Pace Analytical Services, Inc.
1233 Dublin Road
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7726 Moller Road
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February 08, 2012

Gene Nance
TechLaw, Inc.
2208 Warwood Ave
Wheeling, WV 26003

RE: Project: R33917
Pace Project No.: 5057872

Dear Gene Nance:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kenneth Hunt for
Mick Mayse
mick.mayse@pacelabs.com
Project Manager

Enclosures

cc: Fred Foreman, EPA
Suddha Graves, TechLaw, Inc.

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CERTIFICATIONS

Project: R33917
Pace Project No.: 5057872

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: R33917
Pace Project No.: 5057872

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5057872001	**EB01**	Water	01/28/12 11:26	02/01/12 07:59
5057872002	**FB06**	Water	01/30/12 09:30	02/01/12 07:59
5057872003	**HW13**	Water	01/30/12 11:23	02/01/12 07:59
5057872004	**HW18**	Water	01/30/12 11:27	02/01/12 07:59
5057872005	**HW18-P**	Water	01/30/12 11:52	02/01/12 07:59
5057872006	**HW20**	Water	01/30/12 16:12	02/01/12 07:59
5057872007	**HW20-P**	Water	01/30/12 16:29	02/01/12 07:59
5057872008	**HW25-P**	Water	01/30/12 15:32	02/01/12 07:59

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SAMPLE ANALYTE COUNT

Project: R33917
Pace Project No.: 5057872

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5057872001	**EB01**	EPA 8015B Modified	RAK	1
5057872002	**FB06**	EPA 8015B Modified	RAK	1
5057872003	**HW13**	EPA 8015B Modified	RAK	1
5057872004	**HW18**	EPA 8015B Modified	RAK	1
5057872005	**HW18-P**	EPA 8015B Modified	RAK	1
5057872006	**HW20**	EPA 8015B Modified	RAK	1
5057872007	**HW20-P**	EPA 8015B Modified	RAK	1
5057872008	**HW25-P**	EPA 8015B Modified	RAK	1

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: EB01 **Lab ID: 5057872001** Collected: 01/28/12 11:26 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:20	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: FB06 **Lab ID: 5057872002** Collected: 01/30/12 09:30 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:25	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW13 **Lab ID: 5057872003** Collected: 01/30/12 11:23 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:30	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW18 **Lab ID: 5057872004** Collected: 01/30/12 11:27 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:35	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW18-P **Lab ID: 5057872005** Collected: 01/30/12 11:52 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:40	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW20 **Lab ID: 5057872006** Collected: 01/30/12 16:12 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:45	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW20-P **Lab ID: 5057872007** Collected: 01/30/12 16:29 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:50	107-21-1	

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ANALYTICAL RESULTS

Project: R33917
Pace Project No.: 5057872

Sample: HW25-P **Lab ID: 5057872008** Collected: 01/30/12 15:32 Received: 02/01/12 07:59 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015M Alcohols	Analytical Method: EPA 8015B Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		02/02/12 16:55	107-21-1	

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QUALITY CONTROL DATA

Project: R33917
Pace Project No.: 5057872

QC Batch: GCSV/8845 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: EPA 8015 Modified
Associated Lab Samples: 5057872001, 5057872002, 5057872003, 5057872004, 5057872005, 5057872006, 5057872007, 5057872008

METHOD BLANK: 681420 Matrix: Water
Associated Lab Samples: 5057872001, 5057872002, 5057872003, 5057872004, 5057872005, 5057872006, 5057872007, 5057872008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylene glycol	mg/L	ND	10.0	02/02/12 09:23	

LABORATORY CONTROL SAMPLE: 681421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylene glycol	mg/L	250	279	112	78-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 681422 681423

Parameter	Units	5057872001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylene glycol	mg/L	ND	250	250	242	211	96	83	51-135	14	20	

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QUALIFIERS

Project: R33917
Pace Project No.: 5057872

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R33917
Pace Project No.: 5057872

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5057872001	**EB01**	EPA 8015B Modified	GCSV/8845		
5057872002	**FB06**	EPA 8015B Modified	GCSV/8845		
5057872003	**HW13**	EPA 8015B Modified	GCSV/8845		
5057872004	**HW18**	EPA 8015B Modified	GCSV/8845		
5057872005	**HW18-P**	EPA 8015B Modified	GCSV/8845		
5057872006	**HW20**	EPA 8015B Modified	GCSV/8845		
5057872007	**HW20-P**	EPA 8015B Modified	GCSV/8845		
5057872008	**HW25-P**	EPA 8015B Modified	GCSV/8845		

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