05		6.20E-05	
E1631	MERCURY	ug/L	N	0.00071	J	0.0013		0.0009		0.0019		0.003		0.00093		0.0033	J	0.0014		0.0006		0.0023	J	0.002		0.0014	
E1631	MERCURY	ug/L	Y	0.00034	J	0.00032	J	0.00028	J	0.00021	J	0.00032	J	0.00012	U	0.00027	J	0.00035	J	0.00012	U	0.00016	J	0.00034	J	0.00036	J
SM2540D	Total Suspended Solids	mg/L	N	2	J	4	U	4	U	4	U	2.4	J	2	J	2.4	J	2.4	J	4	U	2.4	J	2.4	J	2.4	J
SW8082	AROCLOR-1016	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1221	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1232	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1242	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1248	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1254	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0065	J	0.0096	U	0.01	U	0.0028	J	0.0095	U	0.0095	U
SW8082	AROCLOR-1260	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1262	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	AROCLOR-1268	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0098	U	0.0096	U	0.01	U	0.0097	U	0.0095	U	0.0095	U
SW8082	PCBS, N.O.S.	ug/L	N	0.0094	U	0.0096	U	0.01	U	0.0096	U	0.0096	U	0.01	U	0.0065	J	0.0096	U	0.01	U	0.0028	J	0.0095	U	0.0095	U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,2-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,3-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	1,4-DICHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	BENZENE	ug/L	N	1	U	0.12	J	1	U	1	U	0.14	J	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	CHLOROBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	ETHYLBENZENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	O-XYLENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	TOLUENE	ug/L	N	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
SW8260	XYLENES, M & P	ug/L	N	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
SW8260	XYLENES, TOTAL	ug/L	N	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
SW8270	ACENAPHTHENE	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	ACENAPHTHYLENE	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	ANTHRACENE	ug/L	N	0.19	U	0.027	J	0.21	U	0.2	U	0.018	J	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.033	J	0.19	U
SW8270	BENZO(A)ANTHRACENE	ug/L	N	0.19	U	0.59		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.28	J	0.19	UJ
SW8270	BENZO(A)PYRENE	ug/L	N	0.19	U	0.35		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.11	J	0.19	U
SW8270	BENZO(B)FLUORANTHENE	ug/L	N	0.19	U	0.37		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.24	J	0.19	UJ
SW8270	BENZO(G,H,I)PERYLENE	ug/L	N	0.19	U	0.14	J	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	BENZO(K)FLUORANTHENE	ug/L	N	0.19	U	0.23		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	CHRYSENE	ug/L	N	0.19	U	0.44		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.24	J	0.19	UJ
SW8270	DIBENZO(A,H)ANTHRACENE	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	FLUORANTHENE	ug/L	N	0.19	U	0.72		0.21	U	0.2	U	0.045	J	0.21	U	0.19	U	0.034	J	0.21	U	0.19	U	0.8	J	0.2	J
SW8270	FLUORENE	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/L	N	0.19	U	0.43		0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	NAPHTHALENE	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.032	J	0.21	U	0.19	U	0.19	U	0.12	J
SW8270	PHENANTHRENE	ug/L	N	0.19	U	0.066	J	0.079	J	0.2	U	0.081	J	0.088	J	0.19	U	0.12	J	0.085	J	0.19	U	0.29		0.45	
SW8270	PHENOL	ug/L	N	0.19	U	0.2	U	0.21	U	0.2	U	0.19	U	0.21	U	0.19	U	0.2	U	0.21	U	0.19	U	0.19	U	0.19	U
SW8270	PYRENE	ug/L	N	0.19	U	0.64		0.21	U	0.2	U	0.039	J	0.21	U	0.19	U	0.034	J	0.21	U	0.19	U	0.64	J	0.05	J
UFI SOP	AMMONIA	mg/L	N	0.245		0.213		0.332		0.24		0.22		0.329		0.248		0.21		0.324		0.232		0.204			
UFI SOP	Beam Attenuation Coefficient	1/m	N	2.77		1.87		2.31		2.62		1.74		2.05		2.98		1.91		2.31		3.14		1.87			
UFI SOP	CHLOROPHYLL-A	ug/L	N	4.2		2.6		1.7		4.7	J	1.4		0.6		5.3	J	3.4		2.5		5.9	J	2.7			
UFI SOP	NITRITE	mg/l	N	0.074		0.093		0.047		0.074		0.091		0.048		0.073		0.096		0.046		0.072		0.093			
UFI SOP	NITROGEN, NITRATE-NITRITE	mg/L	N	1.998	J	1.995		1.798		1.809		2.154		1.767		1.796		2.139		1.933		1.849		2.036			
UFI SOP	PHOSPHORUS, DISSOLVED (AS P)	ug/l	Y	24.1		20.1		24.3		24.5		20.7		25		23.8		19.1		25.3		22.4		18.5			
UFI SOP	PHOSPHORUS, TOTAL (AS P)	mg/L	N	0.0373		0.0305		0.0375		0.0366		0.0305		0.0365		0.0386		0.0305		0.0355		0.0386		0.0295			
UFI SOP	REACTIVE PHOSPHATE	mg/L	N	0.0172		0.0142		0.0184		0.0164		0.0149		0.0187		0.0156		0.013		0.0195		0.0154		0.0125			
UFI SOP	TURBIDITY	NTU	N	2.2		1.4		2.1		2.1		1.6		2.2		2.4		1.4		1.8		2.2		1.3			

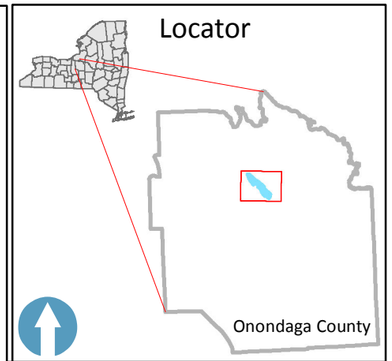
Table 3
Velocity Measurement Data

Station ID	Location ID	Date	Velocity (cm/s)	Depth (ft)
T1	OL-SW-40313	10/25/2010	0.07	0
			0.07	5
			0.02	9
		11/10/2010	0	0
			0	4
			0.09	6
		11/18/2010	0	0
			0	5
			0	9
T2	OL-SW-10194	10/26/2010	0.12	0
			0.02	5
			0	9
		11/10/2010	0	0
			0	4
			0	7.5
		11/18/2010	0.07	0
			0.03	5
			0	9
T3	OL-SW-60328	10/26/2010	0	0
			0	4
			0	7
		11/10/2010	0	0
			0	3
			0	7
		11/18/2010	0.09	0
			0.07	4
			0.07	7
T4	OL-SW-60329	10/26/2010	0.1	0
			0	3.2
			0	5.5
		11/10/2010	0	0
			0	3
			0	6
		11/18/2010	0.03	0
			0	3.5
			0	6

FIGURES



Locator



Scale

Feet

0 1,000 2,000 4,000

Legend

- Discrete Turbidity Monitoring
- Water Column Sample Locations
- Continuous Turbidity Monitoring and Discrete Current Velocity Monitoring Station
- Remediation Areas
- 2007 Bathymetry (5 ft interval)

Reference:
Bathymetric survey performed by CR Environmental, Inc. for Honeywell in 2007.

Figure 1
2010 Baseline Water Quality Monitoring Locations
Onondaga Lake

Honeywell
PARSONS
ANCHOR QEA
UPSTATE FRESHWATER INSTITUTE

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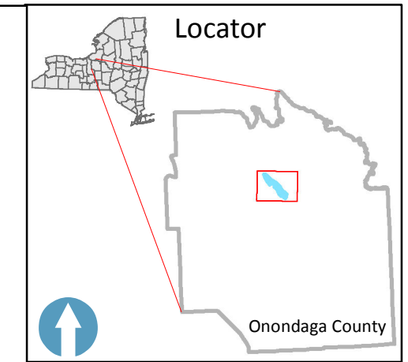
Locator



Scale

0 1,000 2,000 4,000 Feet

Legend

Rapid Profile turbidity monitoring locations

- Ongoing Book 1 location
- Location added as part of 2010 monitoring program
- 2007 Bathymetry (5 ft interval)

Reference:
Bathymetric survey performed by CR Environmental, Inc. for Honeywell in 2007.

Figure 2
2010 Baseline Water Quality Monitoring Locations
Onondaga Lake -

Rapid Profiling Locations

Honeywell
PARSONS
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