OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

August 10, 2010

Mr. Zinith Barbee
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Monitored Natural Attenuation Semi-Annual Sampling Report
Wayne County Landfill
Dudley, NC 28333

Permit No. 96-01
MESCO Project No. G07058.0

Dear Mr. Barbee:

The Wayne County Closed Unlined Municipal Solid Waste Landfill (MSWLF) and Active Construction and Demolition (C&D) Landfill located near Dudley NC, currently operating under permit #96-01, has continued with Monitored Natural Attenuation (MNA) monitoring in accordance with the Corrective Action Plan (CAP) approved October 2009. This event was performed on February 16 & 17, 2010 along with traditional semi-annual sampling.

As proposed in the CAP, Municipal Engineering Services Company, P.A. (MESCO) collected groundwater samples, to be tested for MNA parameters, from 3 monitoring wells (MW-1, MW-2, and MW-8). A facility map is provided on **Plate 1** illustrating monitoring well locations and groundwater flow direction. No constituents of concern were detected above the 2L standard for this sampling event; therefore no additional plates are included in this submittal. Sampling was conducted per the methodology listed in the approved CAP Groundwater and Surface Water Sampling and Analysis Plan.

Table 1 lists the wells with their required MNA sampling parameter results. In general the MNA parameters indicate reducing conditions. **Table 2** shows a breakdown of chlorinated solvents through reductive chlorination of the first two sampling events. **Table 3** establishes a breakdown of the existing conditions present for dissolved hydrocarbons accounted for in areas of concern. The MNA wells, in **Tables 2 and 3**, are grouped by area of concern to simplify correlations between tables and plates. Appendix 1 metals and VOC laboratory results for the current sampling event are included. Further analysis will be conducted with further sampling events. As required by the Solid Waste Section an evaluation of MNA's effectiveness as a remedy will be presented in a Comprehensive MNA Evaluation Report after four sampling events are conducted.

The next semi-annual sampling event is scheduled for August 2010 and the lab results will be submitted upon completion. If you have any questions or comments regarding this sampling update, please contact us by phone at (919) 772-5393 or by email at mgerman@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Madeline German
Geoscientist

Enclosures
cc: Mr. Tim Rogers, Wayne County

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Table 1: MNA Parameters at Monitoring Well Locations

Parameters	Method	mdl*	Units	MW-1	MW-2	MW-8
				02/17/10	02/17/10	02/17/10
VFA – Acetic Acid	AM23G	0.07	mg/L	<0.070	0.064	<0.070
VFA – Butyric Acid	AM23G	0.07	mg/L	<0.070	<0.070	<0.070
VFA – Hexanoic Acid	AM23G	0.1	mg/L	<0.100	<0.100	<0.100
VFA – i-Heanoic Acid	AM23G	0.1	mg/L	<0.100	<0.100	<0.100
VFA – i-Pentanoic Acid	AM23G	0.07	mg/L	<0.070	<0.070	<0.070
VFA – Lactic Acid	AM23G	0.1	mg/L	0.130	0.230	0.086
VFA – Pentanoic Acid	AM23G	0.07	mg/L	<0.070	<0.070	<0.070
VFA – Propionic Acid	AM23G	0.07	mg/L	<0.070	0.095	<0.070
VFA – Pyruvic Acid	AM23G	0.07	mg/L	<0.070	<0.070	<0.070
Hydrogen*	AM20GAX	0.6	nM	0.700	1.700	0.580
Methane	AM20GAX	0.015	ug/L	0.063	2200	0.200
Ethene	AM20GAX	0.01	ug/L	<0.010	0.014	<0.010
Ethane	AM20GAX	0.01	ug/L	<0.010	0.920	<0.010
CO2-Dissolved	Field Hach Kit	1	mg/L	20	>100	<100
Alkalinity	SM 2320B	5000	ug/L	<5000	496000	<5000
Sulfate	ASTM D516-90	5000	ug/L	<5000	12600	<5000
Sulfide	SM 4500-S2D	100	ug/L	<100	<100	<100
Chloride	SM 4500-Cl-E	5000	ug/L	<5000	62000*	14900
TOC	SM 5310B	1000	ug/L	2410	42100	15400
COD	SM 5220D	25000	ug/L	721000	71000	<25000
BOD	SM5210B	2000	ug/L	<2000	7020	<2000
Iron	EPA 6010	14	ug/L	527	45400	2330
Nitrate	EPA 353.2	100	ug/L	777	126	668
Temperature	Field Instrument	0	Degrees C	13.5	8.9	12.9
ORP	Field Instrument	-900	mV	281	-36	324
DO	Field Instrument	0	mg/L	6.9	0.9	0.9
pH	Field Instrument	0	Standard Units	5.15	6.63	4.63
Specific Conductance	Field Instrument	0	us/cm	31	1215	59
Turbidity	Field Instrument	0	NTU	17	14.6	81.3

Notes:

VFA = Volitile Fatty Acid

mdl* = Lowest Method Detection Limit for Lab Parameters or Lowest Field Measurement Possible

>100 = CO2 Concentration Exceeds Maximum capability of Method Used

* Chloride in MW-2 used a 2x dilution (mdl = 10000)

*Hydrogen artificially elevated due to use of steel washer on sampling device.

Table 2: Reductive Dechlorination Assessment

	Tetrachloroethene (Perchloroethene – PCE)				Trichloroethene (TCE)				1,1-Dichloroethene (1,1-DCE)				cis-1,2-Dichlorethene				Vinyl Chloride (VC)			
	Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10		
MW-1	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-2	BQL	BQL			BQL	BQL			BQL	BQL			0.20	BQL			BQL	BQL		
MW-11	BQL	BQL			BQL	BQL			BQL	BQL			0.43	0.32			BQL	BQL		
MW-8	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-9	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-10	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		

Notes:
1. The selected chlorinated solvents consist of the target parent compound and several target daughter compounds.
2. Analytes were analyzed per EPA Test Method 8260. Detections are presented in micrograms per liter (µg/L).
3. BQL = Below Quantitation Limit
4. Red Text identifies an increase in concentration when compared to the prior event.
5. Green Text identifies a decrease in concentratios when compared to the prior event.

Table 2: Reductive Dechlorination Assessment

Ethene (ETH)				Ethane (ETH)			
Aug-09	Feb-10			Aug-09	Feb-10		
0.011	BQL			BQL	BQL		
0.013	0.014			0.8	0.92		
NS	NS			NS	NS		
0.007	BQL			0.003	BQL		
NS	NS			NS	NS		
NS	NS			NS	NS		

Table 3: Natural Attenuation Properties

	Oxygen (DO)				Nitrate (NO3)				Ferrious Iron (Fe2+)				Sulfate (SO4)				Methane			
	Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10			Aug-09	Feb-10		
MW-1	6.90	6.90			447	777			550	527			6360	BQL			0.045	0.063		
MW-2	0.90	0.90			257	126			50100	45400			27100	12600			4700	2200		
MW-11	2.53	1.90			NS	NS			NS	NS			NS	NS			NS	NS		
MW-8	0.90	0.90			204	668			9680	2330			BQL	BQL			3.9	0.2		
MW-9	3.81	4.80			NS	NS			NS	NS			NS	NS			NS	NS		
MW-10	5.59	5.90			NS	NS			NS	NS			NS	NS			NS	NS		

Note:
1. The selected parameters consist of target properties to help identify the attenuation environment.
2. Analytes were analyzed in accordance with the appropriate method, listed on Table 1.
3. DO detections are presented in milligrams per liter (mg/L); all others are presented in micrograms per liter (ug/L).
4. BQL = Below Quantitation Limit.
5. NS = Not Sampled.
6. Red Text identifies an increase in concentration when compared to the prior event.
7. Green Text identifies a decrease in concentratios when compared to the prior event.

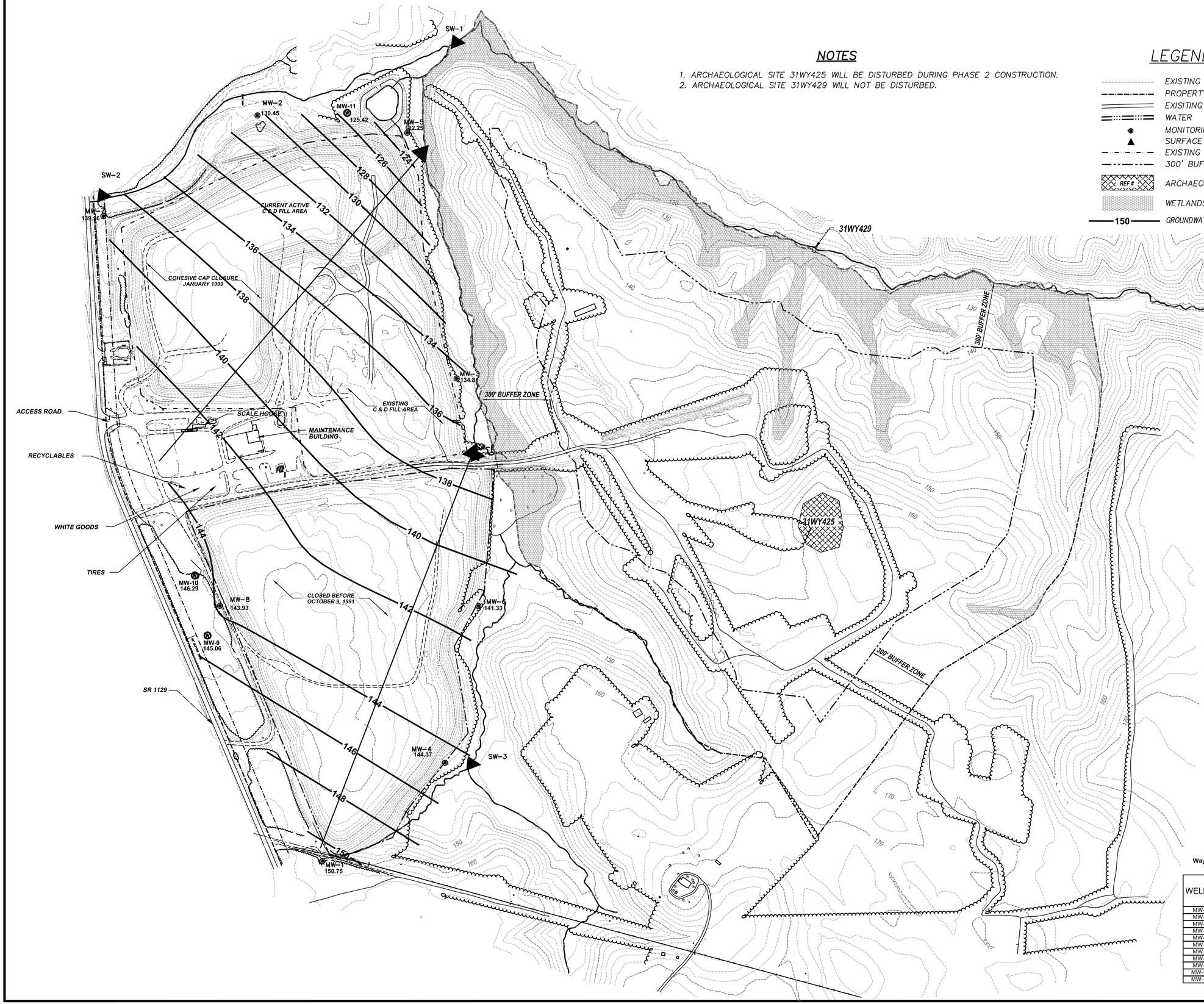
NOTES

1. ARCHAEOLOGICAL SITE 31WY425 WILL BE DISTURBED DURING PHASE 2 CONSTRUCTION.
2. ARCHAEOLOGICAL SITE 31WY429 WILL NOT BE DISTURBED.

LEGEND

- EXISTING CONTOURS
- PROPERTY LINE
- EXISITING ROAD
- WATER
- MONITORING WELL LOCATION
- SURFACE WATER MONITORING LOCATION
- EXISTING MSWLF SANITARY UNIT
- 300' BUFFER ZONE
- REF # — ARCHAEOLOGICAL SITES
- WETLANDS
- 150 — GROUNDWATER CONTOUR (February 2010)

GENERAL GROUNDWATER FLOW DIRECTION



Wayne County Active C&D over Closed MSWLF (Dudley)

February 17, 2010

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-1	163.26	12.51	150.75
MW-2	134.52	4.07	130.45
MW-3	134.81	0.00	134.81
MW-4	150.2	5.83	144.37
MW-5	124.78	2.53	122.25
MW-6	145.53	4.20	141.33
MW-7	143.59	4.03	139.56
MW-8	161.88	17.95	143.93
MW-9	162.96	17.90	145.06
MW-10	162.9	16.61	146.29
MW-11	127.23	1.81	125.42

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LICENSE NUMBER: C-0291

MUNICIPAL SOLID WASTE LANDFILL FACILITY
WAYNE COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
FEBRUARY 17, 2010

SCALE:	1"=200'
DATE:	05/04/10
DRWN. BY:	M. GERMAN
CHKD. BY:	J. PFOHL
PROJECT NUMBER	G10016.0
DRAWING NO.	PLATE 1
SHEET NO.	1 OF 1

Pace Analytical Services, Inc.
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 08, 2010

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between February 17, 2010 and February 18, 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Charlotte Certification IDs

Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84

Asheville Certification IDs

Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
2225 Riverside Dr. Asheville, NC 28804
West Virginia Certification #: 356
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Connecticut Certification #: PH-0106

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SAMPLE SUMMARY

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9263498001	**MW-2**	Water	02/16/10 15:10	02/17/10 12:10
9263598012	**MW-1**	Water	02/17/10 13:00	02/18/10 13:25
9263598013	**MW-8**	Water	02/17/10 16:00	02/18/10 13:25

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SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9263498001	**MW-2**	EPA 6010	EWS	16	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	SHB	1	PASI-A
		SM 4500-S2D	TEE	1	PASI-A
		SM 5210B	SAJ	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	LEP	1	PASI-A
		SM 5310B	JDA	1	PASI-A
		ASTM D516-90	SHB	1	PASI-A
9263598012	**MW-1**	EPA 6010	EWS	16	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	TEE	1	PASI-A
		SM 4500-S2D	TEE	1	PASI-A
		SM 5210B	SHB	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	LEP	1	PASI-A
		SM 5310B	RAB	1	PASI-A
		ASTM D516-90	SHB	1	PASI-A
9263598013	**MW-8**	EPA 6010	EWS	16	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 2320B	TEE	1	PASI-A
		SM 4500-S2D	TEE	1	PASI-A
		SM 5210B	SHB	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 5220D	LEP	1	PASI-A
		SM 5310B	RAB	1	PASI-A
		ASTM D516-90	SHB	1	PASI-A

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-2 **Lab ID: 9263498001** Collected: 02/16/10 15:10 Received: 02/17/10 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	02/22/10 11:39	02/25/10 22:52	7440-36-0	
Arsenic	**14.9**	ug/L	10.0	2.7	1	02/22/10 11:39	02/25/10 22:52	7440-38-2	
Barium	**145**	ug/L	100	0.20	1	02/22/10 11:39	02/25/10 22:52	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/22/10 11:39	02/25/10 22:52	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/22/10 11:39	02/25/10 22:52	7440-43-9	
Chromium	**2.0J**	ug/L	10.0	0.40	1	02/22/10 11:39	02/25/10 22:52	7440-47-3	
Cobalt	**1.9J**	ug/L	10.0	0.60	1	02/22/10 11:39	02/25/10 22:52	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/22/10 11:39	02/25/10 22:52	7440-50-8	
Iron	**45400**	ug/L	300	14.0	1	02/22/10 11:39	02/25/10 22:52	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/22/10 11:39	02/25/10 22:52	7439-92-1	
Nickel	**2.4J**	ug/L	50.0	1.7	1	02/22/10 11:39	02/25/10 22:52	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/22/10 11:39	02/25/10 22:52	7782-49-2	
Silver	**0.34J**	ug/L	10.0	0.10	1	02/22/10 11:39	02/25/10 22:52	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/22/10 11:39	02/25/10 22:52	7440-28-0	
Vanadium	**8.5J**	ug/L	25.0	0.20	1	02/22/10 11:39	02/25/10 22:52	7440-62-2	
Zinc	**6.9J**	ug/L	10.0	0.40	1	02/22/10 11:39	02/25/10 22:52	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/22/10 16:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 16:43	107-13-1	
Benzene	**2.0**	ug/L	1.0	0.25	1		02/22/10 16:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 16:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 16:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 16:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 16:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/10 16:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 16:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 16:43	56-23-5	
Chlorobenzene	**13.6**	ug/L	3.0	0.23	1		02/22/10 16:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 16:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/10 16:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 16:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 16:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 16:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 16:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 16:43	74-95-3	
1,2-Dichlorobenzene	**0.49J**	ug/L	5.0	0.30	1		02/22/10 16:43	95-50-1	
1,4-Dichlorobenzene	**3.6**	ug/L	1.0	0.33	1		02/22/10 16:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 16:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 16:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/10 16:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 16:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 16:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 16:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 16:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 16:43	142-28-9	

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nelac

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-2 **Lab ID: 9263498001** Collected: 02/16/10 15:10 Received: 02/17/10 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 16:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 16:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 16:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 16:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 16:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 16:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 16:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 16:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 16:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 16:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 16:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 16:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 16:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 16:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 16:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 16:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 16:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 16:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 16:43	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		02/22/10 16:43	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		02/22/10 16:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	79-120		1		02/22/10 16:43	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		02/22/10 16:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**496000**	ug/L	5000	5000	1		02/23/10 15:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/19/10 16:59		M0
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	**7020**	ug/L	2000	2000	1	02/18/10 13:05	02/23/10 09:40		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**126J**	ug/L	10000	100	1		02/17/10 22:57		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**62000**	ug/L	10000	10000	2		02/22/10 12:35	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**71000**	ug/L	25000	25000	1		03/01/10 11:21		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**42100**	ug/L	1000	1000	1		03/05/10 16:38	7440-44-0	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-2 **Lab ID: 9263498001** Collected: 02/16/10 15:10 Received: 02/17/10 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**12600J**	ug/L	250000	5000	1		02/23/10 11:39	14808-79-8	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-1 **Lab ID: 9263598012** Collected: 02/17/10 13:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	02/24/10 13:27	03/04/10 17:15	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/24/10 13:27	03/04/10 17:15	7440-38-2	
Barium	**16.8J**	ug/L	100	0.20	1	02/24/10 13:27	03/04/10 17:15	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/24/10 13:27	03/04/10 17:15	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/24/10 13:27	03/04/10 17:15	7440-43-9	
Chromium	**0.91J**	ug/L	10.0	0.40	1	02/24/10 13:27	03/04/10 17:15	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	02/24/10 13:27	03/04/10 17:15	7440-48-4	
Copper	**0.81J**	ug/L	10.0	0.30	1	02/24/10 13:27	03/04/10 17:15	7440-50-8	
Iron	**527**	ug/L	300	14.0	1	02/24/10 13:27	03/04/10 17:15	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/24/10 13:27	03/04/10 17:15	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/24/10 13:27	03/04/10 17:15	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/24/10 13:27	03/04/10 17:15	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/24/10 13:27	03/04/10 17:15	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/24/10 13:27	03/04/10 17:15	7440-28-0	
Vanadium	**0.28J**	ug/L	25.0	0.20	1	02/24/10 13:27	03/04/10 17:15	7440-62-2	
Zinc	**5.6J**	ug/L	10.0	0.40	1	02/24/10 13:27	03/04/10 17:15	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/22/10 18:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 18:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/10 18:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 18:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 18:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 18:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 18:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/10 18:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 18:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 18:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/10 18:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 18:43	75-00-3	
Chloroform	**0.44J**	ug/L	5.0	0.14	1		02/22/10 18:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 18:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 18:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 18:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 18:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 18:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/10 18:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/10 18:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 18:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 18:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/10 18:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 18:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 18:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 18:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 18:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 18:43	142-28-9	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-1 **Lab ID: 9263598012** Collected: 02/17/10 13:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 18:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 18:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 18:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 18:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 18:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 18:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 18:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 18:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 18:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 18:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 18:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 18:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 18:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 18:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 18:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 18:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 18:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 18:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 18:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 18:43	1330-20-7	
4-Bromofluorobenzene (S)	100	%	87-109		1		02/22/10 18:43	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		02/22/10 18:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	122	%	79-120		1		02/22/10 18:43	17060-07-0	S3
Toluene-d8 (S)	99	%	70-120		1		02/22/10 18:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	5000	5000	1		02/26/10 21:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/19/10 16:59		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	02/19/10 12:55	02/24/10 09:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**777J**	ug/L	10000	100	1		02/18/10 22:44		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	ug/L	5000	5000	1		02/27/10 13:11	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**721000**	ug/L	25000	25000	1		03/03/10 10:44		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**2410**	ug/L	1000	1000	1		03/03/10 12:00	7440-44-0	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-1 **Lab ID: 9263598012** Collected: 02/17/10 13:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	ug/L	250000	5000	1		02/23/10 11:45	14808-79-8	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-8 **Lab ID: 9263598013** Collected: 02/17/10 16:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	02/24/10 13:27	03/04/10 17:39	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/24/10 13:27	03/04/10 17:39	7440-38-2	
Barium	**109**	ug/L	100	0.20	1	02/24/10 13:27	03/04/10 17:39	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/24/10 13:27	03/04/10 17:39	7440-41-7	
Cadmium	**1.0**	ug/L	1.0	0.50	1	02/24/10 13:27	03/04/10 17:39	7440-43-9	
Chromium	**1.1J**	ug/L	10.0	0.40	1	02/24/10 13:27	03/04/10 17:39	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	02/24/10 13:27	03/04/10 17:39	7440-48-4	
Copper	**1.3J**	ug/L	10.0	0.30	1	02/24/10 13:27	03/04/10 17:39	7440-50-8	
Iron	**2330**	ug/L	300	14.0	1	02/24/10 13:27	03/04/10 17:39	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/24/10 13:27	03/04/10 17:39	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/24/10 13:27	03/04/10 17:39	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/24/10 13:27	03/04/10 17:39	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/24/10 13:27	03/04/10 17:39	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/24/10 13:27	03/04/10 17:39	7440-28-0	
Vanadium	**0.69J**	ug/L	25.0	0.20	1	02/24/10 13:27	03/04/10 17:39	7440-62-2	
Zinc	**14.8**	ug/L	10.0	0.40	1	02/24/10 13:27	03/04/10 17:39	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/22/10 23:55	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 23:55	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/10 23:55	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 23:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 23:55	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 23:55	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 23:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/10 23:55	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 23:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 23:55	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/10 23:55	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 23:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/10 23:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 23:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 23:55	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 23:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 23:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 23:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/10 23:55	95-50-1	
1,4-Dichlorobenzene	**0.64J**	ug/L	1.0	0.33	1		02/22/10 23:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 23:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 23:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/22/10 23:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 23:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 23:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 23:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 23:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 23:55	142-28-9	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-8 **Lab ID: 9263598013** Collected: 02/17/10 16:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 23:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 23:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 23:55	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 23:55	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 23:55	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 23:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 23:55	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 23:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 23:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 23:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 23:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 23:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 23:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 23:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 23:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 23:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 23:55	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 23:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 23:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 23:55	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		02/22/10 23:55	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		02/22/10 23:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	118	%	79-120		1		02/22/10 23:55	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		02/22/10 23:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	ND	ug/L	5000	5000	1		02/26/10 21:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		02/19/10 16:59		
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	02/19/10 12:55	02/24/10 09:05		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**668J**	ug/L	10000	100	1		02/18/10 22:54		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**14900**	ug/L	5000	5000	1		02/27/10 13:12	16887-00-6	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	ND	ug/L	25000	25000	1		03/03/10 10:44		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**15400**	ug/L	1000	1000	1		03/03/10 12:00	7440-44-0	

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ANALYTICAL RESULTS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

Sample: MW-8 **Lab ID: 9263598013** Collected: 02/17/10 16:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	ug/L	250000	5000	1		02/23/10 11:47	14808-79-8	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: MPRP/5850
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9263498001

METHOD BLANK: 404698
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/25/10 21:23	
Arsenic	ug/L	ND	10.0	02/25/10 21:23	
Barium	ug/L	ND	100	02/25/10 21:23	
Beryllium	ug/L	ND	1.0	02/25/10 21:23	
Cadmium	ug/L	ND	1.0	02/25/10 21:23	
Chromium	ug/L	ND	10.0	02/25/10 21:23	
Cobalt	ug/L	ND	10.0	02/25/10 21:23	
Copper	ug/L	ND	10.0	02/25/10 21:23	
Iron	ug/L	ND	300	02/25/10 21:23	
Lead	ug/L	ND	10.0	02/25/10 21:23	
Nickel	ug/L	ND	50.0	02/25/10 21:23	
Selenium	ug/L	ND	10.0	02/25/10 21:23	
Silver	ug/L	ND	10.0	02/25/10 21:23	
Thallium	ug/L	ND	5.5	02/25/10 21:23	
Vanadium	ug/L	ND	25.0	02/25/10 21:23	
Zinc	ug/L	0.74J	10.0	02/25/10 21:23	

LABORATORY CONTROL SAMPLE: 404699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	476	95	80-120	
Arsenic	ug/L	500	498	100	80-120	
Barium	ug/L	500	495	99	80-120	
Beryllium	ug/L	500	504	101	80-120	
Cadmium	ug/L	500	496	99	80-120	
Chromium	ug/L	500	505	101	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	486	97	80-120	
Iron	ug/L	5000	5100	102	80-120	
Lead	ug/L	500	497	99	80-120	
Nickel	ug/L	500	501	100	80-120	
Selenium	ug/L	500	489	98	80-120	
Silver	ug/L	250	233	93	80-120	
Thallium	ug/L	500	469	94	80-120	
Vanadium	ug/L	500	500	100	80-120	
Zinc	ug/L	500	503	101	80-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

MATRIX SPIKE SAMPLE: 404700

Parameter	Units	9263403001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	375	75	75-125	
Arsenic	ug/L	8.9J	500	500	98	75-125	
Barium	ug/L	91.8J	500	568	95	75-125	
Beryllium	ug/L	0.87J	500	503	100	75-125	
Cadmium	ug/L	ND	500	483	97	75-125	
Chromium	ug/L	16.7	500	522	101	75-125	
Cobalt	ug/L	1.2J	500	480	96	75-125	
Copper	ug/L	6.5J	500	499	98	75-125	
Iron	ug/L	11700	5000	17300	111	75-125	
Lead	ug/L	16.4	500	491	95	75-125	
Nickel	ug/L	3.0J	500	491	98	75-125	
Selenium	ug/L	7.2J	500	485	96	75-125	
Silver	ug/L	ND	250	232	93	75-125	
Thallium	ug/L	ND	500	446	89	75-125	
Vanadium	ug/L	47.7	500	547	100	75-125	
Zinc	ug/L	22.2	500	520	100	75-125	

SAMPLE DUPLICATE: 404701

Parameter	Units	9263403002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	39.6J	38.9J	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	1.0J	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	0.44J	0.37J		25	
Iron	ug/L	869	825	5	25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	0.48J	0.48J		25	
Zinc	ug/L	3.5J	3.1J		25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: MPRP/5866
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 406061
Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/04/10 02:24	
Arsenic	ug/L	ND	10.0	03/04/10 02:24	
Barium	ug/L	ND	100	03/04/10 02:24	
Beryllium	ug/L	ND	1.0	03/04/10 02:24	
Cadmium	ug/L	ND	1.0	03/04/10 02:24	
Chromium	ug/L	ND	10.0	03/04/10 02:24	
Cobalt	ug/L	ND	10.0	03/04/10 02:24	
Copper	ug/L	ND	10.0	03/04/10 02:24	
Iron	ug/L	ND	300	03/04/10 02:24	
Lead	ug/L	ND	10.0	03/04/10 02:24	
Nickel	ug/L	ND	50.0	03/04/10 02:24	
Selenium	ug/L	ND	10.0	03/04/10 02:24	
Silver	ug/L	ND	10.0	03/04/10 02:24	
Thallium	ug/L	ND	5.5	03/04/10 02:24	
Vanadium	ug/L	ND	25.0	03/04/10 02:24	
Zinc	ug/L	ND	10.0	03/04/10 02:24	

LABORATORY CONTROL SAMPLE: 406062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	491	98	80-120	
Arsenic	ug/L	500	467	93	80-120	
Barium	ug/L	500	508	102	80-120	
Beryllium	ug/L	500	488	98	80-120	
Cadmium	ug/L	500	460	92	80-120	
Chromium	ug/L	500	460	92	80-120	
Cobalt	ug/L	500	474	95	80-120	
Copper	ug/L	500	489	98	80-120	
Iron	ug/L	5000	4970	99	80-120	
Lead	ug/L	500	470	94	80-120	
Nickel	ug/L	500	465	93	80-120	
Selenium	ug/L	500	463	93	80-120	
Silver	ug/L	250	243	97	80-120	
Thallium	ug/L	500	455	91	80-120	
Vanadium	ug/L	500	478	96	80-120	
Zinc	ug/L	500	461	92	80-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

MATRIX SPIKE SAMPLE: 406073

Parameter	Units	9263403016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	522	104	75-125	
Arsenic	ug/L	16.9	500	538	104	75-125	
Barium	ug/L	244	500	671	85	75-125	
Beryllium	ug/L	ND	500	466	93	75-125	
Cadmium	ug/L	ND	500	425	85	75-125	
Chromium	ug/L	20.6	500	462	88	75-125	
Cobalt	ug/L	8.4J	500	427	84	75-125	
Copper	ug/L	7.5J	500	529	104	75-125	
Iron	ug/L	20700	5000	24400	73	75-125	M0
Lead	ug/L	ND	500	409	82	75-125	
Nickel	ug/L	61.9	500	474	82	75-125	
Selenium	ug/L	ND	500	499	100	75-125	
Silver	ug/L	0.29J	250	264	105	75-125	
Thallium	ug/L	ND	500	358	72	75-125	M0
Vanadium	ug/L	14.0J	500	480	93	75-125	
Zinc	ug/L	34.5	500	572	108	75-125	

SAMPLE DUPLICATE: 406074

Parameter	Units	9263403017 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	11.5	8.5J	30	25	R1
Barium	ug/L	228	235	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	6.1J	6.2J	2	25	
Cobalt	ug/L	3.2J	3.2J		25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	50900	52000	2	25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	16.1J	16.8J	4	25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	0.23J	0.26J		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	5.1J	5.2J	3	25	
Zinc	ug/L	37.1	37.9	2	25	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: MSV/10032
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9263498001, 9263598012

METHOD BLANK: 405488
Matrix: Water
Associated Lab Samples: 9263498001, 9263598012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/10 11:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/10 11:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/10 11:31	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/10 11:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/10 11:31	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/10 11:31	
2-Butanone (MEK)	ug/L	ND	100	02/22/10 11:31	
2-Hexanone	ug/L	ND	50.0	02/22/10 11:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/10 11:31	
Acetone	ug/L	ND	100	02/22/10 11:31	
Acrylonitrile	ug/L	ND	200	02/22/10 11:31	
Benzene	ug/L	ND	1.0	02/22/10 11:31	
Bromochloromethane	ug/L	ND	3.0	02/22/10 11:31	
Bromodichloromethane	ug/L	ND	1.0	02/22/10 11:31	
Bromoform	ug/L	ND	3.0	02/22/10 11:31	
Bromomethane	ug/L	ND	10.0	02/22/10 11:31	
Carbon disulfide	ug/L	ND	100	02/22/10 11:31	
Carbon tetrachloride	ug/L	ND	1.0	02/22/10 11:31	
Chlorobenzene	ug/L	ND	3.0	02/22/10 11:31	
Chloroethane	ug/L	ND	10.0	02/22/10 11:31	
Chloroform	ug/L	ND	5.0	02/22/10 11:31	
Chloromethane	ug/L	ND	1.0	02/22/10 11:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 11:31	
Dibromochloromethane	ug/L	ND	3.0	02/22/10 11:31	
Dibromomethane	ug/L	ND	10.0	02/22/10 11:31	
Ethylbenzene	ug/L	ND	1.0	02/22/10 11:31	
Iodomethane	ug/L	ND	10.0	02/22/10 11:31	
Methylene Chloride	ug/L	ND	2.0	02/22/10 11:31	
Styrene	ug/L	ND	1.0	02/22/10 11:31	
Tetrachloroethene	ug/L	ND	1.0	02/22/10 11:31	
Toluene	ug/L	ND	1.0	02/22/10 11:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 11:31	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/10 11:31	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

METHOD BLANK: 405488 Matrix: Water

Associated Lab Samples: 9263498001, 9263598012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/22/10 11:31	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/10 11:31	
Vinyl acetate	ug/L	ND	50.0	02/22/10 11:31	
Vinyl chloride	ug/L	ND	1.0	02/22/10 11:31	
Xylene (Total)	ug/L	ND	2.0	02/22/10 11:31	
1,2-Dichloroethane-d4 (S)	%	118	79-120	02/22/10 11:31	
4-Bromofluorobenzene (S)	%	98	87-109	02/22/10 11:31	
Dibromofluoromethane (S)	%	104	85-115	02/22/10 11:31	
Toluene-d8 (S)	%	99	70-120	02/22/10 11:31	

LABORATORY CONTROL SAMPLE: 405489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.2	112	83-125	
1,1,1-Trichloroethane	ug/L	50	57.3	115	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	73-127	
1,1,2-Trichloroethane	ug/L	50	54.2	108	77-123	
1,1-Dichloroethane	ug/L	50	56.4	113	76-129	
1,1-Dichloroethene	ug/L	50	56.3	113	78-146	
1,2,3-Trichloropropane	ug/L	50	53.7	107	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	59.1	118	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	81-125	
1,2-Dichlorobenzene	ug/L	50	57.4	115	82-126	
1,2-Dichloroethane	ug/L	50	56.6	113	72-126	
1,2-Dichloropropane	ug/L	50	53.9	108	80-127	
1,3-Dichloropropane	ug/L	50	55.8	112	79-124	
1,4-Dichlorobenzene	ug/L	50	56.3	113	79-125	
2-Butanone (MEK)	ug/L	100	129	129	50-134	
2-Hexanone	ug/L	100	130	130	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	126	126	70-131	
Acetone	ug/L	100	135	135	50-146	
Acrylonitrile	ug/L	250	291	116	66-124	
Benzene	ug/L	50	52.5	105	78-128	
Bromochloromethane	ug/L	50	48.8	98	73-124	
Bromodichloromethane	ug/L	50	52.0	104	81-125	
Bromoform	ug/L	50	56.8	114	71-125	
Bromomethane	ug/L	50	45.9	92	50-150	
Carbon disulfide	ug/L	50	53.5J	107	54-150	
Carbon tetrachloride	ug/L	50	59.6	119	81-137	
Chlorobenzene	ug/L	50	56.0	112	82-126	
Chloroethane	ug/L	50	45.0	90	69-140	
Chloroform	ug/L	50	51.6	103	77-129	
Chloromethane	ug/L	50	58.3	117	54-139	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.3	111	76-127	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

LABORATORY CONTROL SAMPLE: 405489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	55.6	111	77-125	
Dibromomethane	ug/L	50	53.4	107	77-125	
Ethylbenzene	ug/L	50	57.1	114	80-127	
Iodomethane	ug/L	100	100	100	65-172	
Methylene Chloride	ug/L	50	55.8	112	67-133	
Styrene	ug/L	50	58.0	116	80-130	
Tetrachloroethene	ug/L	50	55.0	110	78-128	
Toluene	ug/L	50	53.0	106	76-126	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	78-134	
trans-1,3-Dichloropropene	ug/L	50	57.4	115	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	69.0J	138	51-140	
Trichloroethene	ug/L	50	53.2	106	79-127	
Trichlorofluoromethane	ug/L	50	54.6	109	76-148	
Vinyl acetate	ug/L	100	135	135	50-150	
Vinyl chloride	ug/L	50	51.4	103	67-143	
Xylene (Total)	ug/L	150	179	119	83-125	
1,2-Dichloroethane-d4 (S)	%			109	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 405490 405491

Parameter	Units	9263598007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.9	62.9	128	126	60-150	2	30	
Benzene	ug/L	ND	50	50	58.7	57.5	117	115	74-136	2	30	
Chlorobenzene	ug/L	ND	50	50	62.3	61.5	125	123	79-135	1	30	
Toluene	ug/L	ND	50	50	60.1	59.1	120	118	73-131	2	30	
Trichloroethene	ug/L	ND	50	50	59.5	58.7	119	117	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						117	118	79-120			
4-Bromofluorobenzene (S)	%						99	99	87-109			
Dibromofluoromethane (S)	%						103	104	85-115			
Toluene-d8 (S)	%						98	97	70-120			

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: MSV/10042
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9263598013

METHOD BLANK: 405667
Matrix: Water
Associated Lab Samples: 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/10 23:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/10 23:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/10 23:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/10 23:31	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/10 23:31	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/10 23:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/10 23:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/10 23:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/10 23:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/10 23:31	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/10 23:31	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/10 23:31	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/10 23:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/10 23:31	
2-Butanone (MEK)	ug/L	ND	100	02/22/10 23:31	
2-Hexanone	ug/L	ND	50.0	02/22/10 23:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/10 23:31	
Acetone	ug/L	ND	100	02/22/10 23:31	
Acrylonitrile	ug/L	ND	200	02/22/10 23:31	
Benzene	ug/L	ND	1.0	02/22/10 23:31	
Bromochloromethane	ug/L	ND	3.0	02/22/10 23:31	
Bromodichloromethane	ug/L	ND	1.0	02/22/10 23:31	
Bromoform	ug/L	ND	3.0	02/22/10 23:31	
Bromomethane	ug/L	ND	10.0	02/22/10 23:31	
Carbon disulfide	ug/L	ND	100	02/22/10 23:31	
Carbon tetrachloride	ug/L	ND	1.0	02/22/10 23:31	
Chlorobenzene	ug/L	ND	3.0	02/22/10 23:31	
Chloroethane	ug/L	ND	10.0	02/22/10 23:31	
Chloroform	ug/L	ND	5.0	02/22/10 23:31	
Chloromethane	ug/L	ND	1.0	02/22/10 23:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 23:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 23:31	
Dibromochloromethane	ug/L	ND	3.0	02/22/10 23:31	
Dibromomethane	ug/L	ND	10.0	02/22/10 23:31	
Ethylbenzene	ug/L	ND	1.0	02/22/10 23:31	
Iodomethane	ug/L	ND	10.0	02/22/10 23:31	
Methylene Chloride	ug/L	ND	2.0	02/22/10 23:31	
Styrene	ug/L	ND	1.0	02/22/10 23:31	
Tetrachloroethene	ug/L	ND	1.0	02/22/10 23:31	
Toluene	ug/L	ND	1.0	02/22/10 23:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 23:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 23:31	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/10 23:31	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

METHOD BLANK: 405667 Matrix: Water

Associated Lab Samples: 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/22/10 23:31	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/10 23:31	
Vinyl acetate	ug/L	ND	50.0	02/22/10 23:31	
Vinyl chloride	ug/L	ND	1.0	02/22/10 23:31	
Xylene (Total)	ug/L	ND	2.0	02/22/10 23:31	
1,2-Dichloroethane-d4 (S)	%	118	79-120	02/22/10 23:31	
4-Bromofluorobenzene (S)	%	98	87-109	02/22/10 23:31	
Dibromofluoromethane (S)	%	105	85-115	02/22/10 23:31	
Toluene-d8 (S)	%	99	70-120	02/22/10 23:31	

LABORATORY CONTROL SAMPLE: 405668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.1	114	83-125	
1,1,1-Trichloroethane	ug/L	50	59.1	118	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.9	106	73-127	
1,1,2-Trichloroethane	ug/L	50	54.9	110	77-123	
1,1-Dichloroethane	ug/L	50	57.4	115	76-129	
1,1-Dichloroethene	ug/L	50	58.1	116	78-146	
1,2,3-Trichloropropane	ug/L	50	54.4	109	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	59.7	119	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	55.8	112	81-125	
1,2-Dichlorobenzene	ug/L	50	57.9	116	82-126	
1,2-Dichloroethane	ug/L	50	58.8	118	72-126	
1,2-Dichloropropane	ug/L	50	55.2	110	80-127	
1,3-Dichloropropane	ug/L	50	55.9	112	79-124	
1,4-Dichlorobenzene	ug/L	50	56.9	114	79-125	
2-Butanone (MEK)	ug/L	100	125	125	50-134	
2-Hexanone	ug/L	100	126	126	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	125	125	70-131	
Acetone	ug/L	100	128	128	50-146	
Acrylonitrile	ug/L	250	332	133	66-124	L3
Benzene	ug/L	50	53.9	108	78-128	
Bromochloromethane	ug/L	50	49.3	99	73-124	
Bromodichloromethane	ug/L	50	53.8	108	81-125	
Bromoform	ug/L	50	56.6	113	71-125	
Bromomethane	ug/L	50	47.8	96	50-150	
Carbon disulfide	ug/L	50	54.9J	110	54-150	
Carbon tetrachloride	ug/L	50	61.4	123	81-137	
Chlorobenzene	ug/L	50	56.3	113	82-126	
Chloroethane	ug/L	50	46.4	93	69-140	
Chloroform	ug/L	50	52.7	105	77-129	
Chloromethane	ug/L	50	60.9	122	54-139	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	76-127	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

LABORATORY CONTROL SAMPLE: 405668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	55.6	111	77-125	
Dibromomethane	ug/L	50	54.0	108	77-125	
Ethylbenzene	ug/L	50	57.9	116	80-127	
Iodomethane	ug/L	100	103	103	65-172	
Methylene Chloride	ug/L	50	58.1	116	67-133	
Styrene	ug/L	50	58.4	117	80-130	
Tetrachloroethene	ug/L	50	54.9	110	78-128	
Toluene	ug/L	50	53.9	108	76-126	
trans-1,2-Dichloroethene	ug/L	50	55.3	111	78-134	
trans-1,3-Dichloropropene	ug/L	50	56.7	113	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	67.1J	134	51-140	
Trichloroethene	ug/L	50	54.9	110	79-127	
Trichlorofluoromethane	ug/L	50	56.5	113	76-148	
Vinyl acetate	ug/L	100	129	129	50-150	
Vinyl chloride	ug/L	50	52.7	105	67-143	
Xylene (Total)	ug/L	150	181	121	83-125	
1,2-Dichloroethane-d4 (S)	%			111	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			98	70-120	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WET/11496
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9263498001

METHOD BLANK: 405813
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	02/23/10 15:35	

LABORATORY CONTROL SAMPLE: 405814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	50600	101	90-110	

SAMPLE DUPLICATE: 405815

Parameter	Units	9262958001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	717 mg/L	693000	3	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WET/11566 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 408285 | Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	02/26/10 21:50	

LABORATORY CONTROL SAMPLE: 408286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	50400	101	90-110	

SAMPLE DUPLICATE: 408287

Parameter	Units	9263527002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	19.6 mg/L	21400	9	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WET/11481 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 9263498001, 9263598012, 9263598013

METHOD BLANK: 404969 Matrix: Water
Associated Lab Samples: 9263498001, 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	02/19/10 16:59	

LABORATORY CONTROL SAMPLE: 404970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	492J	98	90-110	

MATRIX SPIKE SAMPLE: 404971

Parameter	Units	9263498001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	ND	0	75-125	M0

SAMPLE DUPLICATE: 404972

Parameter	Units	9263496002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WET/11462
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9263498001

METHOD BLANK: 403965
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/23/10 09:40	

LABORATORY CONTROL SAMPLE: 403966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	188000	95	84-115	

SAMPLE DUPLICATE: 403967

Parameter	Units	9263498001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	7020	6400	9	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WET/11473 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 404667 Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	02/24/10 09:05	

LABORATORY CONTROL SAMPLE: 404668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	178000	90	84-115	

SAMPLE DUPLICATE: 404669

Parameter	Units	9263598012 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6772
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9263498001

METHOD BLANK: 403885
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/17/10 22:41	

LABORATORY CONTROL SAMPLE: 403886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	5000	5170J	103	90-110	

MATRIX SPIKE SAMPLE: 403887

Parameter	Units	9263371002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	18.0 mg/L	5000	21200	65	90-110	M0

SAMPLE DUPLICATE: 403888

Parameter	Units	9263371002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	18.0 mg/L	18000J	0	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6780
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 404618
Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/18/10 22:20	

LABORATORY CONTROL SAMPLE: 404619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	5000	5150J	103	90-110	

MATRIX SPIKE SAMPLE: 404631

Parameter	Units	9263535005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	5000	5070J	101	90-110	

MATRIX SPIKE SAMPLE: 404633

Parameter	Units	9263535006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	0.63 mg/L	5000	5600J	100	90-110	

SAMPLE DUPLICATE: 404632

Parameter	Units	9263535005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 404634

Parameter	Units	9263535006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	0.63 mg/L	617J	1	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6797
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 9263498001

METHOD BLANK: 405506
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	5000	02/22/10 12:24	

LABORATORY CONTROL SAMPLE: 405507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20700	104	90-110	

MATRIX SPIKE SAMPLE: 405508

Parameter	Units	9263395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	278 mg/L	20000	297000	94	75-125	

SAMPLE DUPLICATE: 405509

Parameter	Units	9263395003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	19.9 mg/L	19800	0	20	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6836
QC Batch Method: SM 4500-Cl-E
Analysis Method: SM 4500-Cl-E
Analysis Description: 4500 Chloride
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 408565
Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	5000	02/27/10 13:10	

LABORATORY CONTROL SAMPLE: 408566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20800	104	90-110	

MATRIX SPIKE SAMPLE: 408567

Parameter	Units	9263852001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	313 mg/L	20000	327000	72	75-125	M0

SAMPLE DUPLICATE: 408568

Parameter	Units	9263852003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	19.0 mg/L	18500	2	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6829
QC Batch Method: SM 5220D
Analysis Method: SM 5220D
Analysis Description: 5220D COD
Associated Lab Samples: 9263498001

METHOD BLANK: 407970
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	03/01/10 11:21	

LABORATORY CONTROL SAMPLE: 407971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	757000	101	90-110	

MATRIX SPIKE SAMPLE: 407972

Parameter	Units	9263274001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	324 mg/L	750000	1050000	96	75-125	

MATRIX SPIKE SAMPLE: 407978

Parameter	Units	9263756001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	107 mg/L	750000	850000	99	75-125	

SAMPLE DUPLICATE: 407977

Parameter	Units	9263577001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	99.0 mg/L	111000	11	20	

SAMPLE DUPLICATE: 407979

Parameter	Units	9263758001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	66.0 mg/L	71000	7	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6830 | Analysis Method: SM 5220D
QC Batch Method: SM 5220D | Analysis Description: 5220D COD
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 407980 | Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	03/03/10 10:44	

LABORATORY CONTROL SAMPLE: 407981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	764000	102	90-110	

MATRIX SPIKE SAMPLE: 407982

Parameter	Units	9263502001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	1260 mg/L	750000	1630000	50	75-125	M0

MATRIX SPIKE SAMPLE: 407988

Parameter	Units	9263687002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	868 mg/L	750000	1180000	42	75-125	M0

SAMPLE DUPLICATE: 407987

Parameter	Units	9263538001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	465 mg/L	455000	2	20	

SAMPLE DUPLICATE: 407989

Parameter	Units	9263403016 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	792000	733000	8	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6775
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 9263498001

METHOD BLANK: 404022
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	03/05/10 16:38	

LABORATORY CONTROL SAMPLE: 404023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24100	96	90-110	

MATRIX SPIKE SAMPLE: 404024

Parameter	Units	9263250004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	136 mg/L	25000	157000	85	75-125	

SAMPLE DUPLICATE: 404025

Parameter	Units	9263250005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	4.6 mg/L	4580	0	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6838
QC Batch Method: SM 5310B
Analysis Method: SM 5310B
Analysis Description: 5310B TOC
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 408646
Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	ug/L	ND	1000	03/03/10 12:00	

LABORATORY CONTROL SAMPLE: 408647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	25000	24400	98	90-110	

MATRIX SPIKE SAMPLE: 408648

Parameter	Units	9263727002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	8.0 mg/L	25000	30400	90	75-125	

MATRIX SPIKE SAMPLE: 409852

Parameter	Units	9263727003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	ug/L	57.1 mg/L	25000	78600	86	75-125	

SAMPLE DUPLICATE: 409853

Parameter	Units	9263727004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	5.2 mg/L	5120	2	20	

SAMPLE DUPLICATE: 409854

Parameter	Units	9263727005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	ug/L	7.5 mg/L	7320	2	20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6803
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9263498001

METHOD BLANK: 405820
Matrix: Water
Associated Lab Samples: 9263498001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	02/23/10 12:03	

LABORATORY CONTROL SAMPLE: 405821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19300J	97	90-110	

MATRIX SPIKE SAMPLE: 405822

Parameter	Units	9263043001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	79.3 mg/L	20000	90200J	55	75-125	

MATRIX SPIKE SAMPLE: 405824

Parameter	Units	9263627002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	7.6 mg/L	20000	27200J	98	75-125	

SAMPLE DUPLICATE: 405823

Parameter	Units	9263573001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	24.0 mg/L	24200J	1	20	

SAMPLE DUPLICATE: 405825

Parameter	Units	9263627003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

QC Batch: WETA/6805
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9263598012, 9263598013

METHOD BLANK: 405833
Matrix: Water
Associated Lab Samples: 9263598012, 9263598013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	02/23/10 11:39	

LABORATORY CONTROL SAMPLE: 405834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19300J	96	90-110	

MATRIX SPIKE SAMPLE: 405835

Parameter	Units	9263535005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	ND	20000	23600J	98	75-125	

MATRIX SPIKE SAMPLE: 405866

Parameter	Units	9263403018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	8010J	20000	24300J	82	75-125	

SAMPLE DUPLICATE: 405836

Parameter	Units	9263535006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	10.3 mg/L	10700J	4	20	

SAMPLE DUPLICATE: 405867

Parameter	Units	9263403019 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	ND	ND		20	

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QUALIFIERS

Project: WAYNE CLOSED DUDLEY - MNA
Pace Project No.: 9263498

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.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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microseeps
from insight comes solutions

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

Laboratory Results

Total pages in data package: 7

Lab Sample #	Client Sample ID
P1002217-01	MW-2

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 2.26.10

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-2	Vapor	P1002217-01	16 Feb. 10 15:10	19 Feb. 10 10:33

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane		0.920	0.010	ug/L	AM20GAX	2/22/10	sl
N Ethene		0.014	0.010	ug/L	AM20GAX	2/22/10	sl
N Hydrogen		1.700	0.600	nM	AM20GAX	2/22/10	sl
N Methane		2200.000	0.015	ug/L	AM20GAX	2/22/10	sl
SemiVolatiles							
N Acetic Acid	J	0.064	0.070	mg/L	AM23G	2/23/10	kb
N Butyric Acid	U	< 0.070	0.070	mg/L	AM23G	2/23/10	kb
N Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/23/10	kb
N i-Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/23/10	kb
N i-Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/23/10	kb
N Lactic Acid		0.230	0.100	mg/L	AM23G	2/23/10	kb
N Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/23/10	kb
N Propionic Acid		0.095	0.070	mg/L	AM23G	2/23/10	kb
N Pyruvic Acid	U	< 0.070	0.070	mg/L	AM23G	2/23/10	kb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

Prep Method: Light Hydrocarbons (C1-C4) by Bubblestrip
Analysis Method: Light Hydrocarbons (C1-C4) by Bubblestrip

M100222021-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.010	ug/L		0.010		- NA
Ethene	< 0.010	ug/L		0.010		- NA
Methane	< 0.015	ug/L		0.015		- NA

M100222021-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	2.900	ug/L	2.72	107.00	75 - 125
Ethene	6.900	ug/L	6.51	106.00	75 - 125
Methane	3.200	ug/L	3.09	103.00	75 - 125

M100222021-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	2.900	ug/L	2.72	107.00	75 - 125	0.00	0 - 20
Ethene	7.000	ug/L	6.51	107.00	75 - 125	1.44	0 - 20
Methane	3.200	ug/L	3.09	103.00	75 - 125	0.00	0 - 20

[ ] Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
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Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M100222031-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.070	mg/L		0.070		- NA
Propionic Acid	< 0.070	mg/L		0.070		- NA
Butyric Acid	< 0.070	mg/L		0.070		- NA
Lactic Acid	0.071	mg/L		0.100		- NA
Pyruvic Acid	< 0.070	mg/L		0.070		- NA
i-Pentanoic Acid	< 0.070	mg/L		0.070		- NA
Pentanoic Acid	< 0.070	mg/L		0.070		- NA
i-Hexanoic Acid	< 0.100	mg/L		0.100		- NA
Hexanoic Acid	< 0.100	mg/L		0.100		- NA

M100222031-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.000	mg/L	2.00	100.00	70 - 130
Propionic Acid	1.900	mg/L	2.00	95.00	70 - 130
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130
Lactic Acid	1.900	mg/L	2.00	95.00	70 - 130
Pyruvic Acid	1.900	mg/L	2.00	95.00	70 - 130
i-Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
i-Hexanoic Acid	1.900	mg/L	2.00	95.00	70 - 130
Hexanoic Acid	2.000	mg/L	2.00	100.00	70 - 130

P1002196-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.000	mg/L	2.00	98.00	70 - 130
Propionic Acid	2.000	mg/L	2.00	96.00	70 - 130
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130
Lactic Acid	2.000	mg/L	2.00	96.00	70 - 130
Pyruvic Acid	2.000	mg/L	2.00	100.00	70 - 130
i-Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
i-Hexanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
Hexanoic Acid	2.000	mg/L	2.00	100.00	70 - 130

P1002196-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

P1002196-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	2.100	mg/L	2.00	103.00	70 - 130	4.88	0 - 30
Propionic Acid	2.100	mg/L	2.00	101.00	70 - 130	4.88	0 - 30
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
Lactic Acid	2.000	mg/L	2.00	96.00	70 - 130	0.00	0 - 30
Pyruvic Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
i-Pentanoic Acid	2.100	mg/L	2.00	105.00	70 - 130	4.88	0 - 30
Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
i-Hexanoic Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
Hexanoic Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002217
Report Date: 02/26/10
Client Proj Name: 9263498
Client Proj #: 9263498

Prep Method: Hydrogen by Bubble Strip
Analysis Method: Hydrogen by Bubble Strip

M100222036-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0.600	nM		0.600		- NA

M100222036-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	9.900	nM	9.78	101.00	75 - 125

M100222036-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	10.000	nM	9.78	102.00	75 - 125	1.01	0 - 20

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody

P100:2217

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Workorder: 9263498 Workorder Name: WAYNE CLOSED DUDLEY - MNA Results Requested 3/3/2010

Report / Invoice To	Subcontract To
Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com	Microseeps P.O. CH5006557

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: Hydrogen AM20GAX	2 meet (methane/ethane/ethene)	VFA AM23G										LAB USE ONLY
1	MW-2	2/16/2010 15:10	9263498001	Water	4						1	2	1										
2																							
3																							
4																							
5																							

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	2/18/10 17:00	[signature]	2/18/10 1000
2				
3				
4				
5				

Comments

microseeps
from insight comes solutions

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Laboratory Results

Total pages in data package: 9

Lab Sample #	Client Sample ID
P1002220-01	MW-1
P1002220-02	MW-8

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Heather Hauser ***Date:*** 2-26-10

Project Manager: Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-1	Vapor	P1002220-01	17 Feb. 10 13:00	19 Feb. 10 11:06

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/23/10	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/23/10	sl
N Hydrogen		0.700	0.600	nM	AM20GAX	2/23/10	sl
N Methane		0.063	0.015	ug/L	AM20GAX	2/23/10	sl
SemiVolatiles							
N Acetic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Butyric Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/24/10	kb
N i-Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/24/10	kb
N i-Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Lactic Acid		0.130	0.100	mg/L	AM23G	2/24/10	kb
N Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Propionic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Pyruvic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-8	Vapor	P1002220-02	17 Feb. 10 16:00	19 Feb. 10 11:06

Analyte(s)	Flag	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis							
N Ethane	U	< 0.010	0.010	ug/L	AM20GAX	2/23/10	sl
N Ethene	U	< 0.010	0.010	ug/L	AM20GAX	2/23/10	sl
N Hydrogen	J	0.580	0.600	nM	AM20GAX	2/23/10	sl
N Methane		0.200	0.015	ug/L	AM20GAX	2/23/10	sl
SemiVolatiles							
N Acetic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Butyric Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/24/10	kb
N i-Hexanoic Acid	U	< 0.100	0.100	mg/L	AM23G	2/24/10	kb
N i-Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Lactic Acid	J	0.086	0.100	mg/L	AM23G	2/24/10	kb
N Pentanoic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Propionic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb
N Pyruvic Acid	U	< 0.070	0.070	mg/L	AM23G	2/24/10	kb

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Prep Method: Volatile Fatty Acids by Ion Chromatography
Analysis Method: Volatile Fatty Acids by Ion Chromatography

M100224007-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Acetic Acid	< 0.070	mg/L		0.070		- NA
Propionic Acid	< 0.070	mg/L		0.070		- NA
Butyric Acid	< 0.070	mg/L		0.070		- NA
Lactic Acid	0.069	mg/L		0.100		- NA
Pyruvic Acid	< 0.070	mg/L		0.070		- NA
i-Pentanoic Acid	< 0.070	mg/L		0.070		- NA
Pentanoic Acid	< 0.070	mg/L		0.070		- NA
i-Hexanoic Acid	< 0.100	mg/L		0.100		- NA
Hexanoic Acid	< 0.100	mg/L		0.100		- NA

M100224007-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.000	mg/L	2.00	100.00	70 - 130
Propionic Acid	2.000	mg/L	2.00	100.00	70 - 130
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130
Lactic Acid	2.000	mg/L	2.00	100.00	70 - 130
Pyruvic Acid	1.900	mg/L	2.00	95.00	70 - 130
i-Pentanoic Acid	1.900	mg/L	2.00	95.00	70 - 130
Pentanoic Acid	1.900	mg/L	2.00	95.00	70 - 130
i-Hexanoic Acid	1.900	mg/L	2.00	95.00	70 - 130
Hexanoic Acid	1.800	mg/L	2.00	90.00	70 - 130

P1002220-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Acetic Acid	2.000	mg/L	2.00	100.00	70 - 130
Propionic Acid	1.900	mg/L	2.00	95.00	70 - 130
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130
Lactic Acid	2.000	mg/L	2.00	94.00	70 - 130
Pyruvic Acid	1.900	mg/L	2.00	95.00	70 - 130
i-Pentanoic Acid	2.000	mg/L	2.00	100.00	70 - 130
Pentanoic Acid	1.900	mg/L	2.00	95.00	70 - 130
i-Hexanoic Acid	1.900	mg/L	2.00	95.00	70 - 130

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

P1002220-01A-MS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hexanoic Acid	1.800	mg/L	2.00	90.00	70 - 130

P1002220-01A-MSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Acetic Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
Propionic Acid	2.000	mg/L	2.00	100.00	70 - 130	5.13	0 - 30
Butyric Acid	2.000	mg/L	2.00	100.00	70 - 130	0.00	0 - 30
Lactic Acid	2.000	mg/L	2.00	94.00	70 - 130	0.00	0 - 30
Pyruvic Acid	1.900	mg/L	2.00	95.00	70 - 130	0.00	0 - 30
i-Pentanoic Acid	1.900	mg/L	2.00	95.00	70 - 130	5.13	0 - 30
Pentanoic Acid	1.900	mg/L	2.00	95.00	70 - 130	0.00	0 - 30
i-Hexanoic Acid	1.900	mg/L	2.00	95.00	70 - 130	0.00	0 - 30
Hexanoic Acid	1.800	mg/L	2.00	90.00	70 - 130	0.00	0 - 30

[ ] Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Prep Method: Hydrogen by Bubble Strip

Analysis Method: Hydrogen by Bubble Strip

M100224010-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Hydrogen	< 0.600	nM		0.600		- NA

M100224010-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Hydrogen	10.000	nM	9.78	102.00	75 - 125

M100224010-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Hydrogen	10.000	nM	9.78	102.00	75 - 125	0.00	0 - 20

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical Services
Contact: Kevin Godwin
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Lab Proj #: P1002220
Report Date: 02/26/10
Client Proj Name: 9263598
Client Proj #: 9263598

Prep Method: Light Hydrocarbons (C1-C4) by Bubblestrip

Analysis Method: Light Hydrocarbons (C1-C4) by Bubblestrip

M100224011-MB

	Result		TrueSpikeConc.	RDL	%Recovery	Ctl Limits
Ethane	< 0.010	ug/L		0.010		- NA
Ethene	< 0.010	ug/L		0.010		- NA
Methane	< 0.015	ug/L		0.015		- NA

M100224011-LCS

	Result		TrueSpikeConc.	%Recovery	Ctl Limits
Ethane	2.900	ug/L	2.72	107.00	75 - 125
Ethene	7.000	ug/L	6.51	107.00	75 - 125
Methane	3.200	ug/L	3.09	103.00	75 - 125

M100224011-LCSD

	Result		TrueSpikeConc.	%Recovery	Ctl Limits	RPD	RPD Ctl Limits
Ethane	2.900	ug/L	2.72	107.00	75 - 125	0.00	0 - 20
Ethene	7.000	ug/L	6.51	107.00	75 - 125	0.00	0 - 20
Methane	3.200	ug/L	3.09	103.00	75 - 125	0.00	0 - 20

[ ] Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Chain of Custody

P1002220

Pace Analytical
www.pacelabs.com

Workorder: 9263598 **Workorder Name:** WAYNE CLOESD - DM **Results Requested** 3/4/2010

Report / Invoice To

Kevin Godwin
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: kevin.godwin@pacelabs.com

Subcontract To

Microseeps

P.O. CHS016535

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Hydrogen (Amazing)	VFA (Amazing)	Meo (methane-ethane-ethene)	LAB USE ONLY
1	MW-1	2/17/2010 13:00	9263598012	Water	3	1	1	1	
2	MW-8	2/17/2010 16:00	9263598013	Water	4	1	1	1	
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	2/18/10 17:00	[signature]	2/18/10 1000
2				
3				
4				
5				

Comments

Partial- Combine w/ other samples to be submitted Later.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1353401

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Gaine: NC 27529
Email To: jpfohl@mesco.com
Phone: (919) 772-5373 Fax: (919) 772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Wayne Closed Dudley - MNA
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-7

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other BAK (Trisodium Phosphate)	VOCs-APT	Metals-APT + Fe	Hydrogen-Dissolved (M)	Methane/Ethane/Ethene (M)	Alkalinity	Sulfate / Chloride	Sulfide	TOC	BOD	COD	Nitrate	VFA (M)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-2	WT	G			2/16/10	3:10		16	5	3	1	3	1		1	2		1	1	1	1	1	1	1	1	1	1	1	N	001
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

(M) = Microseeps
Hydrogen - AM20GAX
Methane/Ethane/Ethene - AM20GAX
VFA - AM23G
92163198

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	(MESCO)	2/17/10	8:50	Mesco	2/17/10	915				
	Pace	2/17/10	1210	Cloud Pace	2/17/10	1210	5.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/17/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Combine w/ C-O-C 1353401 for Report. This is Cust C-O-C for this Report

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1353468

Section A Required Client Information:

Company: Municipal Engineering (MESCO)
Address: PO Box 97
Garner NC 27529
Email To: jpfahl@mesco.com
Phone: (919) 772-5393 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfahl
Copy To:
Purchase Order No.:
Project Name: Wayne Closed - MNA
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-7

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): VOCs-Agt; Metals-Agt + Fe; Hydrogen-Dissolved (M); Methane/Ethane/Ethene (M); Alkalinity; Sulfate/Chloride; Sulfide; TOC; BOD; COD; Nitrate; VFA (M)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol Trisodium Phosphate	Other BAK	VOCs-Agt	Metals-Agt + Fe	Hydrogen-Dissolved (M)	Methane/Ethane/Ethene (M)	Alkalinity	Sulfate/Chloride	Sulfide	TOC	BOD	COD	Nitrate	VFA (M)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			2/17/10	1:00		16	5	3	1	3	1		1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	92635 98 012
2	MW-8	WT	G			↓	4:00		16	5	3	1	3	1		1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	N	~~92635 98~~ 92635 98 013
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MESCO	2/18/10	8:25	Pace	2-18-10	8:25				
	Pace	2-18-10	13:25	PPDC	2/18/10	1325	3.4	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/18/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 08, 2010

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: WAYNE - BLANKS
Pace Project No.: 9263600

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Charlotte Certification IDs

Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84

Asheville Certification IDs

Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
2225 Riverside Dr. Asheville, NC 28804
West Virginia Certification #: 356
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Connecticut Certification #: PH-0106

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9263600001	**EB**	Water	02/15/10 00:00	02/18/10 13:25
9263600002	**FB**	Water	02/15/10 00:00	02/18/10 13:25
9263600003	**TB**	Water	02/15/10 00:00	02/18/10 13:25

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9263600001	**EB**	EPA 6010	EWS	16	PASI-A
		EPA 8260	MCK	52	PASI-C
9263600002	**FB**	EPA 8260	MCK	52	PASI-C
9263600003	**TB**	EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: EB **Lab ID: 9263600001** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	02/22/10 11:41	03/04/10 17:43	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	02/22/10 11:41	03/04/10 17:43	7440-38-2	
Barium	ND	ug/L	100	0.20	1	02/22/10 11:41	03/04/10 17:43	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	02/22/10 11:41	03/04/10 17:43	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	02/22/10 11:41	03/04/10 17:43	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	02/22/10 11:41	03/04/10 17:43	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	02/22/10 11:41	03/04/10 17:43	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	02/22/10 11:41	03/04/10 17:43	7440-50-8	
Iron	ND	ug/L	300	14.0	1	02/22/10 11:41	03/04/10 17:43	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	02/22/10 11:41	03/04/10 17:43	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	02/22/10 11:41	03/04/10 17:43	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	02/22/10 11:41	03/04/10 17:43	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	02/22/10 11:41	03/04/10 17:43	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	02/22/10 11:41	03/04/10 17:43	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	02/22/10 11:41	03/04/10 17:43	7440-62-2	
Zinc	**2.9J**	ug/L	10.0	0.40	1	02/22/10 11:41	03/04/10 17:43	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/22/10 15:31	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 15:31	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/10 15:31	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 15:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 15:31	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 15:31	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 15:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/10 15:31	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 15:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 15:31	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/10 15:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 15:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/10 15:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 15:31	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 15:31	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 15:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 15:31	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 15:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/10 15:31	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/10 15:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 15:31	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 15:31	75-34-3	
1,2-Dichloroethane	**1.6**	ug/L	1.0	0.12	1		02/22/10 15:31	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 15:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 15:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 15:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 15:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 15:31	142-28-9	

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ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: EB **Lab ID: 9263600001** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 15:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 15:31	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 15:31	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 15:31	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 15:31	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 15:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 15:31	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 15:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 15:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 15:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 15:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 15:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 15:31	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 15:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 15:31	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 15:31	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		02/22/10 15:31	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		02/22/10 15:31	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	79-120		1		02/22/10 15:31	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		02/22/10 15:31	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: FB **Lab ID: 9263600002** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/22/10 15:55	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 15:55	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/10 15:55	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 15:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 15:55	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 15:55	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 15:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/22/10 15:55	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 15:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 15:55	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/10 15:55	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 15:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/10 15:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 15:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 15:55	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 15:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 15:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 15:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/10 15:55	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/10 15:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 15:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 15:55	75-34-3	
1,2-Dichloroethane	**1.6**	ug/L	1.0	0.12	1		02/22/10 15:55	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 15:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 15:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 15:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 15:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 15:55	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 15:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 15:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 15:55	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 15:55	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 15:55	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 15:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 15:55	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 15:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 15:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 15:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 15:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 15:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 15:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 15:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 15:55	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 15:55	108-05-4	

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ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: FB **Lab ID: 9263600002** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 15:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 15:55	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		02/22/10 15:55	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		02/22/10 15:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	79-120		1		02/22/10 15:55	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		02/22/10 15:55	2037-26-5	

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ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: TB **Lab ID: 9263600003** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**81.6J**	ug/L	100	2.2	1		02/22/10 16:19	67-64-1	C9
Acrylonitrile	ND	ug/L	200	1.9	1		02/22/10 16:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/22/10 16:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/22/10 16:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/22/10 16:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/22/10 16:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/22/10 16:19	74-83-9	
2-Butanone (MEK)	**9.0J**	ug/L	100	0.96	1		02/22/10 16:19	78-93-3	C9
Carbon disulfide	ND	ug/L	100	1.2	1		02/22/10 16:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/22/10 16:19	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/22/10 16:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/22/10 16:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/22/10 16:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/22/10 16:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/22/10 16:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/22/10 16:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/22/10 16:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/22/10 16:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/22/10 16:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/22/10 16:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/22/10 16:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/22/10 16:19	75-34-3	
1,2-Dichloroethane	**1.6**	ug/L	1.0	0.12	1		02/22/10 16:19	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/22/10 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/22/10 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/22/10 16:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/22/10 16:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/22/10 16:19	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/22/10 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/22/10 16:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/22/10 16:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/22/10 16:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/22/10 16:19	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/22/10 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/22/10 16:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/22/10 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/22/10 16:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/22/10 16:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/22/10 16:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/22/10 16:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/22/10 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/22/10 16:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/22/10 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/22/10 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/22/10 16:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/22/10 16:19	108-05-4	

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(704)875-9092

ANALYTICAL RESULTS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

Sample: TB **Lab ID: 9263600003** Collected: 02/15/10 00:00 Received: 02/18/10 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/22/10 16:19	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/22/10 16:19	1330-20-7	
4-Bromofluorobenzene (S)	97	%	87-109		1		02/22/10 16:19	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		02/22/10 16:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	117	%	79-120		1		02/22/10 16:19	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		02/22/10 16:19	2037-26-5	

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QUALITY CONTROL DATA

Project: WAYNE - BLANKS
Pace Project No.: 9263600

QC Batch: MPRP/5851
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9263600001

METHOD BLANK: 404704
Matrix: Water
Associated Lab Samples: 9263600001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/04/10 16:29	
Arsenic	ug/L	ND	10.0	03/04/10 16:29	
Barium	ug/L	ND	100	03/04/10 16:29	
Beryllium	ug/L	ND	1.0	03/04/10 16:29	
Cadmium	ug/L	ND	1.0	03/04/10 16:29	
Chromium	ug/L	ND	10.0	03/04/10 16:29	
Cobalt	ug/L	ND	10.0	03/04/10 16:29	
Copper	ug/L	ND	10.0	03/04/10 16:29	
Iron	ug/L	ND	300	03/04/10 16:29	
Lead	ug/L	ND	10.0	03/04/10 16:29	
Nickel	ug/L	ND	50.0	03/04/10 16:29	
Selenium	ug/L	ND	10.0	03/04/10 16:29	
Silver	ug/L	ND	10.0	03/04/10 16:29	
Thallium	ug/L	ND	5.5	03/04/10 16:29	
Vanadium	ug/L	ND	25.0	03/04/10 16:29	
Zinc	ug/L	3.2J	10.0	03/04/10 16:29	

LABORATORY CONTROL SAMPLE: 404705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	491	98	80-120	
Arsenic	ug/L	500	501	100	80-120	
Barium	ug/L	500	511	102	80-120	
Beryllium	ug/L	500	533	107	80-120	
Cadmium	ug/L	500	509	102	80-120	
Chromium	ug/L	500	523	105	80-120	
Cobalt	ug/L	500	514	103	80-120	
Copper	ug/L	500	504	101	80-120	
Iron	ug/L	5000	5310	106	80-120	
Lead	ug/L	500	507	101	80-120	
Nickel	ug/L	500	518	104	80-120	
Selenium	ug/L	500	498	100	80-120	
Silver	ug/L	250	244	98	80-120	
Thallium	ug/L	500	490	98	80-120	
Vanadium	ug/L	500	515	103	80-120	
Zinc	ug/L	500	507	101	80-120	

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QUALITY CONTROL DATA

Project: WAYNE - BLANKS
Pace Project No.: 9263600

MATRIX SPIKE SAMPLE: 404706

Parameter	Units	9263403015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	481	96	75-125	
Arsenic	ug/L	ND	500	496	99	75-125	
Barium	ug/L	41.5J	500	546	101	75-125	
Beryllium	ug/L	ND	500	528	106	75-125	
Cadmium	ug/L	ND	500	500	100	75-125	
Chromium	ug/L	1.4J	500	515	103	75-125	
Cobalt	ug/L	ND	500	506	101	75-125	
Copper	ug/L	0.42J	500	502	100	75-125	
Iron	ug/L	1110	5000	6550	109	75-125	
Lead	ug/L	ND	500	495	99	75-125	
Nickel	ug/L	ND	500	508	101	75-125	
Selenium	ug/L	ND	500	498	100	75-125	
Silver	ug/L	ND	250	237	95	75-125	
Thallium	ug/L	ND	500	481	96	75-125	
Vanadium	ug/L	2.1J	500	512	102	75-125	
Zinc	ug/L	4.1J	500	499	99	75-125	

SAMPLE DUPLICATE: 404707

Parameter	Units	9263595001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	79.0J	81.4J	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	2.4	2.5	2	25	
Chromium	ug/L	0.69J	0.81J		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	4.0J	4.3J		25	
Iron	ug/L	1720	1760	2	25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	1.8J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	2.5J	2.4J		25	
Zinc	ug/L	31.5	32.7	4	25	

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QUALITY CONTROL DATA

Project: WAYNE - BLANKS
Pace Project No.: 9263600

QC Batch: MSV/10032 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9263600001, 9263600002, 9263600003

METHOD BLANK: 405488 Matrix: Water
Associated Lab Samples: 9263600001, 9263600002, 9263600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/10 11:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/22/10 11:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/10 11:31	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/22/10 11:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/10 11:31	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/10 11:31	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,3-Dichloropropane	ug/L	ND	1.0	02/22/10 11:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/10 11:31	
2-Butanone (MEK)	ug/L	ND	100	02/22/10 11:31	
2-Hexanone	ug/L	ND	50.0	02/22/10 11:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/22/10 11:31	
Acetone	ug/L	ND	100	02/22/10 11:31	
Acrylonitrile	ug/L	ND	200	02/22/10 11:31	
Benzene	ug/L	ND	1.0	02/22/10 11:31	
Bromochloromethane	ug/L	ND	3.0	02/22/10 11:31	
Bromodichloromethane	ug/L	ND	1.0	02/22/10 11:31	
Bromoform	ug/L	ND	3.0	02/22/10 11:31	
Bromomethane	ug/L	ND	10.0	02/22/10 11:31	
Carbon disulfide	ug/L	ND	100	02/22/10 11:31	
Carbon tetrachloride	ug/L	ND	1.0	02/22/10 11:31	
Chlorobenzene	ug/L	ND	3.0	02/22/10 11:31	
Chloroethane	ug/L	ND	10.0	02/22/10 11:31	
Chloroform	ug/L	ND	5.0	02/22/10 11:31	
Chloromethane	ug/L	ND	1.0	02/22/10 11:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 11:31	
Dibromochloromethane	ug/L	ND	3.0	02/22/10 11:31	
Dibromomethane	ug/L	ND	10.0	02/22/10 11:31	
Ethylbenzene	ug/L	ND	1.0	02/22/10 11:31	
Iodomethane	ug/L	ND	10.0	02/22/10 11:31	
Methylene Chloride	ug/L	ND	2.0	02/22/10 11:31	
Styrene	ug/L	ND	1.0	02/22/10 11:31	
Tetrachloroethene	ug/L	ND	1.0	02/22/10 11:31	
Toluene	ug/L	ND	1.0	02/22/10 11:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/10 11:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/10 11:31	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/22/10 11:31	

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QUALITY CONTROL DATA

Project: WAYNE - BLANKS
Pace Project No.: 9263600

METHOD BLANK: 405488 Matrix: Water

Associated Lab Samples: 9263600001, 9263600002, 9263600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/22/10 11:31	
Trichlorofluoromethane	ug/L	ND	1.0	02/22/10 11:31	
Vinyl acetate	ug/L	ND	50.0	02/22/10 11:31	
Vinyl chloride	ug/L	ND	1.0	02/22/10 11:31	
Xylene (Total)	ug/L	ND	2.0	02/22/10 11:31	
1,2-Dichloroethane-d4 (S)	%	118	79-120	02/22/10 11:31	
4-Bromofluorobenzene (S)	%	98	87-109	02/22/10 11:31	
Dibromofluoromethane (S)	%	104	85-115	02/22/10 11:31	
Toluene-d8 (S)	%	99	70-120	02/22/10 11:31	

LABORATORY CONTROL SAMPLE: 405489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.2	112	83-125	
1,1,1-Trichloroethane	ug/L	50	57.3	115	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	73-127	
1,1,2-Trichloroethane	ug/L	50	54.2	108	77-123	
1,1-Dichloroethane	ug/L	50	56.4	113	76-129	
1,1-Dichloroethene	ug/L	50	56.3	113	78-146	
1,2,3-Trichloropropane	ug/L	50	53.7	107	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	59.1	118	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	81-125	
1,2-Dichlorobenzene	ug/L	50	57.4	115	82-126	
1,2-Dichloroethane	ug/L	50	56.6	113	72-126	
1,2-Dichloropropane	ug/L	50	53.9	108	80-127	
1,3-Dichloropropane	ug/L	50	55.8	112	79-124	
1,4-Dichlorobenzene	ug/L	50	56.3	113	79-125	
2-Butanone (MEK)	ug/L	100	129	129	50-134	
2-Hexanone	ug/L	100	130	130	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	126	126	70-131	
Acetone	ug/L	100	135	135	50-146	
Acrylonitrile	ug/L	250	291	116	66-124	
Benzene	ug/L	50	52.5	105	78-128	
Bromochloromethane	ug/L	50	48.8	98	73-124	
Bromodichloromethane	ug/L	50	52.0	104	81-125	
Bromoform	ug/L	50	56.8	114	71-125	
Bromomethane	ug/L	50	45.9	92	50-150	
Carbon disulfide	ug/L	50	53.5J	107	54-150	
Carbon tetrachloride	ug/L	50	59.6	119	81-137	
Chlorobenzene	ug/L	50	56.0	112	82-126	
Chloroethane	ug/L	50	45.0	90	69-140	
Chloroform	ug/L	50	51.6	103	77-129	
Chloromethane	ug/L	50	58.3	117	54-139	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	76-133	
cis-1,3-Dichloropropene	ug/L	50	55.3	111	76-127	

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QUALITY CONTROL DATA

Project: WAYNE - BLANKS
Pace Project No.: 9263600

LABORATORY CONTROL SAMPLE: 405489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	55.6	111	77-125	
Dibromomethane	ug/L	50	53.4	107	77-125	
Ethylbenzene	ug/L	50	57.1	114	80-127	
Iodomethane	ug/L	100	100	100	65-172	
Methylene Chloride	ug/L	50	55.8	112	67-133	
Styrene	ug/L	50	58.0	116	80-130	
Tetrachloroethene	ug/L	50	55.0	110	78-128	
Toluene	ug/L	50	53.0	106	76-126	
trans-1,2-Dichloroethene	ug/L	50	54.0	108	78-134	
trans-1,3-Dichloropropene	ug/L	50	57.4	115	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	69.0J	138	51-140	
Trichloroethene	ug/L	50	53.2	106	79-127	
Trichlorofluoromethane	ug/L	50	54.6	109	76-148	
Vinyl acetate	ug/L	100	135	135	50-150	
Vinyl chloride	ug/L	50	51.4	103	67-143	
Xylene (Total)	ug/L	150	179	119	83-125	
1,2-Dichloroethane-d4 (S)	%			109	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 405490 405491

Parameter	Units	9263598007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	63.9	62.9	128	126	60-150	2	30	
Benzene	ug/L	ND	50	50	58.7	57.5	117	115	74-136	2	30	
Chlorobenzene	ug/L	ND	50	50	62.3	61.5	125	123	79-135	1	30	
Toluene	ug/L	ND	50	50	60.1	59.1	120	118	73-131	2	30	
Trichloroethene	ug/L	ND	50	50	59.5	58.7	119	117	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						117	118	79-120			
4-Bromofluorobenzene (S)	%						99	99	87-109			
Dibromofluoromethane (S)	%						103	104	85-115			
Toluene-d8 (S)	%						98	97	70-120			

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QUALIFIERS

Project: WAYNE - BLANKS
Pace Project No.: 9263600

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.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1353406

Section A Required Client Information:

Company: Municipal Engineering Services
Address: PO Box 97
Gurney NC 27529
Email To: jpfohl@MESCO.com
Phone: Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Wayne - Blanks
Project Number:

Section C Invoice Information:

Attention: See section A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-7

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N: N, N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs-Appt I	Analysis Test: Metals-Appt I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EB	WT	G			2/15/10			4			1	3					✓	✓		001
2	FB					2/15/10			3				3					✓		N	002
3	TB				PACE	Filled			2				2					✓			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Blanks for Both Lined & closed	MESCO	2/18/10	8:25	pace	2-18-10	8:25				
	pace air	2/15/10	13:25		2/18/10	1325	3.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/18/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co Closed MSWLF & Active C&D LF, Dudley

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Notes	Total Depth	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-1	2/17/10	1:00	12.51	MNA	10	P&DB	N	Adjacent House Raised on 2/16/10	25	20	6.9	281	5.15	13.5	31	17	12.3 c	NR
MW-2	2/16/10	3:10	4.07	MNA	8	P&DB	Y		15	>100	0.9	-36	6.63	8.9	1215	606	14.6 c	NR
MW-3	2/17/10	2:40	0.00	DM	13	DB	N	Flowing Artesian	18	NR	0.1	126	6.19	12.8	38	21	8.96 c	NR
MW-4	2/17/10	10:10	5.83	DM	11	DB	N		15	NR	0.6	121	6.26	12.9	107	53	9.29 c	NR
MW-5	2/17/10	12:05	2.53	DM	12	DB	N		18	NR	1.9	256	4.78	11.8	60	28	63.9 c	NR
MW-6	2/17/10	10:45	4.20	DM	13	DB	N		18.14	NR	1.8	93	6.01	12.8	231	107	10.7 c	NR
MW-7	2/17/10	5:20	4.03	DM	10	DB	N		19	NR	2.9	242	5.00	10.4	124	62	9.81 c	NR
MW-8	2/17/10	4:00	17.95	MNA	8	P&DB	N	Someone changed lock	29	>100	0.9	324	4.63	12.9	59	29	21.3 c	NR
MW-9	2/17/10	1:05	17.90	DM	7	P&DB	N		~35	NR	4.8	276	5.06	16.9	60	31	>1,000 MT	NR
MW-10	2/17/10	11:30	16.61	DM	12	P&DB	N		~35	NR	5.9	323	4.93	16.8	47	23	>1,000 T	NR
MW-11	2/17/10	4:35	1.21	DM	6	DB	N		~15	NR	1.9	179	5.73	15.1	1320	661	>1,000 T	NR
SW-3	NS		DRY					Furthest upstream										

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained

MW-2 Sampled out of planned sequence since poor access & needed mobilization assistance

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co Closed MSWLF, ~~Dudley~~ - SW - ~~Shared Surface Waters~~

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Lab Parameters to be analyzed for	Sample Type	Visual Gage Height	Visual Flow Rate	Notes	Water Quality Parameters: DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity
SW-2	2/11/10	1:00	DM	Dip	Low	Low	Closed Upstream 1st Time Had pure oil coated	6.31	131	6.89	6.3	319	146	<

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