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Indianapolis, IN 46268
(317)228-3100

April 28, 2014

Mr. Matthew Bono
Mundell & Associates
110 South Downey Avenue
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5096084

Dear Mr. Bono:
Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2014. 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,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5096084

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky UST Certification #: 0042
Louisiana/NELAP Certification #: 04076
Ohio VAP Certification #: CL-0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5096084

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5096084001	**MMW-21D (4-6)**	Solid	04/10/14 08:31	04/11/14 14:25
5096084002	**MMW-P-22-LA (4-6)**	Solid	04/10/14 17:43	04/11/14 14:25
5096084003	**Trip Blank**	Solid	04/10/14 08:00	04/11/14 14:25

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5096084

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5096084001	**MMW-21D (4-6)**	EPA 8260	BJG, JLZ	73	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
5096084002	**MMW-P-22-LA (4-6)**	EPA 8260	BJG, JLZ	73	PASI-I
		ASTM D2974-87	ZM	1	PASI-I
5096084003	**Trip Blank**	EPA 8260	BJG	73	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: MMW-21D (4-6) **Lab ID: 5096084001** Collected: 04/10/14 08:31 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	106	1		04/24/14 21:57	67-64-1	
Acrolein	ND	ug/kg	106	1		04/24/14 21:57	107-02-8	
Acrylonitrile	ND	ug/kg	106	1		04/24/14 21:57	107-13-1	
Benzene	ND	ug/kg	5.3	1		04/24/14 21:57	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		04/24/14 21:57	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		04/24/14 21:57	75-27-4	
Bromoform	ND	ug/kg	5.3	1		04/24/14 21:57	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		04/24/14 21:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.4	1		04/24/14 21:57	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	98-06-6	
Carbon disulfide	ND	ug/kg	10.6	1		04/24/14 21:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		04/24/14 21:57	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	75-00-3	
Chloroform	ND	ug/kg	5.3	1		04/24/14 21:57	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		04/24/14 21:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		04/24/14 21:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		04/24/14 21:57	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		04/24/14 21:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		04/24/14 21:57	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		04/24/14 21:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	106	1		04/24/14 21:57	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		04/24/14 21:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		04/24/14 21:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		04/24/14 21:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		04/24/14 21:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		04/24/14 21:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		04/24/14 21:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		04/24/14 21:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		04/24/14 21:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		04/24/14 21:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		04/24/14 21:57	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	100-41-4	
Ethyl methacrylate	ND	ug/kg	106	1		04/24/14 21:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		04/24/14 21:57	87-68-3	
n-Hexane	ND	ug/kg	5.3	1		04/24/14 21:57	110-54-3	N2
2-Hexanone	ND	ug/kg	106	1		04/24/14 21:57	591-78-6	
Iodomethane	ND	ug/kg	106	1		04/24/14 21:57	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: MMW-21D (4-6) **Lab ID: 5096084001** Collected: 04/10/14 08:31 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		04/24/14 21:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		04/24/14 21:57	99-87-6	
Methylene Chloride	ND	ug/kg	21.1	1		04/24/14 21:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.4	1		04/24/14 21:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		04/24/14 21:57	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		04/24/14 21:57	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	103-65-1	
Styrene	ND	ug/kg	5.3	1		04/24/14 21:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	79-34-5	
Tetrachloroethene	**0.16**	ug/kg	0.053	100		04/25/14 13:32	127-18-4	H5
Toluene	ND	ug/kg	5.3	1		04/24/14 21:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		04/24/14 21:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		04/24/14 21:57	79-00-5	
Trichloroethene	**5.4**	ug/kg	5.3	1		04/24/14 21:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		04/24/14 21:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		04/24/14 21:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		04/24/14 21:57	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		04/24/14 21:57	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		04/24/14 21:57	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		04/24/14 21:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	85-118	1		04/24/14 21:57	1868-53-7	
Toluene-d8 (S)	102	%.	71-128	1		04/24/14 21:57	2037-26-5	
4-Bromofluorobenzene (S)	90	%.	56-144	1		04/24/14 21:57	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.5**	%	0.10	1		04/14/14 14:36		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: MMW-P-22-LA (4-6) **Lab ID: 5096084002** Collected: 04/10/14 17:43 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.5	1		04/24/14 20:18	67-64-1	
Acrolein	ND	ug/kg	80.5	1		04/24/14 20:18	107-02-8	
Acrylonitrile	ND	ug/kg	80.5	1		04/24/14 20:18	107-13-1	
Benzene	ND	ug/kg	4.0	1		04/24/14 20:18	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		04/24/14 20:18	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		04/24/14 20:18	75-27-4	
Bromoform	ND	ug/kg	4.0	1		04/24/14 20:18	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		04/24/14 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.1	1		04/24/14 20:18	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	98-06-6	
Carbon disulfide	ND	ug/kg	8.0	1		04/24/14 20:18	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		04/24/14 20:18	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	75-00-3	
Chloroform	ND	ug/kg	4.0	1		04/24/14 20:18	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		04/24/14 20:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		04/24/14 20:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		04/24/14 20:18	106-43-4	
Dibromochloromethane	ND	ug/kg	4.0	1		04/24/14 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		04/24/14 20:18	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		04/24/14 20:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	80.5	1		04/24/14 20:18	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		04/24/14 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		04/24/14 20:18	75-35-4	
cis-1,2-Dichloroethene	**234**	ug/kg	203	50		04/25/14 14:05	156-59-2	H5
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		04/24/14 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		04/24/14 20:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		04/24/14 20:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		04/24/14 20:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		04/24/14 20:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		04/24/14 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		04/24/14 20:18	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	100-41-4	
Ethyl methacrylate	ND	ug/kg	80.5	1		04/24/14 20:18	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		04/24/14 20:18	87-68-3	
n-Hexane	ND	ug/kg	4.0	1		04/24/14 20:18	110-54-3	N2
2-Hexanone	ND	ug/kg	80.5	1		04/24/14 20:18	591-78-6	
Iodomethane	ND	ug/kg	80.5	1		04/24/14 20:18	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: MMW-P-22-LA (4-6) **Lab ID: 5096084002** Collected: 04/10/14 17:43 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		04/24/14 20:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		04/24/14 20:18	99-87-6	
Methylene Chloride	ND	ug/kg	16.1	1		04/24/14 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.1	1		04/24/14 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		04/24/14 20:18	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		04/24/14 20:18	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	103-65-1	
Styrene	ND	ug/kg	4.0	1		04/24/14 20:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	79-34-5	
Tetrachloroethene	**62.6**	ug/kg	4.0	1		04/24/14 20:18	127-18-4	
Toluene	ND	ug/kg	4.0	1		04/24/14 20:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		04/24/14 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		04/24/14 20:18	79-00-5	
Trichloroethene	**46.1**	ug/kg	4.0	1		04/24/14 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		04/24/14 20:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		04/24/14 20:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		04/24/14 20:18	108-67-8	
Vinyl acetate	ND	ug/kg	80.5	1		04/24/14 20:18	108-05-4	
Vinyl chloride	**28.1**	ug/kg	4.0	1		04/24/14 20:18	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		04/24/14 20:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	120	%.	85-118	1		04/24/14 20:18	1868-53-7	S5
Toluene-d8 (S)	97	%.	71-128	1		04/24/14 20:18	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	56-144	1		04/24/14 20:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.8**	%	0.10	1		04/14/14 14:37		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: Trip Blank **Lab ID: 5096084003** Collected: 04/10/14 08:00 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	100	1		04/24/14 20:58	67-64-1	
Acrolein	ND	ug/kg	100	1		04/24/14 20:58	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		04/24/14 20:58	107-13-1	
Benzene	ND	ug/kg	5.0	1		04/24/14 20:58	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		04/24/14 20:58	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		04/24/14 20:58	75-27-4	
Bromoform	ND	ug/kg	5.0	1		04/24/14 20:58	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		04/24/14 20:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		04/24/14 20:58	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		04/24/14 20:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		04/24/14 20:58	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	75-00-3	
Chloroform	ND	ug/kg	5.0	1		04/24/14 20:58	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		04/24/14 20:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		04/24/14 20:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		04/24/14 20:58	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		04/24/14 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		04/24/14 20:58	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		04/24/14 20:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		04/24/14 20:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		04/24/14 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		04/24/14 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		04/24/14 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		04/24/14 20:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		04/24/14 20:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		04/24/14 20:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		04/24/14 20:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		04/24/14 20:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		04/24/14 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		04/24/14 20:58	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		04/24/14 20:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		04/24/14 20:58	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		04/24/14 20:58	110-54-3	N2
2-Hexanone	ND	ug/kg	100	1		04/24/14 20:58	591-78-6	
Iodomethane	ND	ug/kg	100	1		04/24/14 20:58	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5096084

Sample: Trip Blank **Lab ID: 5096084003** Collected: 04/10/14 08:00 Received: 04/11/14 14:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		04/24/14 20:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		04/24/14 20:58	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		04/24/14 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		04/24/14 20:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		04/24/14 20:58	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		04/24/14 20:58	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	103-65-1	
Styrene	ND	ug/kg	5.0	1		04/24/14 20:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		04/24/14 20:58	127-18-4	
Toluene	ND	ug/kg	5.0	1		04/24/14 20:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		04/24/14 20:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		04/24/14 20:58	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		04/24/14 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		04/24/14 20:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		04/24/14 20:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		04/24/14 20:58	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		04/24/14 20:58	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		04/24/14 20:58	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		04/24/14 20:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	125	%.	85-118	1		04/24/14 20:58	1868-53-7	S3
Toluene-d8 (S)	96	%.	71-128	1		04/24/14 20:58	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	56-144	1		04/24/14 20:58	460-00-4	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

QC Batch: MSV/63993 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5096084002, 5096084003

METHOD BLANK: 1083735 Matrix: Solid
Associated Lab Samples: 5096084002, 5096084003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,1-Dichloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,1-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:00	
1,1-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:00	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/24/14 17:00	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/24/14 17:00	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,2-Dichloroethane	ug/kg	ND	5.0	04/24/14 17:00	
1,2-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:00	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
1,3-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:00	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
2,2-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:00	
2-Butanone (MEK)	ug/kg	ND	25.0	04/24/14 17:00	
2-Chlorotoluene	ug/kg	ND	5.0	04/24/14 17:00	
2-Hexanone	ug/kg	ND	100	04/24/14 17:00	
4-Chlorotoluene	ug/kg	ND	5.0	04/24/14 17:00	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/24/14 17:00	
Acetone	ug/kg	ND	100	04/24/14 17:00	
Acrolein	ug/kg	ND	100	04/24/14 17:00	
Acrylonitrile	ug/kg	ND	100	04/24/14 17:00	
Benzene	ug/kg	ND	5.0	04/24/14 17:00	
Bromobenzene	ug/kg	ND	5.0	04/24/14 17:00	
Bromochloromethane	ug/kg	ND	5.0	04/24/14 17:00	
Bromodichloromethane	ug/kg	ND	5.0	04/24/14 17:00	
Bromoform	ug/kg	ND	5.0	04/24/14 17:00	
Bromomethane	ug/kg	ND	5.0	04/24/14 17:00	
Carbon disulfide	ug/kg	ND	10.0	04/24/14 17:00	
Carbon tetrachloride	ug/kg	ND	5.0	04/24/14 17:00	
Chlorobenzene	ug/kg	ND	5.0	04/24/14 17:00	
Chloroethane	ug/kg	ND	5.0	04/24/14 17:00	
Chloroform	ug/kg	ND	5.0	04/24/14 17:00	
Chloromethane	ug/kg	ND	5.0	04/24/14 17:00	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:00	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:00	
Dibromochloromethane	ug/kg	ND	5.0	04/24/14 17:00	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

METHOD BLANK: 1083735 Matrix: Solid
Associated Lab Samples: 5096084002, 5096084003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/24/14 17:00	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/24/14 17:00	
Ethyl methacrylate	ug/kg	ND	100	04/24/14 17:00	
Ethylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/24/14 17:00	
Iodomethane	ug/kg	ND	100	04/24/14 17:00	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/24/14 17:00	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/24/14 17:00	
Methylene Chloride	ug/kg	ND	20.0	04/24/14 17:00	
n-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
n-Hexane	ug/kg	ND	5.0	04/24/14 17:00	N2
n-Propylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
Naphthalene	ug/kg	ND	5.0	04/24/14 17:00	
p-Isopropyltoluene	ug/kg	ND	5.0	04/24/14 17:00	
sec-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
Styrene	ug/kg	ND	5.0	04/24/14 17:00	
tert-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:00	
Tetrachloroethene	ug/kg	ND	5.0	04/24/14 17:00	
Toluene	ug/kg	ND	5.0	04/24/14 17:00	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:00	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:00	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/24/14 17:00	
Trichloroethene	ug/kg	ND	5.0	04/24/14 17:00	
Trichlorofluoromethane	ug/kg	ND	5.0	04/24/14 17:00	
Vinyl acetate	ug/kg	ND	100	04/24/14 17:00	
Vinyl chloride	ug/kg	ND	5.0	04/24/14 17:00	
Xylene (Total)	ug/kg	ND	10.0	04/24/14 17:00	
4-Bromofluorobenzene (S)	%.	112	56-144	04/24/14 17:00	
Dibromofluoromethane (S)	%.	115	85-118	04/24/14 17:00	
Toluene-d8 (S)	%.	97	71-128	04/24/14 17:00	

LABORATORY CONTROL SAMPLE: 1083736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	51.2	102	62-123	
1,1,1-Trichloroethane	ug/kg	50	54.5	109	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.3	101	65-124	
1,1,2-Trichloroethane	ug/kg	50	50.7	101	74-129	
1,1-Dichloroethane	ug/kg	50	60.0	120	73-130	
1,1-Dichloroethene	ug/kg	50	50.8	102	66-126	
1,1-Dichloropropene	ug/kg	50	53.0	106	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	54.6	109	66-131	
1,2,3-Trichloropropane	ug/kg	50	54.5	109	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	51.5	103	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	51.2	102	67-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

LABORATORY CONTROL SAMPLE: 1083736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	52.3	105	74-120	
1,2-Dichlorobenzene	ug/kg	50	51.9	104	73-122	
1,2-Dichloroethane	ug/kg	50	58.7	117	73-127	
1,2-Dichloropropane	ug/kg	50	52.1	104	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	49.7	99	65-127	
1,3-Dichlorobenzene	ug/kg	50	51.2	102	73-121	
1,3-Dichloropropane	ug/kg	50	50.9	102	72-121	
1,4-Dichlorobenzene	ug/kg	50	52.2	104	75-119	
2,2-Dichloropropane	ug/kg	50	55.5	111	63-122	
2-Butanone (MEK)	ug/kg	250	278	111	59-139	
2-Chlorotoluene	ug/kg	50	47.1	94	72-121	
2-Hexanone	ug/kg	250	275	110	56-139	
4-Chlorotoluene	ug/kg	50	51.2	102	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	275	110	63-136	
Acetone	ug/kg	250	298	119	46-156	
Acrolein	ug/kg	1000	1450	145	47-200	
Acrylonitrile	ug/kg	1000	994	99	67-130	
Benzene	ug/kg	50	54.0	108	74-119	
Bromobenzene	ug/kg	50	46.4	93	69-129	
Bromochloromethane	ug/kg	50	50.8	102	67-129	
Bromodichloromethane	ug/kg	50	55.1	110	68-121	
Bromoform	ug/kg	50	52.8	106	49-124	
Bromomethane	ug/kg	50	46.2	92	44-142	
Carbon disulfide	ug/kg	100	102	102	61-129	
Carbon tetrachloride	ug/kg	50	55.0	110	58-127	
Chlorobenzene	ug/kg	50	52.0	104	77-122	
Chloroethane	ug/kg	50	63.1	126	59-141	
Chloroform	ug/kg	50	57.1	114	75-124	
Chloromethane	ug/kg	50	58.4	117	46-133	
cis-1,2-Dichloroethene	ug/kg	50	58.4	117	72-122	
cis-1,3-Dichloropropene	ug/kg	50	49.5	99	68-115	
Dibromochloromethane	ug/kg	50	48.1	96	60-121	
Dibromomethane	ug/kg	50	52.6	105	72-124	
Dichlorodifluoromethane	ug/kg	50	62.1	124	26-186	
Ethyl methacrylate	ug/kg	200	237	118	63-130	
Ethylbenzene	ug/kg	50	51.4	103	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	55.7	111	55-139	
Iodomethane	ug/kg	100	86.6J	87	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	52.3	105	65-123	
Methyl-tert-butyl ether	ug/kg	100	108	108	68-120	
Methylene Chloride	ug/kg	50	41.7	83	57-142	
n-Butylbenzene	ug/kg	50	49.1	98	68-125	
n-Hexane	ug/kg	50	44.5	89	57-117	N2
n-Propylbenzene	ug/kg	50	52.1	104	68-122	
Naphthalene	ug/kg	50	54.2	108	67-131	
p-Isopropyltoluene	ug/kg	50	51.1	102	66-133	
sec-Butylbenzene	ug/kg	50	52.0	104	64-131	
Styrene	ug/kg	50	52.0	104	70-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

LABORATORY CONTROL SAMPLE: 1083736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	50.4	101	46-124	
Tetrachloroethene	ug/kg	50	53.8	108	72-126	
Toluene	ug/kg	50	56.6	113	71-121	
trans-1,2-Dichloroethene	ug/kg	50	51.8	104	69-123	
trans-1,3-Dichloropropene	ug/kg	50	50.1	100	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	258	129	61-124	L3
Trichloroethene	ug/kg	50	54.7	109	74-123	
Trichlorofluoromethane	ug/kg	50	70.8	142	72-146	
Vinyl acetate	ug/kg	200	284	142	57-131	L3
Vinyl chloride	ug/kg	50	58.7	117	55-128	
Xylene (Total)	ug/kg	150	157	105	66-124	
4-Bromofluorobenzene (S)	%.			105	56-144	
Dibromofluoromethane (S)	%.			101	85-118	
Toluene-d8 (S)	%.			103	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1083737 1083738

Parameter	Units	5096060018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	48	46.2	58.0	57.8	121	125	10-129	0	20	
1,1,1-Trichloroethane	ug/kg	ND	48	46.2	59.7	58.1	124	126	26-143	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	48	46.2	62.6	60.9	130	132	10-156	3	20	
1,1,2-Trichloroethane	ug/kg	ND	48	46.2	56.0	52.2	117	113	13-156	7	20	
1,1-Dichloroethane	ug/kg	ND	48	46.2	64.1	54.0	133	117	36-150	17	20	
1,1-Dichloroethene	ug/kg	ND	48	46.2	54.4	55.3	113	120	31-146	2	20	
1,1-Dichloropropene	ug/kg	ND	48	46.2	56.7	55.9	118	121	26-145	2	20	
1,2,3-Trichlorobenzene	ug/kg	ND	48	46.2	39.8	40.4	83	87	10-119	1	20	
1,2,3-Trichloropropane	ug/kg	ND	48	46.2	69.4	66.6	145	144	10-168	4	20	
1,2,4-Trichlorobenzene	ug/kg	ND	48	46.2	41.9	41.2	87	89	10-122	2	20	
1,2,4-Trimethylbenzene	ug/kg	ND	48	46.2	62.9	72.6	131	157	10-139	14	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	48	46.2	52.1	46.9	109	101	15-136	10	20	
1,2-Dichlorobenzene	ug/kg	ND	48	46.2	53.5	57.7	112	125	10-132	7	20	
1,2-Dichloroethane	ug/kg	ND	48	46.2	59.0	56.4	123	122	30-140	4	20	
1,2-Dichloropropane	ug/kg	ND	48	46.2	54.6	53.1	114	115	29-135	3	20	
1,3,5-Trimethylbenzene	ug/kg	ND	48	46.2	64.9	74.3	135	161	10-143	13	20	
1,3-Dichlorobenzene	ug/kg	ND	48	46.2	55.8	60.0	116	130	10-130	7	20	
1,3-Dichloropropane	ug/kg	ND	48	46.2	54.5	48.8	114	106	17-139	11	20	
1,4-Dichlorobenzene	ug/kg	ND	48	46.2	53.7	55.8	112	121	10-128	4	20	
2,2-Dichloropropane	ug/kg	ND	48	46.2	59.5	57.9	124	125	29-136	3	20	
2-Butanone (MEK)	ug/kg	ND	240	232	294	261	122	113	22-176	12	20	
2-Chlorotoluene	ug/kg	ND	48	46.2	57.4	63.3	120	137	10-146	10	20	
2-Hexanone	ug/kg	ND	240	232	304	264	127	114	12-165	14	20	
4-Chlorotoluene	ug/kg	ND	48	46.2	59.8	66.0	125	143	10-138	10	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	240	232	319	286	133	124	22-155	11	20	
Acetone	ug/kg	ND	240	232	389	318	162	138	11-200	20	20	
Acrolein	ug/kg	ND	960	924	1350	1250	140	135	10-200	7	20	
Acrylonitrile	ug/kg	ND	960	924	1050	970	109	105	20-150	7	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1083737 1083738

Parameter	Units	5096060018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	48	46.2	55.7	55.4	116	120	27-140	1	20	
Bromobenzene	ug/kg	ND	48	46.2	44.3	42.2	92	91	10-133	5	20	
Bromochloromethane	ug/kg	ND	48	46.2	53.2	50.6	111	110	28-142	5	20	
Bromodichloromethane	ug/kg	ND	48	46.2	55.5	55.5	116	120	13-139	0	20	
Bromoform	ug/kg	ND	48	46.2	62.2	62.3	130	135	10-122	0	20	M0
Bromomethane	ug/kg	ND	48	46.2	51.8	52.3	108	113	10-154	1	20	
Carbon disulfide	ug/kg	ND	96	92.4	104	103	109	112	20-142	1	20	
Carbon tetrachloride	ug/kg	ND	48	46.2	58.2	57.3	121	124	19-135	2	20	
Chlorobenzene	ug/kg	ND	48	46.2	53.7	52.3	112	113	10-136	2	20	
Chloroethane	ug/kg	ND	48	46.2	65.2	64.2	136	139	24-161	2	20	
Chloroform	ug/kg	ND	48	46.2	59.1	58.5	123	127	36-138	1	20	
Chloromethane	ug/kg	ND	48	46.2	60.3	58.1	126	126	28-143	4	20	
cis-1,2-Dichloroethene	ug/kg	ND	48	46.2	59.5	56.0	124	121	29-136	6	20	
cis-1,3-Dichloropropene	ug/kg	ND	48	46.2	52.8	48.4	110	105	10-130	9	20	
Dibromochloromethane	ug/kg	ND	48	46.2	52.9	49.1	110	106	10-124	7	20	
Dibromomethane	ug/kg	ND	48	46.2	52.2	47.8	109	103	24-136	9	20	
Dichlorodifluoromethane	ug/kg	ND	48	46.2	66.4	62.9	138	136	15-187	5	20	
Ethyl methacrylate	ug/kg	ND	192	185	225	210	117	113	10-147	7	20	
Ethylbenzene	ug/kg	ND	48	46.2	56.7	58.1	118	126	10-144	2	20	
Hexachloro-1,3-butadiene	ug/kg	ND	48	46.2	65.0	82.6	135	179	10-136	24	20	
Iodomethane	ug/kg	ND	96	92.4	86.8J	91.1J	90	99	10-155		20	
Isopropylbenzene (Cumene)	ug/kg	ND	48	46.2	58.1	60.9	121	132	10-134	5	20	
Methyl-tert-butyl ether	ug/kg	ND	96	92.4	113	109	117	118	30-147	3	20	
Methylene Chloride	ug/kg	ND	48	46.2	42.3	43.1	88	93	23-150	2	20	
n-Butylbenzene	ug/kg	ND	48	46.2	60.6	72.4	126	157	10-141	18	20	
n-Hexane	ug/kg	ND	48	46.2	54.3	51.5	113	111	10-140	5	20	N2
n-Propylbenzene	ug/kg	ND	48	46.2	67.3	77.5	140	168	10-143	14	20	
Naphthalene	ug/kg	ND	48	46.2	36.4	33.3	76	72	10-130	9	20	
p-Isopropyltoluene	ug/kg	ND	48	46.2	63.8	74.7	133	162	10-146	16	20	
sec-Butylbenzene	ug/kg	ND	48	46.2	67.0	79.6	140	172	10-150	17	20	
Styrene	ug/kg	ND	48	46.2	51.5	49.4	107	107	10-138	4	20	
tert-Butylbenzene	ug/kg	ND	48	46.2	65.6	74.9	137	162	10-135	13	20	M0
Tetrachloroethene	ug/kg	ND	48	46.2	68.7	71.1	143	154	10-153	3	20	
Toluene	ug/kg	ND	48	46.2	64.8	62.7	135	136	10-140	3	20	
trans-1,2-Dichloroethene	ug/kg	ND	48	46.2	52.9	52.5	110	114	28-139	1	20	
trans-1,3-Dichloropropene	ug/kg	ND	48	46.2	47.7	43.7	99	94	10-126	9	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	192	185	235	201	122	109	10-132	16	20	
Trichloroethene	ug/kg	ND	48	46.2	57.3	57.1	119	124	17-148	0	20	
Trichlorofluoromethane	ug/kg	ND	48	46.2	76.8	76.2	160	165	31-177	1	20	
Vinyl acetate	ug/kg	ND	192	185	ND	114	23	61	10-131		20	
Vinyl chloride	ug/kg	ND	48	46.2	61.7	59.8	129	129	30-145	3	20	
Xylene (Total)	ug/kg	ND	144	139	173	175	120	126	10-143	1	20	
4-Bromofluorobenzene (S)	%.						100	96	56-144			
Dibromofluoromethane (S)	%.						102	104	85-118			1d
Toluene-d8 (S)	%.						114	115	71-128			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

QC Batch: MSV/64004
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5096084001

METHOD BLANK: 1083809
Matrix: Solid
Associated Lab Samples: 5096084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,1-Dichloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,1-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:20	
1,1-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:20	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/24/14 17:20	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/24/14 17:20	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,2-Dichloroethane	ug/kg	ND	5.0	04/24/14 17:20	
1,2-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:20	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
1,3-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:20	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
2,2-Dichloropropane	ug/kg	ND	5.0	04/24/14 17:20	
2-Butanone (MEK)	ug/kg	ND	25.0	04/24/14 17:20	
2-Chlorotoluene	ug/kg	ND	5.0	04/24/14 17:20	
2-Hexanone	ug/kg	ND	100	04/24/14 17:20	
4-Chlorotoluene	ug/kg	ND	5.0	04/24/14 17:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/24/14 17:20	
Acetone	ug/kg	ND	100	04/24/14 17:20	
Acrolein	ug/kg	ND	100	04/24/14 17:20	
Acrylonitrile	ug/kg	ND	100	04/24/14 17:20	
Benzene	ug/kg	ND	5.0	04/24/14 17:20	
Bromobenzene	ug/kg	ND	5.0	04/24/14 17:20	
Bromochloromethane	ug/kg	ND	5.0	04/24/14 17:20	
Bromodichloromethane	ug/kg	ND	5.0	04/24/14 17:20	
Bromoform	ug/kg	ND	5.0	04/24/14 17:20	
Bromomethane	ug/kg	ND	5.0	04/24/14 17:20	
Carbon disulfide	ug/kg	ND	10.0	04/24/14 17:20	
Carbon tetrachloride	ug/kg	ND	5.0	04/24/14 17:20	
Chlorobenzene	ug/kg	ND	5.0	04/24/14 17:20	
Chloroethane	ug/kg	ND	5.0	04/24/14 17:20	
Chloroform	ug/kg	ND	5.0	04/24/14 17:20	
Chloromethane	ug/kg	ND	5.0	04/24/14 17:20	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:20	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:20	
Dibromochloromethane	ug/kg	ND	5.0	04/24/14 17:20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

METHOD BLANK: 1083809 Matrix: Solid
Associated Lab Samples: 5096084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/24/14 17:20	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/24/14 17:20	
Ethyl methacrylate	ug/kg	ND	100	04/24/14 17:20	
Ethylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/24/14 17:20	
Iodomethane	ug/kg	ND	100	04/24/14 17:20	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/24/14 17:20	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/24/14 17:20	
Methylene Chloride	ug/kg	ND	20.0	04/24/14 17:20	
n-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
n-Hexane	ug/kg	ND	5.0	04/24/14 17:20	N2
n-Propylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
Naphthalene	ug/kg	ND	5.0	04/24/14 17:20	
p-Isopropyltoluene	ug/kg	ND	5.0	04/24/14 17:20	
sec-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
Styrene	ug/kg	ND	5.0	04/24/14 17:20	
tert-Butylbenzene	ug/kg	ND	5.0	04/24/14 17:20	
Tetrachloroethene	ug/kg	ND	5.0	04/24/14 17:20	
Toluene	ug/kg	ND	5.0	04/24/14 17:20	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/24/14 17:20	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/24/14 17:20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/24/14 17:20	
Trichloroethene	ug/kg	ND	5.0	04/24/14 17:20	
Trichlorofluoromethane	ug/kg	ND	5.0	04/24/14 17:20	
Vinyl acetate	ug/kg	ND	100	04/24/14 17:20	
Vinyl chloride	ug/kg	ND	5.0	04/24/14 17:20	
Xylene (Total)	ug/kg	ND	10.0	04/24/14 17:20	
4-Bromofluorobenzene (S)	%.	102	56-144	04/24/14 17:20	
Dibromofluoromethane (S)	%.	112	85-118	04/24/14 17:20	
Toluene-d8 (S)	%.	99	71-128	04/24/14 17:20	

LABORATORY CONTROL SAMPLE: 1083810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	45.6	91	62-123	
1,1,1-Trichloroethane	ug/kg	50	53.2	106	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	44.4	89	65-124	
1,1,2-Trichloroethane	ug/kg	50	45.8	92	74-129	
1,1-Dichloroethane	ug/kg	50	43.8	88	73-130	
1,1-Dichloroethene	ug/kg	50	48.0	96	66-126	
1,1-Dichloropropene	ug/kg	50	52.1	104	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	52.3	105	66-131	
1,2,3-Trichloropropane	ug/kg	50	49.8	100	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	53.2	106	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	45.8	92	67-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

LABORATORY CONTROL SAMPLE: 1083810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.5	101	74-120	
1,2-Dichlorobenzene	ug/kg	50	45.6	91	73-122	
1,2-Dichloroethane	ug/kg	50	55.0	110	73-127	
1,2-Dichloropropane	ug/kg	50	49.9	100	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	44.5	89	65-127	
1,3-Dichlorobenzene	ug/kg	50	45.7	91	73-121	
1,3-Dichloropropane	ug/kg	50	49.3	99	72-121	
1,4-Dichlorobenzene	ug/kg	50	52.0	104	75-119	
2,2-Dichloropropane	ug/kg	50	52.2	104	63-122	
2-Butanone (MEK)	ug/kg	250	262	105	59-139	
2-Chlorotoluene	ug/kg	50	44.3	89	72-121	
2-Hexanone	ug/kg	250	271	108	56-139	
4-Chlorotoluene	ug/kg	50	44.4	89	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	275	110	63-136	
Acetone	ug/kg	250	247	99	46-156	
Acrolein	ug/kg	1000	1290	129	47-200	
Acrylonitrile	ug/kg	1000	829	83	67-130	
Benzene	ug/kg	50	50.6	101	74-119	
Bromobenzene	ug/kg	50	46.5	93	69-129	
Bromochloromethane	ug/kg	50	48.2	96	67-129	
Bromodichloromethane	ug/kg	50	52.2	104	68-121	
Bromoform	ug/kg	50	47.9	96	49-124	
Bromomethane	ug/kg	50	57.5	115	44-142	
Carbon disulfide	ug/kg	100	94.4	94	61-129	
Carbon tetrachloride	ug/kg	50	52.9	106	58-127	
Chlorobenzene	ug/kg	50	45.4	91	77-122	
Chloroethane	ug/kg	50	53.1	106	59-141	
Chloroform	ug/kg	50	52.1	104	75-124	
Chloromethane	ug/kg	50	49.9	100	46-133	
cis-1,2-Dichloroethene	ug/kg	50	49.0	98	72-122	
cis-1,3-Dichloropropene	ug/kg	50	47.9	96	68-115	
Dibromochloromethane	ug/kg	50	45.8	92	60-121	
Dibromomethane	ug/kg	50	50.3	101	72-124	
Dichlorodifluoromethane	ug/kg	50	57.0	114	26-186	
Ethyl methacrylate	ug/kg	200	227	113	63-130	
Ethylbenzene	ug/kg	50	49.7	99	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	46.2	92	55-139	
Iodomethane	ug/kg	100	110	110	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	50.7	101	65-123	
Methyl-tert-butyl ether	ug/kg	100	89.0	89	68-120	
Methylene Chloride	ug/kg	50	42.8	86	57-142	
n-Butylbenzene	ug/kg	50	46.3	93	68-125	
n-Hexane	ug/kg	50	39.3	79	57-117	N2
n-Propylbenzene	ug/kg	50	46.7	93	68-122	
Naphthalene	ug/kg	50	50.8	102	67-131	
p-Isopropyltoluene	ug/kg	50	46.4	93	66-133	
sec-Butylbenzene	ug/kg	50	46.7	93	64-131	
Styrene	ug/kg	50	51.4	103	70-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

LABORATORY CONTROL SAMPLE: 1083810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	46.1	92	46-124	
Tetrachloroethene	ug/kg	50	44.1	88	72-126	
Toluene	ug/kg	50	44.3	89	71-121	
trans-1,2-Dichloroethene	ug/kg	50	46.0	92	69-123	
trans-1,3-Dichloropropene	ug/kg	50	47.8	96	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	218	109	61-124	
Trichloroethene	ug/kg	50	53.2	106	74-123	
Trichlorofluoromethane	ug/kg	50	62.8	126	72-146	
Vinyl acetate	ug/kg	200	194	97	57-131	
Vinyl chloride	ug/kg	50	49.8	100	55-128	
Xylene (Total)	ug/kg	150	153	102	66-124	
4-Bromofluorobenzene (S)	%.			112	56-144	
Dibromofluoromethane (S)	%.			105	85-118	
Toluene-d8 (S)	%.			106	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1083811 1083812

Parameter	Units	5096109008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	37.1	47.6	28.6	38.5	77	81	10-129	30	20	
1,1,1-Trichloroethane	ug/kg	ND	37.1	47.6	40.1	52.1	108	110	26-143	26	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	37.1	47.6	28.4	38.3	76	80	10-156	30	20	
1,1,2-Trichloroethane	ug/kg	ND	37.1	47.6	31.2	39.9	84	84	13-156	25	20	
1,1-Dichloroethane	ug/kg	ND	37.1	47.6	39.0	50.3	105	106	36-150	25	20	
1,1-Dichloroethene	ug/kg	ND	37.1	47.6	39.0	50.2	105	106	31-146	25	20	
1,1-Dichloropropene	ug/kg	ND	37.1	47.6	35.8	47.9	96	100	26-145	29	20	
1,2,3-Trichlorobenzene	ug/kg	ND	37.1	47.6	13.7	18.8	37	40	10-119	31	20	
1,2,3-Trichloropropane	ug/kg	ND	37.1	47.6	32.8	43.6	88	92	10-168	28	20	
1,2,4-Trichlorobenzene	ug/kg	ND	37.1	47.6	12.9	17.2	35	36	10-122	28	20	
1,2,4-Trimethylbenzene	ug/kg	ND	37.1	47.6	15.0	20.7	40	43	10-139	31	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	37.1	47.6	32.2	41.6	87	87	15-136	25	20	
1,2-Dichlorobenzene	ug/kg	ND	37.1	47.6	16.1	23.0	43	48	10-132	35	20	
1,2-Dichloroethane	ug/kg	ND	37.1	47.6	40.9	53.5	110	112	30-140	27	20	
1,2-Dichloropropane	ug/kg	ND	37.1	47.6	36.2	47.8	98	100	29-135	28	20	
1,3,5-Trimethylbenzene	ug/kg	ND	37.1	47.6	15.3	20.8	41	44	10-143	30	20	
1,3-Dichlorobenzene	ug/kg	ND	37.1	47.6	14.7	20.6	40	43	10-130	34	20	
1,3-Dichloropropane	ug/kg	ND	37.1	47.6	32.5	42.3	87	89	17-139	26	20	
1,4-Dichlorobenzene	ug/kg	ND	37.1	47.6	15.0	21.2	40	45	10-128	34	20	
2,2-Dichloropropane	ug/kg	ND	37.1	47.6	41.0	53.3	110	112	29-136	26	20	
2-Butanone (MEK)	ug/kg	ND	186	238	212	272	114	114	22-176	25	20	
2-Chlorotoluene	ug/kg	ND	37.1	47.6	16.2	23.0	44	48	10-146	35	20	
2-Hexanone	ug/kg	ND	186	238	195	252	105	106	12-165	25	20	
4-Chlorotoluene	ug/kg	ND	37.1	47.6	14.8	21.1	40	44	10-138	35	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	186	238	200	254	107	107	22-155	24	20	
Acetone	ug/kg	ND	186	238	209	264	112	111	11-200	23	20	
Acrolein	ug/kg	ND	744	952	692	1020	93	107	10-200	38	20	
Acrylonitrile	ug/kg	ND	744	952	649	870	87	91	20-150	29	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1083811 1083812

Parameter	Units	5096109008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	37.1	47.6	36.0	47.1	97	99	27-140	27	20	
Bromobenzene	ug/kg	ND	37.1	47.6	19.9	27.4	54	58	10-133	32	20	
Bromochloromethane	ug/kg	ND	37.1	47.6	37.8	48.9	102	103	28-142	26	20	
Bromodichloromethane	ug/kg	ND	37.1	47.6	36.1	48.1	97	101	13-139	28	20	
Bromoform	ug/kg	ND	37.1	47.6	27.9	40.6	75	85	10-122	37	20	
Bromomethane	ug/kg	ND	37.1	47.6	44.0	59.8	118	126	10-154	30	20	
Carbon disulfide	ug/kg	ND	74.4	95.2	71.6	93.5	96	98	20-142	26	20	
Carbon tetrachloride	ug/kg	ND	37.1	47.6	38.3	51.8	103	109	19-135	30	20	
Chlorobenzene	ug/kg	ND	37.1	47.6	22.4	31.3	60	66	10-136	33	20	
Chloroethane	ug/kg	ND	37.1	47.6	41.4	53.7	111	113	24-161	26	20	
Chloroform	ug/kg	ND	37.1	47.6	39.8	51.7	107	109	36-138	26	20	
Chloromethane	ug/kg	ND	37.1	47.6	40.6	51.8	109	109	28-143	24	20	
cis-1,3-Dichloropropene	ug/kg	ND	37.1	47.6	27.7	38.7	75	81	10-130	33	20	
Dibromochloromethane	ug/kg	ND	37.1	47.6	28.1	39.0	76	82	10-124	33	20	
Dibromomethane	ug/kg	ND	37.1	47.6	36.7	47.6	99	100	24-136	26	20	
Dichlorodifluoromethane	ug/kg	ND	37.1	47.6	47.4	62.8	128	132	15-187	28	20	
Ethyl methacrylate	ug/kg	ND	148	190	146	192	98	101	10-147	27	20	
Ethylbenzene	ug/kg	ND	37.1	47.6	22.7	31.0	61	65	10-144	31	20	
Hexachloro-1,3-butadiene	ug/kg	ND	37.1	47.6	8.2	10.4	22	22	10-136	23	20	
Iodomethane	ug/kg	ND	74.4	95.2	81.9	112	110	117	10-155	31	20	
Isopropylbenzene (Cumene)	ug/kg	ND	37.1	47.6	20.3	27.1	55	57	10-134	29	20	
Methyl-tert-butyl ether	ug/kg	ND	74.4	95.2	69.9	92.6	94	97	30-147	28	20	
Methylene Chloride	ug/kg	ND	37.1	47.6	35.9	46.0	96	97	23-150	25	20	
n-Butylbenzene	ug/kg	ND	37.1	47.6	9.5	12.5	25	26	10-141	28	20	
n-Hexane	ug/kg	ND	37.1	47.6	32.3	41.2	87	87	10-140	24	20	N2
n-Propylbenzene	ug/kg	ND	37.1	47.6	14.9	20.1	40	42	10-143	30	20	
Naphthalene	ug/kg	ND	37.1	47.6	16.3	23.2	44	49	10-130	35	20	
p-Isopropyltoluene	ug/kg	ND	37.1	47.6	12.1	16.4	33	34	10-146	30	20	
sec-Butylbenzene	ug/kg	ND	37.1	47.6	13.8	18.9	37	40	10-150	31	20	
Styrene	ug/kg	ND	37.1	47.6	22.0	30.7	59	64	10-138	33	20	
tert-Butylbenzene	ug/kg	ND	37.1	47.6	16.1	21.8	43	46	10-135	30	20	
Tetrachloroethene	ug/kg	ND	37.1	47.6	23.3	30.8	63	65	10-153	28	20	
Toluene	ug/kg	ND	37.1	47.6	25.6	34.0	69	71	10-140	28	20	
trans-1,2-Dichloroethene	ug/kg	ND	37.1	47.6	35.3	46.6	90	94	28-139	28	20	
trans-1,3-Dichloropropene	ug/kg	ND	37.1	47.6	26.2	37.4	70	79	10-126	35	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	148	190	118	166	79	87	10-132	34	20	
Trichloroethene	ug/kg	ND	37.1	47.6	34.5	45.8	93	96	17-148	28	20	
Trichlorofluoromethane	ug/kg	ND	37.1	47.6	53.0	68.5	142	144	31-177	26	20	
Vinyl acetate	ug/kg	ND	148	190	110	151	74	79	10-131	31	20	
Vinyl chloride	ug/kg	30.4	37.1	47.6	64.8	76.4	93	97	30-145	16	20	
Xylene (Total)	ug/kg	ND	111	143	67.6	91.2	61	64	10-143	30	20	
4-Bromofluorobenzene (S)	%.						112	111	56-144			
Dibromofluoromethane (S)	%.						108	110	85-118			2d
Toluene-d8 (S)	%.						105	105	71-128			

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5096084

QC Batch: PMST/9345
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5096084001, 5096084002

SAMPLE DUPLICATE: 1078049

Parameter	Units	5096080014 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.4	11.2	2	5	

SAMPLE DUPLICATE: 1078050

Parameter	Units	5096080015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	12.0	2	5	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5096084

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

1d	Multiple compounds are outside acceptance limits due to sample matrix. Refer to LCS for system control and data acceptability. BJG 04-25-14.
2d	Multiple compounds have a RPD greater than the RPD max refer to the LCS for system control. BJG 04-25-14.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
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.
N2	The lab does not hold TNI accreditation for this parameter.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5096084

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5096084001	**MMW-21D (4-6)**	EPA 8260	MSV/64004		
5096084002	**MMW-P-22-LA (4-6)**	EPA 8260	MSV/63993		
5096084003	**Trip Blank**	EPA 8260	MSV/63993		
5096084001	**MMW-21D (4-6)**	ASTM D2974-87	PMST/9345		
5096084002	**MMW-P-22-LA (4-6)**	ASTM D2974-87	PMST/9345		

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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

1712343

Section A Required Client Information:

Company: MUNDELL + ASSOCIATES
Address: 110 S DOUNEY AVE
INDIANAPOLIS, IN 46219
Email To: mbono@mundellassociates.com
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MATT BONO
Copy To: MARK BRENING
Purchase Order No.:
Project Name: MI PLAZA
Project Number: 01046

Section C Invoice Information:

Attention: MERLE TEBBE
Company Name: MUNDELL
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

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

Site Location STATE: IN

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

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: 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-21D (4-6)	SL	G			4/10/14	8:31		4	1						1	2	X		001
2	MMW-P-22-LA (4-6)	SL	G			4/10/14	5:43		4	1						1	2	X		002
3	TRIP BLANK								3							1	2	X		003
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M Bono / MUNDELL	4/11/14	2:25	[illegible]	4/11/14	2:25	2.52	Y	N	Y

W/Pace. 4/11/14 3.00 PM ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MATT BONO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY):

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.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical™ Client Name: Mondell & Assoc Project # 5096084

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no **Seals intact:** ☐ yes ☐ no

Date/Time 5035A kits placed in freezer 4/11/14 3:15 pm

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other TC Trays

Thermometer Used 1 2 3 4 6 A B C D (E) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 2.5°C **Ice Visible in Sample Containers:** ☐ yes ☐ no

Temp should be above freezing to 6°C

Date and initials of person examining contents: 4/11/14 ZT

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	5. TC
Rush Turn Around Time Requested:	☐Yes	☐No	☑N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☐Yes	☑No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: T Sayer **Date:** 4/11/14

Form F-IN-Q-290-rev.05, 10Sep2013

Sample Container Count

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CLIENT: Mundell & Assoc

COC PAGE 1 of 1
COC ID# 1712343

Project # 509684

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SPST	_____	pH <2	pH>12	Comments
1						4															
2						4															
3						3															
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber (	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag