



August 1, 2017

Maria Bebenek
Manager, Clean Water Program
DEP, SCRO
909 Elmerton Avenue
Harrisburg, Pa 17110

RE: **July 2017** Monthly Report, Site-Specific Study Plan

Dear Ms. Bebenek;

In accordance with Section 3.e of the August 21, 2015 Consent Order and Agreement, the following is the July 2017 monthly report for the Site-Specific Methylmercury Water Quality Criterion Stream Study Plan (the Plan).

Activities Accomplished:

- The NPDES-01 and NPDES-02 samples were collected on July 18, 2017 and sent to Geochemical Testing for analysis.
- Stream water quality samples were collected on July 18, 2017. Samples were collected at stream stations RR-01 (identified in figure 3-1 of the Plan), Rambo Down (located in the mixed zone below NPDES-01), EC-02 (identified in figure 3-2 of Plan) and Ebaughs Down (located in the mixed zone below NPDES-02). Stream samples RR-01, Rambo Down, EC-02 and Ebaughs Down were sent to Brooks Applied Laboratory for analysis.

Results:

- Attached are the analytical results as reported by Geochemical Testing from the July 18, 2017 samples for NPDES-01 and NPDES-02.
- Attached are the analytical results as reported by Brooks Applied Laboratory for stream samples collected on June 6, 2017. Included are results from RR-01, Rambo Down, EC-02 and Ebaughs Down.
- The June 6, 2017 equipment blank sample had a trace detection of 0.72 ng/l for total Hg which is above the Method Reporting Limit of 0.40 ng/l. Analysis performed by Brooks Applied Laboratory.

- Stream discharge measurements were taken on July 18, 2017 in the area where stream samples are collected at RR-01 and EC-02. The following are the results.
 - RR-01:

Measurement 1:	1.89 ft ³ /sec
Measurement 2:	1.84 ft ³ /sec
Average:	1.86 ft ³ /sec
 - EC-02:

Measurement 1:	2.94 ft ³ /sec
Measurement 2:	2.92 ft ³ /sec
Average:	2.93 ft ³ /sec

Feel free to contact me if you have any questions or comments on the information provided in this monthly report.

Respectfully,



Richard A. Hazenstab, P.G.
Coordinator
Operations and Environmental Programs

cc: D. Vollero; D. Jasitt; J. Beuschlein; J. Collins

Attached: Brooks Applied Laboratory analysis for stream samples, June 6, 2017
Geochemical Testing analysis for NPDES-01, July 18, 2017
Geochemical Testing analysis for NPDES-02, July 18, 2017
Stream Discharge, July 18, 2017
Field Data, July 18, 2017



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
RR-01	1723016-01	Water	Sample	06/06/2017	06/07/2017
RR-01	1723016-02	Water	Sample	06/06/2017	06/07/2017
Rambo Down	1723016-03	Water	Sample	06/06/2017	06/07/2017
Rambo Down	1723016-04	Water	Sample	06/06/2017	06/07/2017
EC-02	1723016-05	Water	Sample	06/06/2017	06/07/2017
EC-02	1723016-06	Water	Sample	06/06/2017	06/07/2017
Ebaughs Down	1723016-07	Water	Sample	06/06/2017	06/07/2017
Ebaughs Down	1723016-08	Water	Sample	06/06/2017	06/07/2017
Equipment Blank	1723016-09	Water	Equip. Blank	06/06/2017	06/07/2017
Equipment Blank	1723016-10	Water	Equip. Blank	06/06/2017	06/07/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	Water	EPA 1631 E	06/15/2017	06/21/2017	B171399	1700742
Hg	Water	EPA 1631 E	06/15/2017	06/23/2017	B171525	1700753
MeHg	Water	EPA 1630	06/12/2017	06/14/2017	B171400	1700702



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Ebaughs Down										
1723016-07	Hg	Water	TR	189		0.40	1.21	ng/L	B171399	1700742
1723016-08	MeHg	Water	D	≤ 0.019	U	0.019	0.049	ng/L	B171400	1700702
EC-02										
1723016-05	Hg	Water	TR	1.15		0.10	0.40	ng/L	B171525	1700753
1723016-06	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B171400	1700702
Equipment Blank										
1723016-09	Hg	Water	TR	0.72		0.10	0.40	ng/L	B171525	1700753
1723016-10	MeHg	Water	D	0.072		0.020	0.050	ng/L	B171400	1700702
Rambo Down										
1723016-03	Hg	Water	TR	170		2.02	6.04	ng/L	B171399	1700742
1723016-04	MeHg	Water	D	0.200		0.020	0.050	ng/L	B171400	1700702
RR-01										
1723016-01	Hg	Water	TR	1.03		0.10	0.40	ng/L	B171525	1700753
1723016-02	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B171400	1700702

Laboratory Results

Geochemical Testing

Date: 25-Jul-17

CLIENT:	YORK COUNTY SWRA	Client Sample ID:	NPDES-1
Lab Order:	G1707A30		
Project:	York County SWRA 600 Q	Sampled By:	Client
Lab ID:	G1707A30-001	Collection Date:	7/18/2017 8:35:00 AM
Matrix:	AQUEOUS	Received Date:	7/19/2017 11:31:11 AM

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
PH BY SM 4500 H+B							
Analyst:	AXH			SM 4500-H+ B			
Lab pH	7.99		H	S.U.	1		07/19/17 5:02 PM
INORGANIC NON-METALS							
Analyst:	SMS			ASTM D7511-09			
Cyanide, total	< 0.020	0.020		mg/L	1		07/20/17 9:54 AM
INORGANIC NON-METALS							
Analyst:	SAG			EPA 180.1		EPA 180.1	
Turbidity	0.6	0.1		NTU	1	07/19/17 12:30 PM	07/19/17 12:38 PM
INORGANIC METALS							
Analyst:	GXI			EPA 200.2		EPA 200.7	
Beryllium, dissolved	< 0.004	0.004		mg/L	1	07/19/17 1:00 PM	07/21/17 12:42 AM
Chromium, dissolved	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:42 AM
Nickel, dissolved	< 0.02	0.02		mg/L	1	07/19/17 1:00 PM	07/21/17 12:42 AM
Zinc, dissolved	0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:42 AM
INORGANIC METALS							
Analyst:	RLR			EPA 200.2		EPA 200.8	
Antimony, dissolved	< 2.0	2.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Arsenic, dissolved	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Cadmium, dissolved	< 0.2	0.2		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Copper, dissolved	< 4.0	4.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Lead, dissolved	< 1.0	1.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Selenium, dissolved	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
Silver, dissolved	< 0.4	0.4		µg/L	1	07/19/17 1:00 PM	07/20/17 11:37 AM
TOTAL METALS							
Analyst:	LNG			EPA 245.7		EPA 245.7	
Mercury	310	20.0		ng/L	10	07/20/17 11:10 AM	07/21/17 10:26 AM
INORGANIC METALS							
Analyst:	GXI			EPA 200.2		EPA 200.7	
Beryllium	< 0.004	0.004		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Calcium	20.0	0.1		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Chromium	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Magnesium	11.4	0.1		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Nickel	< 0.02	0.02		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Zinc	0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:32 AM
Hardness (SM 2340B)	96.8	1.0		mg/L CaCO3	1	07/19/17 1:00 PM	07/21/17 12:32 AM
INORGANIC METALS							
Analyst:	RLR			EPA 200.2		EPA 200.8	
Antimony	< 2.0	2.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
Arsenic	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
Cadmium	< 0.2	0.2		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
Copper	< 4.0	4.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
Lead	< 1.0	1.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
Selenium	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM

Laboratory Results

Geochemical Testing

Date: 25-Jul-17

CLIENT:	YORK COUNTY SWRA	Client Sample ID:	NPDES-1
Lab Order:	G1707A30		
Project:	York County SWRA 600 Q	Sampled By:	Client
Lab ID:	G1707A30-001	Collection Date:	7/18/2017 8:35:00 AM
Matrix:	AQUEOUS	Received Date:	7/19/2017 11:31:11 AM

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
INORGANIC METALS		Analyst: RLR				EPA 200.2	EPA 200.8
Silver	< 0.4	0.4		µg/L	1	07/19/17 1:00 PM	07/20/17 11:35 AM
VOLATILE ORGANIC COMPOUNDS		Analyst: SJM					EPA 624
1,1,1-Trichloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
1,1-Dichloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
1,1-Dichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Chloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
cis-1,2-Dichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Dichlorodifluoromethane	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Methylene Chloride	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Tetrachloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Tetrahydrofuran	< 1.0	1.0		µg/L	1		07/20/17 7:54 AM
Trichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Trichlorofluoromethane	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Vinyl Chloride	< 0.5	0.5		µg/L	1		07/20/17 7:54 AM
Surr: 1,2-Dichloroethane-d4	92.0	80-120		%REC	1		07/20/17 7:54 AM
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1		07/20/17 7:54 AM
Surr: Toluene-d8	97.6	80-120		%REC	1		07/20/17 7:54 AM

Laboratory Results

Geochemical Testing

Date: 25-Jul-17

CLIENT:	YORK COUNTY SWRA	Client Sample ID:	NPDES-2
Lab Order:	G1707A29		
Project:	York County SWRA 600 Q	Sampled By:	Client
Lab ID:	G1707A29-001	Collection Date:	7/18/2017 10:00:00 AM
Matrix:	AQUEOUS	Received Date:	7/19/2017 11:25:05 AM

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
PH BY SM 4500 H+B							
Lab pH	7.54		H	S.U.	1		07/19/17 4:59 PM
INORGANIC NON-METALS							
Cyanide, total	< 0.020	0.020		mg/L	1		07/20/17 9:48 AM
INORGANIC NON-METALS							
Turbidity	0.3	0.1		NTU	1	07/19/17 12:30 PM	07/19/17 12:38 PM
INORGANIC METALS							
Beryllium, dissolved	< 0.004	0.004		mg/L	1	07/19/17 1:00 PM	07/21/17 12:28 AM
Chromium, dissolved	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:28 AM
Nickel, dissolved	< 0.02	0.02		mg/L	1	07/19/17 1:00 PM	07/21/17 12:28 AM
Zinc, dissolved	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/21/17 12:28 AM
INORGANIC METALS							
Antimony, dissolved	< 2.0	2.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Arsenic, dissolved	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Cadmium, dissolved	< 0.2	0.2		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Copper, dissolved	< 4.0	4.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Lead, dissolved	< 1.0	1.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Selenium, dissolved	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
Silver, dissolved	< 0.4	0.4		µg/L	1	07/19/17 1:00 PM	07/20/17 11:30 AM
TOTAL METALS							
Mercury	155	4.0		ng/L	2	07/20/17 11:10 AM	07/21/17 10:23 AM
INORGANIC METALS							
Beryllium	< 0.004	0.004		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Calcium	12.4	0.1		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Chromium	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Magnesium	6.4	0.1		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Nickel	< 0.02	0.02		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Zinc	< 0.01	0.01		mg/L	1	07/19/17 1:00 PM	07/20/17 11:33 PM
Hardness (SM 2340B)	57.4	1.0		mg/L CaCO ₃	1	07/19/17 1:00 PM	07/20/17 11:33 PM
INORGANIC METALS							
Antimony	< 2.0	2.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
Arsenic	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
Cadmium	< 0.2	0.2		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
Copper	< 4.0	4.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
Lead	< 1.0	1.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
Selenium	< 5.0	5.0		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM

Laboratory Results

Geochemical Testing

Date: 25-Jul-17

CLIENT:	YORK COUNTY SWRA	Client Sample ID:	NPDES-2
Lab Order:	G1707A29		
Project:	York County SWRA 600 Q	Sampled By:	Client
Lab ID:	G1707A29-001	Collection Date:	7/18/2017 10:00:00 AM
Matrix:	AQUEOUS	Received Date:	7/19/2017 11:25:05 AM

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
INORGANIC METALS		Analyst: RLR		EPA 200.2		EPA 200.8	
Silver	< 0.4	0.4		µg/L	1	07/19/17 1:00 PM	07/20/17 11:17 AM
VOLATILE ORGANIC COMPOUNDS		Analyst: SJM		EPA 624			
1,1,1-Trichloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
1,1-Dichloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
1,1-Dichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Chloroethane	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
cis-1,2-Dichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Dichlorodifluoromethane	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Methylene Chloride	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Tetrachloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Tetrahydrofuran	1.3	1.0		µg/L	1		07/20/17 7:29 AM
Trichloroethene	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Trichlorofluoromethane	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Vinyl Chloride	< 0.5	0.5		µg/L	1		07/20/17 7:29 AM
Surr: 1,2-Dichloroethane-d4	91.2	80-120		%REC	1		07/20/17 7:29 AM
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1		07/20/17 7:29 AM
Surr: Toluene-d8	97.2	80-120		%REC	1		07/20/17 7:29 AM



STREAM DISCHARGE MEASUREMENT
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY

Study Area: RR-01

Transect: _____

Date: 7/18/17

Operator: Bill Jones

Weather (Circle)

Air Temp (°F): _____

Current: Storm (heavy rain) Rain (steady rain) Showers (intermittent) Partly Cloudy Clear/Sunny

Past 24 Hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent) Partly Cloudy Clear/Sunny

SITE DESCRIPTION

Yes

No

Straight reach
Streambed uniform
Flow uniform
Reduced flow near edges
Large woody debris present
Aquatic vegetation present

Yes	No
☒	☐
☒	☐
☒	☐
☒	☐
☒	☒
☒	☐

NOTES:

Approx. stream width

18

*No subsection should contain >10% of total discharge, ideal <5%

Approx. number of verticals

19

*10-25 verticals recommended but adjust to conditions and objectives

OTT MF Pro

Measurement 1

Filename

RR-JUL-1

Start time

0730

End time

0750

Total stream discharge (Q)

1.886

Measurement 2

Filename

RR-JUL-2

Start time

0752

End time

0812

Total stream discharge (Q)

1.841

Measurement 3

Filename

Start time

End time

Total stream discharge (Q)

IN CASE OF EMERGENCY:

- 1) Administer first aid if necessary
- 2) Call 911 and state your location in the following order of preference:
 - a) With a GPS-enabled phone if available
 - b) Use nearest road intersections as displayed on maps
 - c) Coordinates and coordinate system of nearest "T" point as identified on the maps
 - d) With coordinates off of GPS

Notes:



STREAM DISCHARGE MEASUREMENT
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY

Study Area: EC-02
Date: 7/18/17

Transect: _____
Operator: Bill Jones

Weather (Circle)

Air Temp (°F): _____

Current: Storm (heavy rain) Rain (steady rain) Showers (intermittent) Partly Cloudy Clear/Sunny

Past 24 Hours: Storm (heavy rain) Rain (steady rain) Showers (intermittent) Partly Cloudy Clear/Sunny

SITE DESCRIPTION

Yes	No
☒	☐
☒	☐
☒	☐
☒	☐
☐	☒
☒ & <u>10%</u>	☐

NOTES:

Approx. stream width

17
18

*No subsection should contain >10% of total discharge, ideal <5%

Approx. number of verticals

*10-25 verticals recommended but adjust to conditions and objectives

OTT MF Pro

Measurement 1

Filename: EC-JUL-1
Start time: 0855
End time: 0915
Total stream discharge (Q): 2.940

IN CASE OF EMERGENCY:

- 1) Administer first aid if necessary
- 2) Call 911 and state your location in the following order of preference:
 - a) With a GPS-enabled phone if available
 - b) Use nearest road intersections as displayed on maps
 - c) Coordinates and coordinate system of nearest "T" point as identified on the maps
 - d) With coordinates off of GPS

Measurement 2

Filename: EC-JUL-2
Start time: 0919
End time: 0937
Total stream discharge (Q): 2.921

Measurement 3

Filename: _____
Start time: _____
End time: _____
Total stream discharge (Q): _____

Notes:



**SURFACE WATER SAMPLE CHARACTERIZATION
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY**

SAMPLE IDENTIFICATION: <i>RR-01</i>	NORTHING:	EASTING:
INVESTIGATORS: <i>TG/FK</i>	DATE: <i>7/18/17</i> TIME: <i>0740</i>	WATER DEPTH: <i>8"</i>
FORM COMPLETED BY: <i>FK</i>		

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days?
	☐	☐	Yes / No
	☐	☐	
	☐	☒	Air Temperature <i>75</i> °F
	☒	☐	
	☐	☐	Other:

WATER QUALITY PARAMETERS

Parameter	Measurement	Surface Water Characteristics:
Temperature (°C):	<i>17.5</i>	
DO (mg/L):		Color: <i>clear</i>
DO (% Saturation):		
pH:	<i>6.00</i>	Odor: <i>None</i>
Conductivity (µS/cm):	<i>175</i>	
ORP (mV):		Other: <i>NA</i>

SURFACE WATER ANALYSES

Parameter	Unfiltered	Filtered	QA/QC:
Total Mercury (THg)	☒		Duplicate Sample Station? (Y/N) <i>(N)</i>
Methylmercury (MeHg)		☒	MS/MSD Sample Station? (Y/N) <i>(N)</i>
Sample Depth (feet):			

NOTES: *FK - Sampler*



SURFACE WATER SAMPLE CHARACTERIZATION
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY

SAMPLE IDENTIFICATION: <i>Rambo Down</i>	NORTHING:	EASTING:
INVESTIGATORS: <i>TG/FKTBJ</i>	DATE: <i>7/18/17</i> TIME: <i>0825</i>	WATER DEPTH: <i>6"</i>
FORM COMPLETED BY:		

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <i>(Yes/No)</i> Yes ☒ No ☐ Air Temperature <i>76</i> °F Other:
	☐	☐ storm	
	☐	☐ rain	
	☐	☒ showers	
	☒	☐ partly cloudy	
	☐	☐ clear/sunny	

WATER QUALITY PARAMETERS

Parameter	Measurement	Surface Water Characteristics:
Temperature (°C):	<i>19.6</i>	
DO (mg/L):		Color: <i>Clear</i>
DO (% Saturation):		
pH:	<i>6.43</i>	Odor: <i>None</i>
Conductivity (µS/cm):	<i>264</i>	
ORP (mV):		Other: <i>NA</i>

SURFACE WATER ANALYSES

Parameter	Unfiltered	Filtered
Total Mercury (THg)	☒	
Methylmercury (MeHg)		☒

QA/QC:

Duplicate Sample Station? (Y/N) *(N)*

MS/MSD Sample Station? (Y/N) *(N)*

Sample Depth (feet):

NOTES: *FK*



SURFACE WATER SAMPLE CHARACTERIZATION
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY

SAMPLE IDENTIFICATION: <i>EC-02</i>	NORTHING:	EASTING:
INVESTIGATORS: <i>TG / FK</i>	DATE: <i>7/18/17</i> TIME: <i>0855</i>	WATER DEPTH: <i>6"</i>
FORM COMPLETED BY: <i>FK</i>		

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <i>Yes</i> / No Air Temperature <i>80</i> °F Other:	
	☐	☐		storm
	☐	☐		rain
	☐	☒		showers
	☒	☐		partly cloudy
	☐	☐		clear/sunny

WATER QUALITY PARAMETERS

Parameter	Measurement	Surface Water Characteristics:
Temperature (°C):	<i>18.4</i>	
DO (mg/L):		Color: <i>Clear</i>
DO (% Saturation):		
pH:	<i>7.09</i>	Odor: <i>None</i>
Conductivity (µS/cm):	<i>226</i>	
ORP (mV):		Other: <i>NA</i>

SURFACE WATER ANALYSES

Parameter	Unfiltered	Filtered	QA/QC:
Total Mercury (THg)	☒		Duplicate Sample Station? (Y / N)
Methylmercury (MeHg)		☒	MS/MSD Sample Station? (Y / N)
Sample Depth (feet):			

NOTES: *FK - Sampler*



SURFACE WATER SAMPLE CHARACTERIZATION
YORK COUNTY SOLID WASTE AND REFUSE AUTHORITY

SAMPLE IDENTIFICATION: <i>Ebaughs Down</i>	NORTHING:	EASTING:
INVESTIGATORS: <i>FK / TG / BJ</i>	DATE: <i>7/18/17</i> TIME: <i>0950</i>	WATER DEPTH: <i>8"</i>
FORM COMPLETED BY: <i>FL</i>		

WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days?
	☐	☐	storm
	☐	☐	rain
	☐	☒	showers
	☒	☐	partly cloudy
	☐	☐	clear/sunny
			Air Temperature <i>80</i> °F
			Other:

WATER QUALITY PARAMETERS

Parameter	Measurement	Surface Water Characteristics:
Temperature (°C):	<i>16.4</i>	
DO (mg/L):		Color: <i>Clear</i>
DO (% Saturation):		
pH:	<i>7.39</i>	Odor: <i>NA</i>
Conductivity (µS/cm):	<i>198</i>	
ORP (mV):		Other: <i>NA</i>

SURFACE WATER ANALYSES

Parameter	Unfiltered	Filtered
Total Mercury (THg)	☒	
Methylmercury (MeHg)		☒

QA/QC:

Duplicate Sample Station? (Y / N)

MS/MSD Sample Station? (Y / N)

Sample Depth (feet):

NOTES: *FK - Sampler*

*Stream depth higher due to bridge
installed 15' below sampling pt.
Less flow*