



231 W. Michigan St.
Milwaukee, WI 53203

www.we-energies.com

January 30, 2009

Ms. Kimberly Bose
Federal Energy Regulatory Commission
Division of Licensing & Compliance
888 First Street, N.E.
Washington, D.C. 20426

Dear Ms. Bose:

**RE: Chalk Hill Hydroelectric Project – FERC No. 2394 – 017
White Rapids Hydroelectric Project – FERC No. 2357 – 003**

**Article 405 – Water Quality Monitoring Report
Article 406 – Water Chemistry / Sediment Chemistry Monitoring Report**

Wisconsin Electric (WE) doing business as We Energies, is hereby electronically filing the results of the water quality, water chemistry, and sediment chemistry monitoring for the above mentioned Projects performed during 2008 in fulfillment of the monitoring plan approved and incorporated in the articles identified above by FERC for these Projects.

The results of this work satisfy the current Water Quality / Water Chemistry / Sediment Chemistry aspects of the Water Quality Monitoring Plan. The original Water Quality Monitoring Plan (Article 405) was approved by the Commission by order dated January 21, 1998 while, the Water Chemistry / Sediment Chemistry Monitoring Plan (Article 406) was approved by the Commission by order dated December 30, 1997. The Water Quality Monitoring Plan was subsequently modified by the Company, approved by the state agencies, and filed with the Commission in correspondence dated July 17, 2001.

Included in this filing are the following:

Exhibit A; Results of spot check measurements of temperature and dissolved oxygen;
Exhibit B; Results of the quarterly water chemistry measurements;
Exhibit C; Laboratory results for sediment samples collected from the Chalk Hill and White Rapids flowages

With respect to spot check measurements, no violations of Michigan's water quality standards for temperature and dissolved oxygen were found with this revised monitoring program in 2008.

The patterns in water chemistry analytical results among stations and across seasons were substantially similar with data collected in 2003 and 1998 as well as in line with baseline measurements made in 1989-90, contained in Appendix 11 and 10 of the final license applications for the White Rapids and Chalk Hill Projects, respectively.



January 30, 2009
Page 2

The sediment collected from Chalk Hill flowage appeared to have lower concentrations of metals and nutrients relative to what was found in 2004. The values for Chalk Hill flowage were also lower than values for White Rapids Flowage. By contrast, the sediment chemistry analytical results for the White Rapids flowage, which is situated downstream of Chalk Hill flowage, were slightly higher than values reported for White Rapids flowage in 2004.

Enclosed is a proof of service to the agencies listed on the copy list.

Please call me at 906-779-4099 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd P. Jastremski".

Todd P. Jastremski, Manager
Hydroelectric Operations Division

cc: Michael Donofrio, WDNR
Jessica Mistak, MDNR
John Supnick, MDEQ

bcc: John Hrobar
Dave Michaud
Annie Salmona

**CHALK HILL HYDROELECTRIC
PROJECT FERC No. 2394-017**

**WHITE RAPIDS HYDROELECTRIC
PROJECT FERC No. 2357-003**

EXHIBIT A

**RESULTS OF SPOT CHECK MEASUREMENTS OF
TEMPERATURE AND DISSOLVED OXYGEN**

**We Energies
January 2009**

DO & TEMPERATURE MEASUREMENT LOG SHEET

"Z" BRIDGE UPSTREAM OF CHALK HILL				WHITE RAPIDS TAILRACE			REMARKS
DATE	TIME	DO IN PPM	TEMP °C	TIME	DO IN PPM	TEMP °C	
6/2/2008	1030	9.40	18.0	1155	9.20	18.0	71°, sunny, smell none/72°, sunny, smells fishy, DO readings by titration
6/5/2008	1400	9.20	17.0	1500	9.00	17.0	70°, cloudy, flow normal / 70°, cloudy, light rain, DO readings by titration
6/6/2008	1000	8.50	17.0	1100	8.60	17.0	70 ,cloudy,flow normal / 73 cloudy,flow normal, DO Readings by titration
6/9/2008	1500	8.20	20.0	900	8.30	20.0	74 cloudy,flow normal,/ 70 cloudy,flow normal, DO Readings by titration
6/11/2008	945	8.20	18.0	1400	8.00	21.0	45 ,cloudy,flow normal, / 60 cloudy, flow normal, DO Readings by titration
6/14/2008	915	8.00	19.0	1205	7.80	20.0	58 ,sunny,flow normal,muddy,/ 60 ,partly cloudy, DO readings by titration
6/16/2008	935	7.70	19.0	1245	7.90	19.0	55 ,cloudy, river high, DO readings by titration
6/18/2008	900	7.50	18.0	1300	8.30	19.0	55 ,mostly cloudy, river high, DO readings by titration
6/20/2008	1430	7.80	20.0	1215	8.00	20.0	79 , sunny,river normal, DO readings by titration
6/23/2008	830	7.70	19.0	1215	7.90	21.0	58 , partly coudy,flow normal, DO readings by titration
6/25/2008	900	8.10	22.0	1330	7.60	22.0	75 , clear, flow normal, DO readings by titration
6/27/2008	900	7.60	23.0	1400	7.50	24.0	77 , partly coudy, fiow normal, DO readings by titration
6/30/2008	935	7.60	21.0	1238	7.50	23.0	70 , sunny , flow normal, DO readings by titration
7/2/2008	1100	7.55	21.0	1305	7.30	23.0	70 , cloudy, flow normal,DO readings by titration
7/4/2008	800	7.60	21.0	1015	7.40	22.0	75 , clear, flow normal, DO readings by titration
7/7/2008	840	7.50	24.0	1205	8.00	24.0	75 , sunny,river getting low, DO readings by titration
7/9/2008	840	7.30	23.0	1230	7.80	24.0	78 , partly cloudy,flow normal,DO readings by titration
7/11/2008	945	7.30	22.0	1400	7.80	23.0	80 , partly cloudy,flow normal, DO readings by titration
7/14/2008	850	8.00	21.0	950	7.60	23.0	66 , partly coudy, river low, DO readings by titration

"Z" BRIDGE UPSTREAM OF CHALK HILL				WHITE RAPIDS TAILRACE			REMARKS
DATE	TIME	DO IN PPM	TEMP °C	TIME	DO IN PPM	TEMP °C	
7/16/2008	1415	7.80	24.0	1130	8.00	23.0	82 , sunny, river low, DO readings by titration
7/18/2008	1340	7.60	24.0	900	7.50	23.0	85 , partly cloudy, river low, DO readings by titration
7/21/2008	845	7.50	23.0	1350	7.60	24.0	75 , partly cloudy, river low, DO readings by titration
7/23/2008	845	7.80	23.0	1155	7.50	24.0	80 , mostly sunny, river low, DO readings by titration
7/25/2008	850	7.70	24.0	1115	7.90	24.0	72 , sunny, river low, DO readings by titration
7/28/2008	900	7.90	24.0	1230	8.10	25.0	69 , mostly sunny, river low , DO readings by titration
7/30/2008	1345	7.70	25.0	1020	7.50	24.0	73 , mostly sunny , river low, DO readings by titration
8/1/2008	815	7.10	23.0	1120	7.50	25.0	65 , mostly sunny , river low , DO readings by titration
8/4/2008	1415	7.30	25.0	1330	8.10	25.0	78 , cloudy, humid, river low, DO readings by titration
8/6/2008	1240	8.10	25.0	900	7.80	25.0	75 , partly cloudy, river low, DO readings by titration
8/8/2008	1000	7.90	23.0	845	7.70	24.0	60 , mostly sunny , river low, Do readings by titration
8/11/2008	900	7.80	22.0	1245	7.80	23.0	80 , clear, river low, DO readings by titration
8/13/2008	940	7.50	23.0	1245	7.60	23.0	73 , clear, river low , DO readings by titration
8/15/2008	845	7.40	21.0	1330	7.50	23.0	82 , mostly sunny, river low, DO readings by titration
8/18/2008	900	7.60	23.0	1350	7.50	24.0	82 , mostly sunny, river low, DO readings by titration
8/20/2008	1015	7.80	22.0	1300	7.60	23.0	85 , partly cloudy,river low, DO readings by titration
8/25/2008	920	8.00	20.0	1300	7.60	22.0	70, clear,river low,DO readings by titration
8/29/2008	1505	9.00	23.0	930	7.80	22.0	80, partly cloudy, river low, DO readings by titration
9/1/2008	850	7.80	22.0	1250	7.60	23.0	86, sunny, river low, DO readings by titration
9/3/2008	1020	7.80	22.0	1550	8.00	23.0	72, partly cloudy, river low, DO readings by titration
9/5/2008	910	7.80	19.0	1300	7.60	21.0	70, mostly cloudy, riverlow, DO readings by titration

"Z" BRIDGE UPSTREAM OF CHALK HILL				WHITE RAPIDS TAILRACE			REMARKS
DATE	TIME	DO IN PPM	TEMP °C	TIME	DO IN PPM	TEMP °C	
9/8/2008	915	8.00	18.0	1230	8.00	20.0	63, mostly cloudy, river low, DO readings by titration
9/10/2008	950	8.40	18.0	1430	8.10	19.0	74, partly cloudy, river low, DO readings by titration
9/12/2008	1345	8.10	18.0	1230	8.30	19.0	75, mostly sunny, river low, recent rain fall, DO readings by titration
9/15/2008	820	8.00	16.0	930	8.20	18.0	54, cloudy, river low, DO readings by titration
9/17/2008	850	8.40	17.0	1300	8.10	18.0	75, partly cloudy, river low, DO readings by titration
9/19/2008	830	8.30	17.0	1230	8.70	18.0	83, clear, river low, DO readings by titration
9/22/2008	850	8.20	17.0	950	8.70	18.0	62, cloudy, river low, DO readings by titration
9/24/2008	910	8.20	19.0	1220	9.70	20.0	65, partly cloudy, river low, DO readings by titration
9/26/2008	1000	8.70	18.0	1345	9.10	19.0	81, clear, river low, DO readings by titration

CHALK HILL HYDROELECTRIC PROJECT FERC No. 2394-017

WHITE RAPIDS HYDROELECTRIC PROJECT FERC No. 2357-003

EXHIBIT B

RESULTS OF QUARTELY WATER CHEMISTRY MEASUREMENTS

**We Energies
January 2009**

2008 Hydro Water Quality Data Summary

Location	Field Temperature	Field Conductivity	Field pH	Field Dissolved Oxygen	Alkalinity as CaCO3	Total Suspended Solids	Total Dissolved Solids	Sulfate	Color	Ammonia Nitrogen	Total Kjeldahl Nitrogen	Nitrite Nitrogen as N	Nitrate Nitrogen as N	Total Phosphorus	Total Organic Carbon	Chlorophyll A	Total Hardness as CaCO3
	Degrees C	umhos	pH	mg/l	mg/l	mg/l	mg/l	mg/l	-	mg/l	mg/l	mg/l	mg/l	mg/l	mg/m3	mg/l	
CHZ 05/09/08	10.7	192	7.7	10.8	68	3	120	14	107	<0.50	<0.42	<0.036	0.28	<0.17	20.1	1.4	77
CHZ 07/18/08	23.9	281	7.8	8	100	1	170	22	64	<0.50	0.74	<0.036	0.24	0.025	11.3	1.3	120
CHZ 10/29/08	7.3	336	7.9	12.7	130	1	220	33	52	<0.25	<0.42	<0.036	0.17	<0.17	9.3	1.8	140
CHZ 12/03/08	0.1	317	8.4	14	120	<1	210	25	38	<0.25	<0.42	<0.036	0.23	<0.17	7.3	1	130
CHTR 05/09/08	11.2	181	7.6	10.4	60	3	120	14	95	<0.50	<0.42	<0.036	0.28	<0.17	22.5	1.4	86
CHTR 07/18/08	23.1	290	8	7.2	97	2	160	20	60	<0.50	0.69	<0.036	0.21	0.025	12	3.3	110
CHTR 10/29/08	7.3	326	7.8	11.3	120	1	190	36	50	<0.25	<0.42	<0.036	0.17	<0.17	7.7	1.3	140
CHTR 12/03/08	0.5	322	8.3	13.5	120	1	210	25	45	<0.25	<0.42	<0.036	0.22	0.53	7.5	0.84	130
WRTR 05/09/08	11.5	182	7.5	10.6	60	10	110	14	104	<0.50	<0.42	<0.036	0.28	<0.17	25	2.5	77
WRTR 07/18/08	2.5	281	7.7	7.2	98	1	160	20	53	<0.50	0.76	<0.036	0.2	0.03	12	1.3	110
WRTR 10/29/08	7.8	327	8	12.7	130	1	190	32	44	<0.25	<0.42	<0.036	0.15	0.35	7.7	0.54	140
WRTR 12/03/08	0.9	325	8.1	14.6	120	<1	200	26	33	<0.25	<0.42	<0.036	0.21	<0.17	7.2	0.41	140
QC1 05/09/08 (WRTR)					60	11	120	13	93	<0.50	<0.42	<0.036	0.27	<0.17	23.7	3.4	82
QC1 07/18/08 (CHTR)					97	2	150	20	75	<0.50	0.78	<0.036	0.21	0.026	11.9	3.1	110
QC1 10/29/08 (WRTR)					120	<1	210	33	46	<0.25	<0.42	<0.036	0.15	1.5	7.7	0.85	140
QC1 12/03/08 (WRTR)					120	<1	200	25	34	<0.25	<0.42	<0.036	0.21	<0.17	7.7	0.74	140

Location codes: CHZ-upstream of Chalk Hill dam and CTH Z Bridge; CHTR: Chalk Hill Dam Tailrace; WRTR: White Rapids Dam Tailrace

**CHALK HILL HYDROELECTRIC
PROJECT FERC No. 2394-017**

**WHITE RAPIDS HYDROELECTRIC
PROJECT FERC No. 2357-003**

EXHIBIT C

**LABORATORY RESULTS FOR SEDIMENT SAMPLES
COLLECTED FROM CHALK HILL AND WHITE RAPIDS
FLOWAGES**

**We Energies
January 2009**



Pace Analytical Services, Inc.
 1700 Elm Street
 Minneapolis, MN 55414
 (612)607-1700

August 28, 2008

Client Services
 Pace Analytical Green Bay
 1241 Bellevue Street
 Suite 9
 Green Bay, WI 54302

RE: Project: 407829 WE ENERGIES
 Pace Project No.: 1079129

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sylvia Hunter'.

sylvia.hunter@pacelabs.com
 Project Manager

Florida (Nelap) Certification #: E87605
 Illinois Certification #: 200011
 Iowa Certification #: 368
 Minnesota Certification #: 027-053-137
 Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 7

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 407829 WE ENERGIES

Pace Project No.: 1079129

Lab ID	Sample ID	Matrix	Date Collected	Date Received
407829001	CHALK HILL SEDIMENT	Solid	08/14/08 12:00	08/15/08 00:00
407829002	WHITE RAPIDS SEDIMENT	Solid	08/14/08 14:00	08/15/08 00:00

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1700 Elm Street
 Minneapolis, MN 55414
 (612)607-1700

SAMPLE ANALYTE COUNT

Project: 407829 WE ENERGIES

Pace Project No.: 1079129

Lab ID	Sample ID	Method	Analysts	Analytes Reported
407829001	CHALK HILL SEDIMENT	EPA 1664 OG	MJS	1
407829002	WHITE RAPIDS SEDIMENT	EPA 1664 OG	MJS	1

REPORT OF LABORATORY ANALYSIS

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 Minneapolis, MN 55414
 (612)607-1700

ANALYTICAL RESULTS

Project: 407829 WE ENERGIES

Pace Project No.: 1079129

Sample: CHALK HILL SEDIMENT Lab ID: 407829001 Collected: 08/14/08 12:00 Received: 08/15/08 00:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG Preparation Method: EPA 1664 OG								
Oil and Grease	100J	mg/kg	250	66.0	1	08/26/08 13:42	08/26/08 13:50		

Sample: WHITE RAPIDS SEDIMENT Lab ID: 407829002 Collected: 08/14/08 14:00 Received: 08/15/08 00:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 HEM, Oil and Grease	Analytical Method: EPA 1664 OG Preparation Method: EPA 1664 OG								
Oil and Grease	<66.0	mg/kg	250	66.0	1	08/26/08 13:42	08/26/08 13:50		

Date: 08/28/2008 04:45 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 1700 Elm Street
 Minneapolis, MN 55414
 (612)607-1700

QUALITY CONTROL DATA

Project: 407829 WE ENERGIES

Pace Project No.: 1079129

QC Batch:	WET/13780	Analysis Method:	EPA 1664 OG
QC Batch Method:	EPA 1664 OG	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	407829001, 407829002		

METHOD BLANK:	517135	Matrix:	Solid
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Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/kg	95.0J	250	08/26/08 13:50	

LABORATORY CONTROL SAMPLE: 517136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	2000	1900	95	78-114	

MATRIX SPIKE SAMPLE: 517137

Parameter	Units	1078945001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/kg	25600	44100	68200	96	78-114	

SAMPLE DUPLICATE: 517138

Parameter	Units	1078945001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/kg	25600	21400	18	18	

Date: 08/28/2008 04:45 PM

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 407829 WE ENERGIES
Pace Project No.: 1079129

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

Date: 08/28/2008 04:45 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 407829 WE ENERGIES

Pace Project No.: 1079129

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
407829001	CHALK HILL SEDIMENT	EPA 1664 OG	WET/13780	EPA 1664 OG	WET/13808
407829002	WHITE RAPIDS SEDIMENT	EPA 1664 OG	WET/13780	EPA 1664 OG	WET/13808

Date: 08/28/2008 04:45 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

1241 Bellevue Street

Green Bay, WI 54302

(920)469-2436

October 02, 2008

David Kollakowsky
We Energies
PO Box 2179
Room P129
Milwaukee, WI 532012179

RE: Project: 1208640 HYDRO SEDIMENT
Pace Project No.: 407829

Dear David Kollakowsky:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brian Basten'.

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

1241 Bellevue Street

Green Bay, WI 54302

(920)469-2436

CERTIFICATIONS

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

Green Bay Certification IDs

Louisiana Certification #: 04168

Kentucky Certification #: 82

Wisconsin DATCP Certification #: 105-444

Wisconsin Certification #: 405132750

South Carolina Certification #: 83006001

Minnesota Certification #: 055-999-334

North Carolina Certification #: 503

North Dakota Certification #: R-150

New York Certification #: 11888

Illinois Certification #: 200050

Florida (NELAP) Certification #: E87948

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169

Kentucky Certification #: 83

Wisconsin DATCP Certification #: 105-444

Wisconsin Certification #: 405132750

South Carolina Certification #: 83006001

Minnesota Certification #: 055-999-334

North Carolina Certification #: 503

North Dakota Certification #: R-200

New York Certification #: 11887

Illinois Certification #: 200051

Florida (NELAP) Certification #: E87951

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.

1241 Bellevue Street

Green Bay, WI 54302

(920)469-2436

SAMPLE SUMMARY

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

Lab ID	Sample ID	Matrix	Date Collected	Date Received
407829001	CHALK HILL SEDIMENT	Solid	08/14/08 12:00	08/15/08 13:10
407829002	WHITE RAPIDS SEDIMENT	Solid	08/14/08 14:00	08/15/08 13:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
407829001	CHALK HILL SEDIMENT	ASTM D2974-87	AG	1	PASI-G
		EPA 160.4	RRS	1	PASI-G
		EPA 351.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 6010	DLB	11	PASI-G
		EPA 7471	LMS	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		EPA 9060 Modified	PK1	3	PASI-G
407829002	WHITE RAPIDS SEDIMENT	ASTM D2974-87	AG	1	PASI-G
		EPA 160.4	RRS	1	PASI-G
		EPA 351.2	DAW	1	PASI-G
		EPA 365.4	DAW	1	PASI-G
		EPA 6010	DLB	11	PASI-G
		EPA 7471	LMS	1	PASI-G
		EPA 8082	CAH	10	PASI-G
		EPA 9060 Modified	PK1	3	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

Sample: CHALK HILL SEDIMENT Lab ID: 407829001 Collected: 08/14/08 12:00 Received: 08/15/08 13:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	12674-11-2	
PCB-1221 (Aroclor 1221)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	11104-28-2	
PCB-1232 (Aroclor 1232)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	11141-16-5	
PCB-1242 (Aroclor 1242)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	53469-21-9	
PCB-1248 (Aroclor 1248)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	12672-29-6	
PCB-1254 (Aroclor 1254)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	11096-82-5	
PCB, Total	<21.7 ug/kg		171	21.7	1	08/19/08 06:46	08/19/08 21:31	1336-36-3	
Tetrachloro-m-xylene (S)	80 %	50-137			1	08/19/08 06:46	08/19/08 21:31	877-09-8	
Decachlorobiphenyl (S)	79 %	56-130			1	08/19/08 06:46	08/19/08 21:31	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.1 mg/kg		1.7	0.10	1	08/19/08 15:10	08/21/08 00:09	7440-38-2	
Barium	30.4 mg/kg		0.43	0.090	1	08/19/08 15:10	08/21/08 00:09	7440-39-3	
Cadmium	0.11J mg/kg		0.43	0.011	1	08/19/08 15:10	08/21/08 00:09	7440-43-9	
Chromium	9.1 mg/kg		0.43	0.049	1	08/19/08 15:10	08/21/08 00:09	7440-47-3	
Copper	6.0 mg/kg		0.85	0.27	1	08/19/08 15:10	08/21/08 00:09	7440-50-8	M0,R1
Lead	4.1 mg/kg		0.85	0.058	1	08/19/08 15:10	08/21/08 00:09	7439-92-1	
Manganese	655 mg/kg		0.43	0.027	1	08/19/08 15:10	08/21/08 00:09	7439-96-5	P6
Nickel	5.5 mg/kg		0.85	0.038	1	08/19/08 15:10	08/21/08 00:09	7440-02-0	
Selenium	0.19J mg/kg		1.7	0.12	1	08/19/08 15:10	08/21/08 00:09	7782-49-2	
Silver	0.030J mg/kg		0.85	0.019	1	08/19/08 15:10	08/21/08 00:09	7440-22-4	
Zinc	25.2 mg/kg		3.4	0.37	1	08/19/08 15:10	08/21/08 00:09	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.081 mg/kg		0.017	0.0028	1	08/19/08 11:18	08/19/08 15:34	7439-97-6	B
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	41.5 %		0.10	0.10	1			08/16/08 08:18	
160.4 Total Volatile Solids	Analytical Method: EPA 160.4								
Total Volatile Solids	5.7 % (w/w)		0.10	0.10	1			08/20/08 12:53	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	2820 mg/kg		155	45.0	1			08/22/08 12:02	7727-37-9
365.4 Total Phosphorus	Analytical Method: EPA 365.4								
Phosphorus	577 mg/kg		77.6	10.2	1			08/22/08 14:22	7723-14-0
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Total Organic Carbon	13100 mg/kg		4350	1220	1			08/19/08 11:19	7440-44-0
Total Organic Carbon	13100 mg/kg		3700	1040	1			08/19/08 11:22	7440-44-0
Mean Total Organic Carbon	13100 mg/kg		4000	1120	1			08/19/08 11:22	7440-44-0

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ANALYTICAL RESULTS

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

Sample: WHITE RAPIDS SEDIMENT Lab ID: 407829002 Collected: 08/14/08 14:00 Received: 08/15/08 13:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	11096-82-5	
PCB, Total	<38.4 ug/kg		303	38.4	1	08/19/08 06:47	08/19/08 21:56	1336-36-3	
Tetrachloro-m-xylene (S)	83 %	50-137			1	08/19/08 06:47	08/19/08 21:56	877-09-8	
Decachlorobiphenyl (S)	83 %	56-130			1	08/19/08 06:47	08/19/08 21:56	2051-24-3	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.1 mg/kg		3.0	0.18	1	08/19/08 15:10	08/21/08 00:21	7440-38-2	
Barium	70.0 mg/kg		0.76	0.16	1	08/19/08 15:10	08/21/08 00:21	7440-39-3	
Cadmium	0.38J mg/kg		0.76	0.019	1	08/19/08 15:10	08/21/08 00:21	7440-43-9	
Chromium	20.7 mg/kg		0.76	0.086	1	08/19/08 15:10	08/21/08 00:21	7440-47-3	
Copper	16.4 mg/kg		1.5	0.48	1	08/19/08 15:10	08/21/08 00:21	7440-50-8	
Lead	10.3 mg/kg		1.5	0.10	1	08/19/08 15:10	08/21/08 00:21	7439-92-1	
Manganese	1450 mg/kg		0.76	0.048	1	08/19/08 15:10	08/21/08 00:21	7439-96-5	
Nickel	11.2 mg/kg		1.5	0.067	1	08/19/08 15:10	08/21/08 00:21	7440-02-0	
Selenium	0.59J mg/kg		3.0	0.22	1	08/19/08 15:10	08/21/08 00:21	7782-49-2	
Silver	<0.034 mg/kg		1.5	0.034	1	08/19/08 15:10	08/21/08 00:21	7440-22-4	
Zinc	68.1 mg/kg		6.1	0.66	1	08/19/08 15:10	08/21/08 00:21	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	0.34 mg/kg		0.030	0.0050	1	08/19/08 11:18	08/19/08 15:36	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	67.0 %		0.10	0.10	1			08/16/08 08:18	
160.4 Total Volatile Solids	Analytical Method: EPA 160.4								
Total Volatile Solids	13.6 % (w/w)		0.10	0.10	1			08/20/08 12:53	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	3170 mg/kg		209	60.6	1			09/03/08 09:27	7727-37-9
365.4 Total Phosphorus	Analytical Method: EPA 365.4								
Phosphorus	951 mg/kg		105	13.8	1			09/03/08 13:37	7723-14-0
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
Total Organic Carbon	61400 mg/kg		11100	3110	1			08/19/08 11:33	7440-44-0
Total Organic Carbon	57400 mg/kg		11100	3110	1			08/19/08 11:36	7440-44-0
Mean Total Organic Carbon	59400 mg/kg		11100	3110	1			08/19/08 11:36	7440-44-0

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	PMST/1727	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	407829001, 407829002		

SAMPLE DUPLICATE: 65641

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	15.6	6	10	

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch: WETA/2138 Analysis Method: EPA 9060 Modified

QC Batch Method: EPA 9060 Modified Analysis Description: 9060 TOC Average

Associated Lab Samples: 407829001, 407829002

METHOD BLANK: 66166 Matrix: Solid

Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	<70.0	250	08/19/08 08:10	

LABORATORY CONTROL SAMPLE: 66167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	1000	940	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 66168 66169

Parameter	Units	9225179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	893	1250	1250	1830	1730	75	67	50-150	5	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 66170 66171

Parameter	Units	1078946001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	60000	36400	28600	67000	79000	19	66	50-150	16	30	M0

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	OEXT/2351	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3541	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	407829001, 407829002		

METHOD BLANK:	66415	Matrix:	Solid
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Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1221 (Aroclor 1221)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1232 (Aroclor 1232)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1242 (Aroclor 1242)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1248 (Aroclor 1248)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1254 (Aroclor 1254)	ug/kg	<12.7	100	08/19/08 17:13	
PCB-1260 (Aroclor 1260)	ug/kg	<12.7	100	08/19/08 17:13	
Decachlorobiphenyl (S)	%	85	56-130	08/19/08 17:13	
Tetrachloro-m-xylene (S)	%	82	50-137	08/19/08 17:13	

LABORATORY CONTROL SAMPLE: 66416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<12.7			
PCB-1221 (Aroclor 1221)	ug/kg		<12.7			
PCB-1232 (Aroclor 1232)	ug/kg		<12.7			
PCB-1242 (Aroclor 1242)	ug/kg		<12.7			
PCB-1248 (Aroclor 1248)	ug/kg		<12.7			
PCB-1254 (Aroclor 1254)	ug/kg		<12.7			
PCB-1260 (Aroclor 1260)	ug/kg	500	419	84	53-109	
Decachlorobiphenyl (S)	%			93	56-130	
Tetrachloro-m-xylene (S)	%			87	50-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 66417 66418

Parameter	Units	407808001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<117			<14.9	<14.9					21	
PCB-1221 (Aroclor 1221)	ug/kg	<117			<14.9	<14.9					21	
PCB-1232 (Aroclor 1232)	ug/kg	<117			<14.9	<14.9					21	
PCB-1242 (Aroclor 1242)	ug/kg	<117			<14.9	<14.9					21	
PCB-1248 (Aroclor 1248)	ug/kg	<117			<14.9	<14.9					21	
PCB-1254 (Aroclor 1254)	ug/kg	<117			<14.9	<14.9					21	
PCB-1260 (Aroclor 1260)	ug/kg	<117	586	586	454	434	77	74	38-110	4	21	
Decachlorobiphenyl (S)	%							82	79	56-130		
Tetrachloro-m-xylene (S)	%							91	86	50-137		

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	WET/2058	Analysis Method:	EPA 160.4
QC Batch Method:	EPA 160.4	Analysis Description:	160.4 Total Volatile Solids
Associated Lab Samples:	407829001, 407829002		

METHOD BLANK: 66464	Matrix: Solid
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Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Volatile Solids	% (w/w)	<0.10	0.10	08/20/08 12:55	

SAMPLE DUPLICATE: 66463

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Volatile Solids	% (w/w)	13.6	14.5	7	20	

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	MERP/1219	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	407829001, 407829002		

METHOD BLANK: 66514 Matrix: Solid

Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.0030J	0.010	08/19/08 15:24	

LABORATORY CONTROL SAMPLE: 66515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.25	0.26	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 66516 66517

Parameter	Units	407754007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	0.031	.27	.27	0.31	0.31	104	104	85-115	.7	20	

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	MPRP/1652	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	407829001, 407829002		

METHOD BLANK: 66630 Matrix: Solid

Associated Lab Samples: 407829001, 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.059	1.0	08/21/08 00:01	
Barium	mg/kg	<0.053	0.25	08/21/08 00:01	
Cadmium	mg/kg	<0.0063	0.25	08/21/08 00:01	
Chromium	mg/kg	<0.028	0.25	08/21/08 00:01	
Copper	mg/kg	<0.16	0.50	08/21/08 00:01	
Lead	mg/kg	<0.034	0.50	08/21/08 00:01	
Manganese	mg/kg	0.029J	0.25	08/21/08 00:01	
Nickel	mg/kg	<0.022	0.50	08/21/08 00:01	
Selenium	mg/kg	<0.073	1.0	08/21/08 00:01	
Silver	mg/kg	<0.011	0.50	08/21/08 00:01	
Zinc	mg/kg	0.47J	2.0	08/21/08 00:01	

LABORATORY CONTROL SAMPLE: 66631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	24.3	97	80-120	
Barium	mg/kg	25	24.5	98	80-120	
Cadmium	mg/kg	25	24.1	96	80-120	
Chromium	mg/kg	25	24.8	99	80-120	
Copper	mg/kg	25	24.2	97	80-120	
Lead	mg/kg	25	23.9	96	80-120	
Manganese	mg/kg	25	23.7	95	80-120	
Nickel	mg/kg	25	24.5	98	80-120	
Selenium	mg/kg	25	23.2	93	80-120	
Silver	mg/kg	12.5	11.6	93	80-120	
Zinc	mg/kg	25	24.1	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 66632 66633

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		407829001	Result	Conc.	Conc.	Result	Result	% Rec	% Rec					
Arsenic	mg/kg	3.1	42.7	42.7	42.3	41.9	92	91	75-125	1	20			
Barium	mg/kg	30.4	42.7	42.7	66.8	67.1	85	86	75-125	.6	20			
Cadmium	mg/kg	0.11J	42.7	42.7	39.4	39.1	92	91	75-125	.8	20			
Chromium	mg/kg	9.1	42.7	42.7	50.1	47.0	96	89	75-125	6	20			
Copper	mg/kg	6.0	42.7	42.7	62.3	50.6	132	104	75-125	21	20	M0,R1		
Lead	mg/kg	4.1	42.7	42.7	41.4	41.0	87	86	75-125	.9	20			
Manganese	mg/kg	655	42.7	42.7	609	571	-107	-198	75-125	7	20	P6		
Nickel	mg/kg	5.5	42.7	42.7	50.9	45.4	106	94	75-125	11	20			
Selenium	mg/kg	0.19J	42.7	42.7	37.0	36.6	86	85	75-125	1	20			

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			66632		66633							
Parameter	Units	407829001 Result	MS	MSD	MS Conc.	MS Result	MSD	MS	MSD	% Rec	Max	
			Spike Conc.	Spike Conc.			Result	% Rec	% Rec	% Rec	RPD	RPD
Silver	mg/kg	0.030J	21.4	21.4	19.3	18.8	90	88	75-125	3	20	
Zinc	mg/kg	25.2	42.7	42.7	64.1	59.2	91	80	75-125	8	20	

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	WETA/2175	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
Associated Lab Samples:	407829001		

METHOD BLANK:	67690	Matrix:	Solid
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Associated Lab Samples: 407829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	44.3J	100	08/22/08 11:08	

LABORATORY CONTROL SAMPLE: 67691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	558	112	81-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 67692 67693

Parameter	Units	407786008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	866	447	447	1180	1370	70	112	79-129	15	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 67694 67695

Parameter	Units	407829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	2820	777	777	3220	3110	51	37	79-129	3	20	M0



Pace Analytical Services, Inc.

1241 Bellevue Street

Green Bay, WI 54302

(920)469-2436

QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	WETA/2180	Analysis Method:	EPA 365.4
QC Batch Method:	EPA 365.4	Analysis Description:	365.4 Total Phosphorus
Associated Lab Samples:	407829001		

METHOD BLANK: 68444	Matrix: Solid
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Associated Lab Samples: 407829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	<6.6	50.0	08/22/08 13:58	

LABORATORY CONTROL SAMPLE: 68445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	500	534	107	79-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 68446 68447

Parameter	Units	407786008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Phosphorus	mg/kg	284	447	447	775	786	110	112	54-139	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 68448 68449

Parameter	Units	407829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Phosphorus	mg/kg	577	777	777	1370	1330	102	97	54-139	3	20	

Date: 10/02/2008 10:08 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	WETA/2243	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
Associated Lab Samples:	407829002		

METHOD BLANK: 71712	Matrix: Solid
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Associated Lab Samples: 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	46.6J	100	09/03/08 09:25	

LABORATORY CONTROL SAMPLE: 71713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	497	99	81-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71714 71715

Parameter	Units	1079596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, Kjeldahl, Total	mg/kg	51600	4660	4660	60700	54800	196	69	79-129	10	20	P6

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QUALITY CONTROL DATA

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

QC Batch:	WETA/2247	Analysis Method:	EPA 365.4
QC Batch Method:	EPA 365.4	Analysis Description:	365.4 Total Phosphorus
Associated Lab Samples:	407829002		

METHOD BLANK: 72000	Matrix: Solid
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Associated Lab Samples: 407829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	<6.6	50.0	09/03/08 13:35	

LABORATORY CONTROL SAMPLE: 72001	
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	500	550	110	79-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 72002	72003
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Parameter	Units	1079596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Phosphorus	mg/kg	1710	4660	4660	6830	6710	110	107	54-139	2	20	

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QUALIFIERS

Project: 1208640 HYDRO SEDIMENT

Pace Project No.: 407829

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M0 Matrix spike recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

Z2 Analyte present in the associated method blank above the detection limit.

Certificate of Service

I hereby certify that I have this day served the foregoing document upon all entities specified in the order to issue license to be consulted on matters related to the Commission filing. Service was done pursuant to Rule 2010 of FERC's Rules of Practice and Procedure 18 CFR, Section 385.2010

Dated this day Friday, January 30, 2009



Kristi Gunville
We Energies

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