Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 13, 2010

Randall Woodlee
Center for Toxicology and Environmental Health
5120 North Shore Blvd.
North Little Rock, AR 72118

RE: Project: 4975-2
Pace Project No.: 10128667

Dear Randall Woodlee:
Enclosed are the analytical results for sample(s) received by the laboratory on May 12, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: CTEH, Center for Toxicology and Environmental Health

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 4975-2
Pace Project No.: 10128667

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 4975-2
Pace Project No.: 10128667

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10128667001	**OIGM0511AIR001**	Air	05/11/10 15:17	05/12/10 16:00
10128667002	**OIGM0511AIR002**	Air	05/11/10 15:34	05/12/10 16:00

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SAMPLE ANALYTE COUNT

Project: 4975-2
Pace Project No.: 10128667

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10128667001	**OIGM0511AIR001**	TO-15	LCW	62	PASI-M
10128667002	**OIGM0511AIR002**	TO-15	CJR, LCW	62	PASI-M

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PROJECT NARRATIVE

Project: 4975-2
Pace Project No.: 10128667

Method: **TO-15**
Description: TO15 MSV AIR
Client: BP_CTEH_Gulf
Date: May 13, 2010

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/10203

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- OIGM0511AIR001 (Lab ID: 10128667001)
  - Naphthalene
- OIGM0511AIR002 (Lab ID: 10128667002)
  - Naphthalene

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/10203

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 788805)
  - Tetrachloroethene

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.

- LCS (Lab ID: 788805)
  - Bromoform

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 4975-2
Pace Project No.: 10128667

Method: **TO-15**
Description: TO15 MSV AIR
Client: BP_CTEH_Gulf
Date: May 13, 2010

Analyte Comments:

QC Batch: AIR/10203

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- OIGM0511AIR002 (Lab ID: 10128667002)
  - Cyclohexane
  - n-Heptane
  - n-Hexane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 4975-2
Pace Project No.: 10128667

Sample: OIGM0511AIR001 **Lab ID: 10128667001** Collected: 05/11/10 15:17 Received: 05/12/10 16:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**7.4**	ug/m3	1.3	2.68		05/13/10 09:29	67-64-1	
Benzene	**7.1**	ug/m3	1.7	2.68		05/13/10 09:29	71-43-2	
Benzyl chloride	ND	ug/m3	2.8	2.68		05/13/10 09:29	100-44-7	
Bromodichloromethane	ND	ug/m3	3.8	2.68		05/13/10 09:29	75-27-4	
Bromoform	ND	ug/m3	5.6	2.68		05/13/10 09:29	75-25-2	
Bromomethane	ND	ug/m3	2.1	2.68		05/13/10 09:29	74-83-9	
1,3-Butadiene	ND	ug/m3	1.2	2.68		05/13/10 09:29	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.6	2.68		05/13/10 09:29	78-93-3	
Carbon disulfide	ND	ug/m3	1.7	2.68		05/13/10 09:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.5	2.68		05/13/10 09:29	56-23-5	
Chlorobenzene	ND	ug/m3	2.5	2.68		05/13/10 09:29	108-90-7	
Chloroethane	ND	ug/m3	1.4	2.68		05/13/10 09:29	75-00-3	
Chloroform	ND	ug/m3	2.7	2.68		05/13/10 09:29	67-66-3	
Chloromethane	ND	ug/m3	1.1	2.68		05/13/10 09:29	74-87-3	
Cyclohexane	**1300**	ug/m3	18.2	26.8		05/13/10 10:10	110-82-7	
Dibromochloromethane	ND	ug/m3	4.6	2.68		05/13/10 09:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.3	2.68		05/13/10 09:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.2	2.68		05/13/10 09:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.2	2.68		05/13/10 09:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.2	2.68		05/13/10 09:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.7	2.68		05/13/10 09:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.2	2.68		05/13/10 09:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.2	2.68		05/13/10 09:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.2	2.68		05/13/10 09:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.2	2.68		05/13/10 09:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.2	2.68		05/13/10 09:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.5	2.68		05/13/10 09:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.5	2.68		05/13/10 09:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.5	2.68		05/13/10 09:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.8	2.68		05/13/10 09:29	76-14-2	
Ethanol	**24.8**	ug/m3	5.1	2.68		05/13/10 09:29	64-17-5	
Ethyl acetate	ND	ug/m3	2.0	2.68		05/13/10 09:29	141-78-6	
Ethylbenzene	**79.7**	ug/m3	2.4	2.68		05/13/10 09:29	100-41-4	
4-Ethyltoluene	**218**	ug/m3	6.7	2.68		05/13/10 09:29	622-96-8	
n-Heptane	**2230**	ug/m3	22.2	26.8		05/13/10 10:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	5.9	2.68		05/13/10 09:29	87-68-3	
n-Hexane	**2170**	ug/m3	19.3	26.8		05/13/10 10:10	110-54-3	
2-Hexanone	ND	ug/m3	2.2	2.68		05/13/10 09:29	591-78-6	
Methylene Chloride	ND	ug/m3	1.9	2.68		05/13/10 09:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.2	2.68		05/13/10 09:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.0	2.68		05/13/10 09:29	1634-04-4	
Naphthalene	**10.8**	ug/m3	7.2	2.68		05/13/10 09:29	91-20-3	SS
2-Propanol	**7.6**	ug/m3	6.7	2.68		05/13/10 09:29	67-63-0	
Propylene	ND	ug/m3	0.94	2.68		05/13/10 09:29	115-07-1	
Styrene	ND	ug/m3	2.3	2.68		05/13/10 09:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.8	2.68		05/13/10 09:29	79-34-5	
Tetrachloroethene	ND	ug/m3	3.8	2.68		05/13/10 09:29	127-18-4	

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ANALYTICAL RESULTS

Project: 4975-2
Pace Project No.: 10128667

Sample: OIGM0511AIR001 **Lab ID: 10128667001** Collected: 05/11/10 15:17 Received: 05/12/10 16:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	1.6	2.68		05/13/10 09:29	109-99-9	
THC as Gas	**128000**	ug/m3	2330	26.8		05/13/10 10:10		
Toluene	**132**	ug/m3	2.1	2.68		05/13/10 09:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.7	2.68		05/13/10 09:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.9	2.68		05/13/10 09:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.9	2.68		05/13/10 09:29	79-00-5	
Trichloroethene	ND	ug/m3	2.9	2.68		05/13/10 09:29	79-01-6	
Trichlorofluoromethane	**4.1**	ug/m3	2.9	2.68		05/13/10 09:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.3	2.68		05/13/10 09:29	76-13-1	
1,2,4-Trimethylbenzene	**280**	ug/m3	6.7	2.68		05/13/10 09:29	95-63-6	
1,3,5-Trimethylbenzene	**109**	ug/m3	6.7	2.68		05/13/10 09:29	108-67-8	
Vinyl acetate	ND	ug/m3	1.9	2.68		05/13/10 09:29	108-05-4	
Vinyl chloride	ND	ug/m3	1.4	2.68		05/13/10 09:29	75-01-4	
m&p-Xylene	**418**	ug/m3	4.7	2.68		05/13/10 09:29	179601-23-1	
o-Xylene	**147**	ug/m3	2.4	2.68		05/13/10 09:29	95-47-6	

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ANALYTICAL RESULTS

Project: 4975-2
Pace Project No.: 10128667

Sample: OIGM0511AIR002 **Lab ID: 10128667002** Collected: 05/11/10 15:34 Received: 05/12/10 16:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	1.3	2.76		05/13/10 10:41	67-64-1	
Benzene	**38.9**	ug/m3	1.8	2.76		05/13/10 10:41	71-43-2	
Benzyl chloride	ND	ug/m3	2.9	2.76		05/13/10 10:41	100-44-7	
Bromodichloromethane	ND	ug/m3	3.9	2.76		05/13/10 10:41	75-27-4	
Bromoform	ND	ug/m3	5.8	2.76		05/13/10 10:41	75-25-2	
Bromomethane	ND	ug/m3	2.2	2.76		05/13/10 10:41	74-83-9	
1,3-Butadiene	ND	ug/m3	1.2	2.76		05/13/10 10:41	106-99-0	
2-Butanone (MEK)	ND	ug/m3	1.7	2.76		05/13/10 10:41	78-93-3	
Carbon disulfide	ND	ug/m3	1.7	2.76		05/13/10 10:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	3.6	2.76		05/13/10 10:41	56-23-5	
Chlorobenzene	ND	ug/m3	2.6	2.76		05/13/10 10:41	108-90-7	
Chloroethane	ND	ug/m3	1.5	2.76		05/13/10 10:41	75-00-3	
Chloroform	ND	ug/m3	2.7	2.76		05/13/10 10:41	67-66-3	
Chloromethane	ND	ug/m3	1.2	2.76		05/13/10 10:41	74-87-3	
Cyclohexane	**5100**	ug/m3	18.8	27.6		05/13/10 13:41	110-82-7	E
Dibromochloromethane	ND	ug/m3	4.7	2.76		05/13/10 10:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	4.4	2.76		05/13/10 10:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.3	2.76		05/13/10 10:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3.3	2.76		05/13/10 10:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.3	2.76		05/13/10 10:41	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.8	2.76		05/13/10 10:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.3	2.76		05/13/10 10:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2.3	2.76		05/13/10 10:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.2	2.76		05/13/10 10:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.2	2.76		05/13/10 10:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.2	2.76		05/13/10 10:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.6	2.76		05/13/10 10:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2.5	2.76		05/13/10 10:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2.5	2.76		05/13/10 10:41	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.9	2.76		05/13/10 10:41	76-14-2	
Ethanol	**8.5**	ug/m3	5.2	2.76		05/13/10 10:41	64-17-5	
Ethyl acetate	ND	ug/m3	2.0	2.76		05/13/10 10:41	141-78-6	
Ethylbenzene	**259**	ug/m3	2.4	2.76		05/13/10 10:41	100-41-4	
4-Ethyltoluene	**238**	ug/m3	69.0	27.6		05/13/10 13:41	622-96-8	
n-Heptane	**6330**	ug/m3	22.9	27.6		05/13/10 13:41	142-82-5	E
Hexachloro-1,3-butadiene	ND	ug/m3	6.1	2.76		05/13/10 10:41	87-68-3	
n-Hexane	**6720**	ug/m3	19.9	27.6		05/13/10 13:41	110-54-3	E
2-Hexanone	ND	ug/m3	2.3	2.76		05/13/10 10:41	591-78-6	
Methylene Chloride	ND	ug/m3	2.0	2.76		05/13/10 10:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.3	2.76		05/13/10 10:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.0	2.76		05/13/10 10:41	1634-04-4	
Naphthalene	**7.6**	ug/m3	7.5	2.76		05/13/10 10:41	91-20-3	SS
2-Propanol	ND	ug/m3	6.9	2.76		05/13/10 10:41	67-63-0	
Propylene	ND	ug/m3	0.97	2.76		05/13/10 10:41	115-07-1	
Styrene	ND	ug/m3	2.4	2.76		05/13/10 10:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.9	2.76		05/13/10 10:41	79-34-5	
Tetrachloroethene	ND	ug/m3	3.9	2.76		05/13/10 10:41	127-18-4	

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ANALYTICAL RESULTS

Project: 4975-2
Pace Project No.: 10128667

Sample: OIGM0511AIR002 **Lab ID: 10128667002** Collected: 05/11/10 15:34 Received: 05/12/10 16:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Tetrahydrofuran	ND	ug/m3	1.7	2.76		05/13/10 10:41	109-99-9	
THC as Gas	**138000**	ug/m3	2400	27.6		05/13/10 13:41		
Toluene	**1270**	ug/m3	21.3	27.6		05/13/10 13:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2.7	2.76		05/13/10 10:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.0	2.76		05/13/10 10:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	3.0	2.76		05/13/10 10:41	79-00-5	
Trichloroethene	ND	ug/m3	3.0	2.76		05/13/10 10:41	79-01-6	
Trichlorofluoromethane	**4.7**	ug/m3	3.0	2.76		05/13/10 10:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4.4	2.76		05/13/10 10:41	76-13-1	
1,2,4-Trimethylbenzene	**923**	ug/m3	69.0	27.6		05/13/10 13:41	95-63-6	
1,3,5-Trimethylbenzene	**227**	ug/m3	6.9	2.76		05/13/10 10:41	108-67-8	
Vinyl acetate	ND	ug/m3	2.0	2.76		05/13/10 10:41	108-05-4	
Vinyl chloride	ND	ug/m3	1.4	2.76		05/13/10 10:41	75-01-4	
m&p-Xylene	**2210**	ug/m3	48.6	27.6		05/13/10 13:41	179601-23-1	
o-Xylene	**703**	ug/m3	24.3	27.6		05/13/10 13:41	95-47-6	

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QUALITY CONTROL DATA

Project: 4975-2
Pace Project No.: 10128667

QC Batch: AIR/10203
Analysis Method: TO-15
QC Batch Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10128667001, 10128667002

METHOD BLANK: 788804
Matrix: Air
Associated Lab Samples: 10128667001, 10128667002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	05/12/10 18:22	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	05/12/10 18:22	
1,1,2-Trichloroethane	ug/m3	ND	1.1	05/12/10 18:22	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	05/12/10 18:22	
1,1-Dichloroethane	ug/m3	ND	0.82	05/12/10 18:22	
1,1-Dichloroethene	ug/m3	ND	0.81	05/12/10 18:22	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	05/12/10 18:22	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	05/12/10 18:22	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	05/12/10 18:22	
1,2-Dichlorobenzene	ug/m3	ND	1.2	05/12/10 18:22	
1,2-Dichloroethane	ug/m3	ND	0.82	05/12/10 18:22	
1,2-Dichloropropane	ug/m3	ND	0.94	05/12/10 18:22	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	05/12/10 18:22	
1,3-Butadiene	ug/m3	ND	0.45	05/12/10 18:22	
1,3-Dichlorobenzene	ug/m3	ND	1.2	05/12/10 18:22	
1,4-Dichlorobenzene	ug/m3	ND	1.2	05/12/10 18:22	
2-Butanone (MEK)	ug/m3	ND	0.60	05/12/10 18:22	
2-Hexanone	ug/m3	ND	0.83	05/12/10 18:22	
2-Propanol	ug/m3	ND	2.5	05/12/10 18:22	
4-Ethyltoluene	ug/m3	ND	2.5	05/12/10 18:22	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	05/12/10 18:22	
Acetone	ug/m3	ND	0.48	05/12/10 18:22	
Benzene	ug/m3	ND	0.65	05/12/10 18:22	
Benzyl chloride	ug/m3	ND	1.0	05/12/10 18:22	
Bromodichloromethane	ug/m3	ND	1.4	05/12/10 18:22	
Bromoform	ug/m3	ND	2.1	05/12/10 18:22	
Bromomethane	ug/m3	ND	0.79	05/12/10 18:22	
Carbon disulfide	ug/m3	ND	0.63	05/12/10 18:22	
Carbon tetrachloride	ug/m3	ND	1.3	05/12/10 18:22	
Chlorobenzene	ug/m3	ND	0.94	05/12/10 18:22	
Chloroethane	ug/m3	ND	0.54	05/12/10 18:22	
Chloroform	ug/m3	ND	0.99	05/12/10 18:22	
Chloromethane	ug/m3	ND	0.42	05/12/10 18:22	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	05/12/10 18:22	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	05/12/10 18:22	
Cyclohexane	ug/m3	ND	0.68	05/12/10 18:22	
Dibromochloromethane	ug/m3	ND	1.7	05/12/10 18:22	
Dichlorodifluoromethane	ug/m3	ND	1.0	05/12/10 18:22	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	05/12/10 18:22	
Ethanol	ug/m3	ND	1.9	05/12/10 18:22	
Ethyl acetate	ug/m3	ND	0.73	05/12/10 18:22	
Ethylbenzene	ug/m3	ND	0.88	05/12/10 18:22	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	05/12/10 18:22	

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QUALITY CONTROL DATA

Project: 4975-2
Pace Project No.: 10128667

METHOD BLANK: 788804 Matrix: Air

Associated Lab Samples: 10128667001, 10128667002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	05/12/10 18:22	
Methyl-tert-butyl ether	ug/m3	ND	0.73	05/12/10 18:22	
Methylene Chloride	ug/m3	ND	0.71	05/12/10 18:22	
n-Heptane	ug/m3	ND	0.83	05/12/10 18:22	
n-Hexane	ug/m3	ND	0.72	05/12/10 18:22	
Naphthalene	ug/m3	ND	2.7	05/12/10 18:22	
o-Xylene	ug/m3	ND	0.88	05/12/10 18:22	
Propylene	ug/m3	ND	0.35	05/12/10 18:22	
Styrene	ug/m3	ND	0.87	05/12/10 18:22	
Tetrachloroethene	ug/m3	ND	1.4	05/12/10 18:22	
Tetrahydrofuran	ug/m3	ND	0.60	05/12/10 18:22	
THC as Gas	ug/m3	ND	86.8	05/12/10 18:22	
Toluene	ug/m3	ND	0.77	05/12/10 18:22	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	05/12/10 18:22	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	05/12/10 18:22	
Trichloroethene	ug/m3	ND	1.1	05/12/10 18:22	
Trichlorofluoromethane	ug/m3	ND	1.1	05/12/10 18:22	
Vinyl acetate	ug/m3	ND	0.71	05/12/10 18:22	
Vinyl chloride	ug/m3	ND	0.52	05/12/10 18:22	

LABORATORY CONTROL SAMPLE: 788805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.0	103	55-127	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	81.2	116	58-128	
1,1,2-Trichloroethane	ug/m3	55.5	57.8	104	58-126	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	79.1	102	49-134	
1,1-Dichloroethane	ug/m3	41.2	41.1	100	52-129	
1,1-Dichloroethene	ug/m3	40.3	42.3	105	50-130	
1,2,4-Trichlorobenzene	ug/m3	75.5	86.7	115	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	64.4	129	53-144	
1,2-Dibromoethane (EDB)	ug/m3	78.1	90.1	115	57-137	
1,2-Dichlorobenzene	ug/m3	61.2	66.0	108	65-140	
1,2-Dichloroethane	ug/m3	41.2	42.0	102	54-125	
1,2-Dichloropropane	ug/m3	47	49.2	105	60-125	
1,3,5-Trimethylbenzene	ug/m3	50	61.6	123	54-139	
1,3-Butadiene	ug/m3	22.5	22.3	99	54-125	
1,3-Dichlorobenzene	ug/m3	61.2	85.1	139	62-140	
1,4-Dichlorobenzene	ug/m3	61.2	76.0	124	61-139	
2-Butanone (MEK)	ug/m3	30	31.3	104	47-138	
2-Hexanone	ug/m3	41.7	48.5	116	40-143	
2-Propanol	ug/m3	23.8	25.2	106	45-149	
4-Ethyltoluene	ug/m3	50	64.7	129	57-139	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	43.7	105	54-132	
Acetone	ug/m3	24.2	21.3	88	44-147	

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QUALITY CONTROL DATA

Project: 4975-2
Pace Project No.: 10128667

LABORATORY CONTROL SAMPLE: 788805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	34.7	107	60-125	
Benzyl chloride	ug/m3	52.5	67.7	129	70-130	
Bromodichloromethane	ug/m3	68.2	72.1	106	53-130	
Bromoform	ug/m3	105	133	127	55-125	L3
Bromomethane	ug/m3	39.5	36.9	93	53-132	
Carbon disulfide	ug/m3	31.7	31.6	100	57-150	
Carbon tetrachloride	ug/m3	64	68.9	108	53-125	
Chlorobenzene	ug/m3	46.8	51.6	110	50-136	
Chloroethane	ug/m3	26.8	26.1	97	55-130	
Chloroform	ug/m3	49.7	50.3	101	56-125	
Chloromethane	ug/m3	21	24.5	117	49-127	
cis-1,2-Dichloroethene	ug/m3	40.3	41.2	102	58-127	
cis-1,3-Dichloropropene	ug/m3	46.2	50.6	110	62-135	
Cyclohexane	ug/m3	35	38.7	110	56-135	
Dibromochloromethane	ug/m3	86.6	101	117	48-132	
Dichlorodifluoromethane	ug/m3	50.3	51.2	102	54-130	
Dichlorotetrafluoroethane	ug/m3	71.1	71.9	101	50-125	
Ethanol	ug/m3	19.2	19.3	100	30-150	
Ethyl acetate	ug/m3	36.6	37.7	103	70-141	
Ethylbenzene	ug/m3	44.2	51.9	118	57-135	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	30-150	
m&p-Xylene	ug/m3	88.3	111	125	61-135	
Methyl-tert-butyl ether	ug/m3	36.7	37.2	101	56-130	
Methylene Chloride	ug/m3	35.3	31.0	88	49-127	
n-Heptane	ug/m3	41.7	43.8	105	57-133	
n-Hexane	ug/m3	35.8	37.2	104	55-135	
Naphthalene	ug/m3	53.3	63.4	119	30-150	
o-Xylene	ug/m3	44.2	52.1	118	60-134	
Propylene	ug/m3	17.5	17.2	98	63-147	
Styrene	ug/m3	43.3	57.8	134	58-142	
Tetrachloroethene	ug/m3	69	93.4	135	61-132	L1
Tetrahydrofuran	ug/m3	30	31.6	105	67-134	
THC as Gas	ug/m3	3030	2920	97	70-130	
Toluene	ug/m3	38.3	43.5	113	56-132	
trans-1,2-Dichloroethene	ug/m3	40.3	38.5	95	52-131	
trans-1,3-Dichloropropene	ug/m3	46.2	52.4	114	62-131	
Trichloroethene	ug/m3	54.6	55.7	102	68-150	
Trichlorofluoromethane	ug/m3	57.1	55.3	97	52-142	
Vinyl acetate	ug/m3	35.8	39.3	110	53-136	
Vinyl chloride	ug/m3	26	24.0	92	57-132	

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QUALIFIERS

Project: 4975-2
Pace Project No.: 10128667

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-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
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.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 4975-2
Pace Project No.: 10128667

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10128667001	**OIGM0511AIR001**	TO-15	AIR/10203		
10128667002	**OIGM0511AIR002**	TO-15	AIR/10203		

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