

July 19, 2016

Kirk Wills
Progressive Waste Solutions, Inc.
11457 C. R. 6782
Riverview, FL 33579

RE: Project: JED
Pace Project No.: 35251015

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2016. 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.

Report revised 7/19/16 to correct analyte list per Mike Valder.

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

Sincerely,



Mike Valder
mike.valder@pacelabs.com
Project Manager

Enclosures

cc: Ron Kinney, Progressive Waste Solutions of Florida
Kirk Wills, Progressive Waste Solutions of Florida (CC))



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JED
Pace Project No.: 35251015

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: JED
Pace Project No.: 35251015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35251015001	MW-31A	Water	06/23/16 11:10	06/23/16 16:25
35251015002	MW-31B	Water	06/23/16 12:50	06/23/16 16:25
35251015003	Trip Blank 1	Water	06/23/16 11:10	06/23/16 16:25
35251015004	Trip Blank 2	Water	06/23/16 11:10	06/23/16 16:25

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SAMPLE ANALYTE COUNT

Project: JED
Pace Project No.: 35251015

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35251015001	MW-31A	EPA 8011	SMH	2	PASI-O
		EPA 8081	JLG	23	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 8141	WFH	6	PASI-O
		EPA 8151	LJM	6	PASI-O
		EPA 6010	CKJ	15	PASI-O
		EPA 6020	DRS	3	PASI-O
		EPA 7470	RVK	1	PASI-O
		EPA 8270 by SIM	IRL	19	PASI-O
		EPA 8270	BPJ	93	PASI-C
		EPA 8260	SK1	61	PASI-O
		SM 2540C	ALD	1	PASI-O
		EPA 9034	JDW	1	PASI-O
		EPA 300.0	KEK	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	RT1	1	PASI-O
		EPA 9012	CMD	1	PASI-O
35251015002	MW-31B	EPA 8011	SMH	2	PASI-O
		EPA 8081	JLG	23	PASI-O
		EPA 8082	JLG	9	PASI-O
		EPA 8141	WFH	6	PASI-O
		EPA 8151	LJM	6	PASI-O
		EPA 6010	CKJ	15	PASI-O
		EPA 6020	CKJ	3	PASI-O
		EPA 7470	RVK	1	PASI-O
		EPA 8270 by SIM	EAO	19	PASI-O
		EPA 8270	BPJ	93	PASI-C
		EPA 8260	SK1	61	PASI-O
		SM 2540C	ALD	1	PASI-O
		EPA 9034	JDW	1	PASI-O
		EPA 300.0	KEK	1	PASI-O
		EPA 350.1	CMD	1	PASI-O
		EPA 353.2	RT1	1	PASI-O
		EPA 9012	CMD	1	PASI-O
35251015003	Trip Blank 1	EPA 8260	SK1	61	PASI-O
35251015004	Trip Blank 2	EPA 8260	SK1	61	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A **Lab ID: 35251015001** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0048 U	ug/L	0.019	0.0048	1	06/24/16 20:50	06/25/16 12:44	96-12-8	
1,2-Dibromoethane (EDB)	0.0073 U	ug/L	0.0097	0.0073	1	06/24/16 20:50	06/25/16 12:44	106-93-4	
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Aldrin	0.0016 U	ug/L	0.011	0.0016	1	06/23/16 23:30	06/24/16 10:09	309-00-2	
alpha-BHC	0.0023 U	ug/L	0.011	0.0023	1	06/23/16 23:30	06/24/16 10:09	319-84-6	
beta-BHC	0.0087 U	ug/L	0.011	0.0087	1	06/23/16 23:30	06/24/16 10:09	319-85-7	
delta-BHC	0.0052 U	ug/L	0.011	0.0052	1	06/23/16 23:30	06/24/16 10:09	319-86-8	
gamma-BHC (Lindane)	0.0024 U	ug/L	0.011	0.0024	1	06/23/16 23:30	06/24/16 10:09	58-89-9	
Chlordane (Technical)	0.19 U	ug/L	0.54	0.19	1	06/23/16 23:30	06/24/16 10:09	57-74-9	
Chlorobenzilate	0.042 U	ug/L	0.11	0.042	1	06/23/16 23:30	06/24/16 10:09	510-15-6	
4,4'-DDD	0.0096 U	ug/L	0.011	0.0096	1	06/23/16 23:30	06/24/16 10:09	72-54-8	
4,4'-DDE	0.0054 U	ug/L	0.011	0.0054	1	06/23/16 23:30	06/24/16 10:09	72-55-9	
4,4'-DDT	0.0054 U	ug/L	0.011	0.0054	1	06/23/16 23:30	06/24/16 10:09	50-29-3	
Dieldrin	0.0022 U	ug/L	0.011	0.0022	1	06/23/16 23:30	06/24/16 10:09	60-57-1	
Endosulfan I	0.0055 U	ug/L	0.011	0.0055	1	06/23/16 23:30	06/24/16 10:09	959-98-8	
Endosulfan II	0.0043 U	ug/L	0.011	0.0043	1	06/23/16 23:30	06/24/16 10:09	33213-65-9	
Endosulfan sulfate	0.0067 U	ug/L	0.11	0.0067	1	06/23/16 23:30	06/24/16 10:09	1031-07-8	
Endrin	0.0047 U	ug/L	0.011	0.0047	1	06/23/16 23:30	06/24/16 10:09	72-20-8	
Endrin aldehyde	0.0039 U	ug/L	0.11	0.0039	1	06/23/16 23:30	06/24/16 10:09	7421-93-4	
Heptachlor	0.0067 U	ug/L	0.011	0.0067	1	06/23/16 23:30	06/24/16 10:09	76-44-8	
Heptachlor epoxide	0.0056 U	ug/L	0.011	0.0056	1	06/23/16 23:30	06/24/16 10:09	1024-57-3	
Methoxychlor	0.010 U	ug/L	0.011	0.010	1	06/23/16 23:30	06/24/16 10:09	72-43-5	
Pentachloronitrobenzene	0.036 U	ug/L	0.11	0.036	1	06/23/16 23:30	06/24/16 10:09	82-68-8	
Toxaphene	0.27 U	ug/L	0.54	0.27	1	06/23/16 23:30	06/24/16 10:09	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	63	%	27-124		1	06/23/16 23:30	06/24/16 10:09	877-09-8	
Decachlorobiphenyl (S)	44	%	10-132		1	06/23/16 23:30	06/24/16 10:09	2051-24-3	
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.087 U	ug/L	0.54	0.087	1	06/23/16 23:30	06/24/16 12:19	12674-11-2	
PCB-1221 (Aroclor 1221)	0.088 U	ug/L	0.54	0.088	1	06/23/16 23:30	06/24/16 12:19	11104-28-2	
PCB-1232 (Aroclor 1232)	0.13 U	ug/L	0.54	0.13	1	06/23/16 23:30	06/24/16 12:19	11141-16-5	
PCB-1242 (Aroclor 1242)	0.14 U	ug/L	0.54	0.14	1	06/23/16 23:30	06/24/16 12:19	53469-21-9	
PCB-1248 (Aroclor 1248)	0.30 U	ug/L	0.54	0.30	1	06/23/16 23:30	06/24/16 12:19	12672-29-6	
PCB-1254 (Aroclor 1254)	0.16 U	ug/L	0.54	0.16	1	06/23/16 23:30	06/24/16 12:19	11097-69-1	
PCB-1260 (Aroclor 1260)	0.12 U	ug/L	0.54	0.12	1	06/23/16 23:30	06/24/16 12:19	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	21-126		1	06/23/16 23:30	06/24/16 12:19	877-09-8	
Decachlorobiphenyl (S)	56	%	10-140		1	06/23/16 23:30	06/24/16 12:19	2051-24-3	
8141 GCS O/P Pesticides Analytical Method: EPA 8141 Preparation Method: EPA 3510									
Dimethoate	0.25 U	ug/L	0.53	0.25	1	06/30/16 15:40	07/01/16 16:08	60-51-5	
Disulfoton	0.27 U	ug/L	0.53	0.27	1	06/30/16 15:40	07/01/16 16:08	298-04-4	
Methyl parathion	0.28 U	ug/L	0.53	0.28	1	06/30/16 15:40	07/01/16 16:08	298-00-0	
Parathion (Ethyl parathion)	0.50 U	ug/L	1.1	0.50	1	06/30/16 15:40	07/01/16 16:08	56-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A Lab ID: 35251015001 Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8141 GCS O/P Pesticides Analytical Method: EPA 8141 Preparation Method: EPA 3510									
Phorate	0.44 U	ug/L	1.1	0.44	1	06/30/16 15:40	07/01/16 16:08	298-02-2	
Surrogates									
4-Chloro3nitrobenzotrifluoride	25	%	12-127		1	06/30/16 15:40	07/01/16 16:08		
8151 Chlorinated Herbicides Analytical Method: EPA 8151 Preparation Method: EPA 8151									
2,4-D	0.24 U	ug/L	0.99	0.24	1	06/27/16 17:15	06/29/16 11:39	94-75-7	
Dinoseb	0.060 U	ug/L	0.20	0.060	1	06/27/16 17:15	06/29/16 11:39	88-85-7	
Pentachlorophenol	0.018 U	ug/L	0.030	0.018	1	06/27/16 17:15	06/29/16 11:39	87-86-5	
2,4,5-T	0.044 U	ug/L	0.20	0.044	1	06/27/16 17:15	06/29/16 11:39	93-76-5	
2,4,5-TP (Silvex)	0.052 U	ug/L	0.20	0.052	1	06/27/16 17:15	06/29/16 11:39	93-72-1	
Surrogates									
2,4-DCAA (S)	94	%	39-139		1	06/27/16 17:15	06/29/16 11:39	19719-28-9	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	19.1	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:25	7440-39-3	
Beryllium	0.50 U	ug/L	1.0	0.50	1	06/24/16 06:45	06/25/16 11:25	7440-41-7	
Cadmium	0.50 U	ug/L	1.0	0.50	1	06/24/16 06:45	06/25/16 11:25	7440-43-9	
Chromium	2.5 U	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:25	7440-47-3	
Cobalt	5.0 U	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:25	7440-48-4	
Copper	2.5 U	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:25	7440-50-8	
Iron	4360	ug/L	40.0	20.0	1	06/24/16 06:45	06/25/16 11:25	7439-89-6	
Lead	5.0 U	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:25	7439-92-1	
Nickel	2.5 U	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:25	7440-02-0	
Selenium	7.5 U	ug/L	15.0	7.5	1	06/24/16 06:45	06/25/16 11:25	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:25	7440-22-4	
Sodium	16600	ug/L	1000	500	1	06/24/16 06:45	06/25/16 11:25	7440-23-5	
Tin	25.0 U	ug/L	50.0	25.0	1	06/24/16 06:45	06/25/16 11:25	7440-31-5	
Vanadium	5.0 U	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:25	7440-62-2	
Zinc	10.0 U	ug/L	20.0	10.0	1	06/24/16 06:45	06/25/16 11:25	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	0.50 U	ug/L	1.0	0.50	1	06/24/16 06:45	06/24/16 20:32	7440-36-0	
Arsenic	1.8	ug/L	1.0	0.50	1	06/24/16 06:45	06/24/16 20:32	7440-38-2	
Thallium	0.50 U	ug/L	1.0	0.50	1	06/24/16 06:45	06/24/16 20:32	7440-28-0	
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.10 U	ug/L	0.20	0.10	1	07/02/16 10:27	07/05/16 16:07	7439-97-6	
8270 MSSV PAHLV by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	83-32-9	
Acenaphthylene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	208-96-8	
Anthracene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	120-12-7	
Benzo(a)anthracene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:02	56-55-3	
Benzo(a)pyrene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:02	50-32-8	
Benzo(b)fluoranthene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:02	205-99-2	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A **Lab ID: 35251015001** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Benzo(g,h,i)perylene	0.028 U	ug/L	0.50	0.028	1	06/30/16 11:10	07/01/16 17:02	191-24-2	
Benzo(k)fluoranthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	207-08-9	
Chrysene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	218-01-9	
Dibenz(a,h)anthracene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:02	53-70-3	
Fluoranthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	206-44-0	
Fluorene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	86-73-7	
Indeno(1,2,3-cd)pyrene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:02	193-39-5	
2-Methylnaphthalene	1.0 U	ug/L	2.0	1.0	1	06/30/16 11:10	07/01/16 17:02	91-57-6	
Naphthalene	1.0 U	ug/L	2.0	1.0	1	06/30/16 11:10	07/01/16 17:02	91-20-3	
Phenanthrene	0.050 U	ug/L	0.50	0.050	1	06/30/16 11:10	07/01/16 17:02	85-01-8	
Pyrene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	33-101		1	06/30/16 11:10	07/01/16 17:02	321-60-8	
Terphenyl-d14 (S)	62	%	38-115		1	06/30/16 11:10	07/01/16 17:02	1718-51-0	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acetophenone	2.0 U	ug/L	10.0	2.0	1	06/30/16 09:01	07/01/16 18:34	98-86-2	
2-Acetylaminofluorene	1.1 I	ug/L	20.0	0.84	1	06/30/16 09:01	07/01/16 18:34	53-96-3	
4-Aminobiphenyl	0.92 U	ug/L	10.0	0.92	1	06/30/16 09:01	07/01/16 18:34	92-67-1	
Benzyl alcohol	3.4 U	ug/L	20.0	3.4	1	06/30/16 09:01	07/01/16 18:34	100-51-6	
4-Bromophenylphenyl ether	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	101-55-3	
Butylbenzylphthalate	0.84 I	ug/L	10.0	0.75	1	06/30/16 09:01	07/01/16 18:34	85-68-7	
4-Chloro-3-methylphenol	4.2 U	ug/L	20.0	4.2	1	06/30/16 09:01	07/01/16 18:34	59-50-7	
4-Chloroaniline	3.4 U	ug/L	20.0	3.4	1	06/30/16 09:01	07/01/16 18:34	106-47-8	
bis(2-Chloroethoxy)methane	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	111-91-1	
bis(2-Chloroethyl) ether	1.5 U	ug/L	10.0	1.5	1	06/30/16 09:01	07/01/16 18:34	111-44-4	
2-Chloronaphthalene	2.2 U	ug/L	10.0	2.2	1	06/30/16 09:01	07/01/16 18:34	91-58-7	
2-Chlorophenol	1.5 U	ug/L	10.0	1.5	1	06/30/16 09:01	07/01/16 18:34	95-57-8	
4-Chlorophenylphenyl ether	2.1 U	ug/L	10.0	2.1	1	06/30/16 09:01	07/01/16 18:34	7005-72-3	
Diallate	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	2303-16-4	
Dibenzofuran	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	132-64-9	
1,2-Dichlorobenzene	1.2 U	ug/L	10.0	1.2	1	06/30/16 09:01	07/01/16 18:34	95-50-1	
1,3-Dichlorobenzene	1.1 U	ug/L	10.0	1.1	1	06/30/16 09:01	07/01/16 18:34	541-73-1	
1,4-Dichlorobenzene	1.2 U	ug/L	10.0	1.2	1	06/30/16 09:01	07/01/16 18:34	106-46-7	
3,3'-Dichlorobenzidine	1.4 U	ug/L	20.0	1.4	1	06/30/16 09:01	07/01/16 18:34	91-94-1	
2,4-Dichlorophenol	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	120-83-2	
2,6-Dichlorophenol	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	87-65-0	
Diethylphthalate	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	84-66-2	
P-Dimethylaminoazobenzene	0.35 U	ug/L	5.0	0.35	1	06/30/16 09:01	07/01/16 18:34	60-11-7	
7,12-Dimethylbenz(a)anthracene	0.98 I	ug/L	10.0	0.77	1	06/30/16 09:01	07/01/16 18:34	57-97-6	
3,3'-Dimethylbenzidine	2.1 U	ug/L	10.0	2.1	1	06/30/16 09:01	07/01/16 18:34	119-93-7	
2,4-Dimethylphenol	2.2 U	ug/L	10.0	2.2	1	06/30/16 09:01	07/01/16 18:34	105-67-9	
a,a-Dimethylphenylethylamine	1.4 U	ug/L	50.0	1.4	1	06/30/16 09:01	07/01/16 18:34	122-09-8	J(L2)
Dimethylphthalate	1.5 U	ug/L	10.0	1.5	1	06/30/16 09:01	07/01/16 18:34	131-11-3	
Di-n-butylphthalate	1.1 U	ug/L	10.0	1.1	1	06/30/16 09:01	07/01/16 18:34	84-74-2	
4,6-Dinitro-2-methylphenol	1.7 U	ug/L	20.0	1.7	1	06/30/16 09:01	07/01/16 18:34	534-52-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A **Lab ID: 35251015001** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
1,3-Dinitrobenzene	1.5 U	ug/L	20.0	1.5	1	06/30/16 09:01	07/01/16 18:34	99-65-0	
2,4-Dinitrophenol	6.5 U	ug/L	50.0	6.5	1	06/30/16 09:01	07/01/16 18:34	51-28-5	
2,4-Dinitrotoluene	1.2 U	ug/L	10.0	1.2	1	06/30/16 09:01	07/01/16 18:34	121-14-2	
2,6-Dinitrotoluene	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	606-20-2	
Di-n-octylphthalate	1.0 I	ug/L	10.0	0.86	1	06/30/16 09:01	07/01/16 18:34	117-84-0	
Diphenylamine	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	122-39-4	
bis(2-Ethylhexyl)phthalate	1.4 I	ug/L	6.0	0.85	1	06/30/16 09:01	07/01/16 18:34	117-81-7	
Ethyl methanesulfonate	1.8 U	ug/L	20.0	1.8	1	06/30/16 09:01	07/01/16 18:34	62-50-0	
Famphur	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	52-85-7	
Hexachlorobenzene	1.1 U	ug/L	10.0	1.1	1	06/30/16 09:01	07/01/16 18:34	118-74-1	
Hexachlorocyclopentadiene	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	77-47-4	
Hexachloroethane	1.5 U	ug/L	10.0	1.5	1	06/30/16 09:01	07/01/16 18:34	67-72-1	
Hexachlorophene	11.5 U	ug/L	100	11.5	1	06/30/16 09:01	07/01/16 18:34	70-30-4	
Hexachloropropene	1.6 U	ug/L	10.0	1.6	1	06/30/16 09:01	07/01/16 18:34	1888-71-7	
Isodrin	2.0 U	ug/L	20.0	2.0	1	06/30/16 09:01	07/01/16 18:34	465-73-6	
Isophorone	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	78-59-1	
Isosafrole	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	120-58-1	
Kepone	3.1 U	ug/L	10.0	3.1	1	06/30/16 09:01	07/01/16 18:34	143-50-0	
Methapyrilene	2.7 U	ug/L	50.0	2.7	1	06/30/16 09:01	07/01/16 18:34	91-80-5	
3-Methylcholanthrene	0.90 I	ug/L	10.0	0.82	1	06/30/16 09:01	07/01/16 18:34	56-49-5	
Methyl methanesulfonate	1.3 U	ug/L	5.0	1.3	1	06/30/16 09:01	07/01/16 18:34	66-27-3	
2-Methylphenol(o-Cresol)	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34		
1-Naphthalenamine	0.96 U	ug/L	5.0	0.96	1	06/30/16 09:01	07/01/16 18:34	134-32-7	
2-Naphthalenamine	0.98 U	ug/L	5.0	0.98	1	06/30/16 09:01	07/01/16 18:34	91-59-8	
1,4-Naphthoquinone	1.8 U	ug/L	5.0	1.8	1	06/30/16 09:01	07/01/16 18:34	130-15-4	
2-Nitroaniline	2.8 U	ug/L	50.0	2.8	1	06/30/16 09:01	07/01/16 18:34	88-74-4	
3-Nitroaniline	2.4 U	ug/L	50.0	2.4	1	06/30/16 09:01	07/01/16 18:34	99-09-2	
4-Nitroaniline	2.5 U	ug/L	20.0	2.5	1	06/30/16 09:01	07/01/16 18:34	100-01-6	
Nitrobenzene	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	98-95-3	
2-Nitrophenol	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	88-75-5	
4-Nitrophenol	5.8 U	ug/L	50.0	5.8	1	06/30/16 09:01	07/01/16 18:34	100-02-7	
5-Nitro-o-toluidine	1.2 U	ug/L	10.0	1.2	1	06/30/16 09:01	07/01/16 18:34	99-55-8	
N-Nitrosodiethylamine	1.8 U	ug/L	20.0	1.8	1	06/30/16 09:01	07/01/16 18:34	55-18-5	
N-Nitrosodimethylamine	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	62-75-9	
N-Nitroso-di-n-butylamine	2.2 U	ug/L	10.0	2.2	1	06/30/16 09:01	07/01/16 18:34	924-16-3	
N-Nitroso-di-n-propylamine	2.1 U	ug/L	10.0	2.1	1	06/30/16 09:01	07/01/16 18:34	621-64-7	
N-Nitrosodiphenylamine	1.3 U	ug/L	10.0	1.3	1	06/30/16 09:01	07/01/16 18:34	86-30-6	
N-Nitrosomethylethylamine	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	10595-95-6	
N-Nitrosomorpholine	2.5 U	ug/L	10.0	2.5	1	06/30/16 09:01	07/01/16 18:34	59-89-2	
N-Nitrosopiperidine	1.9 U	ug/L	20.0	1.9	1	06/30/16 09:01	07/01/16 18:34	100-75-4	
N-Nitrosopyrrolidine	2.5 U	ug/L	10.0	2.5	1	06/30/16 09:01	07/01/16 18:34	930-55-2	
O,O,O-Triethylphosphorothioate	1.8 U	ug/L	10.0	1.8	1	06/30/16 09:01	07/01/16 18:34	126-68-1	
2,2'-Oxybis(1-chloropropane)	1.6 U	ug/L	10.0	1.6	1	06/30/16 09:01	07/01/16 18:34	108-60-1	
Pentachlorobenzene	2.0 U	ug/L	10.0	2.0	1	06/30/16 09:01	07/01/16 18:34	608-93-5	
Phenacetin	0.97 U	ug/L	20.0	0.97	1	06/30/16 09:01	07/01/16 18:34	62-44-2	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A **Lab ID: 35251015001** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Phenol	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34		
p-Phenylenediamine	0.96 U	ug/L	10.0	0.96	1	06/30/16 09:01	07/01/16 18:34	106-50-3	
Pronamide	0.97 U	ug/L	10.0	0.97	1	06/30/16 09:01	07/01/16 18:34	23950-58-5	
Safrole	1.5 U	ug/L	10.0	1.5	1	06/30/16 09:01	07/01/16 18:34	94-59-7	
1,2,4,5-Tetrachlorobenzene	1.7 U	ug/L	10.0	1.7	1	06/30/16 09:01	07/01/16 18:34	95-94-3	
2,3,4,6-Tetrachlorophenol	2.3 U	ug/L	10.0	2.3	1	06/30/16 09:01	07/01/16 18:34	58-90-2	
Thionazin	1.2 U	ug/L	20.0	1.2	1	06/30/16 09:01	07/01/16 18:34	297-97-2	
O-Toluidine	1.6 U	ug/L	10.0	1.6	1	06/30/16 09:01	07/01/16 18:34	95-53-4	
2,4,5-Trichlorophenol	2.2 U	ug/L	10.0	2.2	1	06/30/16 09:01	07/01/16 18:34	95-95-4	
2,4,6-Trichlorophenol	1.9 U	ug/L	10.0	1.9	1	06/30/16 09:01	07/01/16 18:34	88-06-2	
1,3,5-Trinitrobenzene	1.1 U	ug/L	10.0	1.1	1	06/30/16 09:01	07/01/16 18:34	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	71	%	21-110		1	06/30/16 09:01	07/01/16 18:34	4165-60-0	
2-Fluorobiphenyl (S)	67	%	27-110		1	06/30/16 09:01	07/01/16 18:34	321-60-8	
Terphenyl-d14 (S)	88	%	31-107		1	06/30/16 09:01	07/01/16 18:34	1718-51-0	
Phenol-d6 (S)	28	%	10-110		1	06/30/16 09:01	07/01/16 18:34	13127-88-3	
2-Fluorophenol (S)	39	%	12-110		1	06/30/16 09:01	07/01/16 18:34	367-12-4	
2,4,6-Tribromophenol (S)	80	%	27-110		1	06/30/16 09:01	07/01/16 18:34	118-79-6	
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		07/02/16 09:06	67-64-1	
Acetonitrile	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	75-05-8	
Acrolein	10.0 U	ug/L	20.0	10.0	1		07/02/16 09:06	107-02-8	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	107-13-1	
Allyl chloride	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	107-05-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		07/02/16 09:06	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		07/02/16 09:06	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		07/02/16 09:06	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	75-15-0	L3
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		07/02/16 09:06	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		07/02/16 09:06	74-87-3	
Chloroprene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	126-99-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		07/02/16 09:06	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	74-95-3	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	110-57-6	
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	156-59-2	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A **Lab ID: 35251015001** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	78-87-5	
1,3-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	142-28-9	
2,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	594-20-7	
1,1-Dichloropropene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	563-58-6	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/02/16 09:06	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/02/16 09:06	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	100-41-4	
Ethyl methacrylate	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	97-63-2	
Hexachloro-1,3-butadiene	0.40 U	ug/L	1.0	0.40	1		07/02/16 09:06	87-68-3	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		07/02/16 09:06	74-88-4	
Isobutyl Alcohol	10.0 U	ug/L	20.0	10.0	1		07/02/16 09:06	78-83-1	
Methacrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	126-98-7	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		07/02/16 09:06	75-09-2	
Methyl methacrylate	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	80-62-6	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	108-10-1	
Propionitrile	5.0 U	ug/L	10.0	5.0	1		07/02/16 09:06	107-12-0	
Styrene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		07/02/16 09:06	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	127-18-4	L3
Toluene	0.75 I	ug/L	1.0	0.50	1		07/02/16 09:06	108-88-3	
1,2,4-Trichlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	120-82-1	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		07/02/16 09:06	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		07/02/16 09:06	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		07/02/16 09:06	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		07/02/16 09:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-114		1		07/02/16 09:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	86-125		1		07/02/16 09:06	17060-07-0	
Toluene-d8 (S)	102	%	87-113		1		07/02/16 09:06	2037-26-5	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	81.0	mg/L	5.0	5.0	1		06/24/16 15:51		
9034 Sulfide Water Analytical Method: EPA 9034									
Sulfide	1.0 U	mg/L	1.0	1.0	1		06/28/16 11:50	18496-25-8	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	31.3	mg/L	5.0	2.5	1		06/29/16 10:06	16887-00-6	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31A		Lab ID: 35251015001		Collected: 06/23/16 11:10		Received: 06/23/16 16:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.85	mg/L	0.050	0.020	1		06/29/16 11:57	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/25/16 07:28		
9012 Cyanide, Total									
		Analytical Method: EPA 9012 Preparation Method: EPA 9012							
Cyanide	0.0020 U	mg/L	0.010	0.0020	1	07/07/16 11:20	07/07/16 17:08	57-12-5	J(M1), J(R1)

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B		Lab ID: 35251015002		Collected: 06/23/16 12:50		Received: 06/23/16 16:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0047 U	ug/L	0.019	0.0047	1	06/24/16 20:50	06/25/16 13:00	96-12-8	
1,2-Dibromoethane (EDB)	0.0072 U	ug/L	0.0096	0.0072	1	06/24/16 20:50	06/25/16 13:00	106-93-4	
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Aldrin	0.0014 U	ug/L	0.0096	0.0014	1	06/23/16 23:30	06/24/16 10:29	309-00-2	
alpha-BHC	0.0020 U	ug/L	0.0096	0.0020	1	06/23/16 23:30	06/24/16 10:29	319-84-6	
beta-BHC	0.0077 U	ug/L	0.0096	0.0077	1	06/23/16 23:30	06/24/16 10:29	319-85-7	
delta-BHC	0.0046 U	ug/L	0.0096	0.0046	1	06/23/16 23:30	06/24/16 10:29	319-86-8	
gamma-BHC (Lindane)	0.0021 U	ug/L	0.0096	0.0021	1	06/23/16 23:30	06/24/16 10:29	58-89-9	
Chlordane (Technical)	0.17 U	ug/L	0.48	0.17	1	06/23/16 23:30	06/24/16 10:29	57-74-9	
Chlorobenzilate	0.037 U	ug/L	0.096	0.037	1	06/23/16 23:30	06/24/16 10:29	510-15-6	
4,4'-DDD	0.0085 U	ug/L	0.0096	0.0085	1	06/23/16 23:30	06/24/16 10:29	72-54-8	
4,4'-DDE	0.0048 U	ug/L	0.0096	0.0048	1	06/23/16 23:30	06/24/16 10:29	72-55-9	
4,4'-DDT	0.0048 U	ug/L	0.0096	0.0048	1	06/23/16 23:30	06/24/16 10:29	50-29-3	
Dieldrin	0.0019 U	ug/L	0.0096	0.0019	1	06/23/16 23:30	06/24/16 10:29	60-57-1	
Endosulfan I	0.0049 U	ug/L	0.0096	0.0049	1	06/23/16 23:30	06/24/16 10:29	959-98-8	
Endosulfan II	0.0038 U	ug/L	0.0096	0.0038	1	06/23/16 23:30	06/24/16 10:29	33213-65-9	
Endosulfan sulfate	0.0059 U	ug/L	0.096	0.0059	1	06/23/16 23:30	06/24/16 10:29	1031-07-8	
Endrin	0.0041 U	ug/L	0.0096	0.0041	1	06/23/16 23:30	06/24/16 10:29	72-20-8	
Endrin aldehyde	0.0035 U	ug/L	0.096	0.0035	1	06/23/16 23:30	06/24/16 10:29	7421-93-4	
Heptachlor	0.0059 U	ug/L	0.0096	0.0059	1	06/23/16 23:30	06/24/16 10:29	76-44-8	
Heptachlor epoxide	0.0050 U	ug/L	0.0096	0.0050	1	06/23/16 23:30	06/24/16 10:29	1024-57-3	
Methoxychlor	0.0092 U	ug/L	0.0096	0.0092	1	06/23/16 23:30	06/24/16 10:29	72-43-5	
Pentachloronitrobenzene	0.032 U	ug/L	0.096	0.032	1	06/23/16 23:30	06/24/16 10:29	82-68-8	
Toxaphene	0.24 U	ug/L	0.48	0.24	1	06/23/16 23:30	06/24/16 10:29	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	58	%	27-124		1	06/23/16 23:30	06/24/16 10:29	877-09-8	
Decachlorobiphenyl (S)	27	%	10-132		1	06/23/16 23:30	06/24/16 10:29	2051-24-3	
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	0.077 U	ug/L	0.48	0.077	1	06/23/16 23:30	06/24/16 11:38	12674-11-2	
PCB-1221 (Aroclor 1221)	0.078 U	ug/L	0.48	0.078	1	06/23/16 23:30	06/24/16 11:38	11104-28-2	
PCB-1232 (Aroclor 1232)	0.11 U	ug/L	0.48	0.11	1	06/23/16 23:30	06/24/16 11:38	11141-16-5	
PCB-1242 (Aroclor 1242)	0.12 U	ug/L	0.48	0.12	1	06/23/16 23:30	06/24/16 11:38	53469-21-9	
PCB-1248 (Aroclor 1248)	0.26 U	ug/L	0.48	0.26	1	06/23/16 23:30	06/24/16 11:38	12672-29-6	
PCB-1254 (Aroclor 1254)	0.14 U	ug/L	0.48	0.14	1	06/23/16 23:30	06/24/16 11:38	11097-69-1	
PCB-1260 (Aroclor 1260)	0.11 U	ug/L	0.48	0.11	1	06/23/16 23:30	06/24/16 11:38	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	57	%	21-126		1	06/23/16 23:30	06/24/16 11:38	877-09-8	
Decachlorobiphenyl (S)	23	%	10-140		1	06/23/16 23:30	06/24/16 11:38	2051-24-3	
8141 GCS O/P Pesticides Analytical Method: EPA 8141 Preparation Method: EPA 3510									
Dimethoate	0.23 U	ug/L	0.48	0.23	1	06/30/16 15:40	07/01/16 16:35	60-51-5	
Disulfoton	0.25 U	ug/L	0.48	0.25	1	06/30/16 15:40	07/01/16 16:35	298-04-4	
Methyl parathion	0.26 U	ug/L	0.48	0.26	1	06/30/16 15:40	07/01/16 16:35	298-00-0	
Parathion (Ethyl parathion)	0.45 U	ug/L	0.96	0.45	1	06/30/16 15:40	07/01/16 16:35	56-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B Lab ID: 35251015002 Collected: 06/23/16 12:50 Received: 06/23/16 16:25 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8141 GCS O/P Pesticides Analytical Method: EPA 8141 Preparation Method: EPA 3510									
Phorate	0.40 U	ug/L	0.96	0.40	1	06/30/16 15:40	07/01/16 16:35	298-02-2	
Surrogates									
4-Chloro3nitrobenzotrifluoride	27	%	12-127		1	06/30/16 15:40	07/01/16 16:35		
8151 Chlorinated Herbicides Analytical Method: EPA 8151 Preparation Method: EPA 8151									
2,4-D	0.21 U	ug/L	0.89	0.21	1	06/27/16 17:15	06/29/16 12:09	94-75-7	
Dinoseb	0.054 U	ug/L	0.18	0.054	1	06/27/16 17:15	06/29/16 12:09	88-85-7	
Pentachlorophenol	0.016 U	ug/L	0.027	0.016	1	06/27/16 17:15	06/29/16 12:09	87-86-5	
2,4,5-T	0.040 U	ug/L	0.18	0.040	1	06/27/16 17:15	06/29/16 12:09	93-76-5	
2,4,5-TP (Silvex)	0.046 U	ug/L	0.18	0.046	1	06/27/16 17:15	06/29/16 12:09	93-72-1	
Surrogates									
2,4-DCAA (S)	60	%	39-139		1	06/27/16 17:15	06/29/16 12:09	19719-28-9	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Barium	1080	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:29	7440-39-3	
Beryllium	6.1	ug/L	1.0	0.50	1	06/24/16 06:45	06/25/16 11:29	7440-41-7	
Cadmium	3.2	ug/L	1.0	0.50	1	06/24/16 06:45	06/25/16 11:29	7440-43-9	
Chromium	131	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:29	7440-47-3	
Cobalt	6.2 I	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:29	7440-48-4	
Copper	22.3	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:29	7440-50-8	
Iron	9490	ug/L	40.0	20.0	1	06/24/16 06:45	06/25/16 11:29	7439-89-6	
Lead	130	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:29	7439-92-1	
Nickel	17.6	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:29	7440-02-0	
Selenium	43.7	ug/L	15.0	7.5	1	06/24/16 06:45	06/25/16 11:29	7782-49-2	
Silver	2.5 U	ug/L	5.0	2.5	1	06/24/16 06:45	06/25/16 11:29	7440-22-4	
Sodium	10400	ug/L	1000	500	1	06/24/16 06:45	06/25/16 11:29	7440-23-5	
Tin	25.0 U	ug/L	50.0	25.0	1	06/24/16 06:45	06/25/16 11:29	7440-31-5	
Vanadium	211	ug/L	10.0	5.0	1	06/24/16 06:45	06/25/16 11:29	7440-62-2	
Zinc	17.9 I	ug/L	20.0	10.0	1	06/24/16 06:45	06/25/16 11:29	7440-66-6	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Antimony	1.0 U	ug/L	2.0	1.0	2	06/24/16 06:45	06/28/16 16:04	7440-36-0	D3
Arsenic	15.5	ug/L	2.0	1.0	2	06/24/16 06:45	06/28/16 16:04	7440-38-2	D3
Thallium	1.0 U	ug/L	2.0	1.0	2	06/24/16 06:45	06/28/16 16:04	7440-28-0	D3
7470 Mercury Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	1.4	ug/L	0.20	0.10	1	07/02/16 10:27	07/05/16 16:13	7439-97-6	
8270 MSSV PAHLV by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	83-32-9	
Acenaphthylene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	208-96-8	
Anthracene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	120-12-7	
Benzo(a)anthracene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:46	56-55-3	
Benzo(a)pyrene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:46	50-32-8	
Benzo(b)fluoranthene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:46	205-99-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B **Lab ID: 35251015002** Collected: 06/23/16 12:50 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAHLV by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Benzo(g,h,i)perylene	0.028 U	ug/L	0.50	0.028	1	06/30/16 11:10	07/01/16 17:46	191-24-2	
Benzo(k)fluoranthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	207-08-9	
Chrysene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	218-01-9	
Dibenz(a,h)anthracene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:46	53-70-3	
Fluoranthene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	206-44-0	
Fluorene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	0.025 U	ug/L	0.10	0.025	1	06/30/16 11:10	07/01/16 17:46	193-39-5	
2-Methylnaphthalene	1.0 U	ug/L	2.0	1.0	1	06/30/16 11:10	07/01/16 17:46	91-57-6	
Naphthalene	1.0 U	ug/L	2.0	1.0	1	06/30/16 11:10	07/01/16 17:46	91-20-3	
Phenanthrene	0.050 U	ug/L	0.50	0.050	1	06/30/16 11:10	07/01/16 17:46	85-01-8	
Pyrene	0.025 U	ug/L	0.50	0.025	1	06/30/16 11:10	07/01/16 17:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	33-101		1	06/30/16 11:10	07/01/16 17:46	321-60-8	
Terphenyl-d14 (S)	63	%	38-115		1	06/30/16 11:10	07/01/16 17:46	1718-51-0	
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acetophenone	6.5 U	ug/L	33.3	6.5	1	06/30/16 09:01	07/01/16 19:02	98-86-2	
2-Acetylaminofluorene	2.8 U	ug/L	66.7	2.8	1	06/30/16 09:01	07/01/16 19:02	53-96-3	
4-Aminobiphenyl	3.1 U	ug/L	33.3	3.1	1	06/30/16 09:01	07/01/16 19:02	92-67-1	
Benzyl alcohol	11.3 U	ug/L	66.7	11.3	1	06/30/16 09:01	07/01/16 19:02	100-51-6	
4-Bromophenylphenyl ether	4.4 U	ug/L	33.3	4.4	1	06/30/16 09:01	07/01/16 19:02	101-55-3	
Butylbenzylphthalate	2.5 U	ug/L	33.3	2.5	1	06/30/16 09:01	07/01/16 19:02	85-68-7	
4-Chloro-3-methylphenol	13.9 U	ug/L	66.7	13.9	1	06/30/16 09:01	07/01/16 19:02	59-50-7	
4-Chloroaniline	11.3 U	ug/L	66.7	11.3	1	06/30/16 09:01	07/01/16 19:02	106-47-8	
bis(2-Chloroethoxy)methane	5.6 U	ug/L	33.3	5.6	1	06/30/16 09:01	07/01/16 19:02	111-91-1	
bis(2-Chloroethyl) ether	4.9 U	ug/L	33.3	4.9	1	06/30/16 09:01	07/01/16 19:02	111-44-4	
2-Chloronaphthalene	7.4 U	ug/L	33.3	7.4	1	06/30/16 09:01	07/01/16 19:02	91-58-7	
2-Chlorophenol	4.9 U	ug/L	33.3	4.9	1	06/30/16 09:01	07/01/16 19:02	95-57-8	
4-Chlorophenylphenyl ether	7.0 U	ug/L	33.3	7.0	1	06/30/16 09:01	07/01/16 19:02	7005-72-3	
Diallylate	4.3 U	ug/L	33.3	4.3	1	06/30/16 09:01	07/01/16 19:02	2303-16-4	
Dibenzofuran	5.9 U	ug/L	33.3	5.9	1	06/30/16 09:01	07/01/16 19:02	132-64-9	
1,2-Dichlorobenzene	4.0 U	ug/L	33.3	4.0	1	06/30/16 09:01	07/01/16 19:02	95-50-1	
1,3-Dichlorobenzene	3.6 U	ug/L	33.3	3.6	1	06/30/16 09:01	07/01/16 19:02	541-73-1	
1,4-Dichlorobenzene	4.1 U	ug/L	33.3	4.1	1	06/30/16 09:01	07/01/16 19:02	106-46-7	
3,3'-Dichlorobenzidine	4.7 U	ug/L	66.7	4.7	1	06/30/16 09:01	07/01/16 19:02	91-94-1	
2,4-Dichlorophenol	5.5 U	ug/L	33.3	5.5	1	06/30/16 09:01	07/01/16 19:02	120-83-2	
2,6-Dichlorophenol	6.1 U	ug/L	33.3	6.1	1	06/30/16 09:01	07/01/16 19:02	87-65-0	
Diethylphthalate	4.4 U	ug/L	33.3	4.4	1	06/30/16 09:01	07/01/16 19:02	84-66-2	
P-Dimethylaminoazobenzene	1.2 U	ug/L	16.7	1.2	1	06/30/16 09:01	07/01/16 19:02	60-11-7	
7,12-Dimethylbenz(a)anthracene	2.6 U	ug/L	33.3	2.6	1	06/30/16 09:01	07/01/16 19:02	57-97-6	
3,3'-Dimethylbenzidine	7.1 U	ug/L	33.3	7.1	1	06/30/16 09:01	07/01/16 19:02	119-93-7	
2,4-Dimethylphenol	7.3 U	ug/L	33.3	7.3	1	06/30/16 09:01	07/01/16 19:02	105-67-9	
a,a-Dimethylphenylethylamine	4.5 U	ug/L	167	4.5	1	06/30/16 09:01	07/01/16 19:02	122-09-8	J(L2)
Dimethylphthalate	4.9 U	ug/L	33.3	4.9	1	06/30/16 09:01	07/01/16 19:02	131-11-3	
Di-n-butylphthalate	3.5 U	ug/L	33.3	3.5	1	06/30/16 09:01	07/01/16 19:02	84-74-2	
4,6-Dinitro-2-methylphenol	5.5 U	ug/L	66.7	5.5	1	06/30/16 09:01	07/01/16 19:02	534-52-1	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B **Lab ID: 35251015002** Collected: 06/23/16 12:50 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
1,3-Dinitrobenzene	5.0 U	ug/L	66.7	5.0	1	06/30/16 09:01	07/01/16 19:02	99-65-0	
2,4-Dinitrophenol	21.8 U	ug/L	167	21.8	1	06/30/16 09:01	07/01/16 19:02	51-28-5	
2,4-Dinitrotoluene	4.0 U	ug/L	33.3	4.0	1	06/30/16 09:01	07/01/16 19:02	121-14-2	
2,6-Dinitrotoluene	5.6 U	ug/L	33.3	5.6	1	06/30/16 09:01	07/01/16 19:02	606-20-2	
Di-n-octylphthalate	2.9 U	ug/L	33.3	2.9	1	06/30/16 09:01	07/01/16 19:02	117-84-0	
Diphenylamine	4.4 U	ug/L	33.3	4.4	1	06/30/16 09:01	07/01/16 19:02	122-39-4	
bis(2-Ethylhexyl)phthalate	2.8 U	ug/L	20.0	2.8	1	06/30/16 09:01	07/01/16 19:02	117-81-7	
Ethyl methanesulfonate	6.0 U	ug/L	66.7	6.0	1	06/30/16 09:01	07/01/16 19:02	62-50-0	
Famphur	5.8 U	ug/L	33.3	5.8	1	06/30/16 09:01	07/01/16 19:02	52-85-7	
Hexachlorobenzene	3.8 U	ug/L	33.3	3.8	1	06/30/16 09:01	07/01/16 19:02	118-74-1	
Hexachlorocyclopentadiene	5.8 U	ug/L	33.3	5.8	1	06/30/16 09:01	07/01/16 19:02	77-47-4	
Hexachloroethane	4.9 U	ug/L	33.3	4.9	1	06/30/16 09:01	07/01/16 19:02	67-72-1	
Hexachlorophene	38.4 U	ug/L	333	38.4	1	06/30/16 09:01	07/01/16 19:02	70-30-4	
Hexachloropropene	5.4 U	ug/L	33.3	5.4	1	06/30/16 09:01	07/01/16 19:02	1888-71-7	
Isodrin	6.8 U	ug/L	66.7	6.8	1	06/30/16 09:01	07/01/16 19:02	465-73-6	
Isophorone	5.9 U	ug/L	33.3	5.9	1	06/30/16 09:01	07/01/16 19:02	78-59-1	
Isosafrole	6.0 U	ug/L	33.3	6.0	1	06/30/16 09:01	07/01/16 19:02	120-58-1	
Kepone	10.5 U	ug/L	33.3	10.5	1	06/30/16 09:01	07/01/16 19:02	143-50-0	
Methapyrilene	9.2 U	ug/L	167	9.2	1	06/30/16 09:01	07/01/16 19:02	91-80-5	
3-Methylcholanthrene	2.7 U	ug/L	33.3	2.7	1	06/30/16 09:01	07/01/16 19:02	56-49-5	
Methyl methanesulfonate	4.2 U	ug/L	16.7	4.2	1	06/30/16 09:01	07/01/16 19:02	66-27-3	
2-Methylphenol(o-Cresol)	5.8 U	ug/L	33.3	5.8	1	06/30/16 09:01	07/01/16 19:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	5.7 U	ug/L	33.3	5.7	1	06/30/16 09:01	07/01/16 19:02		
1-Naphthalenamine	3.2 U	ug/L	16.7	3.2	1	06/30/16 09:01	07/01/16 19:02	134-32-7	
2-Naphthalenamine	3.3 U	ug/L	16.7	3.3	1	06/30/16 09:01	07/01/16 19:02	91-59-8	
1,4-Naphthoquinone	5.9 U	ug/L	16.7	5.9	1	06/30/16 09:01	07/01/16 19:02	130-15-4	
2-Nitroaniline	9.4 U	ug/L	167	9.4	1	06/30/16 09:01	07/01/16 19:02	88-74-4	
3-Nitroaniline	8.1 U	ug/L	167	8.1	1	06/30/16 09:01	07/01/16 19:02	99-09-2	
4-Nitroaniline	8.5 U	ug/L	66.7	8.5	1	06/30/16 09:01	07/01/16 19:02	100-01-6	
Nitrobenzene	5.5 U	ug/L	33.3	5.5	1	06/30/16 09:01	07/01/16 19:02	98-95-3	
2-Nitrophenol	5.5 U	ug/L	33.3	5.5	1	06/30/16 09:01	07/01/16 19:02	88-75-5	
4-Nitrophenol	19.3 U	ug/L	167	19.3	1	06/30/16 09:01	07/01/16 19:02	100-02-7	
5-Nitro-o-toluidine	4.1 U	ug/L	33.3	4.1	1	06/30/16 09:01	07/01/16 19:02	99-55-8	
N-Nitrosodiethylamine	6.0 U	ug/L	66.7	6.0	1	06/30/16 09:01	07/01/16 19:02	55-18-5	
N-Nitrosodimethylamine	4.2 U	ug/L	33.3	4.2	1	06/30/16 09:01	07/01/16 19:02	62-75-9	
N-Nitroso-di-n-butylamine	7.4 U	ug/L	33.3	7.4	1	06/30/16 09:01	07/01/16 19:02	924-16-3	
N-Nitroso-di-n-propylamine	6.9 U	ug/L	33.3	6.9	1	06/30/16 09:01	07/01/16 19:02	621-64-7	
N-Nitrosodiphenylamine	4.4 U	ug/L	33.3	4.4	1	06/30/16 09:01	07/01/16 19:02	86-30-6	
N-Nitrosomethylethylamine	6.1 U	ug/L	33.3	6.1	1	06/30/16 09:01	07/01/16 19:02	10595-95-6	
N-Nitrosomorpholine	8.2 U	ug/L	33.3	8.2	1	06/30/16 09:01	07/01/16 19:02	59-89-2	
N-Nitrosopiperidine	6.2 U	ug/L	66.7	6.2	1	06/30/16 09:01	07/01/16 19:02	100-75-4	
N-Nitrosopyrrolidine	8.3 U	ug/L	33.3	8.3	1	06/30/16 09:01	07/01/16 19:02	930-55-2	
O,O,O-Triethylphosphorothioate	6.0 U	ug/L	33.3	6.0	1	06/30/16 09:01	07/01/16 19:02	126-68-1	
2,2'-Oxybis(1-chloropropane)	5.4 U	ug/L	33.3	5.4	1	06/30/16 09:01	07/01/16 19:02	108-60-1	
Pentachlorobenzene	6.7 U	ug/L	33.3	6.7	1	06/30/16 09:01	07/01/16 19:02	608-93-5	
Phenacetin	3.2 U	ug/L	66.7	3.2	1	06/30/16 09:01	07/01/16 19:02	62-44-2	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B **Lab ID: 35251015002** Collected: 06/23/16 12:50 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Phenol	5.6 U	ug/L	33.3	5.6	1	06/30/16 09:01	07/01/16 19:02		
p-Phenylenediamine	3.2 U	ug/L	33.3	3.2	1	06/30/16 09:01	07/01/16 19:02	106-50-3	
Pronamide	3.2 U	ug/L	33.3	3.2	1	06/30/16 09:01	07/01/16 19:02	23950-58-5	
Safrole	5.0 U	ug/L	33.3	5.0	1	06/30/16 09:01	07/01/16 19:02	94-59-7	
1,2,4,5-Tetrachlorobenzene	5.6 U	ug/L	33.3	5.6	1	06/30/16 09:01	07/01/16 19:02	95-94-3	
2,3,4,6-Tetrachlorophenol	7.5 U	ug/L	33.3	7.5	1	06/30/16 09:01	07/01/16 19:02	58-90-2	
Thionazin	4.1 U	ug/L	66.7	4.1	1	06/30/16 09:01	07/01/16 19:02	297-97-2	
O-Toluidine	5.5 U	ug/L	33.3	5.5	1	06/30/16 09:01	07/01/16 19:02	95-53-4	
2,4,5-Trichlorophenol	7.5 U	ug/L	33.3	7.5	1	06/30/16 09:01	07/01/16 19:02	95-95-4	
2,4,6-Trichlorophenol	6.3 U	ug/L	33.3	6.3	1	06/30/16 09:01	07/01/16 19:02	88-06-2	
1,3,5-Trinitrobenzene	3.6 U	ug/L	33.3	3.6	1	06/30/16 09:01	07/01/16 19:02	99-35-4	
Surrogates									
Nitrobenzene-d5 (S)	15	%	21-110		1	06/30/16 09:01	07/01/16 19:02	4165-60-0	J(S0), P2
2-Fluorobiphenyl (S)	13	%	27-110		1	06/30/16 09:01	07/01/16 19:02	321-60-8	J(S0)
Terphenyl-d14 (S)	32	%	31-107		1	06/30/16 09:01	07/01/16 19:02	1718-51-0	
Phenol-d6 (S)	11	%	10-110		1	06/30/16 09:01	07/01/16 19:02	13127-88-3	
2-Fluorophenol (S)	12	%	12-110		1	06/30/16 09:01	07/01/16 19:02	367-12-4	
2,4,6-Tribromophenol (S)	24	%	27-110		1	06/30/16 09:01	07/01/16 19:02	118-79-6	J(S0)
8260 MSV Analytical Method: EPA 8260									
Acetone	10.0 U	ug/L	20.0	10.0	1		07/03/16 11:09	67-64-1	
Acetonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	75-05-8	
Acrolein	10.0 U	ug/L	20.0	10.0	1		07/03/16 11:09	107-02-8	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	107-13-1	
Allyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	107-05-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		07/03/16 11:09	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		07/03/16 11:09	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		07/03/16 11:09	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	75-15-0	L3
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 11:09	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		07/03/16 11:09	74-87-3	
Chloroprene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	126-99-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		07/03/16 11:09	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	74-95-3	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	110-57-6	J(L2)
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-35-4	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B **Lab ID: 35251015002** Collected: 06/23/16 12:50 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	78-87-5	
1,3-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	142-28-9	
2,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	594-20-7	
1,1-Dichloropropene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	563-58-6	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 11:09	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 11:09	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	100-41-4	
Ethyl methacrylate	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	97-63-2	
Hexachloro-1,3-butadiene	0.40 U	ug/L	1.0	0.40	1		07/03/16 11:09	87-68-3	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 11:09	74-88-4	
Isobutyl Alcohol	10.0 U	ug/L	20.0	10.0	1		07/03/16 11:09	78-83-1	
Methacrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	126-98-7	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		07/03/16 11:09	75-09-2	
Methyl methacrylate	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	80-62-6	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	108-10-1	
Propionitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 11:09	107-12-0	
Styrene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	630-20-6	
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		07/03/16 11:09	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	127-18-4	L3
Toluene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	108-88-3	
1,2,4-Trichlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	120-82-1	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		07/03/16 11:09	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		07/03/16 11:09	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 11:09	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		07/03/16 11:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-114		1		07/03/16 11:09	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	86-125		1		07/03/16 11:09	17060-07-0	
Toluene-d8 (S)	100	%	87-113		1		07/03/16 11:09	2037-26-5	

2540C Total Dissolved Solids

Analytical Method: SM 2540C

Total Dissolved Solids	2710	mg/L	50.0	50.0	1		06/28/16 16:57		
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9034 Sulfide Water

Analytical Method: EPA 9034

Sulfide	10.0 U	mg/L	10.0	10.0	10		06/28/16 11:50	18496-25-8	D3
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0

Chloride	17.2	mg/L	10.0	5.0	2		07/01/16 18:07	16887-00-6	
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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: MW-31B		Lab ID: 35251015002		Collected: 06/23/16 12:50		Received: 06/23/16 16:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia									
		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.35	mg/L	0.050	0.020	1		06/29/16 12:09	7664-41-7	
353.2 Nitrogen, NO2/NO3 unpres									
		Analytical Method: EPA 353.2							
Nitrogen, Nitrate	0.025 U	mg/L	0.050	0.025	1		06/25/16 07:30		
9012 Cyanide, Total									
		Analytical Method: EPA 9012 Preparation Method: EPA 9012							
Cyanide	0.0020 U	mg/L	0.010	0.0020	1	07/07/16 11:20	07/07/16 17:11	57-12-5	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: Trip Blank 1 **Lab ID:** 35251015003 **Collected:** 06/23/16 11:10 **Received:** 06/23/16 16:25 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:17	67-64-1	
Acetonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	75-05-8	
Acrolein	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:17	107-02-8	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	107-13-1	
Allyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	107-05-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		07/03/16 03:17	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		07/03/16 03:17	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		07/03/16 03:17	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	75-15-0	L3
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 03:17	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		07/03/16 03:17	74-87-3	
Chloroprene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	126-99-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		07/03/16 03:17	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	74-95-3	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	110-57-6	J(L2)
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	78-87-5	
1,3-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	142-28-9	
2,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	594-20-7	
1,1-Dichloropropene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	563-58-6	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 03:17	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 03:17	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	100-41-4	
Ethyl methacrylate	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	97-63-2	
Hexachloro-1,3-butadiene	0.40 U	ug/L	1.0	0.40	1		07/03/16 03:17	87-68-3	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 03:17	74-88-4	
Isobutyl Alcohol	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:17	78-83-1	
Methacrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	126-98-7	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		07/03/16 03:17	75-09-2	
Methyl methacrylate	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	80-62-6	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	108-10-1	
Propionitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:17	107-12-0	
Styrene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	630-20-6	

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: Trip Blank 1 **Lab ID:** 35251015003 **Collected:** 06/23/16 11:10 **Received:** 06/23/16 16:25 **Matrix:** Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		07/03/16 03:17	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	127-18-4	L3
Toluene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	108-88-3	
1,2,4-Trichlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	120-82-1	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		07/03/16 03:17	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		07/03/16 03:17	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:17	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		07/03/16 03:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-114		1		07/03/16 03:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	86-125		1		07/03/16 03:17	17060-07-0	
Toluene-d8 (S)	102	%	87-113		1		07/03/16 03:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: Trip Blank 2 **Lab ID: 35251015004** Collected: 06/23/16 11:10 Received: 06/23/16 16:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:43	67-64-1	
Acetonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	75-05-8	
Acrolein	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:43	107-02-8	
Acrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	107-13-1	
Allyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	107-05-1	
Benzene	0.10 U	ug/L	1.0	0.10	1		07/03/16 03:43	71-43-2	
Bromochloromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	74-97-5	
Bromodichloromethane	0.27 U	ug/L	0.60	0.27	1		07/03/16 03:43	75-27-4	
Bromoform	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-25-2	
Bromomethane	0.50 U	ug/L	5.0	0.50	1		07/03/16 03:43	74-83-9	
2-Butanone (MEK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	78-93-3	
Carbon disulfide	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	75-15-0	L3
Carbon tetrachloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	56-23-5	
Chlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	108-90-7	
Chloroethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 03:43	75-00-3	
Chloroform	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	67-66-3	
Chloromethane	0.62 U	ug/L	1.0	0.62	1		07/03/16 03:43	74-87-3	
Chloroprene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	126-99-8	
Dibromochloromethane	0.26 U	ug/L	0.50	0.26	1		07/03/16 03:43	124-48-1	
Dibromomethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	74-95-3	
trans-1,4-Dichloro-2-butene	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	110-57-6	J(L2)
Dichlorodifluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-71-8	
1,1-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-34-3	
1,2-Dichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	107-06-2	
1,1-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-35-4	
cis-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	156-59-2	
trans-1,2-Dichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	156-60-5	
1,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	78-87-5	
1,3-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	142-28-9	
2,2-Dichloropropane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	594-20-7	
1,1-Dichloropropene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	563-58-6	
cis-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 03:43	10061-01-5	
trans-1,3-Dichloropropene	0.25 U	ug/L	0.50	0.25	1		07/03/16 03:43	10061-02-6	
Ethylbenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	100-41-4	
Ethyl methacrylate	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	97-63-2	
Hexachloro-1,3-butadiene	0.40 U	ug/L	1.0	0.40	1		07/03/16 03:43	87-68-3	
2-Hexanone	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	591-78-6	
Iodomethane	0.50 U	ug/L	10.0	0.50	1		07/03/16 03:43	74-88-4	
Isobutyl Alcohol	10.0 U	ug/L	20.0	10.0	1		07/03/16 03:43	78-83-1	
Methacrylonitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	126-98-7	
Methylene Chloride	2.5 U	ug/L	5.0	2.5	1		07/03/16 03:43	75-09-2	
Methyl methacrylate	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	80-62-6	
4-Methyl-2-pentanone (MIBK)	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	108-10-1	
Propionitrile	5.0 U	ug/L	10.0	5.0	1		07/03/16 03:43	107-12-0	
Styrene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	100-42-5	
1,1,1,2-Tetrachloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JED
Pace Project No.: 35251015

Sample: Trip Blank 2		Lab ID: 35251015004		Collected: 06/23/16 11:10		Received: 06/23/16 16:25		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	0.12 U	ug/L	0.50	0.12	1		07/03/16 03:43	79-34-5	
Tetrachloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	127-18-4	L3
Toluene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	108-88-3	
1,2,4-Trichlorobenzene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	120-82-1	
1,1,1-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	71-55-6	
1,1,2-Trichloroethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	79-00-5	
Trichloroethene	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	79-01-6	
Trichlorofluoromethane	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-69-4	
1,2,3-Trichloropropane	0.59 U	ug/L	1.0	0.59	1		07/03/16 03:43	96-18-4	
Vinyl acetate	1.0 U	ug/L	2.0	1.0	1		07/03/16 03:43	108-05-4	
Vinyl chloride	0.50 U	ug/L	1.0	0.50	1		07/03/16 03:43	75-01-4	
Xylene (Total)	1.5 U	ug/L	3.0	1.5	1		07/03/16 03:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-114		1		07/03/16 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	86-125		1		07/03/16 03:43	17060-07-0	
Toluene-d8 (S)	100	%	87-113		1		07/03/16 03:43	2037-26-5	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 306859 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1626082 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.10 U	0.20	0.10	07/05/16 16:03	

LABORATORY CONTROL SAMPLE: 1626083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1626084 1626085

Parameter	Units	35251015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.10 U	2	2	1.8	1.8	88	88	75-125	1	20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305320 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1617369 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	ug/L	5.0 U	10.0	5.0	06/25/16 10:57	
Beryllium	ug/L	0.50 U	1.0	0.50	06/25/16 10:57	
Cadmium	ug/L	0.50 U	1.0	0.50	06/25/16 10:57	
Chromium	ug/L	2.5 U	5.0	2.5	06/25/16 10:57	
Cobalt	ug/L	5.0 U	10.0	5.0	06/25/16 10:57	
Copper	ug/L	2.5 U	5.0	2.5	06/25/16 10:57	
Iron	ug/L	20.0 U	40.0	20.0	06/25/16 10:57	
Lead	ug/L	5.0 U	10.0	5.0	06/25/16 10:57	
Nickel	ug/L	2.5 U	5.0	2.5	06/25/16 10:57	
Selenium	ug/L	7.5 U	15.0	7.5	06/25/16 10:57	
Silver	ug/L	2.5 U	5.0	2.5	06/25/16 10:57	
Sodium	ug/L	500 U	1000	500	06/25/16 10:57	
Tin	ug/L	25.0 U	50.0	25.0	06/25/16 10:57	
Vanadium	ug/L	5.0 U	10.0	5.0	06/25/16 10:57	
Zinc	ug/L	10.0 U	20.0	10.0	06/25/16 10:57	

LABORATORY CONTROL SAMPLE: 1617370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	250	249	100	80-120	
Beryllium	ug/L	25	25.6	102	80-120	
Cadmium	ug/L	25	25.8	103	80-120	
Chromium	ug/L	250	256	102	80-120	
Cobalt	ug/L	250	258	103	80-120	
Copper	ug/L	250	242	97	80-120	
Iron	ug/L	2500	2510	100	80-120	
Lead	ug/L	250	262	105	80-120	
Nickel	ug/L	250	259	103	80-120	
Selenium	ug/L	250	261	105	80-120	
Silver	ug/L	25	25.5	102	80-120	
Sodium	ug/L	12500	13200	105	80-120	
Tin	ug/L	1250	1300	104	80-120	
Vanadium	ug/L	250	247	99	80-120	
Zinc	ug/L	1250	1280	102	80-120	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617371 1617372											
Parameter	Units	35250614001		MS		MSD		MS		MSD	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Barium	ug/L	39.8	250	250	292	293	101	101	75-125	0	20
Beryllium	ug/L	<0.50	25	25	25.3	25.2	100	100	75-125	0	20
Cadmium	ug/L	<0.50	25	25	25.5	25.8	102	103	75-125	1	20
Chromium	ug/L	2.5 I	250	250	255	257	101	102	75-125	1	20
Cobalt	ug/L	<5.0	250	250	255	257	102	103	75-125	1	20
Copper	ug/L	6.4	250	250	256	257	100	100	75-125	0	20
Iron	ug/L	164	2500	2500	2530	2500	95	93	75-125	1	20
Lead	ug/L	<5.0	250	250	255	258	102	103	75-125	1	20
Nickel	ug/L	<2.5	250	250	249	250	99	100	75-125	0	20
Selenium	ug/L	<7.5	250	250	195	186	77	73	75-125	5	20 J(M1)
Silver	ug/L	<2.5	25	25	26.0	25.5	104	102	75-125	2	20
Sodium	ug/L	101 mg/L	12500	12500	116000	116000	114	122	75-125	1	20
Tin	ug/L	<25.0	1250	1250	1290	1300	104	104	75-125	1	20
Vanadium	ug/L	<5.0	250	250	252	252	100	100	75-125	0	20
Zinc	ug/L	<10.0	1250	1250	1270	1270	101	101	75-125	0	20

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305321 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1617373 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.50 U	1.0	0.50	06/24/16 19:45	
Arsenic	ug/L	0.50 U	1.0	0.50	06/24/16 19:45	
Thallium	ug/L	0.50 U	1.0	0.50	06/24/16 19:45	

LABORATORY CONTROL SAMPLE: 1617374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	50	49.9	100	80-120	
Arsenic	ug/L	50	52.5	105	80-120	
Thallium	ug/L	50	51.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617375 1617376

Parameter	Units	35250614002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.50	50	50	50.0	50.6	100	101	75-125	1	20	
Arsenic	ug/L	<0.50	50	50	52.7	52.7	105	105	75-125	0	20	
Thallium	ug/L	<0.50	50	50	51.6	52.5	103	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch:	306770	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	35251015001		

METHOD BLANK:	1625448	Matrix:	Water
Associated Lab Samples:	35251015001		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	07/02/16 01:10	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,1-Dichloropropene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	07/02/16 01:10	
1,2,4-Trichlorobenzene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
1,3-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
2,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
2-Hexanone	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Acetone	ug/L	10.0 U	20.0	10.0	07/02/16 01:10	
Acetonitrile	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Acrolein	ug/L	10.0 U	20.0	10.0	07/02/16 01:10	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Allyl chloride	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Benzene	ug/L	0.10 U	1.0	0.10	07/02/16 01:10	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	07/02/16 01:10	
Bromoform	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Bromomethane	ug/L	0.50 U	5.0	0.50	07/02/16 01:10	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Chloroethane	ug/L	0.50 U	10.0	0.50	07/02/16 01:10	
Chloroform	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Chloromethane	ug/L	0.62 U	1.0	0.62	07/02/16 01:10	
Chloroprene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	07/02/16 01:10	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	07/02/16 01:10	
Dibromomethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Dichlorodifluoromethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Ethyl methacrylate	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Hexachloro-1,3-butadiene	ug/L	0.40 U	1.0	0.40	07/02/16 01:10	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

METHOD BLANK: 1625448

Matrix: Water

Associated Lab Samples: 35251015001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodomethane	ug/L	0.50 U	10.0	0.50	07/02/16 01:10	
Isobutyl Alcohol	ug/L	10.0 U	20.0	10.0	07/02/16 01:10	
Methacrylonitrile	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Methyl methacrylate	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	07/02/16 01:10	
Propionitrile	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Styrene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Toluene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	07/02/16 01:10	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	07/02/16 01:10	
Trichloroethene	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Vinyl acetate	ug/L	1.0 U	2.0	1.0	07/02/16 01:10	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	07/02/16 01:10	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	07/02/16 01:10	
1,2-Dichloroethane-d4 (S)	%	101	86-125		07/02/16 01:10	
4-Bromofluorobenzene (S)	%	102	70-114		07/02/16 01:10	
Toluene-d8 (S)	%	100	87-113		07/02/16 01:10	

LABORATORY CONTROL SAMPLE: 1625449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.9	105	70-130	
1,1,1-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.6	93	70-130	
1,1,2-Trichloroethane	ug/L	20	20.5	103	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethene	ug/L	20	18.8	94	70-130	
1,1-Dichloropropene	ug/L	20	17.9	89	70-130	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2,4-Trichlorobenzene	ug/L	20	20.1	101	70-130	
1,2-Dichloroethane	ug/L	20	19.9	99	70-130	
1,2-Dichloropropane	ug/L	20	19.5	98	70-130	
1,3-Dichloropropane	ug/L	20	19.8	99	70-130	
2,2-Dichloropropane	ug/L	20	17.2	86	70-131	
2-Butanone (MEK)	ug/L	40	37.9	95	55-167	
2-Hexanone	ug/L	40	39.6	99	65-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.3	93	70-130	
Acetone	ug/L	40	40.1	100	40-150	
Acetonitrile	ug/L	200	212	106	63-138	
Acrolein	ug/L	200	297	148	44-170	
Acrylonitrile	ug/L	200	209	105	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1625449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/L	20	26.0	130	70-130	
Benzene	ug/L	20	19.6	98	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	20.3	101	70-130	
Bromoform	ug/L	20	20.1	101	68-130	
Bromomethane	ug/L	20	21.1	106	38-179	
Carbon disulfide	ug/L	20	33.1	165	51-155	J(L0)
Carbon tetrachloride	ug/L	20	19.2	96	70-130	
Chlorobenzene	ug/L	20	21.1	105	70-130	
Chloroethane	ug/L	20	23.4	117	59-149	
Chloroform	ug/L	20	19.4	97	70-130	
Chloromethane	ug/L	20	22.5	113	68-130	
Chloroprene	ug/L	20	19.3	97	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Dibromochloromethane	ug/L	20	19.7	98	70-130	
Dibromomethane	ug/L	20	19.7	98	70-130	
Dichlorodifluoromethane	ug/L	20	20.5	102	67-130	
Ethyl methacrylate	ug/L	20	18.9	95	70-130	
Ethylbenzene	ug/L	20	20.5	102	70-130	
Hexachloro-1,3-butadiene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	40	45.8	115	43-160	
Isobutyl Alcohol	ug/L	400	350	88	66-135	
Methacrylonitrile	ug/L	200	201	100	70-130	
Methyl methacrylate	ug/L	20	17.8	89	70-130	
Methylene Chloride	ug/L	20	19.6	98	70-130	
Propionitrile	ug/L	200	195	97	70-130	
Styrene	ug/L	20	20.9	105	70-130	
Tetrachloroethene	ug/L	20	29.4	147	66-133	J(L0)
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.3	77	65-130	
Trichloroethene	ug/L	20	19.8	99	70-130	
Trichlorofluoromethane	ug/L	20	19.7	98	70-131	
Vinyl acetate	ug/L	20	16.8	84	69-135	
Vinyl chloride	ug/L	20	23.6	118	69-140	
Xylene (Total)	ug/L	60	60.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%			100	86-125	
4-Bromofluorobenzene (S)	%			104	70-114	
Toluene-d8 (S)	%			102	87-113	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE:		1626565	35251162001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.1	96	70-130		
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.4	92	70-130		
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	17.8	89	70-130		
1,1,2-Trichloroethane	ug/L	0.50 U	20	18.9	94	70-130		
1,1-Dichloroethane	ug/L	0.50 U	20	18.1	91	70-130		
1,1-Dichloroethene	ug/L	0.50 U	20	19.9	99	70-130		
1,1-Dichloropropene	ug/L	0.50 U	20	17.8	89	70-130		
1,2,3-Trichloropropane	ug/L	0.59 U	20	20.4	102	70-130		
1,2,4-Trichlorobenzene	ug/L	0.50 U	20	17.3	86	70-130		
1,2-Dichloroethane	ug/L	0.50 U	20	17.3	87	70-130		
1,2-Dichloropropane	ug/L	0.50 U	20	17.7	89	70-130		
1,3-Dichloropropane	ug/L	0.50 U	20	18.7	93	70-130		
2,2-Dichloropropane	ug/L	0.50 U	20	12.1	61	70-130	J(M1)	
2-Butanone (MEK)	ug/L	5.0 U	40	38.0	95	70-130		
2-Hexanone	ug/L	5.0 U	40	36.6	91	70-130		
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.4	94	70-130		
Acetone	ug/L	133	40	139	14	70-130	J(M1)	
Acetonitrile	ug/L	5.0 U	200	191	96	70-130		
Acrolein	ug/L	10.0 U	200	241	121	70-130		
Acrylonitrile	ug/L	5.0 U	200	178	89	70-130		
Allyl chloride	ug/L	0.50 U	20	23.4	117	70-130		
Benzene	ug/L	0.10 U	20	18.6	93	70-130		
Bromochloromethane	ug/L	0.50 U	20	19.6	98	70-130		
Bromodichloromethane	ug/L	0.27 U	20	18.5	93	70-130		
Bromoform	ug/L	0.50 U	20	18.6	93	70-130		
Bromomethane	ug/L	0.50 U	20	13.1	65	70-130	J(M1)	
Carbon disulfide	ug/L	5.0 U	20	34.0	169	70-130	J(M0)	
Carbon tetrachloride	ug/L	0.50 U	20	18.5	92	70-130		
Chlorobenzene	ug/L	0.50 U	20	19.2	96	70-130		
Chloroethane	ug/L	0.50 U	20	19.0	95	70-130		
Chloroform	ug/L	0.50 U	20	18.2	91	70-130		
Chloromethane	ug/L	1.6	20	17.0	77	70-130		
Chloroprene	ug/L	0.50 U	20	20.4	102	70-130		
cis-1,2-Dichloroethene	ug/L	1.7	20	19.7	90	70-130		
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.0	80	70-130		
Dibromochloromethane	ug/L	0.26 U	20	18.7	94	70-130		
Dibromomethane	ug/L	0.50 U	20	19.3	97	70-130		
Dichlorodifluoromethane	ug/L	0.50 U	20	10.8	54	70-130	J(M1)	
Ethyl methacrylate	ug/L	0.50 U	20	17.8	89	70-130		
Ethylbenzene	ug/L	0.50 U	20	19.2	96	70-130		
Hexachloro-1,3-butadiene	ug/L	0.40 U	20	18.2	91	70-130		
Iodomethane	ug/L	0.50 U	40	40.3	101	70-130		
Isobutyl Alcohol	ug/L	10.0 U	400	331	83	70-130		
Methacrylonitrile	ug/L	5.0 U	200	199	99	70-130		
Methyl methacrylate	ug/L	5.0 U	20	17.8	89	70-130		
Methylene Chloride	ug/L	2.5 U	20	17.6	88	70-130		
Propionitrile	ug/L	5.0 U	200	187	93	70-130		

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE: 1626565		35251162001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Styrene	ug/L	0.50 U	20	19.1	95	70-130	
Tetrachloroethene	ug/L	0.50 U	20	16.1	80	70-130	
Toluene	ug/L	0.50 U	20	18.8	93	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	18.0	90	70-130	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	7.4 I	37	70-130	J(M1)
Trichloroethene	ug/L	0.50 U	20	18.6	92	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	19.3	96	70-130	
Vinyl acetate	ug/L	1.0 U	20	17.5	87	70-130	
Vinyl chloride	ug/L	1.3	20	19.3	90	70-130	
Xylene (Total)	ug/L	1.5 U	60	56.6	94	70-130	
1,2-Dichloroethane-d4 (S)	%				100	86-125	
4-Bromofluorobenzene (S)	%				103	70-114	
Toluene-d8 (S)	%				98	87-113	

SAMPLE DUPLICATE: 1626564

Parameter	Units	35250964002	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50 U		40	
1,1,1-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	0.12 U		40	
1,1,2-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethene	ug/L	<0.50	0.50 U		40	
1,1-Dichloropropene	ug/L	<0.50	0.50 U		40	
1,2,3-Trichloropropane	ug/L	<0.59	0.59 U		40	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50 U		40	
1,2-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
1,3-Dichloropropane	ug/L	<0.50	0.50 U		40	
2,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
2-Butanone (MEK)	ug/L	<5.0	5.0 U		40	
2-Hexanone	ug/L	<5.0	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0 U		40	
Acetone	ug/L	10.4 I	10.0 U		40	
Acetonitrile	ug/L	<5.0	5.0 U		40	
Acrolein	ug/L	<10.0	10.0 U		40	
Acrylonitrile	ug/L	<5.0	5.0 U		40	
Allyl chloride	ug/L	<0.50	0.50 U		40	
Benzene	ug/L	<0.10	0.10 U		40	
Bromochloromethane	ug/L	<0.50	0.50 U		40	
Bromodichloromethane	ug/L	<0.27	0.27 U		40	
Bromoform	ug/L	<0.50	0.50 U		40	
Bromomethane	ug/L	<0.50	0.50 U		40	
Carbon disulfide	ug/L	<5.0	5.0 U		40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

SAMPLE DUPLICATE: 1626564

Parameter	Units	35250964002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/L	<0.50	0.50 U		40	
Chlorobenzene	ug/L	<0.50	0.50 U		40	
Chloroethane	ug/L	<0.50	0.50 U		40	
Chloroform	ug/L	0.59 I	0.64 I		40	
Chloromethane	ug/L	<0.62	0.62 U		40	
Chloroprene	ug/L	<0.50	0.50 U		40	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
Dibromochloromethane	ug/L	<0.26	0.26 U		40	
Dibromomethane	ug/L	<0.50	0.50 U		40	
Dichlorodifluoromethane	ug/L	<0.50	0.50 U		40	
Ethyl methacrylate	ug/L	<0.50	0.50 U		40	
Ethylbenzene	ug/L	<0.50	0.50 U		40	
Hexachloro-1,3-butadiene	ug/L	<0.40	0.40 U		40	
Iodomethane	ug/L	<0.50	0.50 U		40	
Isobutyl Alcohol	ug/L	<10.0	10.0 U		40	
Methacrylonitrile	ug/L	<5.0	5.0 U		40	
Methyl methacrylate	ug/L	<5.0	5.0 U		40	
Methylene Chloride	ug/L	<2.5	2.5 U		40	
Propionitrile	ug/L	<5.0	5.0 U		40	
Styrene	ug/L	<0.50	0.50 U		40	
Tetrachloroethene	ug/L	<0.50	0.50 U		40	
Toluene	ug/L	<0.50	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0 U		40	
Trichloroethene	ug/L	<0.50	0.50 U		40	
Trichlorofluoromethane	ug/L	<0.50	0.50 U		40	
Vinyl acetate	ug/L	<1.0	1.0 U		40	
Vinyl chloride	ug/L	<0.50	0.50 U		40	
Xylene (Total)	ug/L	<1.5	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	101	102	0	40	
4-Bromofluorobenzene (S)	%	102	101	1	40	
Toluene-d8 (S)	%	99	102	3	40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 306784 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 35251015002, 35251015003, 35251015004

METHOD BLANK: 1625565 Matrix: Water
Associated Lab Samples: 35251015002, 35251015003, 35251015004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,1,1-Trichloroethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	0.50	0.12	07/03/16 01:58	
1,1,2-Trichloroethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,1-Dichloroethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,1-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,1-Dichloropropene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,2,3-Trichloropropane	ug/L	0.59 U	1.0	0.59	07/03/16 01:58	
1,2,4-Trichlorobenzene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,2-Dichloroethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
1,3-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
2,2-Dichloropropane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
2-Butanone (MEK)	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
2-Hexanone	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Acetone	ug/L	10.0 U	20.0	10.0	07/03/16 01:58	
Acetonitrile	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Acrolein	ug/L	10.0 U	20.0	10.0	07/03/16 01:58	
Acrylonitrile	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Allyl chloride	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Benzene	ug/L	0.10 U	1.0	0.10	07/03/16 01:58	
Bromochloromethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Bromodichloromethane	ug/L	0.27 U	0.60	0.27	07/03/16 01:58	
Bromoform	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Bromomethane	ug/L	0.50 U	5.0	0.50	07/03/16 01:58	
Carbon disulfide	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Carbon tetrachloride	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Chlorobenzene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Chloroethane	ug/L	0.50 U	10.0	0.50	07/03/16 01:58	
Chloroform	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Chloromethane	ug/L	0.62 U	1.0	0.62	07/03/16 01:58	
Chloroprene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
cis-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
cis-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	07/03/16 01:58	
Dibromochloromethane	ug/L	0.26 U	0.50	0.26	07/03/16 01:58	
Dibromomethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Dichlorodifluoromethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Ethyl methacrylate	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Ethylbenzene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Hexachloro-1,3-butadiene	ug/L	0.40 U	1.0	0.40	07/03/16 01:58	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

METHOD BLANK: 1625565 Matrix: Water
Associated Lab Samples: 35251015002, 35251015003, 35251015004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodomethane	ug/L	0.50 U	10.0	0.50	07/03/16 01:58	
Isobutyl Alcohol	ug/L	10.0 U	20.0	10.0	07/03/16 01:58	
Methacrylonitrile	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Methyl methacrylate	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Methylene Chloride	ug/L	2.5 U	5.0	2.5	07/03/16 01:58	
Propionitrile	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Styrene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Tetrachloroethene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Toluene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
trans-1,2-Dichloroethene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
trans-1,3-Dichloropropene	ug/L	0.25 U	0.50	0.25	07/03/16 01:58	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	10.0	5.0	07/03/16 01:58	
Trichloroethene	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Trichlorofluoromethane	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Vinyl acetate	ug/L	1.0 U	2.0	1.0	07/03/16 01:58	
Vinyl chloride	ug/L	0.50 U	1.0	0.50	07/03/16 01:58	
Xylene (Total)	ug/L	1.5 U	3.0	1.5	07/03/16 01:58	
1,2-Dichloroethane-d4 (S)	%	101	86-125		07/03/16 01:58	
4-Bromofluorobenzene (S)	%	103	70-114		07/03/16 01:58	
Toluene-d8 (S)	%	101	87-113		07/03/16 01:58	

LABORATORY CONTROL SAMPLE: 1625566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.7	108	70-130	
1,1,1-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	18.9	94	70-130	
1,1-Dichloroethene	ug/L	20	20.9	105	70-130	
1,1-Dichloropropene	ug/L	20	19.0	95	70-130	
1,2,3-Trichloropropane	ug/L	20	19.9	100	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	20	18.3	92	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,3-Dichloropropane	ug/L	20	19.6	98	70-130	
2,2-Dichloropropane	ug/L	20	16.4	82	70-131	
2-Butanone (MEK)	ug/L	40	36.6	92	55-167	
2-Hexanone	ug/L	40	37.4	93	65-130	
4-Methyl-2-pentanone (MIBK)	ug/L	40	38.5	96	70-130	
Acetone	ug/L	40	42.8	107	40-150	
Acetonitrile	ug/L	200	193	96	63-138	
Acrolein	ug/L	200	258	129	44-170	
Acrylonitrile	ug/L	200	186	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1625566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/L	20	26.0	130	70-130	
Benzene	ug/L	20	19.8	99	70-130	
Bromochloromethane	ug/L	20	20.3	102	70-130	
Bromodichloromethane	ug/L	20	20.5	102	70-130	
Bromoform	ug/L	20	20.1	101	68-130	
Bromomethane	ug/L	20	17.2	86	38-179	
Carbon disulfide	ug/L	20	34.1	170	51-155	J(L0)
Carbon tetrachloride	ug/L	20	19.4	97	70-130	
Chlorobenzene	ug/L	20	21.1	105	70-130	
Chloroethane	ug/L	20	24.2	121	59-149	
Chloroform	ug/L	20	19.4	97	70-130	
Chloromethane	ug/L	20	21.8	109	68-130	
Chloroprene	ug/L	20	19.9	99	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Dibromochloromethane	ug/L	20	20.7	103	70-130	
Dibromomethane	ug/L	20	20.1	100	70-130	
Dichlorodifluoromethane	ug/L	20	22.4	112	67-130	
Ethyl methacrylate	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
Hexachloro-1,3-butadiene	ug/L	20	18.1	91	70-130	
Iodomethane	ug/L	40	34.0	85	43-160	
Isobutyl Alcohol	ug/L	400	344	86	66-135	
Methacrylonitrile	ug/L	200	198	99	70-130	
Methyl methacrylate	ug/L	20	18.2	91	70-130	
Methylene Chloride	ug/L	20	19.0	95	70-130	
Propionitrile	ug/L	200	182	91	70-130	
Styrene	ug/L	20	21.3	106	70-130	
Tetrachloroethene	ug/L	20	27.7	139	66-133	J(L0)
Toluene	ug/L	20	20.7	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	12.3	62	65-130	J(L0)
Trichloroethene	ug/L	20	20.7	104	70-130	
Trichlorofluoromethane	ug/L	20	20.9	104	70-131	
Vinyl acetate	ug/L	20	18.6	93	69-135	
Vinyl chloride	ug/L	20	23.3	116	69-140	
Xylene (Total)	ug/L	60	62.3	104	70-130	
1,2-Dichloroethane-d4 (S)	%			97	86-125	
4-Bromofluorobenzene (S)	%			106	70-114	
Toluene-d8 (S)	%			101	87-113	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE:		1626794	35251756001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	20	19.5	97	70-130		
1,1,1-Trichloroethane	ug/L	0.50 U	20	18.4	92	70-130		
1,1,2,2-Tetrachloroethane	ug/L	0.12 U	20	18.4	92	70-130		
1,1,2-Trichloroethane	ug/L	0.50 U	20	17.8	89	70-130		
1,1-Dichloroethane	ug/L	0.50 U	20	18.3	91	70-130		
1,1-Dichloroethene	ug/L	0.50 U	20	19.3	96	70-130		
1,1-Dichloropropene	ug/L	0.50 U	20	18.1	91	70-130		
1,2,3-Trichloropropane	ug/L	0.59 U	20	20.3	102	70-130		
1,2,4-Trichlorobenzene	ug/L	0.50 U	20	15.6	78	70-130		
1,2-Dichloroethane	ug/L	0.50 U	20	19.0	95	70-130		
1,2-Dichloropropane	ug/L	0.50 U	20	18.4	92	70-130		
1,3-Dichloropropane	ug/L	0.50 U	20	18.1	91	70-130		
2,2-Dichloropropane	ug/L	0.50 U	20	10.5	52	70-130	J(M1)	
2-Butanone (MEK)	ug/L	5.0 U	40	36.4	91	70-130		
2-Hexanone	ug/L	5.0 U	40	38.4	96	70-130		
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	37.9	95	70-130		
Acetone	ug/L	25.7	40	69.9	110	70-130		
Acetonitrile	ug/L	5.0 U	200	184	92	70-130		
Acrolein	ug/L	10.0 U	200	190	95	70-130		
Acrylonitrile	ug/L	5.0 U	200	191	95	70-130		
Allyl chloride	ug/L	0.50 U	20	25.4	127	70-130		
Benzene	ug/L	0.45 I	20	19.6	96	70-130		
Bromochloromethane	ug/L	0.50 U	20	18.3	91	70-130		
Bromodichloromethane	ug/L	0.27 U	20	19.6	98	70-130		
Bromoform	ug/L	0.50 U	20	19.5	98	70-130		
Bromomethane	ug/L	0.50 U	20	17.1	85	70-130		
Carbon disulfide	ug/L	5.0 U	20	34.8	173	70-130	J(M0)	
Carbon tetrachloride	ug/L	0.50 U	20	19.7	98	70-130		
Chlorobenzene	ug/L	3.8	20	22.9	96	70-130		
Chloroethane	ug/L	0.50 U	20	23.9	119	70-130		
Chloroform	ug/L	0.50 U	20	18.5	93	70-130		
Chloromethane	ug/L	0.62 U	20	19.1	95	70-130		
Chloroprene	ug/L	0.50 U	20	20.1	101	70-130		
cis-1,2-Dichloroethene	ug/L	0.50 U	20	17.6	88	70-130		
cis-1,3-Dichloropropene	ug/L	0.25 U	20	16.4	82	70-130		
Dibromochloromethane	ug/L	0.26 U	20	19.7	98	70-130		
Dibromomethane	ug/L	0.50 U	20	18.2	91	70-130		
Dichlorodifluoromethane	ug/L	0.50 U	20	7.9	40	70-130	J(M1)	
Ethyl methacrylate	ug/L	0.50 U	20	18.8	94	70-130		
Ethylbenzene	ug/L	0.50 U	20	19.5	97	70-130		
Hexachloro-1,3-butadiene	ug/L	0.40 U	20	15.4	77	70-130		
Iodomethane	ug/L	0.50 U	40	49.7	124	70-130		
Isobutyl Alcohol	ug/L	10.0 U	400	329	82	70-130		
Methacrylonitrile	ug/L	5.0 U	200	204	102	70-130		
Methyl methacrylate	ug/L	5.0 U	20	17.6	88	70-130		
Methylene Chloride	ug/L	2.5 U	20	17.4	87	70-130		
Propionitrile	ug/L	5.0 U	200	184	92	70-130		

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE: 1626794		35251756001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Styrene	ug/L	0.50 U	20	18.4	92	70-130	
Tetrachloroethene	ug/L	0.50 U	20	15.4	77	70-130	
Toluene	ug/L	0.50 U	20	19.1	95	70-130	
trans-1,2-Dichloroethene	ug/L	0.50 U	20	17.7	88	70-130	
trans-1,3-Dichloropropene	ug/L	0.25 U	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	8.0 I	40	70-130	J(M0)
Trichloroethene	ug/L	0.50 U	20	18.9	94	70-130	
Trichlorofluoromethane	ug/L	0.50 U	20	18.8	94	70-130	
Vinyl acetate	ug/L	1.0 U	20	13.8	69	70-130	J(M1)
Vinyl chloride	ug/L	0.50 U	20	19.0	95	70-130	
Xylene (Total)	ug/L	1.5 U	60	55.6	93	70-130	
1,2-Dichloroethane-d4 (S)	%				101	86-125	
4-Bromofluorobenzene (S)	%				100	70-114	
Toluene-d8 (S)	%				97	87-113	

SAMPLE DUPLICATE: 1626795

Parameter	Units	35252170002	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50 U		40	
1,1,1-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1,2,2-Tetrachloroethane	ug/L	<0.12	0.12 U		40	
1,1,2-Trichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,1-Dichloroethene	ug/L	<0.50	0.50 U		40	
1,1-Dichloropropene	ug/L	<0.50	0.50 U		40	
1,2,3-Trichloropropane	ug/L	<0.59	0.59 U		40	
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50 U		40	
1,2-Dichloroethane	ug/L	<0.50	0.50 U		40	
1,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
1,3-Dichloropropane	ug/L	<0.50	0.50 U		40	
2,2-Dichloropropane	ug/L	<0.50	0.50 U		40	
2-Butanone (MEK)	ug/L	<5.0	5.0 U		40	
2-Hexanone	ug/L	<5.0	5.0 U		40	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0 U		40	
Acetone	ug/L	<10.0	10.0 U		40	
Acetonitrile	ug/L	<5.0	5.0 U		40	
Acrolein	ug/L	<10.0	10.0 U		40	
Acrylonitrile	ug/L	<5.0	5.0 U		40	
Allyl chloride	ug/L	<0.50	0.50 U		40	
Benzene	ug/L	<0.10	0.10 U		40	
Bromochloromethane	ug/L	<0.50	0.50 U		40	
Bromodichloromethane	ug/L	<0.27	0.27 U		40	
Bromoform	ug/L	<0.50	0.50 U		40	
Bromomethane	ug/L	<0.50	0.50 U		40	
Carbon disulfide	ug/L	<5.0	5.0 U		40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

SAMPLE DUPLICATE: 1626795

Parameter	Units	35252170002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon tetrachloride	ug/L	<0.50	0.50 U		40	
Chlorobenzene	ug/L	<0.50	0.50 U		40	
Chloroethane	ug/L	<0.50	0.50 U		40	
Chloroform	ug/L	<0.50	0.50 U		40	
Chloromethane	ug/L	<0.62	0.62 U		40	
Chloroprene	ug/L	<0.50	0.50 U		40	
cis-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
cis-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
Dibromochloromethane	ug/L	<0.26	0.26 U		40	
Dibromomethane	ug/L	<0.50	0.50 U		40	
Dichlorodifluoromethane	ug/L	<0.50	0.50 U		40	
Ethyl methacrylate	ug/L	<0.50	0.50 U		40	
Ethylbenzene	ug/L	<0.50	0.50 U		40	
Hexachloro-1,3-butadiene	ug/L	<0.40	0.40 U		40	
Iodomethane	ug/L	<0.50	0.50 U		40	
Isobutyl Alcohol	ug/L	<10.0	10.0 U		40	
Methacrylonitrile	ug/L	<5.0	5.0 U		40	
Methyl methacrylate	ug/L	<5.0	5.0 U		40	
Methylene Chloride	ug/L	<2.5	2.5 U		40	
Propionitrile	ug/L	<5.0	5.0 U		40	
Styrene	ug/L	<0.50	0.50 U		40	
Tetrachloroethene	ug/L	<0.50	0.50 U		40	
Toluene	ug/L	<0.50	0.50 U		40	
trans-1,2-Dichloroethene	ug/L	<0.50	0.50 U		40	
trans-1,3-Dichloropropene	ug/L	<0.25	0.25 U		40	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	5.0 U		40	
Trichloroethene	ug/L	<0.50	0.50 U		40	
Trichlorofluoromethane	ug/L	<0.50	0.50 U		40	
Vinyl acetate	ug/L	<1.0	1.0 U		40	
Vinyl chloride	ug/L	<0.50	0.50 U		40	
Xylene (Total)	ug/L	<1.5	1.5 U		40	
1,2-Dichloroethane-d4 (S)	%	103	102	1	40	
4-Bromofluorobenzene (S)	%	98	100	2	40	
Toluene-d8 (S)	%	104	105	1	40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305261 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: 8011 EDB DBCP
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1617175 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0049 U	0.020	0.0049	06/25/16 08:40	
1,2-Dibromoethane (EDB)	ug/L	0.0075 U	0.010	0.0075	06/25/16 08:40	

LABORATORY CONTROL SAMPLE: 1617176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	102	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	92	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1618557 1618558

Parameter	Units	35251020001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	0.0050 U	.44	.44	0.43	0.46	99	105	60-140	6	40	
1,2-Dibromoethane (EDB)	ug/L	0.0077 U	.44	.44	0.39	0.40	90	91	60-140	1	40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305253 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1617159 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.0089 U	0.010	0.0089	06/24/16 09:56	
4,4'-DDE	ug/L	0.0050 U	0.010	0.0050	06/24/16 09:56	
4,4'-DDT	ug/L	0.0050 U	0.010	0.0050	06/24/16 09:56	
Aldrin	ug/L	0.0015 U	0.010	0.0015	06/24/16 09:56	
alpha-BHC	ug/L	0.0021 U	0.010	0.0021	06/24/16 09:56	
beta-BHC	ug/L	0.0080 U	0.010	0.0080	06/24/16 09:56	
Chlordane (Technical)	ug/L	0.18 U	0.50	0.18	06/24/16 09:56	
Chlorobenzilate	ug/L	0.039 U	0.10	0.039	06/24/16 09:56	
delta-BHC	ug/L	0.0048 U	0.010	0.0048	06/24/16 09:56	
Dieldrin	ug/L	0.0020 U	0.010	0.0020	06/24/16 09:56	
Endosulfan I	ug/L	0.0051 U	0.010	0.0051	06/24/16 09:56	
Endosulfan II	ug/L	0.0040 U	0.010	0.0040	06/24/16 09:56	
Endosulfan sulfate	ug/L	0.0062 U	0.10	0.0062	06/24/16 09:56	
Endrin	ug/L	0.0043 U	0.010	0.0043	06/24/16 09:56	
Endrin aldehyde	ug/L	0.0057 I	0.10	0.0036	06/24/16 09:56	
gamma-BHC (Lindane)	ug/L	0.0022 U	0.010	0.0022	06/24/16 09:56	
Heptachlor	ug/L	0.0062 U	0.010	0.0062	06/24/16 09:56	
Heptachlor epoxide	ug/L	0.0052 U	0.010	0.0052	06/24/16 09:56	
Methoxychlor	ug/L	0.0096 U	0.010	0.0096	06/24/16 09:56	
Pentachloronitrobenzene	ug/L	0.033 U	0.10	0.033	06/24/16 09:56	
Toxaphene	ug/L	0.25 U	0.50	0.25	06/24/16 09:56	
Decachlorobiphenyl (S)	%	68	10-132		06/24/16 09:56	
Tetrachloro-m-xylene (S)	%	76	27-124		06/24/16 09:56	

LABORATORY CONTROL SAMPLE: 1617160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	.5	0.46	91	67-133	
4,4'-DDE	ug/L	.5	0.34	67	59-125	
4,4'-DDT	ug/L	.5	0.41	83	54-132	
Aldrin	ug/L	.5	0.33	66	25-116	
alpha-BHC	ug/L	.5	0.38	76	53-126	
beta-BHC	ug/L	.5	0.42	84	62-130	
delta-BHC	ug/L	.5	0.41	83	35-122	
Dieldrin	ug/L	.5	0.46	92	66-128	
Endosulfan I	ug/L	.5	0.47	94	67-125	
Endosulfan II	ug/L	.5	0.48	96	67-131	
Endosulfan sulfate	ug/L	.5	0.50	100	62-127	
Endrin	ug/L	.5	0.46	93	66-130	
Endrin aldehyde	ug/L	.5	0.47	94	61-124	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1617160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	ug/L	.5	0.41	83	58-127	
Heptachlor	ug/L	.5	0.38	77	35-123	
Heptachlor epoxide	ug/L	.5	0.41	83	62-125	
Methoxychlor	ug/L	.5	0.55	110	59-135	
Decachlorobiphenyl (S)	%			59	10-132	
Tetrachloro-m-xylene (S)	%			77	27-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617465 1617466

Parameter	Units	35250803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	ug/L	0.0087 U	.5	.5	0.48	0.47	97	94	67-133	2	40	
4,4'-DDE	ug/L	0.0049 U	.5	.5	0.42	0.40	85	80	59-125	5	40	
4,4'-DDT	ug/L	0.0049 U	.5	.5	0.51	0.49	102	98	54-132	3	40	
Aldrin	ug/L	0.0015 U	.5	.5	0.34	0.33	70	66	25-116	4	40	
alpha-BHC	ug/L	0.0057 I	.5	.5	0.36	0.35	72	70	53-126	3	40	
beta-BHC	ug/L	0.34	.5	.5	0.73	0.74	79	80	62-130	1	40	
delta-BHC	ug/L	0.014	.5	.5	0.40	0.40	78	78	35-122	0	40	
Dieldrin	ug/L	0.031	.5	.5	0.48	0.46	90	86	66-128	4	40	
Endosulfan I	ug/L	0.0050 U	.5	.5	0.46	0.45	93	89	67-125	3	40	
Endosulfan II	ug/L	0.0039 U	.5	.5	0.50	0.49	101	99	67-131	2	40	
Endosulfan sulfate	ug/L	0.0061 U	.5	.5	0.49	0.48	100	97	62-127	2	40	
Endrin	ug/L	0.0042 U	.5	.5	0.49	0.48	98	97	66-130	1	40	
Endrin aldehyde	ug/L	0.0035 U	.5	.5	0.47	0.29	95	58	61-124	49	40	J(M1), J(R1)
gamma-BHC (Lindane)	ug/L	0.0076 I	.5	.5	0.40	0.40	78	78	58-127	0	40	
Heptachlor	ug/L	0.0061 U	.5	.5	0.37	0.37	74	74	35-123	0	40	
Heptachlor epoxide	ug/L	0.0094 I	.5	.5	0.41	0.40	81	78	62-125	3	40	
Methoxychlor	ug/L	0.0094 U	.5	.5	0.56	0.55	112	110	59-135	1	40	
Decachlorobiphenyl (S)	%						77	73	10-132			
Tetrachloro-m-xylene (S)	%						72	70	27-124			

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305254 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1617161 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	0.080 U	0.50	0.080	06/24/16 09:58	
PCB-1221 (Aroclor 1221)	ug/L	0.081 U	0.50	0.081	06/24/16 09:58	
PCB-1232 (Aroclor 1232)	ug/L	0.12 U	0.50	0.12	06/24/16 09:58	
PCB-1242 (Aroclor 1242)	ug/L	0.13 U	0.50	0.13	06/24/16 09:58	
PCB-1248 (Aroclor 1248)	ug/L	0.28 U	0.50	0.28	06/24/16 09:58	
PCB-1254 (Aroclor 1254)	ug/L	0.14 U	0.50	0.14	06/24/16 09:58	
PCB-1260 (Aroclor 1260)	ug/L	0.11 U	0.50	0.11	06/24/16 09:58	
Decachlorobiphenyl (S)	%	65	10-140		06/24/16 09:58	
Tetrachloro-m-xylene (S)	%	84	21-126		06/24/16 09:58	

LABORATORY CONTROL SAMPLE & LCSD: 1617162

Parameter	Units	1617464								Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	% Rec	RPD	RPD		
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.1	2.0	85	80	47-122	6	40		
PCB-1260 (Aroclor 1260)	ug/L	2.5	1.9	1.9	76	75	58-117	2	40		
Decachlorobiphenyl (S)	%				57	135	10-140				
Tetrachloro-m-xylene (S)	%				81	151	21-126				P2,S7

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 306530 Analysis Method: EPA 8141
QC Batch Method: EPA 3510 Analysis Description: 8141 GCS, O/P Pesticides
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1624145 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dimethoate	ug/L	0.24 U	0.50	0.24	07/01/16 14:45	
Disulfoton	ug/L	0.26 U	0.50	0.26	07/01/16 14:45	
Methyl parathion	ug/L	0.27 U	0.50	0.27	07/01/16 14:45	
Parathion (Ethyl parathion)	ug/L	0.47 U	1.0	0.47	07/01/16 14:45	
Phorate	ug/L	0.42 U	1.0	0.42	07/01/16 14:45	
4-Chloro3nitrobenzotrifluoride	%	30	12-127		07/01/16 14:45	

LABORATORY CONTROL SAMPLE & LCSD: 1624146

Parameter	Units	1624147								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Dimethoate	ug/L	2	1.1	0.94	53	47	19-110	12	40	
Disulfoton	ug/L	2	1.6	1.4	82	72	26-110	13	40	
Methyl parathion	ug/L	2	1.9	1.7	93	83	29-113	11	40	
Parathion (Ethyl parathion)	ug/L	4	3.6	3.3	90	82	28-116	10	40	
Phorate	ug/L	4	3.6	3.3	91	82	30-110	10	40	
4-Chloro3nitrobenzotrifluoride	%				61	56	12-127			

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305691 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151A GCS Herbicides
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1619674 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-T	ug/L	0.042 U	0.19	0.042	06/29/16 10:08	
2,4,5-TP (Silvex)	ug/L	0.049 U	0.19	0.049	06/29/16 10:08	
2,4-D	ug/L	0.22 U	0.94	0.22	06/29/16 10:08	
Dinoseb	ug/L	0.057 U	0.19	0.057	06/29/16 10:08	
Pentachlorophenol	ug/L	0.017 U	0.028	0.017	06/29/16 10:08	
2,4-DCAA (S)	%	80	39-139		06/29/16 10:08	

LABORATORY CONTROL SAMPLE & LCSD: 1619675

LABORATORY CONTROL SAMPLE & LCSD: 1619675			1619827							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4,5-T	ug/L	1.2	1.3	1.3	108	105	37-133	3	40	
2,4,5-TP (Silvex)	ug/L	1.2	1.1	1.2	93	99	53-134	7	40	
2,4-D	ug/L	6	5.3	5.4	88	91	35-124	4	40	
Dinoseb	ug/L	1.2	1.1	1.1	88	91	13-116	3	40	
Pentachlorophenol	ug/L	.18	0.20	0.20	109	113	39-170	3	40	
2,4-DCAA (S)	%				82	86	39-139		40	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 306310 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAHLV by SIM MSSV
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1622864 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	1.0 U	2.0	1.0	07/01/16 10:59	
Acenaphthene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Acenaphthylene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Anthracene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Benzo(a)anthracene	ug/L	0.025 U	0.10	0.025	07/01/16 10:59	
Benzo(a)pyrene	ug/L	0.025 U	0.10	0.025	07/01/16 10:59	
Benzo(b)fluoranthene	ug/L	0.025 U	0.10	0.025	07/01/16 10:59	
Benzo(g,h,i)perylene	ug/L	0.028 U	0.50	0.028	07/01/16 10:59	
Benzo(k)fluoranthene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Chrysene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Dibenz(a,h)anthracene	ug/L	0.025 U	0.10	0.025	07/01/16 10:59	
Fluoranthene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Fluorene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
Indeno(1,2,3-cd)pyrene	ug/L	0.025 U	0.10	0.025	07/01/16 10:59	
Naphthalene	ug/L	1.0 U	2.0	1.0	07/01/16 10:59	
Phenanthrene	ug/L	0.050 U	0.50	0.050	07/01/16 10:59	
Pyrene	ug/L	0.025 U	0.50	0.025	07/01/16 10:59	
2-Fluorobiphenyl (S)	%	55	33-101		07/01/16 10:59	
Terphenyl-d14 (S)	%	42	38-115		07/01/16 10:59	

LABORATORY CONTROL SAMPLE: 1622865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Methylnaphthalene	ug/L	5	2.5	51	34-104	
Acenaphthene	ug/L	5	2.8	56	38-109	
Acenaphthylene	ug/L	5	2.3	45	31-115	
Anthracene	ug/L	5	2.7	53	38-111	
Benzo(a)anthracene	ug/L	5	3.1	61	36-110	
Benzo(a)pyrene	ug/L	5	1.9	37	27-107	
Benzo(b)fluoranthene	ug/L	5	2.0	41	32-119	
Benzo(g,h,i)perylene	ug/L	5	1.0	20	10-109	
Benzo(k)fluoranthene	ug/L	5	3.4	69	28-118	
Chrysene	ug/L	5	4.0	81	33-130	
Dibenz(a,h)anthracene	ug/L	5	1.1	21	10-104	
Fluoranthene	ug/L	5	2.4	47	45-115	
Fluorene	ug/L	5	2.6	52	41-114	
Indeno(1,2,3-cd)pyrene	ug/L	5	1.3	26	10-104	
Naphthalene	ug/L	5	2.4	49	38-100	
Phenanthrene	ug/L	5	3.3	65	41-106	
Pyrene	ug/L	5	2.3	46	45-115	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1622865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%			59	33-101	
Terphenyl-d14 (S)	%			49	38-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623418 1623419

Parameter	Units	35251015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Methylnaphthalene	ug/L	1.0 U	5	5	3.8	3.8	76	76	34-104	0	40	
Acenaphthene	ug/L	0.025 U	5	5	3.9	3.9	78	78	38-109	1	40	
Acenaphthylene	ug/L	0.025 U	5	5	3.8	3.7	75	75	31-115	1	40	
Anthracene	ug/L	0.025 U	5	5	4.5	4.8	90	95	38-111	6	40	
Benzo(a)anthracene	ug/L	0.025 U	5	5	4.8	5.1	96	102	36-110	6	40	
Benzo(a)pyrene	ug/L	0.025 U	5	5	2.8	3.1	56	63	27-107	12	40	
Benzo(b)fluoranthene	ug/L	0.025 U	5	5	4.5	5.0	90	101	32-119	12	40	
Benzo(g,h,i)perylene	ug/L	0.028 U	5	5	3.2	3.7	63	74	10-109	16	40	
Benzo(k)fluoranthene	ug/L	0.025 U	5	5	4.0	4.2	81	84	28-118	5	40	
Chrysene	ug/L	0.025 U	5	5	4.7	4.9	95	99	33-130	4	40	
Dibenz(a,h)anthracene	ug/L	0.025 U	5	5	3.1	3.6	62	72	10-104	16	40	
Fluoranthene	ug/L	0.025 U	5	5	4.8	5.0	95	101	45-115	6	40	
Fluorene	ug/L	0.025 U	5	5	4.3	4.4	86	87	41-114	1	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.025 U	5	5	1.3	2.0	27	39	10-104	38	40	
Naphthalene	ug/L	1.0 U	5	5	3.3	3.3	65	66	38-100	1	40	
Phenanthrene	ug/L	0.050 U	5	5	4.6	4.8	92	96	41-106	4	40	
Pyrene	ug/L	0.025 U	5	5	4.4	4.7	89	95	45-115	6	40	
2-Fluorobiphenyl (S)	%						66	67	33-101			
Terphenyl-d14 (S)	%						77	83	38-115			

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 319369 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1769766 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
1,2-Dichlorobenzene	ug/L	1.2 U	10.0	1.2	07/01/16 14:46	
1,3,5-Trinitrobenzene	ug/L	1.1 U	10.0	1.1	07/01/16 14:46	
1,3-Dichlorobenzene	ug/L	1.1 U	10.0	1.1	07/01/16 14:46	
1,3-Dinitrobenzene	ug/L	1.5 U	20.0	1.5	07/01/16 14:46	
1,4-Dichlorobenzene	ug/L	1.2 U	10.0	1.2	07/01/16 14:46	
1,4-Naphthoquinone	ug/L	1.8 U	5.0	1.8	07/01/16 14:46	
1-Naphthalenamine	ug/L	0.96 U	5.0	0.96	07/01/16 14:46	
2,2'-Oxybis(1-chloropropane)	ug/L	1.6 U	10.0	1.6	07/01/16 14:46	
2,3,4,6-Tetrachlorophenol	ug/L	2.3 U	10.0	2.3	07/01/16 14:46	
2,4,5-Trichlorophenol	ug/L	2.2 U	10.0	2.2	07/01/16 14:46	
2,4,6-Trichlorophenol	ug/L	1.9 U	10.0	1.9	07/01/16 14:46	
2,4-Dichlorophenol	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
2,4-Dimethylphenol	ug/L	2.2 U	10.0	2.2	07/01/16 14:46	
2,4-Dinitrophenol	ug/L	6.5 U	50.0	6.5	07/01/16 14:46	
2,4-Dinitrotoluene	ug/L	1.2 U	10.0	1.2	07/01/16 14:46	
2,6-Dichlorophenol	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
2,6-Dinitrotoluene	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
2-Acetylaminofluorene	ug/L	0.84 U	20.0	0.84	07/01/16 14:46	
2-Chloronaphthalene	ug/L	2.2 U	10.0	2.2	07/01/16 14:46	
2-Chlorophenol	ug/L	1.5 U	10.0	1.5	07/01/16 14:46	
2-Methylphenol(o-Cresol)	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
2-Naphthalenamine	ug/L	0.98 U	5.0	0.98	07/01/16 14:46	
2-Nitroaniline	ug/L	2.8 U	50.0	2.8	07/01/16 14:46	
2-Nitrophenol	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
3&4-Methylphenol(m&p Cresol)	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
3,3'-Dichlorobenzidine	ug/L	1.4 U	20.0	1.4	07/01/16 14:46	
3,3'-Dimethylbenzidine	ug/L	2.1 U	10.0	2.1	07/01/16 14:46	
3-Methylcholanthrene	ug/L	0.82 U	10.0	0.82	07/01/16 14:46	
3-Nitroaniline	ug/L	2.4 U	50.0	2.4	07/01/16 14:46	
4,6-Dinitro-2-methylphenol	ug/L	1.7 U	20.0	1.7	07/01/16 14:46	
4-Aminobiphenyl	ug/L	0.92 U	10.0	0.92	07/01/16 14:46	
4-Bromophenylphenyl ether	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
4-Chloro-3-methylphenol	ug/L	4.2 U	20.0	4.2	07/01/16 14:46	
4-Chloroaniline	ug/L	3.4 U	20.0	3.4	07/01/16 14:46	
4-Chlorophenylphenyl ether	ug/L	2.1 U	10.0	2.1	07/01/16 14:46	
4-Nitroaniline	ug/L	2.5 U	20.0	2.5	07/01/16 14:46	
4-Nitrophenol	ug/L	5.8 U	50.0	5.8	07/01/16 14:46	
5-Nitro-o-toluidine	ug/L	1.2 U	10.0	1.2	07/01/16 14:46	
7,12-Dimethylbenz(a)anthracene	ug/L	0.77 U	10.0	0.77	07/01/16 14:46	
a,a-Dimethylphenylethylamine	ug/L	1.4 U	50.0	1.4	07/01/16 14:46	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

METHOD BLANK: 1769766

Matrix: Water

Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetophenone	ug/L	2.0 U	10.0	2.0	07/01/16 14:46	
Benzyl alcohol	ug/L	3.4 U	20.0	3.4	07/01/16 14:46	
bis(2-Chloroethoxy)methane	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
bis(2-Chloroethyl) ether	ug/L	1.5 U	10.0	1.5	07/01/16 14:46	
bis(2-Ethylhexyl)phthalate	ug/L	0.85 U	6.0	0.85	07/01/16 14:46	
Butylbenzylphthalate	ug/L	0.75 U	10.0	0.75	07/01/16 14:46	
Di-n-butylphthalate	ug/L	1.1 U	10.0	1.1	07/01/16 14:46	
Di-n-octylphthalate	ug/L	0.86 U	10.0	0.86	07/01/16 14:46	
Diallate	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
Dibenzofuran	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
Diethylphthalate	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
Dimethylphthalate	ug/L	1.5 U	10.0	1.5	07/01/16 14:46	
Diphenylamine	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
Ethyl methanesulfonate	ug/L	1.8 U	20.0	1.8	07/01/16 14:46	
Famphur	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
Hexachlorobenzene	ug/L	1.1 U	10.0	1.1	07/01/16 14:46	
Hexachlorocyclopentadiene	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
Hexachloroethane	ug/L	1.5 U	10.0	1.5	07/01/16 14:46	
Hexachlorophene	ug/L	11.5 U	100	11.5	07/01/16 14:46	
Hexachloropropene	ug/L	1.6 U	10.0	1.6	07/01/16 14:46	
Isodrin	ug/L	2.0 U	20.0	2.0	07/01/16 14:46	
Isophorone	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
Isosafrole	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
Kepone	ug/L	3.1 U	10.0	3.1	07/01/16 14:46	
Methapyrilene	ug/L	2.7 U	50.0	2.7	07/01/16 14:46	
Methyl methanesulfonate	ug/L	1.3 U	5.0	1.3	07/01/16 14:46	
N-Nitroso-di-n-butylamine	ug/L	2.2 U	10.0	2.2	07/01/16 14:46	
N-Nitroso-di-n-propylamine	ug/L	2.1 U	10.0	2.1	07/01/16 14:46	
N-Nitrosodiethylamine	ug/L	1.8 U	20.0	1.8	07/01/16 14:46	
N-Nitrosodimethylamine	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
N-Nitrosodiphenylamine	ug/L	1.3 U	10.0	1.3	07/01/16 14:46	
N-Nitrosomethylethylamine	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
N-Nitrosomorpholine	ug/L	2.5 U	10.0	2.5	07/01/16 14:46	
N-Nitrosopiperidine	ug/L	1.9 U	20.0	1.9	07/01/16 14:46	
N-Nitrosopyrrolidine	ug/L	2.5 U	10.0	2.5	07/01/16 14:46	
Nitrobenzene	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
O,O,O-Triethylphosphorothioate	ug/L	1.8 U	10.0	1.8	07/01/16 14:46	
O-Toluidine	ug/L	1.6 U	10.0	1.6	07/01/16 14:46	
P-Dimethylaminoazobenzene	ug/L	0.35 U	5.0	0.35	07/01/16 14:46	
p-Phenylenediamine	ug/L	0.96 U	10.0	0.96	07/01/16 14:46	
Pentachlorobenzene	ug/L	2.0 U	10.0	2.0	07/01/16 14:46	
Phenacetin	ug/L	0.97 U	20.0	0.97	07/01/16 14:46	
Phenol	ug/L	1.7 U	10.0	1.7	07/01/16 14:46	
Pronamide	ug/L	0.97 U	10.0	0.97	07/01/16 14:46	
Safrole	ug/L	1.5 U	10.0	1.5	07/01/16 14:46	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

METHOD BLANK: 1769766

Matrix: Water

Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Thionazin	ug/L	1.2 U	20.0	1.2	07/01/16 14:46	
2,4,6-Tribromophenol (S)	%	85	27-110		07/01/16 14:46	
2-Fluorobiphenyl (S)	%	70	27-110		07/01/16 14:46	
2-Fluorophenol (S)	%	43	12-110		07/01/16 14:46	
Nitrobenzene-d5 (S)	%	76	21-110		07/01/16 14:46	
Phenol-d6 (S)	%	32	10-110		07/01/16 14:46	
Terphenyl-d14 (S)	%	95	31-107		07/01/16 14:46	

LABORATORY CONTROL SAMPLE: 1769767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	50	36.3	73	16-129	
1,2-Dichlorobenzene	ug/L	50	29.4	59	38-120	
1,3,5-Trinitrobenzene	ug/L	50	34.7	69	55-125	
1,3-Dichlorobenzene	ug/L	50	28.9	58	30-122	
1,3-Dinitrobenzene	ug/L	50	39.4	79	30-122	
1,4-Dichlorobenzene	ug/L	50	28.4	57	37-120	
1,4-Naphthoquinone	ug/L	50	42.2	84	31-120	
1-Naphthalenamine	ug/L	50	28.3	57	37-126	
2,2'-Oxybis(1-chloropropane)	ug/L	50	38.1	76	18-120	
2,3,4,6-Tetrachlorophenol	ug/L	50	82.6	165	54-276	
2,4,5-Trichlorophenol	ug/L	50	43.3	87	43-113	
2,4,6-Trichlorophenol	ug/L	50	44.7	89	42-120	
2,4-Dichlorophenol	ug/L	50	41.5	83	30-120	
2,4-Dimethylphenol	ug/L	50	39.7	79	29-111	
2,4-Dinitrophenol	ug/L	250	119	47	19-132	
2,4-Dinitrotoluene	ug/L	50	43.8	88	58-128	
2,6-Dichlorophenol	ug/L	50	41.9	84	54-128	
2,6-Dinitrotoluene	ug/L	50	46.4	93	54-129	
2-Acetylaminofluorene	ug/L	50	53.0	106	81-160	
2-Chloronaphthalene	ug/L	50	45.1	90	43-117	
2-Chlorophenol	ug/L	50	36.8	74	37-120	
2-Methylphenol(o-Cresol)	ug/L	50	31.9	64	31-120	
2-Naphthalenamine	ug/L	50	38.8	78	41-136	
2-Nitroaniline	ug/L	100	83.8	84	48-121	
2-Nitrophenol	ug/L	50	43.1	86	25-116	
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.9	60	23-120	
3,3'-Dichlorobenzidine	ug/L	250	84.0	34	10-154	
3,3'-Dimethylbenzidine	ug/L	100	40.7	41	10-157	
3-Methylcholanthrene	ug/L	50	39.2	78	65-130	
3-Nitroaniline	ug/L	100	80.8	81	43-115	
4,6-Dinitro-2-methylphenol	ug/L	100	78.8	79	44-124	
4-Aminobiphenyl	ug/L	50	29.6	59	21-125	
4-Bromophenylphenyl ether	ug/L	50	44.5	89	34-113	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1769767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Chloro-3-methylphenol	ug/L	100	82.7	83	31-110	
4-Chloroaniline	ug/L	100	75.6	76	20-120	
4-Chlorophenylphenyl ether	ug/L	50	41.6	83	34-116	
4-Nitroaniline	ug/L	100	74.2	74	46-128	
4-Nitrophenol	ug/L	250	85.0	34	11-120	
5-Nitro-o-toluidine	ug/L	50	47.5	95	78-160	
7,12-Dimethylbenz(a)anthracene	ug/L	50	37.2	74	47-124	
Acetophenone	ug/L	50	42.8	86	24-120	
Benzyl alcohol	ug/L	100	77.4	77	27-120	
bis(2-Chloroethoxy)methane	ug/L	50	41.2	82	32-120	
bis(2-Chloroethyl) ether	ug/L	50	38.5	77	33-111	
bis(2-Ethylhexyl)phthalate	ug/L	50	53.6	107	50-145	
Butylbenzylphthalate	ug/L	50	52.9	106	54-138	
Di-n-butylphthalate	ug/L	50	48.3	97	56-125	
Di-n-octylphthalate	ug/L	50	52.8	106	50-134	
Diallylate	ug/L	50	41.7	83	47-123	
Dibenzofuran	ug/L	50	40.9	82	45-120	
Diethylphthalate	ug/L	50	43.4	87	53-120	
Dimethylphthalate	ug/L	50	42.3	85	55-116	
Diphenylamine	ug/L	50	39.7	79	42-120	
Ethyl methanesulfonate	ug/L	50	38.8	78	43-120	
Famphur	ug/L	100	72.5	72	40-160	
Hexachlorobenzene	ug/L	50	40.5	81	49-116	
Hexachlorocyclopentadiene	ug/L	50	23.7	47	26-158	
Hexachloroethane	ug/L	50	27.1	54	30-114	
Hexachlorophene	ug/L	500	278	56	10-130	
Hexachloropropene	ug/L	50	26.3	53	13-137	
Isodrin	ug/L	50	47.9	96	68-129	
Isophorone	ug/L	50	43.3	87	31-118	
Isosafrole	ug/L	50	42.0	84	48-107	
Kepone	ug/L	100	59.7	60	10-124	
Methapyrilene	ug/L	50	31.0	62	40-160	
Methyl methanesulfonate	ug/L	50	31.1	62	25-114	
N-Nitroso-di-n-butylamine	ug/L	50	37.1	74	36-115	
N-Nitroso-di-n-propylamine	ug/L	50	38.8	78	32-119	
N-Nitrosodiethylamine	ug/L	50	43.7	87	47-115	
N-Nitrosodimethylamine	ug/L	50	19.1	38	13-120	
N-Nitrosodiphenylamine	ug/L	50	39.7	79	43-120	
N-Nitrosomethylethylamine	ug/L	50	39.6	79	39-120	
N-Nitrosomorpholine	ug/L	50	37.7	75	40-126	
N-Nitrosopiperidine	ug/L	50	44.3	89	43-113	
N-Nitrosopyrrolidine	ug/L	50	37.4	75	32-110	
Nitrobenzene	ug/L	50	40.5	81	33-110	
O,O,O-Triethylphosphorothioate	ug/L	50	40.1	80	51-127	
O-Toluidine	ug/L	50	34.2	68	27-120	
P-Dimethylaminoazobenzene	ug/L	100	23.8	24	10-120	
p-Phenylenediamine	ug/L	50	43.3	87	72-143	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

LABORATORY CONTROL SAMPLE: 1769767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorobenzene	ug/L	50	38.4	77	30-137	
Phenacetin	ug/L	50	44.6	89	60-130	
Phenol	ug/L	50	19.7	39	10-120	
Pronamide	ug/L	50	44.4	89	75-124	
Safrole	ug/L	50	39.1	78	41-120	
Thionazin	ug/L	50	43.5	87	63-137	
2,4,6-Tribromophenol (S)	%			92	27-110	
2-Fluorobiphenyl (S)	%			76	27-110	
2-Fluorophenol (S)	%			46	12-110	
Nitrobenzene-d5 (S)	%			81	21-110	
Phenol-d6 (S)	%			34	10-110	
Terphenyl-d14 (S)	%			96	31-107	

MATRIX SPIKE SAMPLE: 1769768

Parameter	Units	92302889001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	ND	50	38.6	77	50-150	
1,2-Dichlorobenzene	ug/L	ND	50	34.7	69	10-110	
1,3,5-Trinitrobenzene	ug/L	ND	50	43.8	88	50-150	
1,3-Dichlorobenzene	ug/L	ND	50	34.0	68	10-110	
1,3-Dinitrobenzene	ug/L	ND	50	40.9	82	50-150	
1,4-Dichlorobenzene	ug/L	ND	50	33.8	68	10-110	
1,4-Naphthoquinone	ug/L	ND	50	43.7	87	50-150	
1-Naphthalenamine	ug/L	ND	50	22.6	45	50-150 J(M1)	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50	40.7	81	50-150	
2,3,4,6-Tetrachlorophenol	ug/L	ND	50	56.8	114	50-150	
2,4,5-Trichlorophenol	ug/L	ND	50	44.7	89	19-105	
2,4,6-Trichlorophenol	ug/L	ND	50	44.7	89	13-108	
2,4-Dichlorophenol	ug/L	ND	50	44.1	88	29-111	
2,4-Dimethylphenol	ug/L	ND	50	41.4	83	21-103	
2,4-Dinitrophenol	ug/L	ND	250	139	56	10-109	
2,4-Dinitrotoluene	ug/L	ND	50	45.2	79	27-104	
2,6-Dichlorophenol	ug/L	ND	50	43.2	86	50-150	
2,6-Dinitrotoluene	ug/L	ND	50	48.3	97	28-101	
2-Acetylaminofluorene	ug/L	ND	50	55.5	108	50-150	
2-Chloronaphthalene	ug/L	ND	50	44.8	90	14-102	
2-Chlorophenol	ug/L	ND	50	41.3	83	16-110	
2-Methylphenol(o-Cresol)	ug/L	ND	50	37.3	75	19-110	
2-Naphthalenamine	ug/L	ND	50	32.5	65	50-150	
2-Nitroaniline	ug/L	ND	100	83.7	84	26-103	
2-Nitrophenol	ug/L	ND	50	44.4	89	20-110	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	34.8	70	20-110	
3,3'-Dichlorobenzidine	ug/L	ND	250	83.8	33	25-112	
3,3'-Dimethylbenzidine	ug/L	ND	100	11.4	11	50-150 J(M1)	
3-Methylcholanthrene	ug/L	ND	50	40.9	79	50-150	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE:		1769768	92302889001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
3-Nitroaniline	ug/L	ND	100	80.9	81	29-110		
4,6-Dinitro-2-methylphenol	ug/L	ND	100	84.7	85	10-117		
4-Aminobiphenyl	ug/L	ND	50	21.2	42	50-150	J(M1)	
4-Bromophenylphenyl ether	ug/L	ND	50	3.1 I	1	20-105	J(M1)	
4-Chloro-3-methylphenol	ug/L	ND	100	89.5	90	22-110		
4-Chloroaniline	ug/L	ND	100	73.4	73	20-100		
4-Chlorophenylphenyl ether	ug/L	ND	50	42.4	85	19-102		
4-Nitroaniline	ug/L	ND	100	72.4	72	29-110		
4-Nitrophenol	ug/L	ND	250	115	45	10-110		
5-Nitro-o-toluidine	ug/L	ND	50	47.9	96	50-150		
7,12-Dimethylbenz(a)anthracene	ug/L	ND	50	38.3	74	50-150		
a,a-Dimethylphenylethylamine	ug/L	ND	50	1.4 U	0	50-150	J(M0)	
Acetophenone	ug/L	ND	50	46.3	93	50-150		
Benzyl alcohol	ug/L	ND	100	90.3	90	19-101		
bis(2-Chloroethoxy)methane	ug/L	ND	50	41.6	83	22-110		
bis(2-Chloroethyl) ether	ug/L	ND	50	43.5	87	16-110		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	53.8	104	23-102	J(M1)	
Butylbenzylphthalate	ug/L	ND	50	54.9	107	25-110		
Di-n-butylphthalate	ug/L	ND	50	48.4	97	26-110		
Di-n-octylphthalate	ug/L	ND	50	53.9	105	22-110		
Diallate	ug/L	ND	50	41.3	83	50-150		
Dibenzofuran	ug/L	ND	50	41.7	83	19-102		
Diethylphthalate	ug/L	ND	50	44.2	88	29-110		
Dimethylphthalate	ug/L	ND	50	43.0	86	27-110		
Diphenylamine	ug/L	ND	50	39.9	80	50-150		
Ethyl methanesulfonate	ug/L	ND	50	43.0	86	50-150		
Famphur	ug/L	ND	100	74.3	74	50-150		
Hexachlorobenzene	ug/L	ND	50	41.0	82	21-116		
Hexachlorocyclopentadiene	ug/L	ND	50	28.8	58	10-110		
Hexachloroethane	ug/L	ND	50	32.7	65	10-110		
Hexachlorophene	ug/L	ND	500	302	60	50-150		
Hexachloropropene	ug/L	ND	50	32.2	64	50-150		
Isodrin	ug/L	ND	50	48.2	96	50-150		
Isophorone	ug/L	ND	50	44.7	89	50-150		
Isosafrole	ug/L	ND	50	42.3	85	50-150		
Kepone	ug/L	ND	100	58.0	56	50-150		
Methapyrilene	ug/L	ND	50	7.6 I	15	50-150	J(M1)	
Methyl methanesulfonate	ug/L	ND	50	36.2	72	50-150		
N-Nitroso-di-n-butylamine	ug/L	ND	50	39.2	78	50-150		
N-Nitroso-di-n-propylamine	ug/L	ND	50	42.7	85	21-105		
N-Nitrosodiethylamine	ug/L	ND	50	47.4	95	50-150		
N-Nitrosodimethylamine	ug/L	ND	50	23.2	46	10-110		
N-Nitrosodiphenylamine	ug/L	ND	50	39.9	80	23-107		
N-Nitrosomethylethylamine	ug/L	ND	50	44.1	88	50-150		
N-Nitrosomorpholine	ug/L	ND	50	43.8	88	50-150		
N-Nitrosopiperidine	ug/L	ND	50	46.2	92	50-150		
N-Nitrosopyrrolidine	ug/L	ND	50	46.2	92	50-150		

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

MATRIX SPIKE SAMPLE: 1769768		92302889001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrobenzene	ug/L	ND	50	42.0	84	20-110	
O,O,O-Triethylphosphorothioate	ug/L	ND	50	41.0	82	50-150	
O-Toluidine	ug/L	ND	50	36.4	73	50-150	
P-Dimethylaminoazobenzene	ug/L	ND	100	24.3	24	50-150	J(M1)
p-Phenylenediamine	ug/L	ND	50	46.5	93	50-150	
Pentachlorobenzene	ug/L	ND	50	39.4	79	50-150	
Phenacetin	ug/L	ND	50	45.6	91	50-150	
Phenol	ug/L	ND	50	25.2	50	12-110	
Pronamide	ug/L	ND	50	44.1	88	50-150	
Safrole	ug/L	ND	50	41.8	84	50-150	
Thionazin	ug/L	ND	50	43.8	88	50-150	
2,4,6-Tribromophenol (S)	%				94	27-110	
2-Fluorobiphenyl (S)	%				76	27-110	
2-Fluorophenol (S)	%				55	12-110	
Nitrobenzene-d5 (S)	%				82	21-110	
Phenol-d6 (S)	%				44	10-110	
Terphenyl-d14 (S)	%				82	31-107	

SAMPLE DUPLICATE: 1769769

Parameter	Units	92302889002	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	1.7 U		30	
1,2-Dichlorobenzene	ug/L	ND	1.2 U		30	
1,3,5-Trinitrobenzene	ug/L	ND	1.1 U		30	
1,3-Dichlorobenzene	ug/L	ND	1.1 U		30	
1,3-Dinitrobenzene	ug/L	ND	1.5 U		30	
1,4-Dichlorobenzene	ug/L	ND	1.2 U		30	
1,4-Naphthoquinone	ug/L	ND	1.8 U		30	
1-Naphthalenamine	ug/L	ND	0.96 U		30	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	1.6 U		30	
2,3,4,6-Tetrachlorophenol	ug/L	ND	2.3 U		30	
2,4,5-Trichlorophenol	ug/L	ND	2.2 U		30	
2,4,6-Trichlorophenol	ug/L	ND	1.9 U		30	
2,4-Dichlorophenol	ug/L	ND	1.7 U		30	
2,4-Dimethylphenol	ug/L	ND	2.2 U		30	
2,4-Dinitrophenol	ug/L	ND	6.5 U		30	
2,4-Dinitrotoluene	ug/L	ND	1.2 U		30	
2,6-Dichlorophenol	ug/L	ND	1.8 U		30	
2,6-Dinitrotoluene	ug/L	ND	1.7 U		30	
2-Acetylaminofluorene	ug/L	ND	1.5 I		30	
2-Chloronaphthalene	ug/L	ND	2.2 U		30	
2-Chlorophenol	ug/L	ND	1.5 U		30	
2-Methylphenol(o-Cresol)	ug/L	ND	1.7 U		30	
2-Naphthalenamine	ug/L	ND	0.98 U		30	
2-Nitroaniline	ug/L	ND	2.8 U		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

SAMPLE DUPLICATE: 1769769

Parameter	Units	92302889002 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Nitrophenol	ug/L	ND	1.7 U		30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1.7 U		30	
3,3'-Dichlorobenzidine	ug/L	ND	2.0 I		30	
3,3'-Dimethylbenzidine	ug/L	ND	2.1 U		30	
3-Methylcholanthrene	ug/L	ND	1.2 I		30	
3-Nitroaniline	ug/L	ND	2.4 U		30	
4,6-Dinitro-2-methylphenol	ug/L	ND	1.7 U		30	
4-Aminobiphenyl	ug/L	ND	0.92 U		30	
4-Bromophenylphenyl ether	ug/L	ND	1.3 U		30	
4-Chloro-3-methylphenol	ug/L	ND	4.2 U		30	
4-Chloroaniline	ug/L	ND	3.4 U		30	
4-Chlorophenylphenyl ether	ug/L	ND	2.1 U		30	
4-Nitroaniline	ug/L	ND	2.5 U		30	
4-Nitrophenol	ug/L	ND	5.8 U		30	
5-Nitro-o-toluidine	ug/L	ND	1.2 U			
7,12-Dimethylbenz(a)anthracene	ug/L	ND	1.4 I		30	
a,a-Dimethylphenylethylamine	ug/L	ND	1.4 U		30	
Acetophenone	ug/L	ND	2.0 U		30	
Benzyl alcohol	ug/L	ND	3.4 U		30	
bis(2-Chloroethoxy)methane	ug/L	ND	1.7 U		30	
bis(2-Chloroethyl) ether	ug/L	ND	1.5 U		30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.7 I		30	
Butylbenzylphthalate	ug/L	ND	1.6 I		30	
Di-n-butylphthalate	ug/L	ND	1.1 U		30	
Di-n-octylphthalate	ug/L	ND	1.6 I		30	
Diallate	ug/L	ND	1.3 U		30	
Dibenzofuran	ug/L	ND	1.8 U		30	
Diethylphthalate	ug/L	ND	1.3 U		30	
Dimethylphthalate	ug/L	ND	1.5 U		30	
Diphenylamine	ug/L	ND	1.3 U		30	
Ethyl methanesulfonate	ug/L	ND	1.8 U		30	
Famphur	ug/L	ND	1.7 U		30	
Hexachlorobenzene	ug/L	ND	1.1 U		30	
Hexachlorocyclopentadiene	ug/L	ND	1.8 U		30	
Hexachloroethane	ug/L	ND	1.5 U		30	
Hexachlorophene	ug/L	ND	39.4 I		30	
Hexachloropropene	ug/L	ND	1.6 U		30	
Isodrin	ug/L	ND	2.0 U		30	
Isophorone	ug/L	ND	1.8 U		30	
Isosafrole	ug/L	ND	1.8 U		30	
Kepone	ug/L	ND	3.1 U		30	
Methapyrilene	ug/L	ND	2.7 U		30	
Methyl methanesulfonate	ug/L	ND	1.3 U		30	
N-Nitroso-di-n-butylamine	ug/L	ND	2.2 U		30	
N-Nitroso-di-n-propylamine	ug/L	ND	2.1 U		30	
N-Nitrosodiethylamine	ug/L	ND	1.8 U		30	
N-Nitrosodimethylamine	ug/L	ND	1.3 U		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

SAMPLE DUPLICATE: 1769769

Parameter	Units	92302889002 Result	Dup Result	RPD	Max RPD	Qualifiers
N-Nitrosodiphenylamine	ug/L	ND	1.3 U		30	
N-Nitrosomethylethylamine	ug/L	ND	1.8 U		30	
N-Nitrosomorpholine	ug/L	ND	2.5 U		30	
N-Nitrosopiperidine	ug/L	ND	1.9 U		30	
N-Nitrosopyrrolidine	ug/L	ND	2.5 U		30	
Nitrobenzene	ug/L	ND	1.7 U		30	
O,O,O-Triethylphosphorothioate	ug/L	ND	1.8 U		30	
O-Toluidine	ug/L	ND	1.6 U		30	
P-Dimethylaminoazobenzene	ug/L	ND	0.52 I		30	
p-Phenylenediamine	ug/L	ND	0.96 U		30	
Pentachlorobenzene	ug/L	ND	2.0 U		30	
Phenacetin	ug/L	ND	0.97 U		30	
Phenol	ug/L	ND	1.7 U		30	
Pronamide	ug/L	ND	0.97 U		30	
Safrole	ug/L	ND	1.5 U		30	
Thionazin	ug/L	ND	1.2 U		30	
2,4,6-Tribromophenol (S)	%	61	77	23		
2-Fluorobiphenyl (S)	%	51	66	26		
2-Fluorophenol (S)	%	32	38	16		
Nitrobenzene-d5 (S)	%	56	69	20		
Phenol-d6 (S)	%	25	30	18		
Terphenyl-d14 (S)	%	63	60	5		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch:	305407	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	35251015001		

METHOD BLANK: 1617793 Matrix: Water
Associated Lab Samples: 35251015001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/24/16 15:46	

LABORATORY CONTROL SAMPLE: 1617794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	90-110	

SAMPLE DUPLICATE: 1617795

Parameter	Units	35250870001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	204	211	3	5	

SAMPLE DUPLICATE: 1617796

Parameter	Units	35251010002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	272	2	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch:	305988	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	35251015002		

METHOD BLANK: 1621002 Matrix: Water
Associated Lab Samples: 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	06/28/16 16:50	

LABORATORY CONTROL SAMPLE: 1621003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	297	99	90-110	

SAMPLE DUPLICATE: 1621004

Parameter	Units	35251464001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	922	912	1	5	

SAMPLE DUPLICATE: 1621005

Parameter	Units	35251434003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	433	455	5	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305833 Analysis Method: EPA 9034
QC Batch Method: EPA 9034 Analysis Description: 9034 Sulfide Water
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1620347 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	1.0 U	1.0	1.0	06/28/16 11:50	

LABORATORY CONTROL SAMPLE: 1620348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	6	5.5	91	80-120	

MATRIX SPIKE SAMPLE: 1620350

Parameter	Units	35251015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	10.0 U	6	5.6	94	80-120	

SAMPLE DUPLICATE: 1620349

Parameter	Units	35251015001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	1.0 U	1.0 U		20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 306092 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1621710 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	06/29/16 07:09	

LABORATORY CONTROL SAMPLE: 1621711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621712 1621713

Parameter	Units	35251655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	27.0	50	50	77.9	79.8	102	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621714 1621715

Parameter	Units	35251661001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.5 U	50	50	48.9	49.0	98	98	90-110	0	20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch:	305888	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35251015001		

METHOD BLANK: 1620524 Matrix: Water
Associated Lab Samples: 35251015001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020 U	0.050	0.020	06/29/16 11:18	

LABORATORY CONTROL SAMPLE: 1620525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE SAMPLE: 1620527

Parameter	Units	35250840002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.56	1	1.6	103	90-110	

SAMPLE DUPLICATE: 1620526

Parameter	Units	35250840002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.56	0.58	4	20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch:	306168	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	35251015002		

METHOD BLANK: 1621944 Matrix: Water
Associated Lab Samples: 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020 U	0.050	0.020	06/29/16 11:59	

LABORATORY CONTROL SAMPLE: 1621945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	108	90-110	

MATRIX SPIKE SAMPLE: 1621947

Parameter	Units	35250896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.020 U	1	1.1	107	90-110	

SAMPLE DUPLICATE: 1621946

Parameter	Units	35250896001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.020 U	0.020 U		20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 305493 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1618743 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.050	0.025	06/25/16 07:23	

SAMPLE DUPLICATE: 1618745

Parameter	Units	35251005003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 1618747

Parameter	Units	35251154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.41	0.41	1	20	

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QUALITY CONTROL DATA

Project: JED
Pace Project No.: 35251015

QC Batch: 307458 Analysis Method: EPA 9012
QC Batch Method: EPA 9012 Analysis Description: 9012 Cyanide
Associated Lab Samples: 35251015001, 35251015002

METHOD BLANK: 1629217 Matrix: Water
Associated Lab Samples: 35251015001, 35251015002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	0.0020 U	0.010	0.0020	07/07/16 17:06	

LABORATORY CONTROL SAMPLE: 1629218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.048	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629219 1629220

Parameter	Units	35251015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0020 U	.025	.025	0.016	0.013	63	48	80-120	26	20	J(M1), J(R1)

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: JED
Pace Project No.: 35251015

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
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-C Pace Analytical Services - Charlotte
PASI-O Pace Analytical Services - Ormond Beach

BATCH QUALIFIERS

Batch: 305349
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U Compound was analyzed for but not detected.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J(L0) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
J(L2) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
J(M0) Estimated Value. Matrix spike recovery was outside laboratory control limits.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
J(R1) Estimated Value. RPD value was outside control limits.
J(S0) Estimated Value. Surrogate recovery outside laboratory control limits.
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.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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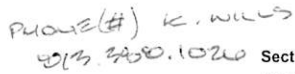
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JED
Pace Project No.: 35251015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35251015001	MW-31A	EPA 8011	305261	EPA 8011	305472
35251015002	MW-31B	EPA 8011	305261	EPA 8011	305472
35251015001	MW-31A	EPA 3510	305253	EPA 8081	305348
35251015002	MW-31B	EPA 3510	305253	EPA 8081	305348
35251015001	MW-31A	EPA 3510	305254	EPA 8082	305349
35251015002	MW-31B	EPA 3510	305254	EPA 8082	305349
35251015001	MW-31A	EPA 3510	306530	EPA 8141	307007
35251015002	MW-31B	EPA 3510	306530	EPA 8141	307007
35251015001	MW-31A	EPA 8151	305691	EPA 8151	306062
35251015002	MW-31B	EPA 8151	305691	EPA 8151	306062
35251015001	MW-31A	EPA 3010	305320	EPA 6010	305400
35251015002	MW-31B	EPA 3010	305320	EPA 6010	305400
35251015001	MW-31A	EPA 3010	305321	EPA 6020	305401
35251015002	MW-31B	EPA 3010	305321	EPA 6020	305401
35251015001	MW-31A	EPA 7470	306859	EPA 7470	306974
35251015002	MW-31B	EPA 7470	306859	EPA 7470	306974
35251015001	MW-31A	EPA 3510	306310	EPA 8270 by SIM	306556
35251015002	MW-31B	EPA 3510	306310	EPA 8270 by SIM	306556
35251015001	MW-31A	EPA 3510	319369	EPA 8270	319657
35251015002	MW-31B	EPA 3510	319369	EPA 8270	319657
35251015001	MW-31A	EPA 8260	306770		
35251015002	MW-31B	EPA 8260	306784		
35251015003	Trip Blank 1	EPA 8260	306784		
35251015004	Trip Blank 2	EPA 8260	306784		
35251015001	MW-31A	SM 2540C	305407		
35251015002	MW-31B	SM 2540C	305988		
35251015001	MW-31A	EPA 9034	305833		
35251015002	MW-31B	EPA 9034	305833		
35251015001	MW-31A	EPA 300.0	306092		
35251015002	MW-31B	EPA 300.0	306092		
35251015001	MW-31A	EPA 350.1	305888		
35251015002	MW-31B	EPA 350.1	306168		
35251015001	MW-31A	EPA 353.2	305493		
35251015002	MW-31B	EPA 353.2	305493		
35251015001	MW-31A	EPA 9012	307458	EPA 9012	307577
35251015002	MW-31B	EPA 9012	307458	EPA 9012	307577

REPORT OF LABORATORY ANALYSIS

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35251015

✓T. All relevant fields must be completed accurately.

Regulatory Agency
State / Location
FL

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Date (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				



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

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

Section B

Section C

Page : 2 Of 2

Required Project Information:

Invoice Information:

Company: Progressive Waste Solutions of Florida	Report To: Kirk Wills	Attention:
Address: 11457 C.R. 672	Copy To:	Company Name:
Riverview, FL 33579		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (941)748-5543	Project Name: JED	Pace Project Manager: mike.valder@pacelabs.com,
Fax:	Project #:	Pace Profile #:
Requested Due Date:		

	Regulatory Agency
	State / Location
	FL

[illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				



Document Name: Sample Condition Upon Receipt Form	Document Revised: December 28, 2015
Document No.: F-FL-C-007 rev. 07	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #

W0# : 35251015

Project Manager:

PM: MFV Due Date: 07/05/16

Client:

CLIENT: 37-PWSFL

Date and Initials of person examining contents: 8/23/16 CLG

Label: CLG

Deliver: CLG

pH: CLG

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground
Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Unknown
Tracking # _____ Cooler Size if Applicable: Lg

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____ Biological Tissue is Frozen: Yes No N/A
Thermometer Used TPA-14 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun
Cooler #1 Temperature°C 20.1 (Visual) 0 (Correction Factor) 20.1 (Actual)
Cooler #2 Temperature°C 18.1 (Visual) 0 (Correction Factor) 18.1 (Actual)
Cooler #3 Temperature°C 18.3 (Visual) 0 (Correction Factor) 18.3 (Actual)
Cooler #4 Temperature°C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #5 Temperature°C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #6 Temperature°C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Temp should be above freezing to 6°C

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Pace Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: VOA, Coliform, TOC, O&G	
No Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Coll. Times: MW-31A 10:50 MW-31B: 12:30
HNO3 pH<2
HCl pH<2
H2SO4 pH<2
NaOH pH>12
NaOH/ZnOAc pH>9

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____
Comments/ Resolution (use back for additional comments): _____

Trip Blanks in coolers w/ amber bottles. No trip blank in cooler with vials.

Project Manager Review:

Date:

Report Prepared for:

Mike Valder
PASI Florida
8 East Tower Circle
Ormond Beach FL 32174

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Prepared Date:

July 5, 2016

Report Information:

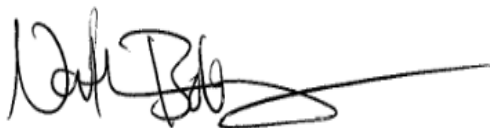
Pace Project #: 10353673
Sample Receipt Date: 06/28/2016
Client Project #: 35251015
Client Sub PO #: N/A
State Cert #: E87605

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nathan Boberg, your Pace Project Manager.

This report has been reviewed by:



July 05, 2016

Nathan Boberg, Project Manager

(612) 607-6444 (fax)
nathan.boberg@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on two samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recovery of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 58-93%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Values below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that PCDDs and PCDFs were not detected.

A laboratory spike sample was also prepared with the sample batch using reference material that had been fortified with native standards. The recoveries of the spiked native compounds ranged from 89-119%. These values were within method limits. Matrix spikes were prepared using a sample from a different project in this sample batch. Results are available upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

1

2 Piece

Owner Received Date: 6/23/2016 **Results Requested By:** 7/5/2016

Mike Valder
Pace Analytical Tampa
5480 Beaumont Center Blvd
Suite 520
Tampa, FL 33634


Pace Analytical Minnesota
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

[illegible]

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	WV Darcy	12/21/16	WV Darcy	17:00	6/28/16	Y	Y	N
2								
3								
Cooler Temperature on Receipt					4.0 °C			

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 04Apr2016 Page 1 of 1
	Document No.: F-MN-L-213-rev.16	Issuing Authority: Pace Minnesota Quality Office

Sample Condition
Upon Receipt

Client Name:

Pace-FL

Project #:

WO#: **10353673**



10353673

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☐ Pace ☐ SpeedDee ☐ Other: _____
Tracking Number: 6806 5218 7815

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____

Temp Blank? ☐ Yes ☒ No

Thermometer ☐ 151401163 ☒ B88A912167504
Used: ☐ 151401164 ☒ B88A0143310098

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.0 Cooler Temp Corrected (°C): 4.0

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Correction Factor: true

Date and Initials of Person Examining Contents: JS 6/28/16

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA,

Did samples originate from a foreign source (internationally,

MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?

☐ Yes ☐ No

including Hawaii and Puerto Rico)?

☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	Times on labels 001 1050 002 1230
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Sample #
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Initial when completed: Lot # of added preservative:
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: 6/28/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	MW-31A		
Lab Sample ID	35251015001		
Filename	U160702A_10		
Injected By	BAL		
Total Amount Extracted	854 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/23/2016 11:10
ICAL ID	U160204	Received	06/28/2016 10:00
CCal Filename(s)	U160701B_18 & U160702A_15	Extracted	06/29/2016 13:25
Method Blank ID	BLANK-50893	Analyzed	07/02/2016 13:38

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	2.00	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	----	2.00	2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	----	1.30	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	ND	----	1.30	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	ND	----	3.80	1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	----	2.20	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	----	3.00	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	----	3.90	1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	ND	----	3.90	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	93
1,2,3,4,7,8-HxCDF	ND	----	1.20	1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	----	0.62	OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	ND	----	0.99			
1,2,3,7,8,9-HxCDF	ND	----	0.91	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.93	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.30	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.95			
1,2,3,7,8,9-HxCDD	ND	----	0.66			
Total HxCDD	ND	----	0.96			
1,2,3,4,6,7,8-HpCDF	ND	----	0.47	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.30	Equivalence: 0.038 pg/L		
Total HpCDF	ND	----	0.39	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2.4	----	0.94 J			
Total HpCDD	2.4	----	0.94 J			
OCDF	ND	----	1.40			
OCDD	----	14	2.60 U			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

J = Estimated value

I = Interference present

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PASI Florida

Client's Sample ID	MW-31B		
Lab Sample ID	35251015002		
Filename	U160702A_11		
Injected By	BAL		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/23/2016 12:50
ICAL ID	U160204	Received	06/28/2016 10:00
CCal Filename(s)	U160701B_18 & U160702A_15	Extracted	06/29/2016 13:25
Method Blank ID	BLANK-50893	Analyzed	07/02/2016 14:22

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.89	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	----	0.89	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	----	2.10	2,3,4,7,8-PeCDF-13C	2.00	62
Total TCDD	9.1	----	2.10 J	1,2,3,7,8-PeCDD-13C	2.00	70
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	----	1.30	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	----	1.10	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	----	1.20	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	----	3.30	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	18.0	----	3.30 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	91
1,2,3,4,7,8-HxCDF	ND	----	0.64	1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	----	0.67	OCDD-13C	4.00	88
2,3,4,6,7,8-HxCDF	ND	----	0.50			
1,2,3,7,8,9-HxCDF	ND	----	0.31	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.53	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.60	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	----	1.20			
1,2,3,7,8,9-HxCDD	ND	----	1.60			
Total HxCDD	130.0	----	1.50			
1,2,3,4,6,7,8-HpCDF	ND	----	0.67	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.78	Equivalence: 1.5 pg/L		
Total HpCDF	ND	----	0.72	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	56.0	----	3.30			
Total HpCDD	230.0	----	3.30			
OCDF	ND	----	0.86			
OCDD	920.0	----	9.30			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

J = Estimated value

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-50893	Matrix	Water
Filename	U160701B_04	Dilution	NA
Total Amount Extracted	1050 mL	Extracted	06/29/2016 13:25
ICAL ID	U160204	Analyzed	07/01/2016 20:05
CCal Filename(s)	U160701B_01 & U160701B_18	Injected By	BAL

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.84	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	----	0.84	2,3,7,8-TCDD-13C	2.00	97
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	----	1.30	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	----	1.30	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	----	1.60	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	----	1.70	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	----	1.60	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	2.60	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	----	2.60	1,2,3,4,6,7,8-HpCDF-13C	2.00	78
				1,2,3,4,7,8,9-HpCDF-13C	2.00	88
1,2,3,4,7,8-HxCDF	ND	----	0.89	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	----	0.71	OCDD-13C	4.00	91
2,3,4,6,7,8-HxCDF	ND	----	0.81			
1,2,3,7,8,9-HxCDF	ND	----	0.81	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.80	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.10	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	ND	----	0.83			
1,2,3,7,8,9-HxCDD	ND	----	0.78			
Total HxCDD	ND	----	0.89			
1,2,3,4,6,7,8-HpCDF	ND	----	0.77	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.88	Equivalence: 0.015 pg/L		
Total HpCDF	ND	----	0.82	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	----	1.1	1.10 J			
Total HpCDD	ND	----	1.10			
OCDF	----	1.1	0.81 J			
OCDD	----	2.8	2.00 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

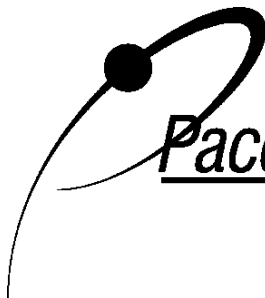
EDL = Estimated Detection Limit

J = Estimated value

I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-50894	Matrix	Water
Filename	U160701B_17	Dilution	NA
Total Amount Extracted	1030 mL	Extracted	06/29/2016 13:25
ICAL ID	U160204	Analyzed	07/02/2016 05:35
CCal Filename(s)	U160701B_01 & U160701B_18	Injected By	BAL
Method Blank ID	BLANK-50893		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	108	2,3,7,8-TCDF-13C	2.0	75
Total TCDF				2,3,7,8-TCDD-13C	2.0	83
				1,2,3,7,8-PeCDF-13C	2.0	68
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.0	63
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	73
				1,2,3,4,7,8-HxCDF-13C	2.0	68
1,2,3,7,8-PeCDF	1.0	1.0	103	1,2,3,6,7,8-HxCDF-13C	2.0	66
2,3,4,7,8-PeCDF	1.0	1.1	114	2,3,4,6,7,8-HxCDF-13C	2.0	71
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	74
				1,2,3,4,7,8-HxCDD-13C	2.0	73
1,2,3,7,8-PeCDD	1.0	0.96	96	1,2,3,6,7,8-HxCDD-13C	2.0	63
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	74
				1,2,3,4,7,8,9-HpCDF-13C	2.0	83
1,2,3,4,7,8-HxCDF	1.0	1.1	108	1,2,3,4,6,7,8-HpCDD-13C	2.0	78
1,2,3,6,7,8-HxCDF	1.0	1.1	110	OCDD-13C	4.0	84
2,3,4,6,7,8-HxCDF	1.0	1.1	105			
1,2,3,7,8,9-HxCDF	1.0	0.97	97	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.0	1.1	113			
1,2,3,7,8,9-HxCDD	1.0	1.2	119			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	108			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.1	114			
Total HpCDD						
OCDF	2.0	2.1	106			
OCDD	2.0	2.3	116			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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