

Rec'd
4-26-10

Kewaunee Marsh
Ground and Surface Water Quality Results: Marsh 16, 2010

Sample Location	Dissolved Arsenic Concentration, $\mu\text{g/L}$
Ground Water Samples (Temporary Geoprobe wells under bike track)	
B1D	415,000
B3D	578,000
Surface Water Samples	
Surface West (West of path)	713
Surface East (West of path)	379
North Slough	887
South Slough	438
Surface Pond (north of fence)	30.1

Samples collected by Annette Weissbach, WDNR and Bob Stanforth, RMT, Inc on March 16, 2010. Analysis by Pace Laboratories.





Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 02, 2010

BOB STANFORTH
RMT MADISON
744 Heartland Trail
Madison, WI 537171934

RE: Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Dear BOB STANFORTH:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2010. 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,

Kim Berendsen for
Tod Noltemeyer
tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

cc: ALEX GOERGEN, RMT - MADISON

REPORT OF LABORATORY ANALYSIS

Page 1 of 9

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302

REPORT OF LABORATORY ANALYSIS

Page 2 of 9

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE SUMMARY

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4029597001	B1D	Water	03/16/10 12:32	03/19/10 08:15
4029597002	B3D	Water	03/16/10 13:25	03/19/10 08:15
4029597003	SURFACE WEST	Water	03/16/10 14:01	03/19/10 08:15
4029597004	SURFACE EAST	Water	03/16/10 14:05	03/19/10 08:15
4029597005	SURFACE NORTH	Water	03/16/10 14:10	03/19/10 08:15
4029597006	SURFACE SOUTH	Water	03/16/10 14:15	03/19/10 08:15
4029597007	SURFACE POND	Water	03/16/10 14:30	03/19/10 08:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4029597001	B1D	EPA 6010	DLB	1
4029597002	B3D	EPA 6010	DLB	1
4029597003	SURFACE WEST	EPA 6010	DLB	1
4029597004	SURFACE EAST	EPA 6010	DLB	1
4029597005	SURFACE NORTH	EPA 6010	DLB	1
4029597006	SURFACE SOUTH	EPA 6010	DLB	1
4029597007	SURFACE POND	EPA 6010	DLB	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Sample: B1D **Lab ID: 4029597001** Collected: 03/16/10 12:32 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Arsenic, Dissolved	415000	ug/L	200	19.1	10		03/31/10 07:37	7440-38-2	

Sample: B3D **Lab ID: 4029597002** Collected: 03/16/10 13:25 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Arsenic, Dissolved	578000	ug/L	2000	191	100		03/31/10 08:05	7440-38-2	

Sample: SURFACE WEST **Lab ID: 4029597003** Collected: 03/16/10 14:01 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	713	ug/L	20.0	1.4	1	03/22/10 10:46	03/23/10 14:42	7440-38-2	

Sample: SURFACE EAST **Lab ID: 4029597004** Collected: 03/16/10 14:05 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	379	ug/L	20.0	1.4	1	03/22/10 10:46	03/23/10 14:46	7440-38-2	

Sample: SURFACE NORTH **Lab ID: 4029597005** Collected: 03/16/10 14:10 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	887	ug/L	20.0	1.4	1	03/22/10 10:46	03/23/10 14:50	7440-38-2	

Sample: SURFACE SOUTH **Lab ID: 4029597006** Collected: 03/16/10 14:15 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	438	ug/L	20.0	1.4	1	03/22/10 10:46	03/23/10 14:54	7440-38-2	

ANALYTICAL RESULTS

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

Sample: SURFACE POND Lab ID: 4029597007 Collected: 03/16/10 14:30 Received: 03/19/10 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	30.1	ug/L	20.0	1.4	1	03/22/10 10:46	03/23/10 14:58	7440-38-2	

QUALITY CONTROL DATA

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

QC Batch: MPRP/3796 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4029597003, 4029597004, 4029597005, 4029597006, 4029597007

METHOD BLANK: 277560 Matrix: Water
Associated Lab Samples: 4029597003, 4029597004, 4029597005, 4029597006, 4029597007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<1.4	20.0	03/23/10 13:37	

LABORATORY CONTROL SAMPLE: 277561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 277562 277563

Parameter	Units	4029620011		277563		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	ug/L	<20.0	500	500	492	490	97	97	75-125	.5	20

QUALITY CONTROL DATA

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

QC Batch: ICP/3250 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4029597001, 4029597002

METHOD BLANK: 280692 Matrix: Water
Associated Lab Samples: 4029597001, 4029597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<1.9	20.0	03/30/10 17:20	

LABORATORY CONTROL SAMPLE: 280693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	480	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 280694 280695

Parameter	Units	280694		280695		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4029745011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	ug/L	4.2J	500	500	501	505	99	100	75-125	.8	20

QUALIFIERS

Project: 7201.15 KEWAUNEE MARSH
Pace Project No.: 4029597

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.

U - Indicates the compound was analyzed for, but not detected.