



OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

ADDENDUM NO. 1

**BID INVITATION NO. 4299
REMOVAL, TRANSPORT, AND DISPOSAL OF WASTEWATER
SLUDGE & FLOOR DRAIN/STORM WATER TREATMENT WASTE**

OPENING DATE:
PREVIOUSLY EXTENDED TO: 2:00 P.M. (EASTERN TIME), JULY 14, 2017

ATTENTION OF BIDDERS IS DIRECTED TO:
ANSWERS TO QUESTIONS RECEIVED THROUGH 11AM ON JULY 5, 2017

Issued by the Ohio Turnpike and Infrastructure Commission on June 5, 2017. Issuance authorized by Mark R. Musson, Director of Contracts Administration.

A blue ink signature of Mark R. Musson.

Mark R. Musson

Date

ANSWERS TO QUESTIONS RECEIVED THROUGH 11:00 AM ON JULY 5, 2017:

Q#2 Item 1 includes septic tank, wet well, and holding tank sludge – is there an estimated quantity for each type of pick up? For example, we have to use a different truck for septic waste vs holding tank sludge

A#2 The Commission anticipates 50% of callouts will be for Septic Tanks and 50% for Wet Well/Holding Tank services as part of Item 1. Typically, the holding tanks are part of the wet well system and will be serviced accordingly.

Q#3 On page 7b first paragraph, is it a typo where it says that “The treatment systems at the Maintenance buildings treat water from the building’s interior floor drains and typically contain sludges that have percent solids above five percent (5%)” All sludges are above 5%, should that actually read below 5%?

A#3 No, the sentence is correct. Maintenance building treatment systems typically contain sludges that are 5% or greater depending on the activities performed recently at the building. Some maintenance building facilities may have hard packed sediment and percent solids upwards of 90%. Service plaza treatment systems typically contain sludges that have percent solids below 5%.

Q#4 The bid says that there is waste characterization information. Is that information available yet?

A#4 Please see the attached analytical reports for Catch Basins and Oil/Water Separators. Additionally, please see the attached 2016 Sludge Report and the Monthly Operating Report for May 2017 for the Erie Islands WWTP.

Q#5 Item 3, what type of sludge will be picked up from the wastewater treatment plant?

A#5 Sludges to be picked up from the wastewater treatment plant are typical wastewater sludges. Please see the attached Monthly Operating Report for May 2017 for the Erie Islands WWTP for more information.

**Receipt of Addendum No. 2
Invitation No. 4299 is hereby acknowledged:**

(Firm Name) _____

(Signature) _____

(Printed Name) _____

(Date) _____

ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Lab Project # L16-19925
Received: 11/03/2016
Reported: 11/11/2016
Date/Time Sampled: 11/02/2016 14:00
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

Sample ID: DIV 1 - Catch Basin

Lab Sample # L16-19925-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/10/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/10/2016
Lead, TCLP	0.145	mg/L	0.10	SW-6010B	EAT		11/10/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Ethylbenzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Toluene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Xylenes, Total	<0.060	mg/Kg	0.060	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	99.8 (21.6-145.5)	%		SW-8260B	MS		11/08/2016
(Surrogate) Toluene d8	104.6 (58.1-163.9)	%		SW-8260B	MS		11/08/2016
(Surrogate) 4-Bromofluorobenzene	73.4 (45.1-151.6)	%		SW-8260B	MS		11/08/2016
TCLP extraction	*	Y/N		SW-1311	ZZ		11/09/2016

Analysis Certified By:


 Lanie Wenning



ANALYTICAL REPORT

Lab Project # L16-19874
Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 11:30
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Project Name: Ohio Turnpike TCLP

The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: MB1 O/W Separator

Lab Sample # L16-19874-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Ethylbenzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Toluene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Xylenes, Total	<0.060	mg/Kg	0.060	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	90.5	%		SW-8260B	MS		11/08/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	96.8	%		SW-8260B	MS		11/08/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	82.1	%		SW-8260B	MS		11/08/2016
	(45.1-151.6)						
TCLP extraction	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By: _____

Lane L Jackson

ANALYTICAL REPORT
Lab Project # L16-19874

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 09:40
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

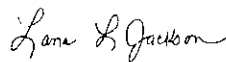
The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: MB2 O/W Separator

Lab Sample # L16-19874-02

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Ethylbenzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Toluene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Xylenes, Total	<0.060	mg/Kg	0.060	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	93.2	%		SW-8260B	MS		11/08/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	103.9	%		SW-8260B	MS		11/08/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	80.1	%		SW-8260B	MS		11/08/2016
	(45.1-151.6)						
TCLP extraction	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By:



ANALYTICAL REPORT
Lab Project # L16-19874

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 08:45
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: MB3 O/W Seperator

Lab Sample # L16-19874-03

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Ethylbenzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Toluene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Xylenes, Total	<0.060	mg/Kg	0.060	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	93.7	%		SW-8260B	MS		11/08/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	111.2	%		SW-8260B	MS		11/08/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	136.7	%		SW-8260B	MS		11/08/2016
	(45.1-151.6)						
TCLP extraction	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By:



ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Lab Project # L16-19874
Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 11:00
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: MB4 O/W Separator

Lab Sample # L16-19874-04

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Ethylbenzene	0.017	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Toluene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/08/2016
Xylenes, Total	0.091	mg/Kg	0.060	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	118.8	%		SW-8260B	MS		11/08/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	100.6	%		SW-8260B	MS		11/08/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	73.7	%		SW-8260B	MS		11/08/2016
	(45.1-151.6)						
TCLP extraction	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By: _____

Lane S. Jackson

ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Lab Project # L16-19874
Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 13:00
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: EI O/W Seperator

Lab Sample # L16-19874-05

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/16/2016
Benzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/15/2016
Ethylbenzene	<0.013	mg/Kg	0.013	SW-8260B	MS		11/15/2016
Toluene	0.019	mg/Kg	0.013	SW-8260B	MS		11/15/2016
Xylenes, Total	<0.060	mg/Kg	0.060	SW-8260B	MS		11/15/2016
(Surrogate) 1,2-Dichloroethane d4	112.3	%		SW-8260B	MS		11/15/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	112.4	%		SW-8260B	MS		11/15/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	73.8	%		SW-8260B	MS		11/15/2016
	(45.1-151.6)						
TCLP extraction	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By: _____

Lana R Jackson

ANALYTICAL REPORT
Lab Project # L16-19874

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

Received: 11/03/2016
Reported: 11/22/2016
Date/Time Sampled: 11/02/2016 10:00
Sampled By: BO/KC
Sampled Matrix: Solid
Containers: 1

Project Name: Ohio Turnpike TCLP

The halogen analyses were performed by a sub-contract laboratory. Results are attached.

Sample ID: CP O/W Seperator

Lab Sample # L16-19874-06

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Paint Filter	*	Y/N		SW-9095	KAT		11/04/2016
	Fail						
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/10/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/10/2016
Lead, TCLP	<0.50	mg/L	0.50	SW-6010B	EAT		11/10/2016
	Reported at higher detection level						
Benzene	<0.007	mg/Kg	0.007	SW-8260B	MS		11/08/2016
Ethylbenzene	<0.007	mg/Kg	0.007	SW-8260B	MS		11/08/2016
Toluene	<0.007	mg/Kg	0.007	SW-8260B	MS		11/08/2016
Xylenes, Total	<0.030	mg/Kg	0.030	SW-8260B	MS		11/08/2016
(Surrogate) 1,2-Dichloroethane d4	85.5	%		SW-8260B	MS		11/08/2016
	(21.6-145.5)						
(Surrogate) Toluene d8	100.8	%		SW-8260B	MS		11/08/2016
	(58.1-163.9)						
(Surrogate) 4-Bromofluorobenzene	78.3	%		SW-8260B	MS		11/08/2016
	(45.1-151.6)						
TCLP Filtration	*	Y/N		SW-1311	MS		11/09/2016

Analysis Certified By:



- CERTIFICATE OF ANALYSIS -

Div. Code: E I

Report Date: 21-Nov-16 03:20 PM

Client ID: ALLOWAY_LIMA

Alloway
1101 N. Cole Street
Lima, Ohio 45805

Attn: Lana Jackson

Phone: (419) 223-1362

FAX: (419) 227-3792

Our Lab # 16018246-001

Your Sample ID: L16-19874-01

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 11:30

Your Project Name: L16-19874

Collected By: Client

Sample Type: Water

Receipt Date: 11/08/16 11:45

Total Organic Halides

Analytical Method Prep Method Prep Date By
SW846 9020B

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Organic Halides	< 100.0	ug/L		100.0		11/17/16 16:50	dmacdonald

Our Lab # 16018246-002

Your Sample ID: L16-19874-02

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 09:40

Your Project Name: L16-19874

Collected By: Client

Sample Type: Water

Receipt Date: 11/08/16 11:45

Total Organic Halides

Analytical Method Prep Method Prep Date By
SW846 9020B

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Organic Halides	< 100.0	ug/L	PQL	100.0		11/17/16 16:50	dmacdonald

Lab # 16018246-002

Sample ID: L16-19874-02

Page 1 of 3



ESG Laboratories

5940 WEST RAYMOND STREET
INDIANAPOLIS, INDIANA 46241

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PHONE (317) 290-1471
FAX (317) 290-1670
www.ESGLaboratories.com

Our Lab # 16018246-003

Your Sample ID: L16-19874-03

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 08:45

Your Project Name: L16-19874

Collected By: Client

Sample Type: Solid

Receipt Date: 11/08/16 11:45

EOX/Chlorine

Analytical Method Prep Method Prep Date By
SW846 9023

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
EOX/Chlorine	< 10.0	mg/kg		10.0		11/21/16 14:50	dmacdonald

Our Lab # 16018246-004

Your Sample ID: L16-19874-04

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 11:00

Your Project Name: L16-19874

Collected By: Client

Sample Type: Solid

Receipt Date: 11/08/16 11:45

EOX/Chlorine

Analytical Method Prep Method Prep Date By
SW846 9023

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
EOX/Chlorine	< 10.0	mg/kg		10.0		11/21/16 14:50	dmacdonald

Our Lab # 16018246-005

Your Sample ID: L16-19874-05

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 13:00

Your Project Name: L16-19874

Collected By: Client

Sample Type: Solid

Receipt Date: 11/08/16 11:45

EOX/Chlorine

Analytical Method Prep Method Prep Date By
SW846 9023

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
EOX/Chlorine	< 10.0	mg/kg		10.0		11/21/16 14:50	dmacdonald

Lab # 16018246-005

Sample ID: L16-19874-05

Page 2 of 3



ESG Laboratories

5940 WEST RAYMOND STREET
INDIANAPOLIS, INDIANA 46241

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PHONE (317) 290-1471
FAX (317) 290-1670
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Our Lab # 16018246-006

Your Sample ID: L16-19874-06

Sample Composition: Grab

Your Project #

Collection Date: 11/02/16 10:00

Your Project Name: L16-19874

Collected By: Client

Sample Type: Water

Receipt Date: 11/08/16 11:45

Total Organic Halides

Analytical Method Prep Method Prep Date By
SW846 9020B

Parameter	Result	Units	Qual	Quant. Limit	CAS #	Analysis Date	By
Total Organic Halides	< 100.0	ug/L	PQL	100.0		11/17/16 16:50	dmacdonald

Data Qualifiers:

Qualifier	Description
PQL	Value is between MDL & practical quantitation limit



11/21/2016

Lab Manager

Date

Lab # 16018246-006

Sample ID: L16-19874-06

Page 3 of 3



ESG Laboratories

5940 WEST RAYMOND STREET
INDIANAPOLIS, INDIANA 46241

WE PAVE THE WAY

PHONE (317) 290-1471
FAX (317) 290-1670
www.ESGLaboratories.com



Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

1101 North Cole Street, Lima, OH 45805

Project: L16-19925

12
1906



Report To: 440-234-2081	Invoice To (if Different):
Name: OHIO TURNPIKE	Name:
Company: ELMORE, OHIO	Company:
Address:	Address:

Phone #:	Fax #:
E-mail:	PO#:

Project Name	
Sampler	B-OSHEA (Print) K CARNDON (Signature)

☐ Next Day	☐ 2 Working Days	☐ 5 Working Days	☐ Routine
-----------------------------------	---	---	----------------------------------

	Customer Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #	Analysis Required	Alloway LIMS # For Lab Use Only
1	M111 O/W SEPARATOR	11-2-16	1130		X	S	1	1	BTX, TELP CADMIUM, TELP LEAD, TELP CHROMIUM, PAINT FILTER, EOX	01 OK
2	M112 O/W SEPARATOR	11-2-16	940		X	S	1	1		02 sample
3	M113 O/W SEPARATOR	11-2-16	8:45A		X	S	1	1		03 project
4	M114 O/W SEPARATOR	11-2-16	1100		X	S	1	1		04 det
5	EE O/W SEPARATOR	11-2-16	100P		X	S	1	1		05 11/4/16
6	CP O/W SEPARATOR	11-2-16	1000		X	S	1	1		06
7	DIV 1 - CATCH BASINS	11-2-16	1400	X		S	1	1	BTX, TELP CADMIUM, TELP LEAD, TELP CHROMIUM, PAINT FILTER	07 01
8										

Relinquished by:	Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving (For Lab Use Only)
1	<i>Jordan Smith</i>	11/3/16	13:05	UPS ☐	ww - wastewater gw - groundwater	1 - None 7 - Sodium Thiosulfate 13 - Zinc Acetate	Ice Present? Y ☒ N ☐ Proper Preservation? Y ☒ N ☐ Container Temperature: 5.6 °C
2				Fed Ex ☐	dw - drinking water sw - surface water	2 - HNO ₃ 8 - Ascorbic Acid 14 - Sodium Sulfite	
3				Client ☐	w - water oil - oil	3 - H ₂ SO ₄ 9 - Maleic Acid 15 - Potassium Dihydrogen Citrate	
4				Alloway Pick Up ☒	s - solid sg - sludge	4 - HCl 10 - EDA 16 - Sodium Sulfite/Sodium Bisulfate	
5				Alloway Sampling ☐	l - leachate a - acid	5 - NaOH 11 - Ammonium Chloride	
6				Other ☐	p - product o - other	6 - NaOH & Zinc Acetate 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH	
Received for Laboratory By: (circle one) Mansfield Lima Marion							
(Signature) <i>Jordan Smith</i>				11/3/16 15:35			

Transported to: Lima
Marion

By: _____

Received By: _____

Date: _____

Time: _____

Transported to: Lima
Marion

By: _____

Received By: _____

Date: _____

Time: _____



ANALYTICAL REPORT

Lab Project # L16-20071

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

 Received: 11/09/2016
 Reported: 11/28/2016
 Date/Time Sampled: 11/07/2016 12:00
 Sampled By: Not provided
 Sampled Matrix: Oil/Water
 Containers: 1

Project Name: Maintenance Bld.

Sample ID: Oil Water Separator

Lab Sample # L16-20071-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Flashpoint	>200	o F	70	SW-1020	ZZ		11/21/2016
pH, Laboratory Analyzed (Estimate)	7.9	S.U.		SW-9040C/9045C	ZZ		11/10/2016
Total Solids	4.51	%	0.01	SM-2540 G	TRP		11/09/2016
Arsenic, TCLP	<0.50	mg/L	0.50	SW-6010B	EAT		11/19/2016
Barium, TCLP	<1.00	mg/L	1.00	SW-6010B	EAT		11/19/2016
Cadmium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/19/2016
Chromium, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/19/2016
Lead, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/19/2016
Selenium, TCLP	<0.50	mg/L	0.50	SW-6010B	EAT		11/19/2016
Silver, TCLP	<0.10	mg/L	0.10	SW-6010B	EAT		11/19/2016
Mercury, TCLP	<0.020	mg/L	0.020	SW-7470A	MBU		11/21/2016
Chlordane, TCLP	<0.00125	mg/L	0.00125	SW-8081B	BG	11/21/2016	11/23/2016
Endrin, TCLP	<0.00050	mg/L	0.00050	SW-8081B	BG	11/21/2016	11/23/2016
Heptachlor Epoxide, TCLP	<0.00025	mg/L	0.00025	SW-8081B	BG	11/21/2016	11/23/2016
Heptachlor, TCLP	<0.00025	mg/L	0.00025	SW-8081B	BG	11/21/2016	11/23/2016
Lindane (Gamma-BHC), TCLP	<0.00025	mg/L	0.00025	SW-8081B	BG	11/21/2016	11/23/2016
Methoxychlor, TCLP	<0.0025	mg/L	0.0025	SW-8081B	BG	11/21/2016	11/23/2016
Toxaphene, TCLP	<0.0125	mg/L	0.0125	SW-8081B	BG	11/21/2016	11/23/2016
(Surrogate) TCMX	72.0 (15.8-106.2)	%		SW-8081B	BG	11/21/2016	11/23/2016
(Surrogate) DCB	54.2 (D-102.1)	%		SW-8081B	BG	11/21/2016	11/23/2016
2-methylphenol (o-Cresol), TCLP	<0.50	mg/L	0.50	SW-8270C	JMT	11/16/2016	11/16/2016
3&4-methylphenol (m&p-Cresol), TCLP	<1.00	mg/L	1.00	SW-8270C	JMT	11/16/2016	11/16/2016
Pentachlorophenol, TCLP	<0.50	mg/L	0.50	SW-8270C	JMT	11/16/2016	11/16/2016

Analysis Certified By:


 Lanie Wenning

ANALYTICAL REPORT

Lab Project # L16-20071

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

 Received: 11/09/2016
 Reported: 11/28/2016
 Date/Time Sampled: 11/07/2016 12:00
 Sampled By: Not provided
 Sampled Matrix: Oil/Water
 Containers: 1

Project Name: Maintenance Bld.

Sample ID: Oil Water Separator

Lab Sample # L16-20071-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
2,4,5-Trichlorophenol, TCLP	<0.50	mg/L	0.50	SW-8270C	JMT	11/16/2016	11/16/2016
2,4,6-Trichlorophenol, TCLP	<0.50	mg/L	0.50	SW-8270C	JMT	11/16/2016	11/16/2016
2,4-Dinitrotoluene, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
Hexachlorobutadiene, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
Hexachlorobenzene, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
Hexachloroethane, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
Nitrobenzene, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
Pyridine, TCLP	<1.00	mg/L	1.00	SW-8270C	JMT	11/16/2016	11/16/2016
1,4-Dichlorobenzene, TCLP	<0.10	mg/L	0.10	SW-8270C	JMT	11/16/2016	11/16/2016
(Surrogate) 2-Fluorophenol	44.5	%		SW-8270C	JMT	11/16/2016	11/16/2016
(D-82.0)							
(Surrogate) Phenol d6	40.3	%		SW-8270C	JMT	11/16/2016	11/16/2016
(D-90.7)							
(Surrogate) Nitrobenzene d5	47.9	%		SW-8270C	JMT	11/16/2016	11/16/2016
(6.3-95.8)							
(Surrogate) 2-Fluorobiphenyl	53.8	%		SW-8270C	JMT	11/16/2016	11/16/2016
(39.0-82.3)							
(Surrogate) 2,4,6-Tribromophenol	64.1	%		SW-8270C	JMT	11/16/2016	11/16/2016
(D-95.1)							
(Surrogate) p-Terphenyl-d14	60.6	%		SW-8270C	JMT	11/16/2016	11/16/2016
(24.0-110.0)							
Benzene, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
Carbon Tetrachloride, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
Chlorobenzene, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
Chloroform, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
1,2-Dichloroethane, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
1,1-Dichloroethene, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016

Analysis Certified By:


 Lanie Wenning

ANALYTICAL REPORT

Lab Project # L16-20071

 Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

 Received: 11/09/2016
 Reported: 11/28/2016
 Date/Time Sampled: 11/07/2016 12:00
 Sampled By: Not provided
 Sampled Matrix: Oil/Water
 Containers: 1

Project Name: Maintenance Bld.

Sample ID: Oil Water Separator

Lab Sample # L16-20071-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Methyl Ethyl Ketone (2-Butanone), TCLP	<1.00	mg/L	1.00	SW-8260B	MS		11/17/2016
Tetrachloroethene, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
Trichloroethene, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
Vinyl Chloride, TCLP	<0.05	mg/L	0.05	SW-8260B	MS		11/17/2016
(Surrogate) 1,2-Dichloroethane d4	88.5 (61.3-143.8)	%		SW-8260B	MS		11/17/2016
(Surrogate) Toluene d8	95.7 (58.9-132.6)	%		SW-8260B	MS		11/17/2016
(Surrogate) 4-Bromofluorobenzene	100.3 (64.6-134.0)	%		SW-8260B	MS		11/17/2016
TCLP extraction	*	Y/N		SW-1311	ZZ		11/15/2016
Zero Headspace TCLP Extraction	*	Y/N		SW-1311	MS		11/15/2016
2,4-Dichlorophenoxyacetic acid (2,4-D), TCLP	<0.04	mg/L	0.04	SW-8151	A-MAR	11/08/2016	11/21/2016
Silvex, TCLP	<0.04	mg/L	0.04	SW-8151	A-MAR	11/08/2016	11/21/2016
(Surrogate) DCAA	102 (44-139)	%		SW-8151	A-MAR	11/08/2016	11/21/2016

Analysis Certified By:


 Lanie Wenning



Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

1101 North Cole Street, Lima, OH 45805
(P) 419-223-1362 (F) 419-227-3792

302

4906

Project: L16-20071



Report To: Name: <u>Andy Cooksey</u> Company: <u>Chicotumpike</u> Address: <u>682 Prospect St Berea Ohio 44017</u>	Invoice To (If Different): Name: Company: Address:
---	---

Phone #: <u>440 234 2081</u> Ext: <u>1251</u>	Fax #:
---	--------

E-mail: <u>Andrew.Cooksey@Chicotumpike.com</u>	PO#:
--	------

Project Name: <u>Maintenance bld.</u>

Sampler: <u>(Print) Not provided</u>

2 Working Days ☐

5 Working Days ☐

Routine ☒

10-day

Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #	Analysis Required	Alloway LIMS # For Lab Use Only
1 oil water separator	11/7	12:00 pm				1	1	TCLP Metals (ORCA), TCLP Volatiles, TCLP Semi Vols, TCLP Herbs & Pesticides, % Solids, pH, Flashpoint.	
2									
3									
4									
5									
6									
7									
8									

per conversation w/ Andy Cooksey 11/9/2016 @ 15:40
Siller

Relinquished by:	Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving (For Lab Use Only)
1				UPS ☒	ww - wastewater gw - groundwater	1 - None 7 - Sodium Thiosulfate 13 - Zinc Acetate	
2				Fed Ex ☐	dw - drinking water sw - surface water	2 - HNO ₃ 8 - Ascorbic Acid 14 - Sodium Sulfite	
3				Client ☐	w - water oil - oil	3 - H ₂ SO ₄ 9 - Maleic Acid 15 - Potassium Dihydrogen Citrate	Ice Present? Y ☒ N ☐
4				Alloway Pick Up ☐	s - solid sg - sludge	4 - HCl 10 - EDA 16 - Sodium Sulfite/Sodium Bisulfate	Proper Preservation? Y ☒ N ☐
5				Alloway Sampling ☐	l - leachate a - acid	5 - NaOH 11 - Ammonium Chloride	
6				Other ☐	p - product o - other	6 - NaOH & Zinc Acetate 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH	Container Temperature: <u>1.1 °C / 31</u>

Received for Laboratory By: (circle one) Mansfield Lima Marion

(Signature)

Transported to: Lima
Marion

By: _____

Received By: _____

Date: _____

Time: _____

Transported to: Lima
Marion

By: _____

Received By: _____

Date: _____

Time: _____

2016 Sludge Report

		Erie Islands		
		Volume Gallons	Volume Dry Tons	% Solids %
Jan	Max	8,000	0.67	2.00%
	Avg	8,000	0.67	2.00%
	Min	8,000	0.67	2.00%
	Total	8,000	0.67	
Feb	Max	16,000	1.40	2.10%
	Avg	16,000	1.40	2.10%
	Min	16,000	1.40	2.10%
	Total	16,000	1.40	
Mar	Max	16,000	1.33	1.99%
	Avg	16,000	1.33	1.99%
	Min	16,000	1.33	1.99%
	Total	16,000	1.33	
Apr	Max	16,000	1.45	2.18%
	Avg	16,000	1.45	2.18%
	Min	16,000	1.45	2.18%
	Total	16,000	1.45	
May	Max	17,000	1.42	2.00%
	Avg	17,000	1.42	2.00%
	Min	17,000	1.42	2.00%
	Total	17,000	1.42	
Jun	Max	18,000	1.56	2.08%
	Avg	18,000	1.56	2.08%
	Min	18,000	1.56	2.08%
	Total	18,000	1.56	
Jul	Max	2,000	0.23	2.80%
	Avg	2,000	0.23	2.80%
	Min	2,000	0.23	2.80%
	Total	2,000	0.23	
Aug	Max	20,000	3.93	4.71%
	Avg	15,000	2.51	3.92%
	Min	9,000	1.41	3.28%
	Total	45,000	7.53	
Sep	Max	0	0.00	0.00%
	Avg	0	0.00	0.00%
	Min	0	0.00	0.00%
	Total	0	0.00	
Oct	Max	77,000	17.76	5.53%
	Avg	77,000	17.76	5.53%
	Min	77,000	17.76	5.53%
	Total	77,000	17.76	
Nov	Max	5,500	0.70	3.07%
	Avg	5,500	0.70	3.07%
	Min	5,500	0.70	3.07%
	Total	5,500	0.70	
Dec	Max	0	0.00	0.00%
	Avg	0	0.00	0.00%
	Min	0	0.00	0.00%
	Total	0	0.00	
Total	Max	77,000	17.76	5.53%
	Avg	15,875	2.42	2.31%
	Min	0	0.00	0.00%
	Total	220,500	34.05	

Submission ID: 674214
Ohio EPA - Daily Discharge Monitoring Report - Form 4500

Page 1 of 4

SUBMISSION ID:

FACILITY:

LOCATION:

COUNTY:

DISTRICT:

Erie Islands WWTP
1012 N Co Rd 260
Clyde, OH 43410
Sandusky
NWDO

STATUS:

PERMIT NUMBER:

STATION CODE:

MONITORING PERIOD:

REPORTING LAB:

ANALYST:

NO DISCHARGE INDICATOR:

Draft

2PQ00001*HD

001

2017-05-01 To: 2017-05-31

Erie Islands

Barney Smith

PARAMETER	Water Temperature	Dissolved Oxygen	pH	Flow Rate	Total Suspended Solids	CBOD 5 day	E. coli
PARAMETER CODE	00010	00300	00400	50050	00530	80082	31648
UNITS	C	mg/l	S.U.	MGD	mg/l	mg/l	#/100 ml
FREQUENCY	1/Day	1/Day	1/Day	1/Day	2/Week	2/Week	1/Week
SAMPLING TYPE	Grab	Grab	Grab	Continuous	24hr Composite	24hr Composite	Grab
2017-05-01	17.3 ✓	8.46 ✓	8.14 ✓	0.0244 ✓			
2017-05-02	16.3 ✓	8.7 ✓	8.18 ✓	0.0207 ✓	3 ✓	3	AA 1
2017-05-03	15.2 ✓	8.41 ✓	8.17 ✓	0.0211 ✓			
2017-05-04	14.8 ✓	9.04 ✓	8.26 ✓	0.0281 ✓		3	
2017-05-05	14.7 ✓	8.3 ✓	8.16 ✓	0.0375 ✓	2 ✓		
2017-05-06	14.6 ✓	8.18 ✓	8.1 ✓	0.0277 ✓			
2017-05-07	14.9 ✓	9.63 ✓	8.11 ✓	0.0291 ✓			
2017-05-08	14.1 ✓	9.8 ✓	8.11 ✓	0.0246 ✓			
2017-05-09	13.9 ✓	10.09 ✓	8.13 ✓	0.0209 ✓	4 ✓	3	AA 1
2017-05-10	14.3 ✓	9.56 ✓	8.1 ✓	0.0223 ✓			
2017-05-11	14.9 ✓	10.1 ✓	8.16 ✓	0.0306 ✓	5 ✓	3	
2017-05-12	15.8 ✓	9 ✓	8.18 ✓	0.0321 ✓			
2017-05-13	16.4 ✓	8.81 ✓	8.12 ✓	0.0298 ✓			
2017-05-14	18 ✓	8.34 ✓	8.03 ✓	0.0311 ✓			
2017-05-15	18.2 ✓	7.62 ✓	8.1 ✓	0.0247 ✓			
2017-05-16	17.6 ✓	7.86 ✓	7.96 ✓	0.0209 ✓	4 ✓	AA 2	AA 1
2017-05-17	19.7 ✓	7.5 ✓	8.32 ✓	0.0216 ✓	5 ✓	2	
2017-05-18	20.3 ✓	8.21 ✓	8.33 ✓	0.0282 ✓			
2017-05-19	19.2 ✓	7.97 ✓	8.18 ✓	0.0351 ✓			
2017-05-20	17.4 ✓	8.19 ✓	8.13 ✓	0.0314 ✓			
2017-05-21	18.5 ✓	8.01 ✓	7.97 ✓	0.0351 ✓			
2017-05-22	18.1 ✓	7.42 ✓	8 ✓	0.0289 ✓			
2017-05-23	18.3 ✓	8.95 ✓	7.71 ✓	0.022 ✓	2 ✓	3	1
2017-05-24	19.4 ✓	8.1 ✓	7.92 ✓	0.0278 ✓			
2017-05-25	19.6 ✓	7.77 ✓	8.11 ✓	0.0315 ✓	2 ✓	AA 2	
2017-05-26	19.7 ✓	7.62 ✓	8.15 ✓	0.0422 ✓			
2017-05-27	19.5 ✓	7.49 ✓	8.05 ✓	0.0355 ✓			
2017-05-28	19.8 ✓	7.49 ✓	8.1 ✓	0.0341 ✓			
2017-05-29	19.5 ✓	7.91 ✓	8 ✓	0.0468 ✓			
2017-05-30	21.2 ✓	7.57 ✓	7.96 ✓	0.0257 ✓			
2017-05-31	19.4 ✓	7.73 ✓	7.98 ✓	X 0.025 ✓			
Minimum	13.9 ✓	7.42 ✓	7.71 ✓	0.0207 ✓	2.0 ✓	0.0	0.0
Maximum	21.2 ✓	10.1 ✓	8.33 ✓	0.0468 ✓	5.0 ✓	3.0	1.0
Average	17.43871 ✓	8.38161 ✓		0.02905 ✓	3.375 ✓	2.125 ✓	0.25 ✓
Count	31 ✓	31 ✓	31 ✓	30 ✓	8 ✓	8	4

Name of Responsible Official or Authorized Representative

I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of Responsible Official or Authorized Representative

Submission Date/Time

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:

FACILITY:

LOCATION:

COUNTY:

DISTRICT:

Erie Islands WWTP
1012 N Co Rd 260
Clyde, OH 43410
Sandusky
NWDO

STATUS:

PERMIT NUMBER:

STATION CODE:

MONITORING PERIOD :

REPORTING LAB:

ANALYST:

NO DISCHARGE INDICATOR:

Draft

2PQ00001*HD

001

2017-05-01 To: 2017-05-31

Erie Islands

Barney Smith

PARAMETER	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Residue, Total Filterable		
PARAMETER CODE	00610	00625	00630	00665	70300		
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l		
FREQUENCY	1 / 2 Weeks	1/Month	1/Month	1/Month	1/Month		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Composite	24hr Composite	24hr Composite		
2017-05-01							
2017-05-02	AA 0.20 ✓	AA 0.50 ✓	110 ✓	6.75 ✓	1494 ✓		
2017-05-03							
2017-05-04							
2017-05-05							
2017-05-06							
2017-05-07							
2017-05-08							
2017-05-09							
2017-05-10							
2017-05-11							
2017-05-12							
2017-05-13							
2017-05-14							
2017-05-15							
2017-05-16	AA 0.20 ✓						
2017-05-17							
2017-05-18							
2017-05-19							
2017-05-20							
2017-05-21							
2017-05-22							
2017-05-23							
2017-05-24							
2017-05-25							
2017-05-26							
2017-05-27							
2017-05-28							
2017-05-29							
2017-05-30							
2017-05-31							
Minimum	0.0	0.0	110.0	6.75	1494.0		
Maximum	0.0	0.0	110.0	6.75	1494.0		
Average	0 ✓	0 ✓	110 ✓	6.75 ✓	1494 ✓		
Count	2	1	1	1	1		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:

FACILITY:

LOCATION:

COUNTY:

DISTRICT:

Erie Islands WWTP

1012 N Co Rd 260

Clyde, OH 43410

Sandusky

NWDO

STATUS:

PERMIT NUMBER:

STATION CODE:

MONITORING PERIOD :

REPORTING LAB:

ANALYST:

NO DISCHARGE INDICATOR:

Draft

2PQ00001*HD

601

2017-05-01 To: 2017-05-31

Erie Islands

Barney Smith

PARAMETER	Total Suspended Solids	CBOD 5 day				
PARAMETER CODE	00530	80082				
UNITS	mg/l	mg/l				
FREQUENCY	1/Week	1/Week				
SAMPLING TYPE	24hr Composite	24hr Composite				
2017-05-01						
2017-05-02	760 ✓	800 ✓				
2017-05-03						
2017-05-04						
2017-05-05						
2017-05-06						
2017-05-07						
2017-05-08						
2017-05-09	472 ✓	686 ✓				
2017-05-10						
2017-05-11						
2017-05-12						
2017-05-13						
2017-05-14						
2017-05-15						
2017-05-16	348 ✓	479 ✓				
2017-05-17						
2017-05-18						
2017-05-19						
2017-05-20						
2017-05-21						
2017-05-22						
2017-05-23	760 ✓	832 ✓				
2017-05-24						
2017-05-25						
2017-05-26						
2017-05-27						
2017-05-28						
2017-05-29						
2017-05-30						
2017-05-31						
Minimum	348.0	479.0				
Maximum	760.0	832.0				
Average	585	699.25				
Count	4	4				

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Erie Islands WWTP
LOCATION: 1012 N Co Rd 260
Clyde, OH 43410

PERMIT NUMBER: *2PQ00001*HD*
MONITORING PERIOD : 2017-05-01 To: 2017-05-31

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
--------------	----------------	----------------	------	------	---------

Erie Islands - May 2017
Discharge Monitoring Report (DMR)
Station 001 - Final Effluent

5/1/2017		00010	00300	00400	00530	00610
Day		Water Temperature - C	Dissolved Oxygen - mg/l	pH - S.U.	Total Suspended Solids - mg/l	Nitrogen, Ammonia (NH3) - mg/l
1	Mon	17.3	8.46	8.14		
2	Tue	16.3	8.70	8.18	3	AA < 0.20 ✓
3	Wed	15.2	8.41	8.17		
4	Thu	14.8	9.04	8.26		
5	Fri	14.7	8.30	8.16	2	
6	Sat	14.6	8.18	8.10		
7	Sun	14.9	9.63	8.11		
8	Mon	14.1	9.80	8.11		
9	Tue	13.9	10.09	8.13	4	
10	Wed	14.3	9.56	8.10		
11	Thu	14.9	10.10	8.16	5	
12	Fri	15.8	9	8.18		
13	Sat	16.4	8.81	8.12		
14	Sun	18	8.34	8.03		
15	Mon	18.2	7.62	8.10		
16	Tue	17.6	7.86	7.96	4	AA < 0.20 ✓
17	Wed	19.7	7.5	8.32	5	
18	Thu	20.3	8.21	8.33		
19	Fri	19.2	7.97	8.18		
20	Sat	17.4	8.19	8.13		
21	Sun	18.5	8.01	7.97		
22	Mon	18.1	7.42	8.00		
23	Tue	18.3	8.95	7.71	2	
24	Wed	19.4	8.10	7.92		
25	Thu	19.6	7.77	8.11	2	
26	Fri	19.7	7.62	8.15		
27	Sat	19.5	7.49	8.05		
28	Sun	19.8	7.49	8.10		
29	Mon	19.5	7.91	8		
30	Tue	21.2	7.57	7.96		
31	Wed	19.4	7.73	7.98		

Erie Islands - May 2017
Discharge Monitoring Report (DMR)
Station 001 - Final Effluent

5/1/2017		00625	00630	00665	31648	50050
Day		Nitrogen Kjeldahl, Total - mg/l	Nitrite Plus Nitrate, Total - mg/l	Phosphorus, Total (P) - mg/l	E. coli - #/100ml	Flow Rate - MGD
1	Mon					0.0244
2	Tue	AA < 0.50 ✓	110 ✓	6.75 ✓	AA < 1 ✓	0.0207
3	Wed					0.0211
4	Thu					0.0281
5	Fri					0.0375
6	Sat					0.0277
7	Sun					0.0291
8	Mon					0.0246
9	Tue				AA < 1 ✓	0.0209
10	Wed					0.0223
11	Thu					0.0306
12	Fri					0.0321
13	Sat					0.0298
14	Sun					0.0311
15	Mon					0.0247
16	Tue				AA < 1 ✓	0.0209
17	Wed					0.0216
18	Thu					0.0282
19	Fri					0.0351
20	Sat					0.0314
21	Sun					0.0351
22	Mon					0.0289
23	Tue				1 ✓	0.022
24	Wed					0.0278
25	Thu					0.0315
26	Fri					0.0422
27	Sat					0.0355
28	Sun					0.0341
29	Mon					0.0468
30	Tue					0.0257
31	Wed					X

Erie Islands - May 2017
Discharge Monitoring Report (DMR)
Station 001 - Final Effluent

5/1/2017		70300	80082
Day		Residue, Total Filterable - mg/l	CBOD - mg/l
1	Mon		
2	Tue	1494	3
3	Wed		
4	Thu		3
5	Fri		
6	Sat		
7	Sun		
8	Mon		
9	Tue		3
10	Wed		
11	Thu		3
12	Fri		
13	Sat		
14	Sun		
15	Mon		
16	Tue		AA <2
17	Wed		2
18	Thu		
19	Fri		
20	Sat		
21	Sun		
22	Mon		
23	Tue		3
24	Wed		
25	Thu		AA <2
26	Fri		
27	Sat		
28	Sun		
29	Mon		
30	Tue		
31	Wed		

Erie Islands - May 2017
Discharge Monitoring Report (DMR)
Station 601 - Influent Monitoring

5/1/2017		00530	80082
Day		Total Suspended Solids - mg/l	CBOD 5 day - mg/l
1	Mon		
2	Tue	760	800
3	Wed		
4	Thu		
5	Fri		
6	Sat		
7	Sun		
8	Mon		
9	Tue	472	686
10	Wed		
11	Thu		
12	Fri		
13	Sat		
14	Sun		
15	Mon		
16	Tue	348	479
17	Wed		
18	Thu		
19	Fri		
20	Sat		
21	Sun		
22	Mon		
23	Tue	760	832
24	Wed		
25	Thu		
26	Fri		
27	Sat		
28	Sun		
29	Mon		
30	Tue		
31	Wed		



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Page 1 of 1

CHIEF ENGINEER
OTIC

ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
Attn: Andrew Cooksey
682 Prospect St.
Berea, OH 44017

Project Name: Ohio Turnpike- E.coli

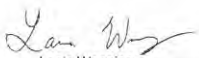
Sample ID: EI-WWTP

Lab Sample # L17-13890-01

Lab Project # L17-13890
Received: 05/02/2017
Reported: 05/03/2017
Date/Time Sampled: 05/02/2017 11:00
Sampled By: TB
Sampled Matrix: Wastewater
Containers: 1

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
E. coli	<1	MPN/100 mL	1	SM-9223 B	ANS		05/02/2017

Analysis Certified By: _____


Lanie Wenning

1101 N. Cole St. • Lima, Ohio 45805
419.223.1362 • Fax 419.227.3792
800.436.1243

1500 W. Fourth St., Suite 4 • Mansfield, Ohio 44906
419.525.1644 • Fax 419.524.5575
800.635.3222

1776 Marion-Waldo Rd. • Marion, Ohio 43302
740.389.5991 • Fax 740.389.1481
800.873.2835



Alloway
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Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

1101 North Cole Street, Lima, OH 45805

H 43302

field, OH 44906

Project: L17-13890

Report To:

Name: OHIO TURNPIKE
Company: 440-234-2081
Address: ELMORE, OHIO

Invoice To (if Different):

Name:
Company:
Address:

Phone #:

Fax #:

E-mail:

PO#:

Project Name

Sampler

(Print) T. BAKER

(Signature)

Grab

Composite

Sample Time

Sample Date

Customer Sample ID / Sample Location

Matrix Code

Number of Containers

Preservation Code #

2 Working Days ☐ 5 Working Days ☐ Routine ☐

Analysis Required 1389

Alloway LIMS # For Lab Use Only

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ENGINEERING DEPT.

ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
Attn: Andrew Cooksey
682 Prospect St.
Berea, OH 44017

Project Name: Chemical Analysis

Sample ID: EI-WWTP

Lab Sample # L17-13889-01

Lab Project # L17-13889
Received: 05/02/2017
Reported: 05/12/2017
Date/Time Sampled: 05/02/2017 08:00
Sampled By: TB
Sampled Matrix: Wastewater
Containers: 2

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Ammonia-N	<0.20	mg/L	0.20	EPA-350.1	BRM		05/09/2017
Nitrate/Nitrite-N	110	mg/L	0.05	EPA-353.2/ SM4500NO3	LW		05/03/2017
Phosphorus, Total	6.75	mg/L	0.04	EPA-365.3	BRM		05/09/2017
Total Kjeldahl Nitrogen	<0.50	mg/L	0.50	EPA 351.2	BRM		05/11/2017

Analysis Certified By: _____


Lanie Wenning



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Chain of Custody Record

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- ☐ 1101 North Cole Street, Lima, OH 45805
(P) 800-436-1243 (F) 419-227-3792
☐ 1776 Marion-Waldo Road, Marion, OH 43302

field, OH 44906

Project: L17-13889

Report To:	Invoice To (If Different):
Name: CHAD TURNPIKE	Name:
Company: 440-234-2651	Company:
Address: ELMORE, OHIO	Address:

Phone #:	Fax #:
E-mail:	PO#:

Project Name	Signature
Sampler	T. BAKER

Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers
1 E1-WWTP	5-2-17	0800	X		WW	1
2 E1-WWTP	5-2-17	0800	X		WW	1
3 E1-WWTP	5-2-17	1100		X	WW	1
4						
5 MBI-POTABLE	5-2-17	0900		X	dw	1
6						
7						
8						

Relinquished by:	Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving
	Jonathan Smith	5-2-17	1230	UPS	WW - wastewater GW - groundwater DW - drinking water SW - surface water W - water oil - oil S - solid SG - sludge L - leachate A - acid P - product O - other	1 - None 7 - Sodium Thiosulfate 2 - HNO ₃ 3 - H ₂ SO ₄ 4 - HCl 5 - NaOH 6 - NaOH & Zinc Acetate 7 - Zinc Acetate 8 - Ascorbic Acid 9 - Maleic Acid 10 - EDA 11 - Ammonium Chloride 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH 13 - Zinc Acetate 14 - Sodium Sulfite 15 - Potassium Dihydrogen Citrate 16 - Sodium Sulfite/Sodium Bisulfate	Analysis Required 13889 Alloway LIMS # For Lab Use Only 01 01 03

Received for Laboratory By: (circle one):	Mansfield	Lima	Marion
(Signature)	Jonathan Smith	5-2-17	1230

Transported to:	By:
Transported to:	By:

Received By:	Date:	Time:
Received By:	Date:	Time:

Container Temperature:	47°C
------------------------	------



ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
Attn: Andrew Cooksey
682 Prospect St.
Berea, OH 44017

Project Name: Chemical Analysis

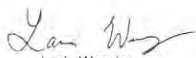
Sample ID: EI-WWTP

Lab Sample # L17-14191-01

Lab Project # L17-14191
Received: 05/09/2017
Reported: 05/11/2017
Date/Time Sampled: 05/09/2017 09:30
Sampled By: MH
Sampled Matrix: Wastewater
Containers: 1

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
E. coli	<1	MPN/100 mL	1	SM-9223 B	AS		05/09/2017

Analysis Certified By: _____


Lanie Wenning



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This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

1101 North Cole Street, Lima, OH 45805
(P) 800-436-1243 (F) 419-227-3792

Project: L17-14191

Report To:	Name: 440-234-2081
Company:	OHIO TURNPIKE
Address:	ELMORE, OHIO

Invoice To (if Different):
Name:
Company:
Address:

Phone #:	Fax #:
Email:	PO#:

Project Name	Next Day ☐
Sampler	2 Working Days ☐

Customer (Print) M. HENNINGER	Signature Mike Henninger						
Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #

1	E1 - WWTP	5/9/17	9:30 AM	X	WW	1	7
2							
3							
4							
5							
6							
7							
8							

Relinquished by:	Received by:	Date:	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving (For Lab Use Only)
	John Stund	5/9/17	13:20	UPS ☐	WW - wastewater GW - groundwater dW - drinking water SW - surface water W - water oil - oil S - solid sg - sludge l - leachate a - acid p - product o - other	1 - None 7 - Sodium Thiosulfate 2 - HNO ₃ 8 - Ascorbic Acid Sulfite 3 - H ₂ SO ₄ 9 - Maleic Acid Dihydrogen Citrate 4 - HCl 10 - EDA 5 - NaOH 6 - NaOH & Zinc Acetate 11 - Ammonium Chloride 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH	Ice Present? Y ☒ N ☐ Proper Preservation? Y ☒ N ☐ Container Temperature: 4.5°C

Received for Laboratory By: (circle one) Mansfield	Lima	Marion
(Signature)	John Stund	5/9/17 15:30
Transported to: Lima	Marion	Received By:
Transported to: Lima	Marion	Received By:

**ANALYTICAL REPORT**

Ohio Turnpike Commission -Western (Elmore)
Attn: Andrew Cooksey
682 Prospect St.
Berea, OH 44017

Project Name: Chemical Analysis

Sample ID: EI-WWTP
Lab Sample # L17-14440-01

Lab Project # L17-14440
Received: 05/16/2017
Reported: 05/24/2017
Date/Time Sampled: 05/16/2017 11:00
Sampled By: TB
Sampled Matrix: Wastewater
Containers: 1

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
E. coli	<1	MPN/100 mL	1	SM-9223 B	AS		05/16/2017

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MAINTENANCE
ENGINEER

Analysis Certified By: _____


Lanie Wenning



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This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

Project: L17-14440

1302

1. OH 44906

Report To: OHIO TURNPIKE
Name: Company: 440-8234-2051
Address: ELMORE, OHIO

Invoice To (if Different):
Name:
Company:
Address:

Phone #: Fax #:
E-mail: PO#:

Project Name	Sampler	Customer (Print)	Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #	Next Day ☐	3 Working Days ☐	5 Working Days ☐	Routine ☐	Alloway LIMS # For Lab Use Only
	1	TI BAKER	FI-WWTP	5-16-17	8:00 AM	X		WW	1	3					
	2		FI-WWTP	5-16-17	11:00 AM		X	WW	1	7					01
	3														
	4														
	5														
	6														
	7														
	8														

Relinquished by:	Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving (For Lab Use Only)
	Jordan Smith	5/16/17	12:30	UPS ☐	WW - wastewater GW - groundwater DW - drinking water SW - surface water W - water oil - oil S - solid sg - sludge l - leachate a - acid p - product o - other	1 - None 2 - HNO ₃ 3 - H ₂ SO ₄ 4 - HCl 5 - NaOH 6 - NaOH & Zinc Acetate 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - Maleic Acid 10 - EDA 11 - Ammonium Chloride 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH 13 - Zinc Acetate 14 - Sodium Sulfite 15 - Potassium Dihydrogen Citrate 16 - Sodium Sulfite/Sodium Bisulfate	Ice Present? Y ☒ N ☐ Proper Preservation? Y ☒ N ☐ Container Temperature: 32°C

Received for Laboratory By: (circle one)	Mansfield	Lima	Marion
(Signature)		Jordan Smith	

Transported to: Lima
Transported to: Marion
By: Marion
Received By: Marion
Date: 5/16/17
Time: 15:45



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Page 1 of 1

ENGINEERING DEPT.

ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
Attn: Andrew Cooksey
682 Prospect St.
Berea, OH 44017

Lab Project # L17-14439
Received: 05/16/2017
Reported: 05/26/2017
Date/Time Sampled: 05/16/2017 08:00
Sampled By: TB
Sampled Matrix: Wastewater
Containers: 1

Project Name: Chemical Analysis

Sample ID: EI-WWTP
Lab Sample # L17-14439-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
Ammonia-N	<0.20	mg/L	0.20	EPA-350.1	BRM		05/24/2017

Analysis Certified By: _____


Lanie Wenning

1101 N. Cole St. • Lima, Ohio 45805
419.223.1362 • Fax 419.227.3792
800.436.1243

1500 W. Fourth St., Suite 4 • Mansfield, Ohio 44906
419.525.1644 • Fax 419.524.5575
800.635.3222

1776 Marion-Waldo Rd. • Marion, Ohio 43302
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800.873.2835



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Chain of Custody Record

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Project: L17-14439

32

OH 44906

Report To:	OHIO TURNPIKE
Name:	440-8234-2051
Company:	ELMORE, OHIO
Address:	

Invoice To (If Different):	
Name:	
Company:	
Address:	

Phone #:	
Fax #:	
E-mail:	
PO#:	

Project Name	T. BAKER	
Sampler	(Print)	(Signature)

Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #	2 Working Days	3 Working Days	Next Day	5 Working Days	Analysis Required	Alloway LIMS # For Lab Use Only
1 EI-WWTP	5-16-17	8:00 AM	X		WW	1	3					AMMONIUM-NITROGEN	01
2 EI-WWTP	5-16-17	11:00 AM		X	WW	1	7					E-COL 1	
3													
4													
5													
6													
7													
8													

Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving
Jordan Smith	5/16/17	12:30	UPS	WW - wastewater gw - groundwater dw - drinking water sw - surface water W - water oil - oil sg - sludge l - leachate a - acid p - product o - other	1 - None 2 - HNO ₃ 3 - H ₂ SO ₄ 4 - HCl 5 - NaOH 6 - NaOH & Zinc Acetate 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - Maleic Acid Dihydrogen Citrate 10 - EDA 11 - Ammonium Chloride 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH 13 - Zinc Acetate 14 - Sodium Sulfite 15 - Potassium Dihydrogen Citrate 16 - Sodium Sulfite/Sodium Bisulfate	(For Lab Use Only) Ice Present? Y ☒ N ☐ Proper Preservation? Y ☒ N ☐ Container Temperature: 3.2°C

Received for Laboratory By: (circle one)	Mansfield	Lima	Marion
(Signature)	Jordan Smith	5/16/17	15:45

Transported to:	Lima	Marion
Transported to:	Lima	Marion



ANALYTICAL REPORT

Ohio Turnpike Commission -Western (Elmore)
 Attn: Andrew Cooksey
 682 Prospect St.
 Berea, OH 44017

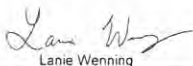
Lab Project # L17-14685
Received: 05/23/2017
Reported: 05/24/2017
Date/Time Sampled: 05/23/2017 09:00
Sampled By: TB
Sampled Matrix: Wastewater
Containers: 1

Project Name: Ohio Turnpike- E.coli

Sample ID: EI-WWTP
Lab Sample # L17-14685-01

Analyte	Results	Units	PQL	Method	Analyst	Extraction Date	Analysis Date
E. coli	1	MPN/100 mL	1	SM-9223 B	AS		05/23/2017

Analysis Certified By:


 Lanie Wenning



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Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

Project: L17-14685

02
OH 44905



Report To: OHIO TURN PIKE Name: 440-234-2081 Company: ELMORE, OHIO Address:		Invoice To (if Different): Name: Company: Address:		Phone #: _____ Fax #: _____ E-mail: _____ PO#: _____	
Project Name		Turnaround: (Rush Charges May Apply) Next Day ☐ 3 Working Days ☐ 2 Working Days ☐ 5 Working Days ☐ Routine ☐			
Sampler	Customer (Print) T. BAKER	Sample Date	Sample Time	Signature	Signature
1	ELMORE / E1-WWTF	5-23-17	9:00 AM	X	ww
2					
3					
4					
5					
6					
7					
8					
Relinquished by:		Received by:	Date	Time	Method of Delivery
1		John Fried	5/23/17	12:50	UPS ☐
2					Fed Ex ☐
3					Client ☐
4					Alloway Pick Up ☒
5					Alloway Sampling ☐
6					Other ☐
Received for Laboratory By: (circle one): Mansfield		Received By:	Date:	Time:	Received By:
(Signature)		Lima Marion	5/23/17	16:10	
		Transported to: Lima	Transported to: Lima		
		Transported to: Marion	Transported to: Marion		

Matrix Codes: ww - wastewater gw - groundwater dw - drinking water sw - surface water w - water oil - oil sg - solid sl - sludge l - leachate a - acid p - product o - other	Preservation Codes: 1 - None 2 - HNO ₃ 3 - H ₂ SO ₄ 4 - HCl 5 - NaOH 6 - NaOH & Zinc Acetate 7 - Sodium Thiosulfate 8 - Ascorbic Acid 9 - Maleic Acid 10 - EDA 11 - Ammonium Chloride 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH 13 - Zinc Acetate 14 - Sodium Sulfite 15 - Potassium Dihydrogen Citrate 16 - Sodium Sulfite/Sodium Bisulfate	Sample Receiving (For Lab Use Only) Ice Present? Y ☒ N ☐ Proper Preservation? Y ☒ N ☐ Container Temperature: 4.4°C
---	--	---

E.I. - WWTP DAILY WORKSHEET**MONTH:****May-17**

DATE	FLOW MGD	MLSS	TERTIARY SS	FINAL SS.	AMMONIA	RAW SS	RAW CBOD	FINAL CBOD	D.O.
1	0.0244				0.71				8.46
2	0.0207	2190	9	3	0.59	760	800	3	8.7
3	0.0211				0.41				8.41
4	0.0281								9.04
5	0.0375			2	0.3			3	8.3
6	0.0277				0.49				8.1
7	0.0291				0.62				9.63
8	0.0246				0.29				9.8
9	0.0209	2560	6	4	0.39	472	686	3	10.9
10	0.0223				0.33				9.56
11	0.0306			5	0.47			3	10.1
12	0.0321				0.55				9
13	0.0298				0.62				8.81
14	0.0311				0.49				8.34
15	0.0247				0.5				7.62
16	0.0209	2650	4	4	0.61	348	479	AA	7.86
17	0.0216			5	0.8			2	7.5
18	0.0282								8.21
19	0.0351								7.97
20	0.0314								8.19
21	0.0351								8.01
22	0.0289				0.83				7.42
23	0.022	2480	4	2	0.59	760	832	3	8.95
24	0.0278				0.61				8.1
25	0.0315	2530	12	2	0.62			AA<2	7.77
26	0.0422								7.62
27	0.0355				0.52				7.49
28	0.0341				0.7				7.49
29	0.0468				0.6				7.91
30	0.0257				0.48				7.75
31					0.57				7.73

Facility: EIWWTP

Month: MAY

Date	Gal. Drawn	% Solids	Gal. Solids	Dry Weight	Disposal location
MAY					
5/1/2017	a) 16,000	X 2.70%	432	1.80 Ton	1.80 Ton
	b)	X	0		
	c)	X	0		
	d)	X	0		
	Total: 16,000		432	16,000 = 2.70%	
	Average: 16,000	2.70%		1.80 Ton	

Weighted Average % Solids	Total Gal. Drawn	Lbs/Gal. H2O	Pounds per Ton	Weight Sludge	Dry
2.70% (rounded)	16,000	8.34	2,000	1.80	(Tons)
	x	x	/	=	