Pace Analytical Services, LLC
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

May 31, 2022

Keith Gadway
Quantum Environmental
4111 Jackson Road
Ann Arbor, MI 48103

RE: Project: 14-Dx
Pace Project No.: 35718539

Dear Keith Gadway:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,

Bill White
bill.white@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

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CERTIFICATIONS

Project: 14-Dx
Pace Project No.: 35718539

Pace Analytical Services Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Colorado Certification: FL NELAC Reciprocity
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
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
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
Ohio DEP 87780
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
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: 14-Dx
Pace Project No.: 35718539

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35718539001	**1534 COVENTRY**	Water	05/16/22 05:30	05/18/22 11:30
35718539002	**3622 LAMPLIGHTER**	Water	05/16/22 05:30	05/18/22 11:30
35718539003	**2600 ROSELAND**	Water	05/16/22 05:30	05/18/22 11:30
35718539004	**2903 CRAIG**	Water	05/16/22 05:30	05/18/22 11:30
35718539005	**2828 LAURENTIDE**	Water	05/16/22 05:30	05/18/22 11:30
35718539006	**3350 CRAIG**	Water	05/16/22 05:30	05/18/22 11:30
35718539007	**3780 MILLER**	Water	05/16/22 05:30	05/18/22 11:30
35718539008	**3660 MILLER**	Water	05/16/22 05:30	05/18/22 11:30
35718539009	**4643 PRATT**	Water	05/16/22 05:30	05/18/22 11:30
35718539010	**3527 BRADFORD SQ**	Water	05/16/22 05:30	05/18/22 11:30
35718539011	**3141 N. WAGNER**	Water	05/16/22 05:30	05/18/22 11:30
35718539012	**3425 ROBINWOOD**	Water	05/16/22 05:30	05/18/22 11:30
35718539013	**3377 CRAIG**	Water	05/16/22 05:30	05/18/22 11:30
35718539014	**3968 DEXTER**	Water	05/16/22 05:30	05/18/22 11:30
35718539015	**4350 STONE MEADOW**	Water	05/16/22 05:30	05/18/22 11:30
35718539016	**3543 MILIER**	Water	05/16/22 05:30	05/18/22 11:30
35718539017	**1305 COVENTRY**	Water	05/16/22 05:30	05/18/22 11:30
35718539018	**1128 COVENTRY**	Water	05/16/22 05:30	05/18/22 11:30
35718539019	**3233 CRAIG**	Water	05/16/22 05:30	05/18/22 11:30
35718539020	**3555 PRATT**	Water	05/16/22 05:30	05/18/22 11:30
35718539021	**3480 COTTONTAIL**	Water	05/16/22 05:30	05/18/22 11:30
35718539022	**2553 THORNAPPLE**	Water	05/16/22 05:30	05/18/22 11:30
35718539023	**3228 COTTONTAIL CT.**	Water	05/16/22 05:30	05/18/22 11:30
35718539024	**3350 ROBINWOOD**	Water	05/16/22 05:30	05/18/22 11:30
35718539025	**3586 BRADFORD SQ.**	Water	05/16/22 05:30	05/18/22 11:30
35718539026	**3435-S MILLER**	Water	05/16/22 05:30	05/18/22 11:30
35718539027	**3435 MILLER**	Water	05/16/22 05:30	05/18/22 11:30
35718539028	**2205 STONE VALLEY**	Water	05/16/22 05:30	05/18/22 11:30
35718539030	**2810 PARKRIDGE**	Water	05/16/22 05:30	05/18/22 11:30

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SAMPLE ANALYTE COUNT

Project: 14-Dx
Pace Project No.: 35718539

Lab ID	Sample ID	Method	Analysts	Analytes Reported
35718539001	**1534 COVENTRY**	EPA 522	PFG	2
35718539002	**3622 LAMPLIGHTER**	EPA 522	PFG	2
35718539003	**2600 ROSELAND**	EPA 522	PFG	2
35718539004	**2903 CRAIG**	EPA 522	PFG	2
35718539005	**2828 LAURENTIDE**	EPA 522	PFG	2
35718539006	**3350 CRAIG**	EPA 522	PFG	2
35718539007	**3780 MILLER**	EPA 522	PFG	2
35718539008	**3660 MILLER**	EPA 522	PFG	2
35718539009	**4643 PRATT**	EPA 522	PFG	2
35718539010	**3527 BRADFORD SQ**	EPA 522	PFG	2
35718539011	**3141 N. WAGNER**	EPA 522	PFG	2
35718539012	**3425 ROBINWOOD**	EPA 522	PFG	2
35718539013	**3377 CRAIG**	EPA 522	PFG	2
35718539014	**3968 DEXTER**	EPA 522	PFG	2
35718539015	**4350 STONE MEADOW**	EPA 522	PFG	2
35718539016	**3543 MILIER**	EPA 522	PFG	2
35718539017	**1305 COVENTRY**	EPA 522	PFG	2
35718539018	**1128 COVENTRY**	EPA 522	PFG	2
35718539019	**3233 CRAIG**	EPA 522	PFG	2
35718539020	**3555 PRATT**	EPA 522	PFG	2
35718539021	**3480 COTTONTAIL**	EPA 522	PFG	2
35718539022	**2553 THORNAPPLE**	EPA 522	PFG	2
35718539023	**3228 COTTONTAIL CT.**	EPA 522	PFG	2
35718539024	**3350 ROBINWOOD**	EPA 522	PFG	2
35718539025	**3586 BRADFORD SQ.**	EPA 522	PFG	2
35718539026	**3435-S MILLER**	EPA 522	PFG	2
35718539027	**3435 MILLER**	EPA 522	PFG	2
35718539028	**2205 STONE VALLEY**	EPA 522	PFG	2
35718539030	**2810 PARKRIDGE**	EPA 522	PFG	2

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 1534 COVENTRY **Lab ID: 35718539001** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 19:54	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/24/22 20:02	05/25/22 19:54		

Sample: 3622 LAMPLIGHTER **Lab ID: 35718539002** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 20:10	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/24/22 20:02	05/25/22 20:10		

Sample: 2600 ROSELAND **Lab ID: 35718539003** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 20:26	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/24/22 20:02	05/25/22 20:26		

Sample: 2903 CRAIG **Lab ID: 35718539004** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 20:42	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/24/22 20:02	05/25/22 20:42		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 2828 LAURENTIDE **Lab ID: 35718539005** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 20:58	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	05/24/22 20:02	05/25/22 20:58		

Sample: 3350 CRAIG **Lab ID: 35718539006** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.70**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 21:14	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/24/22 20:02	05/25/22 21:14		

Sample: 3780 MILLER **Lab ID: 35718539007** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 21:30	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	91	%	70-130		1	05/24/22 20:02	05/25/22 21:30		

Sample: 3660 MILLER **Lab ID: 35718539008** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 21:47	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/24/22 20:02	05/25/22 21:47		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 4643 PRATT **Lab ID: 35718539009** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 22:03	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	90	%	70-130		1	05/24/22 20:02	05/25/22 22:03		

Sample: 3527 BRADFORD SQ **Lab ID: 35718539010** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/24/22 20:02	05/25/22 22:19	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	92	%	70-130		1	05/24/22 20:02	05/25/22 22:19		

Sample: 3141 N. WAGNER **Lab ID: 35718539011** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 15:21	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	76	%	70-130		1	05/26/22 15:26	05/27/22 15:21		

Sample: 3425 ROBINWOOD **Lab ID: 35718539012** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.14J**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 15:38	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	05/26/22 15:26	05/27/22 15:38		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 3377 CRAIG **Lab ID: 35718539013** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.85**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 15:55	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	80	%	70-130		1	05/26/22 15:26	05/27/22 15:55		

Sample: 3968 DEXTER **Lab ID: 35718539014** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 16:13	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	74	%	70-130		1	05/26/22 15:26	05/27/22 16:13		

Sample: 4350 STONE MEADOW **Lab ID: 35718539015** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 16:30	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	93	%	70-130		1	05/26/22 15:26	05/27/22 16:30		

Sample: 3543 MILIER **Lab ID: 35718539016** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.29**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 16:47	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	58	%	70-130		1	05/26/22 15:26	05/27/22 16:47		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 1305 COVENTRY **Lab ID: 35718539017** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 17:05	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	95	%	70-130		1	05/26/22 15:26	05/27/22 17:05		

Sample: 1128 COVENTRY **Lab ID: 35718539018** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 17:22	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	05/26/22 15:26	05/27/22 17:22		

Sample: 3233 CRAIG **Lab ID: 35718539019** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.15J**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 17:40	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	85	%	70-130		1	05/26/22 15:26	05/27/22 17:40		

Sample: 3555 PRATT **Lab ID: 35718539020** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 17:57	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	81	%	70-130		1	05/26/22 15:26	05/27/22 17:57		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 3480 COTTONTAIL **Lab ID: 35718539021** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 18:31	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	77	%	70-130		1	05/26/22 15:26	05/27/22 18:31		

Sample: 2553 THORNAPPLE **Lab ID: 35718539022** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.29**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 18:49	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	87	%	70-130		1	05/26/22 15:26	05/27/22 18:49		

Sample: 3228 COTTONTAIL CT. **Lab ID: 35718539023** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.16J**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 19:06	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	74	%	70-130		1	05/26/22 15:26	05/27/22 19:06		

Sample: 3350 ROBINWOOD **Lab ID: 35718539024** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.40**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 19:23	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	77	%	70-130		1	05/26/22 15:26	05/27/22 19:23		

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Ormond Beach, FL 32174
(386)672-5668

ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 3586 BRADFORD SQ. **Lab ID: 35718539025** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 19:40	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	84	%	70-130		1	05/26/22 15:26	05/27/22 19:40		

Sample: 3435-S MILLER **Lab ID: 35718539026** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.69**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 19:57	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	65	%	70-130		1	05/26/22 15:26	05/27/22 19:57		

Sample: 3435 MILLER **Lab ID: 35718539027** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**0.89**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 20:14	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	83	%	70-130		1	05/26/22 15:26	05/27/22 20:14		

Sample: 2205 STONE VALLEY **Lab ID: 35718539028** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 20:32	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	56	%	70-130		1	05/26/22 15:26	05/27/22 20:32		

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ANALYTICAL RESULTS

Project: 14-Dx
Pace Project No.: 35718539

Sample: 2810 PARKRIDGE **Lab ID: 35718539030** Collected: 05/16/22 05:30 Received: 05/18/22 11:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522 Pace Analytical Services - Ormond Beach								
1,4-Dioxane (p-Dioxane)	**<0.12**	ug/L	0.20	0.12	1	05/26/22 15:26	05/27/22 20:49	123-91-1	1p
Surrogates									
1,4-Dioxane-d8 (S)	86	%	70-130		1	05/26/22 15:26	05/27/22 20:49		

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QUALITY CONTROL DATA

Project: 14-Dx
Pace Project No.: 35718539

QC Batch: 826563
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35718539001, 35718539002, 35718539003, 35718539004, 35718539005, 35718539006, 35718539007, 35718539008, 35718539009, 35718539010

METHOD BLANK: 4542167
Matrix: Water
Associated Lab Samples: 35718539001, 35718539002, 35718539003, 35718539004, 35718539005, 35718539006, 35718539007, 35718539008, 35718539009, 35718539010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.12	0.20	0.12	05/25/22 15:54	
1,4-Dioxane-d8 (S)	%	92	70-130		05/25/22 15:54	

LABORATORY CONTROL SAMPLE & LCSD: 4542168 4542169

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	16.9	16.4	85	82	70-130	3	20	
1,4-Dioxane-d8 (S)	%				89	88	70-130			

LABORATORY CONTROL SAMPLE: 4542170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.2	0.18J	88	50-150	
1,4-Dioxane-d8 (S)	%			88	70-130	

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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Ormond Beach, FL 32174
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QUALITY CONTROL DATA

Project: 14-Dx
Pace Project No.: 35718539

QC Batch: 827187
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35718539011, 35718539012, 35718539013, 35718539014, 35718539015, 35718539016, 35718539017, 35718539018, 35718539019, 35718539020, 35718539021, 35718539022, 35718539023, 35718539024, 35718539025, 35718539026, 35718539027, 35718539028, 35718539030

METHOD BLANK: 4546228
Matrix: Water

Associated Lab Samples: 35718539011, 35718539012, 35718539013, 35718539014, 35718539015, 35718539016, 35718539017, 35718539018, 35718539019, 35718539020, 35718539021, 35718539022, 35718539023, 35718539024, 35718539025, 35718539026, 35718539027, 35718539028, 35718539030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	<0.12	0.20	0.12	05/27/22 14:07	
1,4-Dioxane-d8 (S)	%	85	70-130		05/27/22 14:07	

LABORATORY CONTROL SAMPLE & LCSD: 4546229 4546230

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.6	1.5	80	76	70-130	4	20	
1,4-Dioxane-d8 (S)	%				81	79	70-130			

LABORATORY CONTROL SAMPLE: 4546231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.2	0.14J	70	50-150	
1,4-Dioxane-d8 (S)	%			71	70-130	

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: 14-Dx
Pace Project No.: 35718539

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 826563

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

Batch: 827187

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

ANALYTE QUALIFIERS

1p A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-Dx
Pace Project No.: 35718539

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35718539001	**1534 COVENTRY**	EPA 522	826563	EPA 522	826759
35718539002	**3622 LAMPLIGHTER**	EPA 522	826563	EPA 522	826759
35718539003	**2600 ROSELAND**	EPA 522	826563	EPA 522	826759
35718539004	**2903 CRAIG**	EPA 522	826563	EPA 522	826759
35718539005	**2828 LAURENTIDE**	EPA 522	826563	EPA 522	826759
35718539006	**3350 CRAIG**	EPA 522	826563	EPA 522	826759
35718539007	**3780 MILLER**	EPA 522	826563	EPA 522	826759
35718539008	**3660 MILLER**	EPA 522	826563	EPA 522	826759
35718539009	**4643 PRATT**	EPA 522	826563	EPA 522	826759
35718539010	**3527 BRADFORD SQ**	EPA 522	826563	EPA 522	826759
35718539011	**3141 N. WAGNER**	EPA 522	827187	EPA 522	827563
35718539012	**3425 ROBINWOOD**	EPA 522	827187	EPA 522	827563
35718539013	**3377 CRAIG**	EPA 522	827187	EPA 522	827563
35718539014	**3968 DEXTER**	EPA 522	827187	EPA 522	827563
35718539015	**4350 STONE MEADOW**	EPA 522	827187	EPA 522	827563
35718539016	**3543 MILIER**	EPA 522	827187	EPA 522	827563
35718539017	**1305 COVENTRY**	EPA 522	827187	EPA 522	827563
35718539018	**1128 COVENTRY**	EPA 522	827187	EPA 522	827563
35718539019	**3233 CRAIG**	EPA 522	827187	EPA 522	827563
35718539020	**3555 PRATT**	EPA 522	827187	EPA 522	827563
35718539021	**3480 COTTONTAIL**	EPA 522	827187	EPA 522	827563
35718539022	**2553 THORNAPPLE**	EPA 522	827187	EPA 522	827563
35718539023	**3228 COTTONTAIL CT.**	EPA 522	827187	EPA 522	827563
35718539024	**3350 ROBINWOOD**	EPA 522	827187	EPA 522	827563
35718539025	**3586 BRADFORD SQ.**	EPA 522	827187	EPA 522	827563
35718539026	**3435-S MILLER**	EPA 522	827187	EPA 522	827563
35718539027	**3435 MILLER**	EPA 522	827187	EPA 522	827563
35718539028	**2205 STONE VALLEY**	EPA 522	827187	EPA 522	827563
35718539030	**2810 PARKRIDGE**	EPA 522	827187	EPA 522	827563

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CHAIN-OF-CUSTODY / Analytical Reque

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fie

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://i

WO# : 35718539

35718539

Section A
Required Client Information:

Company:	Quantum Environmental
Address:	4111 Jackson Road
	Ann Arbor, MI 48103
Email:	kgadway@quantumenvironmental.com
Phone:	(734) 930-2600 Fax CELL 734-646
Requested Due Date:	2077

Section B
Required Project Information:

Report To:	Keith Gadway
Copy To:	
Purchase Order #:	
Project Name:	14-Dx
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	bill.white@pacelabs.com,
Pace Profile #:	16042

Regulatory Agency	State / Location
	MI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	FL 522 1,4-Dioxane	Residual Chlorine (Y/N)
1	1534 COVENTRY	DW	G	5/16	8:00	5/16	5:30								X				X	
2	3622 LAMPLIGHTER																			
3	2600 ROSELAND																			
4	2903 CRAIG																			
5	2828 LAURENTIAE																			
6	3350 CRAIG																			
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		5/17	9:30		5-18-22	11:30	1.1	Y	N	N

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER: MIKE PROCHASKA	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 5/17/22			

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Quantum Environmental	Report To:	Keith Gadway	Attention:	
Address:	4111 Jackson Road	Copy To:		Company Name:	
Ann Arbor, MI 48103				Address:	
Email:	kgadway@quantumenvironmental.com	Purchase Order #:		Pace Quote:	
Phone:	(734) 930-2600 Fax: CELL 734-64[illegible]	Project Name:	14-Dx	Pace Project Manager:	bill.white@pacelabs.com,
Requested Due Date:	2077	Project #:		Pace Profile #:	16042

Regulatory Agency	State / Location
	MI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: FL 522 1,4-Dioxane	Residual Chlorine (Y/N)
1	3780 MILLER	DW	G	5/16	8:00	5/16	5:30								X			X	
2	3660 MILLER																		
3	4643 PRATT																		
4	3527 BRADFORD SQ																		
5	3141 N. WAGNER																		
6	3425 ROBINWOOD																		
7	3377 CRAIG																		
8	3968 DEXTER																		
9	4350 STONE MEADOW																		
10	3543 MILLER																		
11	1305 COVENTRY																		
12	1128 COVENTRY																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	5/17	9:30	[signature]	5-18-22	11:30	1.1	Y	N	N

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: MIKE PROCHASKA					
SIGNATURE of SAMPLER: [signature]	DATE Signed: 5/17/22				

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	Quantum Environmental
Address:	4111 Jackson Road
	Ann Arbor, MI 48103
Email:	kgadway@quantumenvironmental.com
Phone:	(734) 930-2600 Fax: CELL 734-646
Requested Due Date:	2077

Section B — Required Project Information:

Report To:	Keith Gadway
Copy To:	
Purchase Order #:	
Project Name:	14-Dx
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	bill.white@pacelabs.com,
Pace Profile #:	16042

Regulatory Agency	
State / Location	MI

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	FL 522 1,4-Dioxane	Residual Chlorine (Y/N)
1	3233 CRAIG	DW	G	5/16	8:00	5/16	5:30								X				X	
2	3555 PRATT																			
3	3480 COTTONTAIL																			
4	2553 THORNAPPLE																			
5	3228 COTTONTAIL LT.																			
6	3350 ROBINWOOD																			
7	3586 BRADFORD SQ.																			
8	3435-S MILLER																			
9	3435 MILLER																			
10	2205 STONE VALLEY																			
11	2455 N. WAGNER																			
12	2810 PARKRIDGE																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		5/17	9:30		5-18-22	11:30	1.1	Y	N	N

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER: MIKE PROCHASKA		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 5/17/22				

Pace

Sample Condition Upon Receipt Form (SCUR)

Project # WO#: 35718539
Project Manager: PM: WBW Due Date: 05/27/22
Client: CLIENT: QUANTUMENV

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

Thermometer Used: T-394 Date: 5-18-22 Time: 11:49 Initials: CEJ

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

Cooler #1 Temp.°C 3.1	(Visual) ±0.1	(Correction Factor) 3.2	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C 4.5	(Visual)	(Correction Factor) 4.6	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C 1.3	(Visual)	(Correction Factor) 1.4	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C 1.0	(Visual)	(Correction Factor) 1.1	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C 2.3	(Visual)	(Correction Factor) 2.4	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C	(Visual)	(Correction Factor)	(Actual)	☐ Samples on ice, cooling process has begun

Recheck for OOT °C (Visual) (Correction Factor) (Actual) Time: Initials:

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 # 5486 6906 9589, 9587, 9602, 9565, 9576

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☐ No **Ice:** Wet Blue Melted 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	☑ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☑ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☑ No ☐ N/A	
Sufficient Volume	☑ Yes ☐ No ☐ N/A	
Correct Containers Used	☑ Yes ☐ No ☐ N/A	
Containers Intact	☐ Yes ☑ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑ Yes ☐ No ☐ N/A	Preservation Information: Preservative:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☐ N/A	Lot #/Trace #: Date: Time:
Exceptions: Vials, Microbiology, O&G, PFAS		Initials:
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☑ N/A	
Trip Blank Present:	☐ Yes ☐ No ☑ N/A	

Comments/ Resolution (use back for additional comments): 2455 N. Wayner 522. Arrived broken