Vitale, Matthew J - DNR

From: Miller, Kathryn E. <Kathryn.Miller@fhr.com>
Sent: Tuesday, May 01, 2018 12:36 PM
To: Vitale, Matthew J - DNR
Subject: FHR Junction City 2017 GW Results Submittal
Attachments: JCT GW results_6-27-17.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Matthew,

Per our previous conversation, please see attached the 2017 groundwater analytical report for the Flint Hills Resources Pine Bend, LLC – Junction City Terminal. The attached report contains groundwater-concentration results for diesel range organics (DRO), gasoline range organics (GRO), and select Volatile Organic Compounds (VOCs) at the following locations: MW-5, MW-6, MW-9, MW-10, MW-14, MW-21, MW-22 (duplicate results represent MW-22), MW-25, and PZ-10. FHR is currently assessing its voluntary groundwater monitoring program and may elect to discontinue voluntary monitoring. If FHR elects to discontinue voluntary monitoring, FHR will perform well closures and abandonment in accordance with NR 141.25, and will provide the well closure forms to the Department, as required under NR 141.25. If FHR elects to continue the voluntary groundwater monitoring program, this information will be collected for internal informational purposes only and will not be provided to the Department unless required by NR 140.

If you have any questions regarding the content of this submittal, please feel free to contact me.

Thank you,
Katie

Kathryn Miller
Environmental Engineer
Northern Terminals
Flint Hills Resources, LC
Office: (651) 437-0615
Cell: (612) 202-8436
13775 Clark Road, Rosemount, MN 55068 (Office)
P.O. Box 64596, St. Paul, MN 55164 (Mailing)

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

July 06, 2017

Marsha Meurette
Tetra Tech, INC.
5404 Alderson St
Suite 500
Schofield, WI 54476

RE: Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Dear Marsha Meurette:
Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2017. 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Craig Wieman, Tetra Tech, Inc

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CERTIFICATIONS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152497001	**MW-5**	Water	06/27/17 11:00	06/29/17 09:55
40152497002	**MW-6**	Water	06/27/17 11:20	06/29/17 09:55
40152497003	**MW-9**	Water	06/27/17 13:10	06/29/17 09:55
40152497004	**MW-10**	Water	06/27/17 08:40	06/29/17 09:55
40152497005	**MW-14**	Water	06/27/17 12:30	06/29/17 09:55
40152497006	**MW-21**	Water	06/27/17 09:20	06/29/17 09:55
40152497007	**MW-22**	Water	06/27/17 13:55	06/29/17 09:55
40152497008	**MW-25**	Water	06/27/17 14:25	06/29/17 09:55
40152497009	**PZ-10**	Water	06/27/17 09:50	06/29/17 09:55
40152497010	**TRIP BLANK**	Water	06/27/17 00:00	06/29/17 09:55
40152497011	**DUPLICATE**	Water	06/27/17 00:00	06/29/17 09:55

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SAMPLE ANALYTE COUNT

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40152497001	**MW-5**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	2
		EPA 8260	HNW	8
40152497002	**MW-6**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	HNW	8
40152497003	**MW-9**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	HNW	8
40152497004	**MW-10**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	HNW	8
40152497005	**MW-14**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	HNW	8
40152497006	**MW-21**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	HNW	8
40152497007	**MW-22**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	LAP	8
40152497008	**MW-25**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	LAP	8
40152497009	**PZ-10**	WI MOD DRO	ABF	1
		WI MOD GRO	ALD	1
		EPA 8260	LAP	8
40152497010	**TRIP BLANK**	EPA 8260	LAP	8
40152497011	**DUPLICATE**	EPA 8260	LAP	8

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ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: MW-5 **Lab ID: 40152497001** Collected: 06/27/17 11:00 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**1740**	ug/L	107	32.3	2	07/01/17 08:41	07/06/17 14:56		DC,L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**5940**	ug/L	500	296	10		06/30/17 14:17		GO
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		10		06/30/17 14:17	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**824**	ug/L	20.0	10.0	20		06/30/17 13:30	71-43-2	
Ethylbenzene	**509**	ug/L	20.0	10.0	20		06/30/17 13:30	100-41-4	
Naphthalene	**107**	ug/L	100	50.0	20		06/30/17 13:30	91-20-3	
Toluene	**150**	ug/L	20.0	10.0	20		06/30/17 13:30	108-88-3	
Xylene (Total)	**630**	ug/L	60.0	30.0	20		06/30/17 13:30	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	67-130		20		06/30/17 13:30	1868-53-7	
Toluene-d8 (S)	116	%	70-130		20		06/30/17 13:30	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-130		20		06/30/17 13:30	460-00-4	

Sample: MW-6 **Lab ID: 40152497002** Collected: 06/27/17 11:20 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**28.4J**	ug/L	51.1	15.3	1	07/01/17 08:41	07/06/17 14:38		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 09:45		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 15:42	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 15:42	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/30/17 15:42	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 15:42	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/30/17 15:42	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	67-130		1		06/30/17 15:42	1868-53-7	
Toluene-d8 (S)	115	%	70-130		1		06/30/17 15:42	2037-26-5	
4-Bromofluorobenzene (S)	89	%	61-130		1		06/30/17 15:42	460-00-4	

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ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: MW-9 **Lab ID: 40152497003** Collected: 06/27/17 13:10 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<14.9**	ug/L	49.6	14.9	1	07/01/17 08:41	07/06/17 12:50		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 10:51		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:04	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:04	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/30/17 16:04	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:04	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/30/17 16:04	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	102	%	67-130		1		06/30/17 16:04	1868-53-7	
Toluene-d8 (S)	116	%	70-130		1		06/30/17 16:04	2037-26-5	
4-Bromofluorobenzene (S)	88	%	61-130		1		06/30/17 16:04	460-00-4	

Sample: MW-10 **Lab ID: 40152497004** Collected: 06/27/17 08:40 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<14.7**	ug/L	49.1	14.7	1	07/01/17 08:41	07/06/17 12:59		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 11:17		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:26	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:26	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/30/17 16:26	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:26	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/30/17 16:26	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	67-130		1		06/30/17 16:26	1868-53-7	
Toluene-d8 (S)	117	%	70-130		1		06/30/17 16:26	2037-26-5	
4-Bromofluorobenzene (S)	88	%	61-130		1		06/30/17 16:26	460-00-4	

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ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: MW-14 **Lab ID: 40152497005** Collected: 06/27/17 12:30 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<16.0**	ug/L	53.2	16.0	1	07/01/17 08:41	07/06/17 13:08		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 11:43		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:48	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:48	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/30/17 16:48	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 16:48	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/30/17 16:48	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	67-130		1		06/30/17 16:48	1868-53-7	
Toluene-d8 (S)	117	%	70-130		1		06/30/17 16:48	2037-26-5	
4-Bromofluorobenzene (S)	88	%	61-130		1		06/30/17 16:48	460-00-4	

Sample: MW-21 **Lab ID: 40152497006** Collected: 06/27/17 09:20 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<15.0**	ug/L	50.1	15.0	1	07/01/17 08:41	07/06/17 13:17		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 12:09		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 17:10	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 17:10	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		06/30/17 17:10	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		06/30/17 17:10	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		06/30/17 17:10	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	67-130		1		06/30/17 17:10	1868-53-7	
Toluene-d8 (S)	115	%	70-130		1		06/30/17 17:10	2037-26-5	
4-Bromofluorobenzene (S)	90	%	61-130		1		06/30/17 17:10	460-00-4	

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ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: MW-22 **Lab ID: 40152497007** Collected: 06/27/17 13:55 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**3210**	ug/L	229	68.8	4	07/01/17 08:41	07/06/17 15:05		DC,L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**41300**	ug/L	5000	2960	100		07/03/17 11:45		GO
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**8500**	ug/L	125	62.5	125		07/03/17 10:10	71-43-2	
Ethylbenzene	**2580**	ug/L	125	62.5	125		07/03/17 10:10	100-41-4	
Naphthalene	**515J**	ug/L	625	312	125		07/03/17 10:10	91-20-3	
Toluene	**9900**	ug/L	125	62.5	125		07/03/17 10:10	108-88-3	
Xylene (Total)	**9330**	ug/L	375	188	125		07/03/17 10:10	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	67-130		125		07/03/17 10:10	1868-53-7	
Toluene-d8 (S)	101	%	70-130		125		07/03/17 10:10	2037-26-5	
4-Bromofluorobenzene (S)	90	%	61-130		125		07/03/17 10:10	460-00-4	

Sample: MW-25 **Lab ID: 40152497008** Collected: 06/27/17 14:25 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**<15.8**	ug/L	52.6	15.8	1	07/01/17 08:41	07/06/17 13:35		L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**<29.6**	ug/L	50.0	29.6	1		06/30/17 12:34		
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 15:19	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 15:19	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/03/17 15:19	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 15:19	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/03/17 15:19	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%	67-130		1		07/03/17 15:19	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/03/17 15:19	2037-26-5	
4-Bromofluorobenzene (S)	94	%	61-130		1		07/03/17 15:19	460-00-4	

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ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: PZ-10 **Lab ID: 40152497009** Collected: 06/27/17 09:50 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	**227**	ug/L	52.6	15.8	1	07/01/17 08:41	07/06/17 14:02		DC,L2
WIGRO GCV	Analytical Method: WI MOD GRO								
Gasoline Range Organics	**129**	ug/L	50.0	29.6	1		06/30/17 13:00		GO
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**3.1**	ug/L	1.0	0.50	1		07/03/17 08:19	71-43-2	
Ethylbenzene	**0.74J**	ug/L	1.0	0.50	1		07/03/17 08:19	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/03/17 08:19	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 08:19	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/03/17 08:19	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	67-130		1		07/03/17 08:19	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/03/17 08:19	2037-26-5	
4-Bromofluorobenzene (S)	91	%	61-130		1		07/03/17 08:19	460-00-4	

Sample: TRIP BLANK **Lab ID: 40152497010** Collected: 06/27/17 00:00 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 20:53	71-43-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 20:53	100-41-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/03/17 20:53	91-20-3	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/03/17 20:53	108-88-3	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		07/03/17 20:53	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	67-130		1		07/03/17 20:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/03/17 20:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-130		1		07/03/17 20:53	460-00-4	

Sample: DUPLICATE **Lab ID: 40152497011** Collected: 06/27/17 00:00 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**8920**	ug/L	125	62.5	125		07/03/17 10:32	71-43-2	
Ethylbenzene	**2690**	ug/L	125	62.5	125		07/03/17 10:32	100-41-4	
Naphthalene	**499J**	ug/L	625	312	125		07/03/17 10:32	91-20-3	
Toluene	**10400**	ug/L	125	62.5	125		07/03/17 10:32	108-88-3	
Xylene (Total)	**9870**	ug/L	375	188	125		07/03/17 10:32	1330-20-7	

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(920)469-2436

ANALYTICAL RESULTS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Sample: DUPLICATE **Lab ID: 40152497011** Collected: 06/27/17 00:00 Received: 06/29/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	100	%	67-130		125		07/03/17 10:32	1868-53-7	
Toluene-d8 (S)	103	%	70-130		125		07/03/17 10:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	61-130		125		07/03/17 10:32	460-00-4	

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QUALITY CONTROL DATA

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

QC Batch: 260229 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006, 40152497007, 40152497008, 40152497009

METHOD BLANK: 1533094 Matrix: Water
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006, 40152497007, 40152497008, 40152497009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<29.6	50.0	06/30/17 08:28	
a,a,a-Trifluorotoluene (S)	%	106	80-120	06/30/17 08:28	

LABORATORY CONTROL SAMPLE & LCSD: 1533095 1533096

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	200	172	180	86	90	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				108	106	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533223 1533224

Parameter	Units	40152497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						108	107	80-120			

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QUALITY CONTROL DATA

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

QC Batch: 260165 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40152497010

METHOD BLANK: 1532663 Matrix: Water
Associated Lab Samples: 40152497010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	07/03/17 18:14	
Ethylbenzene	ug/L	<0.50	1.0	07/03/17 18:14	
Naphthalene	ug/L	<2.5	5.0	07/03/17 18:14	
Toluene	ug/L	<0.50	1.0	07/03/17 18:14	
Xylene (Total)	ug/L	<1.5	3.0	07/03/17 18:14	
4-Bromofluorobenzene (S)	%	98	61-130	07/03/17 18:14	
Dibromofluoromethane (S)	%	98	67-130	07/03/17 18:14	
Toluene-d8 (S)	%	98	70-130	07/03/17 18:14	

LABORATORY CONTROL SAMPLE: 1532664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.0	94	73-145	
Ethylbenzene	ug/L	50	53.9	108	87-129	
Toluene	ug/L	50	52.3	105	82-130	
Xylene (Total)	ug/L	150	162	108	70-130	
4-Bromofluorobenzene (S)	%			112	61-130	
Dibromofluoromethane (S)	%			98	67-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534990 1534991

Parameter	Units	40152420022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	44.7	48.2	89	96	73-145	7	20	
Ethylbenzene	ug/L	<0.50	50	50	50.4	55.5	101	111	87-129	10	20	
Toluene	ug/L	<0.50	50	50	48.7	53.0	97	106	82-131	8	20	
Xylene (Total)	ug/L	<1.5	150	150	151	167	100	111	70-130	10	20	
4-Bromofluorobenzene (S)	%						108	110	61-130			
Dibromofluoromethane (S)	%						99	99	67-130			
Toluene-d8 (S)	%						99	102	70-130			

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QUALITY CONTROL DATA

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

QC Batch: 260225 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006

METHOD BLANK: 1533078 Matrix: Water
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	06/30/17 06:53	
Ethylbenzene	ug/L	<0.50	1.0	06/30/17 06:53	
Naphthalene	ug/L	<2.5	5.0	06/30/17 06:53	
Toluene	ug/L	<0.50	1.0	06/30/17 06:53	
Xylene (Total)	ug/L	<1.5	3.0	06/30/17 06:53	
4-Bromofluorobenzene (S)	%	93	61-130	06/30/17 06:53	
Dibromofluoromethane (S)	%	98	67-130	06/30/17 06:53	
Toluene-d8 (S)	%	114	70-130	06/30/17 06:53	

LABORATORY CONTROL SAMPLE: 1533079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.2	96	73-145	
Ethylbenzene	ug/L	50	54.1	108	87-129	
Toluene	ug/L	50	53.1	106	82-130	
Xylene (Total)	ug/L	150	152	101	70-130	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			99	67-130	
Toluene-d8 (S)	%			113	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533080 1533081

Parameter	Units	40152485011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	45.5	47.1	91	94	73-145	3	20	
Ethylbenzene	ug/L	<1.0	50	50	53.5	53.5	107	107	87-129	0	20	
Toluene	ug/L	<1.0	50	50	53.1	52.5	106	105	82-131	1	20	
Xylene (Total)	ug/L	<3.0	150	150	152	152	101	101	70-130	0	20	
4-Bromofluorobenzene (S)	%						104	103	61-130			
Dibromofluoromethane (S)	%						101	102	67-130			
Toluene-d8 (S)	%						117	115	70-130			

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QUALITY CONTROL DATA

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

QC Batch: 260226 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40152497007, 40152497008, 40152497009, 40152497011

METHOD BLANK: 1533082 Matrix: Water
Associated Lab Samples: 40152497007, 40152497008, 40152497009, 40152497011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	07/03/17 06:51	
Ethylbenzene	ug/L	<0.50	1.0	07/03/17 06:51	
Naphthalene	ug/L	<2.5	5.0	07/03/17 06:51	
Toluene	ug/L	<0.50	1.0	07/03/17 06:51	
Xylene (Total)	ug/L	<1.5	3.0	07/03/17 06:51	
4-Bromofluorobenzene (S)	%	93	61-130	07/03/17 06:51	
Dibromofluoromethane (S)	%	101	67-130	07/03/17 06:51	
Toluene-d8 (S)	%	102	70-130	07/03/17 06:51	

LABORATORY CONTROL SAMPLE: 1533083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.5	101	73-145	
Ethylbenzene	ug/L	50	56.6	113	87-129	
Toluene	ug/L	50	54.9	110	82-130	
Xylene (Total)	ug/L	150	171	114	70-130	
4-Bromofluorobenzene (S)	%			102	61-130	
Dibromofluoromethane (S)	%			100	67-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533123 1533124

Parameter	Units	40152497009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	3.1	50	50	54.8	54.1	104	102	73-145	1	20	
Ethylbenzene	ug/L	0.74J	50	50	56.2	55.2	111	109	87-129	2	20	
Toluene	ug/L	<0.50	50	50	54.1	52.6	108	105	82-131	3	20	
Xylene (Total)	ug/L	<1.5	150	150	169	163	113	109	70-130	4	20	
4-Bromofluorobenzene (S)	%						102	101	61-130			
Dibromofluoromethane (S)	%						99	100	67-130			
Toluene-d8 (S)	%						102	102	70-130			

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QUALITY CONTROL DATA

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

QC Batch: 260356 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006, 40152497007, 40152497008, 40152497009

METHOD BLANK: 1534114 Matrix: Water
Associated Lab Samples: 40152497001, 40152497002, 40152497003, 40152497004, 40152497005, 40152497006, 40152497007, 40152497008, 40152497009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	ug/L	<15.5	51.6	07/06/17 11:37	

LABORATORY CONTROL SAMPLE & LCSD: 1534115 1534116

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	ug/L	1000	627	879	63	88	75-115	33	20	L2,R1

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QUALIFIERS

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

ANALYTE QUALIFIERS

DC	Chromatographic pattern inconsistent with typical Diesel Fuel.
GO	Early and late peaks present outside the GRO window.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-7397021.200 FHR JCT ANNUAL
Pace Project No.: 40152497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152497001	**MW-5**	WI MOD DRO	260356	WI MOD DRO	260362
40152497002	**MW-6**	WI MOD DRO	260356	WI MOD DRO	260362
40152497003	**MW-9**	WI MOD DRO	260356	WI MOD DRO	260362
40152497004	**MW-10**	WI MOD DRO	260356	WI MOD DRO	260362
40152497005	**MW-14**	WI MOD DRO	260356	WI MOD DRO	260362
40152497006	**MW-21**	WI MOD DRO	260356	WI MOD DRO	260362
40152497007	**MW-22**	WI MOD DRO	260356	WI MOD DRO	260362
40152497008	**MW-25**	WI MOD DRO	260356	WI MOD DRO	260362
40152497009	**PZ-10**	WI MOD DRO	260356	WI MOD DRO	260362
40152497001	**MW-5**	WI MOD GRO	260229		
40152497002	**MW-6**	WI MOD GRO	260229		
40152497003	**MW-9**	WI MOD GRO	260229		
40152497004	**MW-10**	WI MOD GRO	260229		
40152497005	**MW-14**	WI MOD GRO	260229		
40152497006	**MW-21**	WI MOD GRO	260229		
40152497007	**MW-22**	WI MOD GRO	260229		
40152497008	**MW-25**	WI MOD GRO	260229		
40152497009	**PZ-10**	WI MOD GRO	260229		
40152497001	**MW-5**	EPA 8260	260225		
40152497002	**MW-6**	EPA 8260	260225		
40152497003	**MW-9**	EPA 8260	260225		
40152497004	**MW-10**	EPA 8260	260225		
40152497005	**MW-14**	EPA 8260	260225		
40152497006	**MW-21**	EPA 8260	260225		
40152497007	**MW-22**	EPA 8260	260226		
40152497008	**MW-25**	EPA 8260	260226		
40152497009	**PZ-10**	EPA 8260	260226		
40152497010	**TRIP BLANK**	EPA 8260	260165		
40152497011	**DUPLICATE**	EPA 8260	260226		

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Sample Condition Upon Receipt

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1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40152497**

40152497

Client Name: Tetra Tech

Courier: [X] Fed Ex [ ] UPS [ ] Client [ ] Pace Other:

Tracking #: 7870 1534 3038, 7810 1534 3049

Custody Seal on Cooler/Box Present: [X] yes [ ] no Seals intact: [X] yes [ ] no

Custody Seal on Samples Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other

Thermometer Used N/A **Type of Ice:** Wet Blue Dry None [X] Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R0I /Corr: **Biological Tissue is Frozen:** [ ] yes [ ] no

Temp Blank Present: [ ] yes [X] no

Person examining contents:
Date: 6/28/17
Initials: SM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

		Comments:
Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
- VOA Samples frozen upon receipt	[ ]Yes [ ]No	Date/Time:
Short Hold Time Analysis (<72hr):	[ ]Yes [X]No [ ]N/A	6.
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
-Pace IR Containers Used:	[ ]Yes [ ]No [X]N/A	
Containers Intact:	[ ]Yes [X]No [ ]N/A	10. 001 x 1 vial broken, 005 x 1 vial broken SM 6/28/17
Filtered volume received for Dissolved tests	[ ]Yes [ ]No [ ]N/A	11.
Sample Labels match COC:	[ ]Yes [X]No [ ]N/A	12. 003 - time on vials is "320" SM 6/28/17
-Includes date/time/ID/Analysis Matrix: W		011 - added to COC per PM
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	[ ]Yes [ ]No [X]N/A	13. [ ] HNO3 [ ] H2SO4 [ ] NaOH [ ] NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	[ ]Yes [ ]No [X]N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: GRO	[X]Yes [ ]No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	[ ]Yes [X]No [ ]N/A	14.
Trip Blank Present:	[X]Yes [ ]No [ ]N/A	15.
Trip Blank Custody Seals Present	[X]Yes [ ]No [ ]N/A	
Pace Trip Blank Lot # (if purchased): 381		

Client Notification/ Resolution:
If checked, see attached form for additional comments [ ]
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: **Date:** 6-29-17

(Please Print Clearly)

Company Name:	TETRA TECH
Branch/Location:	Schofield WI
Project Contact:	M Meurette
Phone:	715-297-6277
Project Number:	117-7397021.200
Project Name:	FHR JCT Annual G.W. Sampling
Project State:	WI
Sampled By (Print):	Craig Wieman
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

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MN: 612-607-1700 WI: 920-469-2436

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4015 2497

COC No. 021511

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RMW

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	M Meurette
Mail To Company:	Tetra Tech
Mail To Address:	5404 Alderson Schofield WI
Invoice To Contact:	SAME
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Analyses Requested	BTEX 8260 + Napthalene	GRO	DRO
Y/N	N	N	N
Pick Letter	B	B	B

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	BTEX 8260 + Napthalene	GRO	DRO	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-5	6-27-17	11:00	GW	X	X	X	1-1Lag B	5-40mLv B	
002	MW-6		11:20		X	X	X		6-40mLv B	
003	MW-9		13:10		X	X	X			
004	MW-10		8:40		X	X	X			
005	MW-14		12:30		X	X	X			
006	MW-21		09:20		X	X	X			
007	MW-22		13:55		X	X	X			
008	MW-25		14:25		X	X	X			
009	PZ-10		09:50		X	X	X			
010	Trip BLANK		—		X				4-40mLv B	
011	Duplicate	6/27	—	GW	X ①				① Added to COC	
~~012~~									per CW 6-29-17	
SSM 6/29/17										

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/27/17 16:50	Fed Ex	6/27/17 16:50
Fed Ex	6/28/17 0955	[signature]	6/28/17 0955

PACE Project No. 4015-2497

Receipt Temp = RO ! °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL