

October 24, 2018

John Z. French
LDHH-OPH-Engineering Services
628 N. Fourth Street
Baton Rouge, LA 70821

RE: Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

Dear John French:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Bo Garcia
bo.garcia@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Parker Allen
Daniella Besse
Jeremy Harris
Spencer Hillyard
Sean Nolan



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
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
Kentucky Certification #: 90050
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
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

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SAMPLE SUMMARY

Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35424873001	LA1031007 7AJZ 1031007-011	Drinking Water	10/17/18 09:42	10/18/18 10:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35424873001	LA1031007 7AJZ 1031007-011	EPA 504.1	MMB	2	PASI-O
		EPA 508.1	LJM	20	PASI-O
		EPA 515.3	LJM	7	PASI-O
		EPA 525.2	NS1	7	PASI-O
		EPA 547	LAJ	1	PASI-O
		EPA 549.2	LAJ	1	PASI-O
		EPA 200.7	SC1	11	PASI-O
		EPA 200.8	KPP	8	PASI-O
		EPA 245.1	AMS	1	PASI-O
		EPA 548.1	LAJ	1	PASI-O
		EPA 524.2	JLR	24	PASI-O
		EPA 300.0	CMB	1	PASI-O
		EPA 335.4	JDW	1	PASI-O
		EPA 353.2	AMP	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Sample: LA1031007 7AJZ 1031007-011 **Lab ID:** 35424873001 Collected: 10/17/18 09:42 Received: 10/18/18 10:35 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.0061	ug/L	0.019	0.0061	1	10/22/18 13:29	10/22/18 20:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.0072	ug/L	0.0096	0.0072	1	10/22/18 13:29	10/22/18 20:04	106-93-4	
508.1 GCS Pesticides									
Analytical Method: EPA 508.1 Preparation Method: EPA 508.1									
Alachlor	<0.033	ug/L	0.19	0.033	1	10/19/18 15:47	10/23/18 08:09	15972-60-8	
gamma-BHC (Lindane)	<0.0029	ug/L	0.019	0.0029	1	10/19/18 15:47	10/23/18 08:09	58-89-9	
Chlordane (Technical)	<0.045	ug/L	0.19	0.045	1	10/19/18 15:47	10/23/18 08:09	57-74-9	
Endrin	<0.0067	ug/L	0.0096	0.0067	1	10/19/18 15:47	10/23/18 08:09	72-20-8	CU
Heptachlor	<0.011	ug/L	0.038	0.011	1	10/19/18 15:47	10/23/18 08:09	76-44-8	
Heptachlor epoxide	<0.0029	ug/L	0.019	0.0029	1	10/19/18 15:47	10/23/18 08:09	1024-57-3	
Hexachlorobenzene	<0.018	ug/L	0.096	0.018	1	10/19/18 15:47	10/23/18 08:09	118-74-1	
Hexachlorocyclopentadiene	<0.031	ug/L	0.096	0.031	1	10/19/18 15:47	10/23/18 08:09	77-47-4	
Methoxychlor	<0.086	ug/L	0.096	0.086	1	10/19/18 15:47	10/23/18 08:09	72-43-5	CU,L1
PCB-1016 (Aroclor 1016)	<0.077	ug/L	0.096	0.077	1	10/19/18 15:47	10/23/18 08:09	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.028	ug/L	0.096	0.028	1	10/19/18 15:47	10/23/18 08:09	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.028	ug/L	0.096	0.028	1	10/19/18 15:47	10/23/18 08:09	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.049	ug/L	0.096	0.049	1	10/19/18 15:47	10/23/18 08:09	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.059	ug/L	0.096	0.059	1	10/19/18 15:47	10/23/18 08:09	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.022	ug/L	0.096	0.022	1	10/19/18 15:47	10/23/18 08:09	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.063	ug/L	0.096	0.063	1	10/19/18 15:47	10/23/18 08:09	11096-82-5	
PCB, Total	<0.077	ug/L	0.096	0.077	1	10/19/18 15:47	10/23/18 08:09	1336-36-3	
Simazine	<0.066	ug/L	0.17	0.066	1	10/19/18 15:47	10/23/18 08:09	122-34-9	
Toxaphene	<0.58	ug/L	0.96	0.58	1	10/19/18 15:47	10/23/18 08:09	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	108	%	70-130		1	10/19/18 15:47	10/23/18 08:09	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.081	ug/L	0.10	0.081	1	10/22/18 08:48	10/23/18 02:22	94-75-7	
Dalapon	<0.89	ug/L	1.0	0.89	1	10/22/18 08:48	10/23/18 02:22	75-99-0	M1
Dinoseb	<0.16	ug/L	0.20	0.16	1	10/22/18 08:48	10/23/18 02:22	88-85-7	M1,R1
Pentachlorophenol	<0.030	ug/L	0.040	0.030	1	10/22/18 08:48	10/23/18 02:22	87-86-5	M1
Picloram	<0.094	ug/L	0.10	0.094	1	10/22/18 08:48	10/23/18 02:22	1918-02-1	
2,4,5-TP (Silvex)	<0.16	ug/L	0.20	0.16	1	10/22/18 08:48	10/23/18 02:22	93-72-1	R1
Surrogates									
2,4-DCAA (S)	56	%	70-130		1	10/22/18 08:48	10/23/18 02:22	19719-28-9	S2
525.2 Semi Volatile Compounds									
Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Atrazine	<0.076	ug/L	0.096	0.076	1	10/19/18 15:47	10/22/18 12:37	1912-24-9	
Benzo(a)pyrene	<0.012	ug/L	0.096	0.012	1	10/19/18 15:47	10/22/18 12:37	50-32-8	
bis(2-Ethylhexyl)adipate	<0.37	ug/L	1.5	0.37	1	10/19/18 15:47	10/22/18 12:37	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.48	ug/L	1.9	0.48	1	10/19/18 15:47	10/22/18 12:37	117-81-7	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	99	%	70-130		1	10/19/18 15:47	10/22/18 12:37	81209	
Perylene-d12 (S)	96	%	70-130		1	10/19/18 15:47	10/22/18 12:37	1520963	
Triphenylphosphate (S)	101	%	70-130		1	10/19/18 15:47	10/22/18 12:37	115-86-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

Sample: LA1031007 7AJZ 1031007-011 Lab ID: 35424873001 Collected: 10/17/18 09:42 Received: 10/18/18 10:35 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate Analytical Method: EPA 547									
Glyphosate	<4.2	ug/L	6.0	4.2	1		10/19/18 17:10		
549.2 HPLC Paraquat Diquat Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	<0.30	ug/L	0.40	0.30	1	10/19/18 13:01	10/22/18 15:23	85-00-7	
200.7 MET ICP, Drinking Water Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Barium	0.013	mg/L	0.010	0.0023	1	10/22/18 14:09	10/23/18 09:24	7440-39-3	
Beryllium	<0.00051	mg/L	0.0016	0.00051	1	10/22/18 14:09	10/23/18 09:24	7440-41-7	
Cadmium	<0.00096	mg/L	0.0030	0.00096	1	10/22/18 14:09	10/23/18 09:24	7440-43-9	
Chromium	<0.00081	mg/L	0.0060	0.00081	1	10/22/18 14:09	10/23/18 09:24	7440-47-3	
Iron	<0.039	mg/L	0.12	0.039	1	10/22/18 14:09	10/23/18 09:24	7439-89-6	
Manganese	0.0025J	mg/L	0.0050	0.0012	1	10/22/18 14:09	10/23/18 09:24	7439-96-5	
Nickel	<0.0020	mg/L	0.0080	0.0020	1	10/22/18 14:09	10/23/18 09:24	7440-02-0	
Potassium	0.93J	mg/L	1.0	0.27	1	10/22/18 14:09	10/23/18 09:24	7440-09-7	
Silver	<0.0015	mg/L	0.0050	0.0015	1	10/22/18 14:09	10/23/18 09:24	7440-22-4	
Sodium	196	mg/L	2.2	0.59	1	10/22/18 14:09	10/23/18 09:24	7440-23-5	M1
Zinc	<0.015	mg/L	0.050	0.015	1	10/22/18 14:09	10/23/18 09:24	7440-66-6	
200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Aluminum	0.0081J	mg/L	0.010	0.0072	1	10/22/18 14:12	10/23/18 13:59	7429-90-5	
Antimony	<0.00050	mg/L	0.0010	0.00050	1	10/22/18 14:12	10/23/18 13:59	7440-36-0	
Arsenic	0.00081J	mg/L	0.0010	0.00050	1	10/22/18 14:12	10/23/18 13:59	7440-38-2	
Copper	<0.00093	mg/L	0.0010	0.00093	1	10/22/18 14:12	10/23/18 13:59	7440-50-8	
Lead	<0.00064	mg/L	0.0010	0.00064	1	10/22/18 14:12	10/23/18 13:59	7439-92-1	
Selenium	<0.00083	mg/L	0.0010	0.00083	1	10/22/18 14:12	10/23/18 13:59	7782-49-2	
Thallium	<0.00050	mg/L	0.0010	0.00050	1	10/22/18 14:12	10/23/18 13:59	7440-28-0	
Uranium	<0.00050	mg/L	0.0010	0.00050	1	10/22/18 14:12	10/23/18 13:59	7440-61-1	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1									
Mercury	<0.40	ug/L	0.80	0.40	1	10/22/18 17:47	10/23/18 13:10	7439-97-6	
548.1 GCS Endothall Analytical Method: EPA 548.1 Preparation Method: EPA 548.1									
Endothall	<3.3	ug/L	9.0	3.3	1	10/22/18 08:34	10/22/18 21:39		
524.2 MSV Analytical Method: EPA 524.2									
Benzene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	71-43-2	
Carbon tetrachloride	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	56-23-5	
Chlorobenzene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	108-90-7	
1,2-Dichlorobenzene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	95-50-1	
1,4-Dichlorobenzene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	106-46-7	
1,2-Dichloroethane	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	107-06-2	
1,1-Dichloroethene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	75-35-4	
cis-1,2-Dichloroethene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	156-59-2	
trans-1,2-Dichloroethene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Sample: LA1031007 7AJZ 1031007-011 **Lab ID:** 35424873001 Collected: 10/17/18 09:42 Received: 10/18/18 10:35 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,2-Dichloropropane	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	78-87-5	
Ethylbenzene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	100-41-4	
Methylene Chloride	<0.44	ug/L	0.50	0.44	1		10/19/18 13:55	75-09-2	
Styrene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	100-42-5	
Tetrachloroethene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	127-18-4	
Toluene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	108-88-3	
1,2,4-Trichlorobenzene	<0.41	ug/L	0.50	0.41	1		10/19/18 13:55	120-82-1	
1,1,1-Trichloroethane	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	71-55-6	
1,1,2-Trichloroethane	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	79-00-5	
Trichloroethene	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	79-01-6	
Vinyl chloride	<0.39	ug/L	0.50	0.39	1		10/19/18 13:55	75-01-4	
Xylene (Total)	<0.25	ug/L	0.50	0.25	1		10/19/18 13:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/19/18 13:55	460-00-4	
Toluene-d8 (S)	97	%	70-130		1		10/19/18 13:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		10/19/18 13:55	17060-07-0	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.33	mg/L	0.050	0.034	1		10/19/18 16:28	16984-48-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4							
Cyanide	<0.0050	mg/L	0.010	0.0050	1	10/23/18 16:55	10/23/18 23:56	57-12-5	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	<0.025	mg/L	0.050	0.025	1		10/18/18 17:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 486941

Analysis Method: EPA 547

QC Batch Method: EPA 547

Analysis Description: 547 HPLC Glyphosate

Associated Lab Samples: 35424873001

METHOD BLANK: 2634535

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	ug/L	<4.2	6.0	4.2	10/19/18 16:39	

LABORATORY CONTROL SAMPLE: 2634536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	46.8	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634537 2634538

Parameter	Units	35424873001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<4.2	50	50	49.9	50.1	100	100	80-120	0	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634539 2634540

Parameter	Units	35424735003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<4.2	50	50	49.8	49.7	100	99	80-120	0	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487352 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 35424873001

METHOD BLANK: 2636872 Matrix: Water
 Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.10	0.20	0.10	10/23/18 12:55	

LABORATORY CONTROL SAMPLE: 2636873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	2.1	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636874 2636875

Parameter	Units	35423283001 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result	% Rec	% Rec					
Mercury	ug/L	0.00010U mg/L	2	2.0	2	2.0	100	101	70-130	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636876 2636877

Parameter	Units	92404025001 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result	% Rec	% Rec					
Mercury	ug/L	ND	2	2.2	2	2.2	108	108	70-130	1	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487395

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET Drinking Water

Associated Lab Samples: 35424873001

METHOD BLANK: 2637118

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	<0.00084	0.010	0.00084	10/23/18 08:55	
Beryllium	mg/L	<0.0016	0.0040	0.0016	10/23/18 08:55	
Cadmium	mg/L	<0.00033	0.0010	0.00033	10/23/18 08:55	
Chromium	mg/L	<0.0017	0.0050	0.0017	10/23/18 08:55	
Iron	mg/L	<0.0092	0.040	0.0092	10/23/18 08:55	
Manganese	mg/L	<0.00042	0.0050	0.00042	10/23/18 08:55	
Nickel	mg/L	<0.0021	0.0050	0.0021	10/23/18 08:55	
Potassium	mg/L	<0.15	1.0	0.15	10/23/18 08:55	
Silver	mg/L	<0.0010	0.0050	0.0010	10/23/18 08:55	
Sodium	mg/L	<0.27	2.0	0.27	10/23/18 08:55	
Zinc	mg/L	<0.011	0.020	0.011	10/23/18 08:55	

LABORATORY CONTROL SAMPLE: 2637119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	.25	0.23	93	85-115	
Beryllium	mg/L	.025	0.023	92	85-115	
Cadmium	mg/L	.025	0.024	95	85-115	
Chromium	mg/L	.25	0.24	95	85-115	
Iron	mg/L	2.5	2.4	94	85-115	
Manganese	mg/L	.25	0.24	96	85-115	
Nickel	mg/L	.25	0.24	96	85-115	
Potassium	mg/L	12.5	11.3	91	85-115	
Silver	mg/L	.025	0.023	91	85-115	
Sodium	mg/L	12.5	11.5	92	85-115	
Zinc	mg/L	1.2	1.2	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2637120

2637121

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35424873001 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.013	.25	.25	0.26	0.26	98	98	70-130	1	20
Beryllium	mg/L	<0.00051	.025	.025	0.024	0.024	97	97	70-130	0	20
Cadmium	mg/L	<0.00096	.025	.025	0.025	0.025	99	100	70-130	1	20
Chromium	mg/L	<0.00081	.25	.25	0.25	0.25	99	99	70-130	0	20
Iron	mg/L	<0.039	2.5	2.5	2.5	2.5	99	98	70-130	1	20
Manganese	mg/L	0.0025J	.25	.25	0.25	0.25	100	100	70-130	0	20
Nickel	mg/L	<0.0020	.25	.25	0.25	0.25	101	102	70-130	1	20

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Parameter	Units	2637120		2637121		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35424873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Potassium	mg/L	0.93J	12.5	12.5	13.8	13.8	103	103	70-130	0	20	
Silver	mg/L	<0.0015	.025	.025	0.024	0.024	97	98	70-130	0	20	
Sodium	mg/L	196	12.5	12.5	208	212	100	132	70-130	2	20	E,M1
Zinc	mg/L	<0.015	1.2	1.2	1.3	1.3	104	103	70-130	1	20	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

QC Batch: 487394 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Drinking Water
Associated Lab Samples: 35424873001

METHOD BLANK: 2637112 Matrix: Water
Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/L	<0.0072	0.010	0.0072	10/23/18 13:48	
Antimony	mg/L	<0.00050	0.0010	0.00050	10/23/18 13:48	
Arsenic	mg/L	<0.00050	0.0010	0.00050	10/23/18 13:48	
Copper	mg/L	<0.00093	0.0010	0.00093	10/23/18 13:48	
Lead	mg/L	<0.00064	0.0010	0.00064	10/23/18 13:48	
Selenium	mg/L	<0.00083	0.0010	0.00083	10/23/18 13:48	
Thallium	mg/L	<0.00050	0.0010	0.00050	10/23/18 13:48	
Uranium	mg/L	<0.00050	0.0010	0.00050	10/23/18 13:48	

LABORATORY CONTROL SAMPLE: 2637113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	.5	0.55	109	85-115	
Antimony	mg/L	.05	0.056	112	85-115	
Arsenic	mg/L	.05	0.051	101	85-115	
Copper	mg/L	.05	0.052	105	85-115	
Lead	mg/L	.05	0.052	104	85-115	
Selenium	mg/L	.05	0.051	101	85-115	
Thallium	mg/L	.05	0.053	105	85-115	
Uranium	mg/L	.05	0.052	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2637114 2637115

Parameter	Units	35423321005		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum	mg/L	13.3 ug/L	.5	.5	0.53	0.52	103	101	70-130	2	20	
Antimony	mg/L	0.50U ug/L	.05	.05	0.055	0.054	109	108	70-130	1	20	
Arsenic	mg/L	0.92J ug/L	.05	.05	0.051	0.050	100	99	70-130	1	20	
Copper	mg/L	0.13	.05	.05	0.18	0.17	93	86	70-130	2	20	
Lead	mg/L	0.030	.05	.05	0.082	0.081	104	101	70-130	2	20	
Selenium	mg/L	0.83U ug/L	.05	.05	0.048	0.048	97	96	70-130	1	20	
Thallium	mg/L	0.91J ug/L	.05	.05	0.053	0.052	104	103	70-130	1	20	
Uranium	mg/L	0.50U ug/L	.05	.05	0.051	0.051	103	102	70-130	1	20	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 486938 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 35424873001

METHOD BLANK: 2634519 Matrix: Water
Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,1,2-Trichloroethane	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,1-Dichloroethene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,2,4-Trichlorobenzene	ug/L	<0.41	0.50	0.41	10/19/18 11:56	
1,2-Dichlorobenzene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,2-Dichloroethane	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,2-Dichloropropane	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,4-Dichlorobenzene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Benzene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Carbon tetrachloride	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Chlorobenzene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
cis-1,2-Dichloroethene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Ethylbenzene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Methylene Chloride	ug/L	<0.44	0.50	0.44	10/19/18 11:56	
Styrene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Tetrachloroethene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Toluene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
trans-1,2-Dichloroethene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Trichloroethene	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
Vinyl chloride	ug/L	<0.39	0.50	0.39	10/19/18 11:56	
Xylene (Total)	ug/L	<0.25	0.50	0.25	10/19/18 11:56	
1,2-Dichloroethane-d4 (S)	%	120	70-130		10/19/18 11:56	
4-Bromofluorobenzene (S)	%	88	70-130		10/19/18 11:56	
Toluene-d8 (S)	%	97	70-130		10/19/18 11:56	

LABORATORY CONTROL SAMPLE & LCSD: 2634520

Parameter	Units	2634521							Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD		
1,1,1-Trichloroethane	ug/L	40	41.9	41.0	105	102	70-130	2	40	
1,1,2-Trichloroethane	ug/L	40	41.8	41.7	105	104	70-130	0	40	
1,1-Dichloroethene	ug/L	40	41.6	41.6	104	104	70-130	0	40	
1,2,4-Trichlorobenzene	ug/L	40	37.7	38.8	94	97	70-130	3	40	
1,2-Dichlorobenzene	ug/L	40	42.8	42.3	107	106	70-130	1	40	
1,2-Dichloroethane	ug/L	40	39.8	37.7	100	94	70-130	5	40	
1,2-Dichloropropane	ug/L	40	38.9	38.4	97	96	70-130	1	40	
1,4-Dichlorobenzene	ug/L	40	41.5	40.1	104	100	70-130	3	40	
Benzene	ug/L	40	40.2	38.6	100	96	70-130	4	40	
Carbon tetrachloride	ug/L	40	42.4	41.2	106	103	70-130	3	40	
Chlorobenzene	ug/L	40	39.7	39.0	99	97	70-130	2	40	
cis-1,2-Dichloroethene	ug/L	40	39.4	39.3	99	98	70-130	0	40	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

LABORATORY CONTROL SAMPLE & LCSD: 2634520			2634521							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	40	42.4	41.6	106	104	70-130	2	40	
Methylene Chloride	ug/L	40	44.3	44.6	111	111	70-130	1	40	
Styrene	ug/L	40	38.3	37.9	96	95	70-130	1	40	
Tetrachloroethene	ug/L	40	36.8	37.0	92	93	70-130	1	40	
Toluene	ug/L	40	39.4	39.0	99	97	70-130	1	40	
trans-1,2-Dichloroethene	ug/L	40	41.9	42.6	105	107	70-130	2	40	
Trichloroethene	ug/L	40	38.6	38.0	96	95	70-130	2	40	
Vinyl chloride	ug/L	40	40.5	41.2	101	103	70-130	2	40	
Xylene (Total)	ug/L	120	136	133	113	111	70-130	2	40	
1,2-Dichloroethane-d4 (S)	%				119	117	70-130			
4-Bromofluorobenzene (S)	%				94	93	70-130			
Toluene-d8 (S)	%				97	96	70-130			

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487098

Analysis Method: EPA 504.1

QC Batch Method: EPA 504.1

Analysis Description: 504 EDB DBCP

Associated Lab Samples: 35424873001

METHOD BLANK: 2635852

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.0064	0.020	0.0064	10/22/18 19:34	
1,2-Dibromoethane (EDB)	ug/L	<0.0075	0.010	0.0075	10/22/18 19:34	

LABORATORY CONTROL SAMPLE: 2635853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.22	88	70-130	
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636545 2636546

Parameter	Units	35424873001		2636546		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dibromo-3-chloropropane	ug/L	<0.0061	.44	.44	0.44	0.43	101	99	65-135	2	40
1,2-Dibromoethane (EDB)	ug/L	<0.0072	.44	.44	0.44	0.45	101	102	65-135	1	40

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 486984

Analysis Method: EPA 508.1

QC Batch Method: EPA 508.1

Analysis Description: 508 GCS Pest / PCB

Associated Lab Samples: 35424873001

METHOD BLANK: 2635001

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alachlor	ug/L	<0.035	0.20	0.035	10/22/18 09:06	
Chlordane (Technical)	ug/L	<0.047	0.20	0.047	10/22/18 09:06	
Endrin	ug/L	<0.0070	0.010	0.0070	10/22/18 09:06	
gamma-BHC (Lindane)	ug/L	<0.0030	0.020	0.0030	10/22/18 09:06	
Heptachlor	ug/L	<0.012	0.040	0.012	10/22/18 09:06	
Heptachlor epoxide	ug/L	<0.0030	0.020	0.0030	10/22/18 09:06	
Hexachlorobenzene	ug/L	<0.019	0.10	0.019	10/22/18 09:06	
Hexachlorocyclopentadiene	ug/L	<0.032	0.10	0.032	10/22/18 09:06	
Methoxychlor	ug/L	<0.090	0.10	0.090	10/22/18 09:06	
PCB-1016 (Aroclor 1016)	ug/L	<0.080	0.10	0.080	10/22/18 09:06	
PCB-1221 (Aroclor 1221)	ug/L	<0.029	0.10	0.029	10/22/18 09:06	
PCB-1232 (Aroclor 1232)	ug/L	<0.029	0.10	0.029	10/22/18 09:06	
PCB-1242 (Aroclor 1242)	ug/L	<0.051	0.10	0.051	10/22/18 09:06	
PCB-1248 (Aroclor 1248)	ug/L	<0.062	0.10	0.062	10/22/18 09:06	
PCB-1254 (Aroclor 1254)	ug/L	<0.023	0.10	0.023	10/22/18 09:06	
PCB-1260 (Aroclor 1260)	ug/L	<0.066	0.10	0.066	10/22/18 09:06	
Simazine	ug/L	<0.069	0.18	0.069	10/22/18 09:06	
Toxaphene	ug/L	<0.61	1.0	0.61	10/22/18 09:06	
Decachlorobiphenyl (S)	%	104	70-130		10/22/18 09:06	

LABORATORY CONTROL SAMPLE: 2635002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	1	0.91	91	70-130	
Chlordane (Technical)	ug/L		<0.047			
Endrin	ug/L	.05	0.054	107	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.10	100	70-130	
Heptachlor	ug/L	.2	0.19	95	70-130	
Heptachlor epoxide	ug/L	.1	0.11	105	70-130	
Hexachlorobenzene	ug/L	.5	0.44	88	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.48	97	70-130	
Methoxychlor	ug/L	.5	0.79	157	70-130 L1	
PCB-1016 (Aroclor 1016)	ug/L		<0.080			
PCB-1221 (Aroclor 1221)	ug/L		<0.029			
PCB-1232 (Aroclor 1232)	ug/L		<0.029			
PCB-1242 (Aroclor 1242)	ug/L		<0.051			
PCB-1248 (Aroclor 1248)	ug/L		<0.062			
PCB-1254 (Aroclor 1254)	ug/L		<0.023			
PCB-1260 (Aroclor 1260)	ug/L		<0.066			
Simazine	ug/L	.88	0.85	97	70-130	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

LABORATORY CONTROL SAMPLE: 2635002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toxaphene	ug/L		<0.61			
Decachlorobiphenyl (S)	%			107	70-130	

LABORATORY CONTROL SAMPLE: 2635003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.2	0.20J	98	50-150	
Chlordane (Technical)	ug/L		<0.047			
Endrin	ug/L	.01	0.0097J	97	50-150	
gamma-BHC (Lindane)	ug/L	.02	0.020J	99	50-150	
Heptachlor	ug/L	.04	0.036J	91	50-150	
Heptachlor epoxide	ug/L	.02	0.020J	100	50-150	
Hexachlorobenzene	ug/L	.1	0.092J	92	50-150	
Hexachlorocyclopentadiene	ug/L	.1	0.078J	78	50-150	
Methoxychlor	ug/L	.1	0.15	147	50-150	
PCB-1016 (Aroclor 1016)	ug/L		<0.080			
PCB-1221 (Aroclor 1221)	ug/L		<0.029			
PCB-1232 (Aroclor 1232)	ug/L		<0.029			
PCB-1242 (Aroclor 1242)	ug/L		<0.051			
PCB-1248 (Aroclor 1248)	ug/L		<0.062			
PCB-1254 (Aroclor 1254)	ug/L		<0.023			
PCB-1260 (Aroclor 1260)	ug/L		<0.066			
Simazine	ug/L	.18	0.20	113	50-150	
Toxaphene	ug/L		<0.61			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2635211 2635212

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35425055001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Alachlor	ug/L	ND	2	2	1.7	1.7	87	87	65-135	0	40	
Chlordane (Technical)	ug/L	ND			<0.094	<0.094					40	
Endrin	ug/L	ND	.1	.1	0.099	0.10	99	104	65-135	4	40	
gamma-BHC (Lindane)	ug/L	ND	.2	.2	0.20	0.20	98	98	65-135	0	40	
Heptachlor	ug/L	ND	.4	.4	0.38	0.37	94	92	65-135	2	40	
Heptachlor epoxide	ug/L	ND	.2	.2	0.20	0.20	101	102	65-135	1	40	
Hexachlorobenzene	ug/L	ND	1	1	0.87	0.87	87	87	65-135	0	40	
Hexachlorocyclopentadiene	ug/L	ND	1	1	0.94	1.0	94	102	65-135	8	40	
Methoxychlor	ug/L	ND	1	1	1.5	1.5	149	148	65-135	0	40	M1
PCB-1016 (Aroclor 1016)	ug/L	ND			<0.16	<0.16					40	
PCB-1221 (Aroclor 1221)	ug/L	ND			<0.058	<0.058					40	
PCB-1232 (Aroclor 1232)	ug/L	ND			<0.058	<0.058					40	
PCB-1242 (Aroclor 1242)	ug/L	ND			<0.10	<0.10					40	
PCB-1248 (Aroclor 1248)	ug/L	ND			<0.12	<0.12					40	
PCB-1254 (Aroclor 1254)	ug/L	ND			<0.046	<0.046					40	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Parameter	Units	2635211		2635212		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35425055001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
PCB-1260 (Aroclor 1260)	ug/L	ND			<0.13	<0.13							40
Simazine	ug/L	ND	1.8	1.8	2.0	1.9	113	108	65-135	5			40
Toxaphene	ug/L	ND			<1.2	<1.2							40
Decachlorobiphenyl (S)	%						103	109	70-130				40

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487102

Analysis Method: EPA 515.3

QC Batch Method: EPA 515.3

Analysis Description: 5153 GCS Herbicides

Associated Lab Samples: 35424873001

METHOD BLANK: 2635860

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.16	0.20	0.16	10/23/18 01:32	
2,4-D	ug/L	<0.081	0.10	0.081	10/23/18 01:32	
Dalapon	ug/L	<0.89	1.0	0.89	10/23/18 01:32	
Dinoseb	ug/L	<0.16	0.20	0.16	10/23/18 01:32	
Pentachlorophenol	ug/L	<0.030	0.040	0.030	10/23/18 01:32	
Picloram	ug/L	<0.094	0.10	0.094	10/23/18 01:32	
2,4-DCAA (S)	%	91	70-130		10/23/18 01:32	

LABORATORY CONTROL SAMPLE: 2635861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.8	0.86	107	70-130	
2,4-D	ug/L	.4	0.41	103	70-130	
Dalapon	ug/L	4	4.4	109	70-130	
Dinoseb	ug/L	.8	0.87	109	70-130	
Pentachlorophenol	ug/L	.16	0.13	83	70-130	
Picloram	ug/L	.4	0.48	121	70-130	
2,4-DCAA (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636551 2636552

Parameter	Units	35424873001		2636551		2636552		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result						
2,4,5-TP (Silvex)	ug/L	<0.16	.8	.8	0.86	0.57	108	71	70-130	41	40	R1	
2,4-D	ug/L	<0.081	.4	.4	0.45	0.34	111	86	70-130	26	40		
Dalapon	ug/L	<0.89	4	4	3.9	<0.89	97	20	70-130		40	M1	
Dinoseb	ug/L	<0.16	.8	.8	0.76	0.49	95	61	70-130	43	40	M1, R1	
Pentachlorophenol	ug/L	<0.030	.16	.16	0.11	0.074	69	47	70-130	39	40	M1	
Picloram	ug/L	<0.094	.4	.4	0.46	0.33	116	82	70-130	35	40		
2,4-DCAA (S)	%						62	54	70-130			S0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636553 2636554

Parameter	Units	35425338001		2636553		2636554		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result						
2,4,5-TP (Silvex)	ug/L	ND	.8	.8	0.84	0.80	105	101	70-130	4	40		
2,4-D	ug/L	ND	.4	.4	0.37	0.37	92	93	70-130	1	40		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Parameter	Units	2636553		2636554		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35425338001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Dalapon	ug/L	ND	4	4	4.6	4.4	114	110	70-130	4	40	
Dinoseb	ug/L	ND	.8	.8	0.83	0.85	104	106	70-130	2	40	
Pentachlorophenol	ug/L	ND	.16	.16	0.13	0.12	79	76	70-130	3	40	
Picloram	ug/L	ND	.4	.4	0.39	0.40	98	101	70-130	3	40	
2,4-DCAA (S)	%						102	99	70-130			

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

QC Batch: 486985 Analysis Method: EPA 525.2
QC Batch Method: EPA 525.2 Analysis Description: 525.2 DW Semivolatiles
Associated Lab Samples: 35424873001

METHOD BLANK: 2635004 Matrix: Water
Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Atrazine	ug/L	<0.079	0.10	0.079	10/22/18 10:00	
Benzo(a)pyrene	ug/L	<0.013	0.10	0.013	10/22/18 10:00	
bis(2-Ethylhexyl)adipate	ug/L	<0.38	1.6	0.38	10/22/18 10:00	
bis(2-Ethylhexyl)phthalate	ug/L	<0.50	2.0	0.50	10/22/18 10:00	
1,3-Dimethyl-2-nitrobenzene(S)	%	100	70-130		10/22/18 10:00	
Perylene-d12 (S)	%	87	70-130		10/22/18 10:00	
Triphenylphosphate (S)	%	103	70-130		10/22/18 10:00	

LABORATORY CONTROL SAMPLE: 2635005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	.4	0.42	105	70-130	
Benzo(a)pyrene	ug/L	.4	0.37	92	70-130	
bis(2-Ethylhexyl)adipate	ug/L	6.4	6.7	105	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	8.5	106	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			101	70-130	
Perylene-d12 (S)	%			90	70-130	
Triphenylphosphate (S)	%			105	70-130	

LABORATORY CONTROL SAMPLE: 2635006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	.1	0.10	105	50-150	
Benzo(a)pyrene	ug/L	.1	0.094J	94	50-150	
bis(2-Ethylhexyl)adipate	ug/L	1.6	1.7	108	50-150	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.4	118	50-150	
1,3-Dimethyl-2-nitrobenzene(S)	%			100	70-130	
Perylene-d12 (S)	%			86	70-130	
Triphenylphosphate (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2635203 2635204

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result							
Atrazine	ug/L	<0.077	.38	.39	0.42	0.45	108	117	70-130	9	40	
Benzo(a)pyrene	ug/L	<0.013	.38	.39	0.019J	0.025J	5	6	70-130		40 M1	
bis(2-Ethylhexyl)adipate	ug/L	<0.37	6.2	6.2	6.4	6.9	104	111	70-130	7	40	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Parameter	Units	2635203		2635204		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2086190001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
bis(2-Ethylhexyl)phthalate	ug/L	<0.48	7.7	7.8	8.1	8.4	102	105	70-130	4	40	
1,3-Dimethyl-2-nitrobenzene(S)	%						103	105	70-130			
Perylene-d12 (S)	%						81	86	70-130			
Triphenylphosphate (S)	%						101	107	70-130			

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487089

Analysis Method: EPA 548.1

QC Batch Method: EPA 548.1

Analysis Description: 548 GCS Endothall

Associated Lab Samples: 35424873001

METHOD BLANK: 2635811

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Endothall	ug/L	<3.3	9.0	3.3	10/22/18 20:54	

LABORATORY CONTROL SAMPLE: 2635812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	50	55.4	111	64-137	

LABORATORY CONTROL SAMPLE: 2635813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	9	10.3	114	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636782 2636783

Parameter	Units	35424828001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endothall	ug/L	3.3U	50	50	51.0	46.2	102	92	64-137	10	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2636784 2636785

Parameter	Units	35424960001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endothall	ug/L	3.3U	50	50	20.5	18.7	41	37	64-137	9	30 M1	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 486874

Analysis Method: EPA 549.2

QC Batch Method: EPA 549.2

Analysis Description: 549 HPLC Paraquat Diquat

Associated Lab Samples: 35424873001

METHOD BLANK: 2634281

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diquat	ug/L	<0.30	0.40	0.30	10/22/18 15:03	

LABORATORY CONTROL SAMPLE: 2634282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.8	90	70-130	

LABORATORY CONTROL SAMPLE: 2634283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.30	59	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634288 2634289

Parameter	Units	35424873001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Diquat	ug/L	<0.30	2	2	1.5	1.6	77	80	70-130	4	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634290 2634291

Parameter	Units	35424874001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Diquat	ug/L	<0.30	2	2	1.6	1.6	81	81	70-130	1	30	

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 486919

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 35424873001

METHOD BLANK: 2634431

Matrix: Water

Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	<0.034	0.050	0.034	10/19/18 15:41	

LABORATORY CONTROL SAMPLE: 2634432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	5	5.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634581 2634582

Parameter	Units	35424873001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Fluoride	mg/L	0.33	5	5	5.3	5.3	99	99	90-110	0	20				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2634583 2634584

Parameter	Units	35423751002		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Fluoride	mg/L	0.097	5	5	5.0	5.0	97	98	90-110	0	20				

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

QC Batch: 487701 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 35424873001

METHOD BLANK: 2638510 Matrix: Water
Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	<0.0050	0.010	0.0050	10/23/18 23:32	

LABORATORY CONTROL SAMPLE: 2638511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.052	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2638512 2638513

Parameter	Units	2638512		2638513		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35423382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cyanide	mg/L	0.0050U	.025	.025	0.017	0.017	69	69	90-110	0	20 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2638515 2638516

Parameter	Units	2638515		2638516		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		35424874002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cyanide	mg/L	<0.0050	.025	.025	0.026	0.023	102	89	90-110	14	20 M1

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QUALITY CONTROL DATA

Project: LDH/OPH/Engineering R7 Ph2/5
Pace Project No.: 35424873

QC Batch: 486691 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35424873001

METHOD BLANK: 2633086 Matrix: Water
Associated Lab Samples: 35424873001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.025	0.050	0.025	10/18/18 16:36	

LABORATORY CONTROL SAMPLE: 2633087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 2633089

Parameter	Units	35423316003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	8.3	10	18.5	101	90-110	

MATRIX SPIKE SAMPLE: 2633091

Parameter	Units	35424874002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.025	2	2.0	102	80-120	

SAMPLE DUPLICATE: 2633088

Parameter	Units	35423316003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	8.3	8.6	4	20	

SAMPLE DUPLICATE: 2633090

Parameter	Units	35424874002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.025	<0.025		20	

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QUALIFIERS

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

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.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

CU The continuing calibration for this analyte is above laboratory acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LDH/OPH/Engineering R7 Ph2/5

Pace Project No.: 35424873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35424873001	LA1031007 7AJZ 1031007-011	EPA 504.1	487098	EPA 504.1	487466
35424873001	LA1031007 7AJZ 1031007-011	EPA 508.1	486984	EPA 508.1	487257
35424873001	LA1031007 7AJZ 1031007-011	EPA 515.3	487102	EPA 515.3	487504
35424873001	LA1031007 7AJZ 1031007-011	EPA 525.2	486985	EPA 525.2	487258
35424873001	LA1031007 7AJZ 1031007-011	EPA 547	486941		
35424873001	LA1031007 7AJZ 1031007-011	EPA 549.2	486874	EPA 549.2	487354
35424873001	LA1031007 7AJZ 1031007-011	EPA 200.7	487395	EPA 200.7	487507
35424873001	LA1031007 7AJZ 1031007-011	EPA 200.8	487394	EPA 200.8	487508
35424873001	LA1031007 7AJZ 1031007-011	EPA 245.1	487352	EPA 245.1	487591
35424873001	LA1031007 7AJZ 1031007-011	EPA 548.1	487089	EPA 548.1	487435
35424873001	LA1031007 7AJZ 1031007-011	EPA 524.2	486938		
35424873001	LA1031007 7AJZ 1031007-011	EPA 300.0	486919		
35424873001	LA1031007 7AJZ 1031007-011	EPA 335.4	487701	EPA 335.4	487866
35424873001	LA1031007 7AJZ 1031007-011	EPA 353.2	486691		

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WFO#: 35424873

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B: Project Information

Report To: John Z. French, PE
 John.French@LA.gov
 PO #: 2000338900
 Interim Analysis for LDH/OPH/BR Lab

Section C: Ship to Destination

Pace Analytical Services - Florida
 Attn: Bo Garcia
 8 East Tower Circle
 Ormond Beach, FL 32174
 386-676-4810
 Bo.Garcia@pacelabs.com

RETURN Ice Chest to

LDH/OPH/Engineering R7
 1525 Fairfield Ave., Rm 569
 Shreveport LA 71101
 John.French@LA.gov

ITEM #	Section D Required Client Information	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED		# OF CONTAINERS	Pace Project Number Lab I.D.									
				COMPOSITE START DATE TIME	COMPOSITE END OR GRAB TIME											
1	LA1031007 7AJZ 1031007-011 KEATCHIE WATER SYSTEM	DW	G	10/17/2018	9:42											
2		DW	G													
3		DW	G													
4		DW	G													
5		DW	G													
6		DW	G													
7		DW	G													
8		DW	G													
9		DW	G													
10		DW	G													
				RELEASED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	RECEIVED ON	Temp in °C	Received on Ice	Custody Cooler	Sealed Cooler	Samples Intact	
				TIFFANY ROBERSON/LDH	17-Oct	15:30	BOLE PACE T308	10/18/18	1035	2.2	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
				# of Ice Chests in this Shipment 3 Ice Chest (No. of _)												

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

TIFFANY ROBERSON

SIGNATURE of SAMPLER:

TIFFANY ROBERSON

DATE Signed (MM/DD/YY) 10/17/2018

Additional Comments:
EXPEDITE RUSH.



Document Name:
Sample Condition Upon Receipt Form
Document No.:
F-FL-C-007 rev. 13

Document Revised:
May 30, 2018
Issuing Authority:
Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #
Project Manager:
Client:

WO# : 35424873
PM: VEG Due Date: 10/23/18
CLIENT: LDHOPH

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T338 Date: 10/18/18 Time: 1035 Initials: [Signature]

State of Origin: _____ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C	<u>20.0</u> (Visual)	<u>10</u> (Correction Factor)	<u>20.0</u> (Actual)	<input checked="" type="checkbox"/> Samples on ice, cooling process has begun
Cooler #2 Temp. °C	<u>2.2</u> (Visual)	<u>1</u> (Correction Factor)	<u>2.2</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #3 Temp. °C	<u>1.5</u> (Visual)	<u>1</u> (Correction Factor)	<u>1.5</u> (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #4 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #5 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun
Cooler #6 Temp. °C	_____ (Visual)	_____ (Correction Factor)	_____ (Actual)	<input type="checkbox"/> Samples on ice, cooling process has begun

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Shipping Method: First Overnight Priority Overnight Standard Overnight Ground International Priority
 Other _____

Billing: Recipient Sender Third Party Credit Card Unknown

Tracking # T735 0126 7743/8018

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Ice: Wet Blue Dry None

Packing Material: Bubble Wrap Bubble Bags None Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>3 TAT</u>
Sufficient Volume	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: VOA, Coliform, TOC, O&G, Carbamates	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

