



Save Maumee Grassroots Organization Inc.  
Help us to speak for our Rivers...for our Rivers have no voice

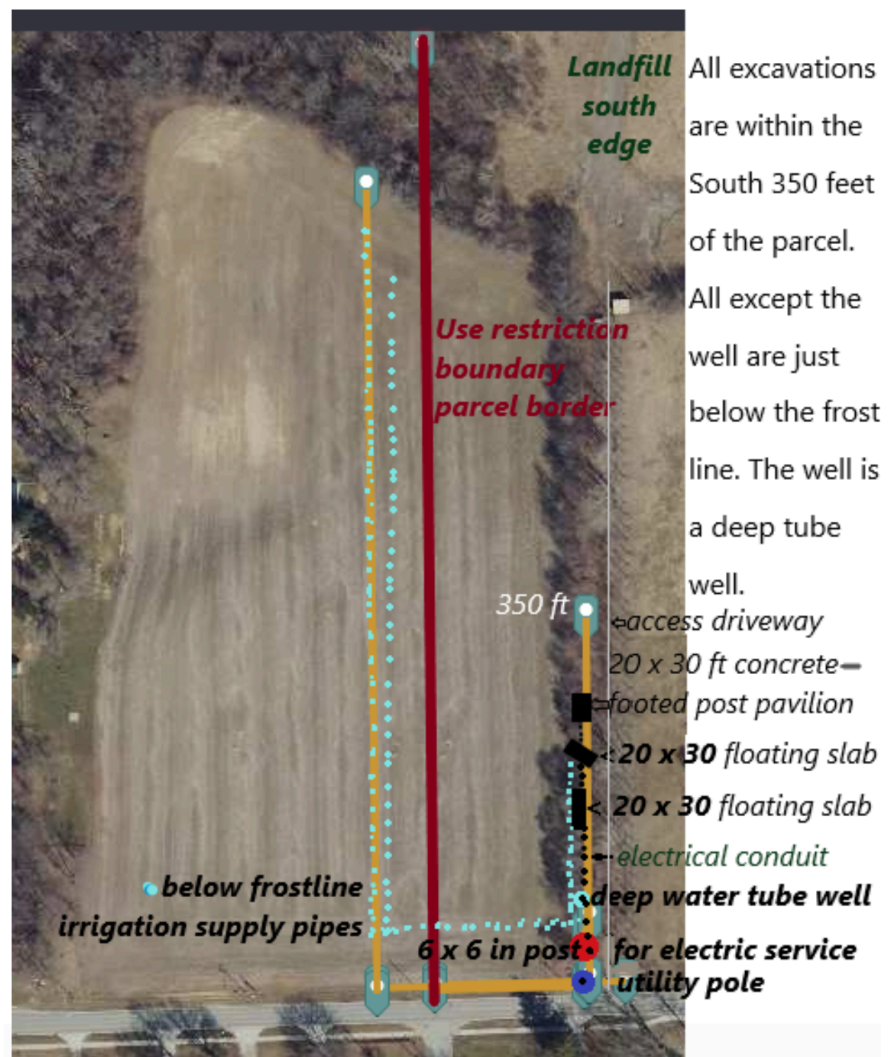
September 1, 2020

Dear IDEM Officials,  
RE: M&M Landfill, FP 02-10

Thank you for the virtual meeting on May 20, 2020. Save Maumee Grassroots Organization is working to keep IDEM informed of our work as we begin planning projects around the landfill hill itself.

Here is a site map image with the approximate locations of the excavations for a farm stand, pavilion, packing shed, electric service post, and irrigation. Address for the site is 501 Rose Ave. New Haven, IN. 46774 (but has been labeled incorrectly 435 Rose Ave in the past).

The proposed irrigation well location is near Rose Avenue, more than 860 feet upgradient from the waste boundary, and will not be in continuous use. We have scheduled a groundwater sample from the irrigation well. Information includes total and dissolved metals, specifically arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium; volatile organic compounds; and semi-volatile organic compounds.



Save Maumee has received approval to plant trees/grasses along the Maumee River to improve habitat, create a healthy succession of forest canopy, and stabilize banks to better absorb sediment and nutrients. Native tree list is available online <https://savemaumee.org/tree-selection-for-save-maumee-riparian-buffer-initiative/>

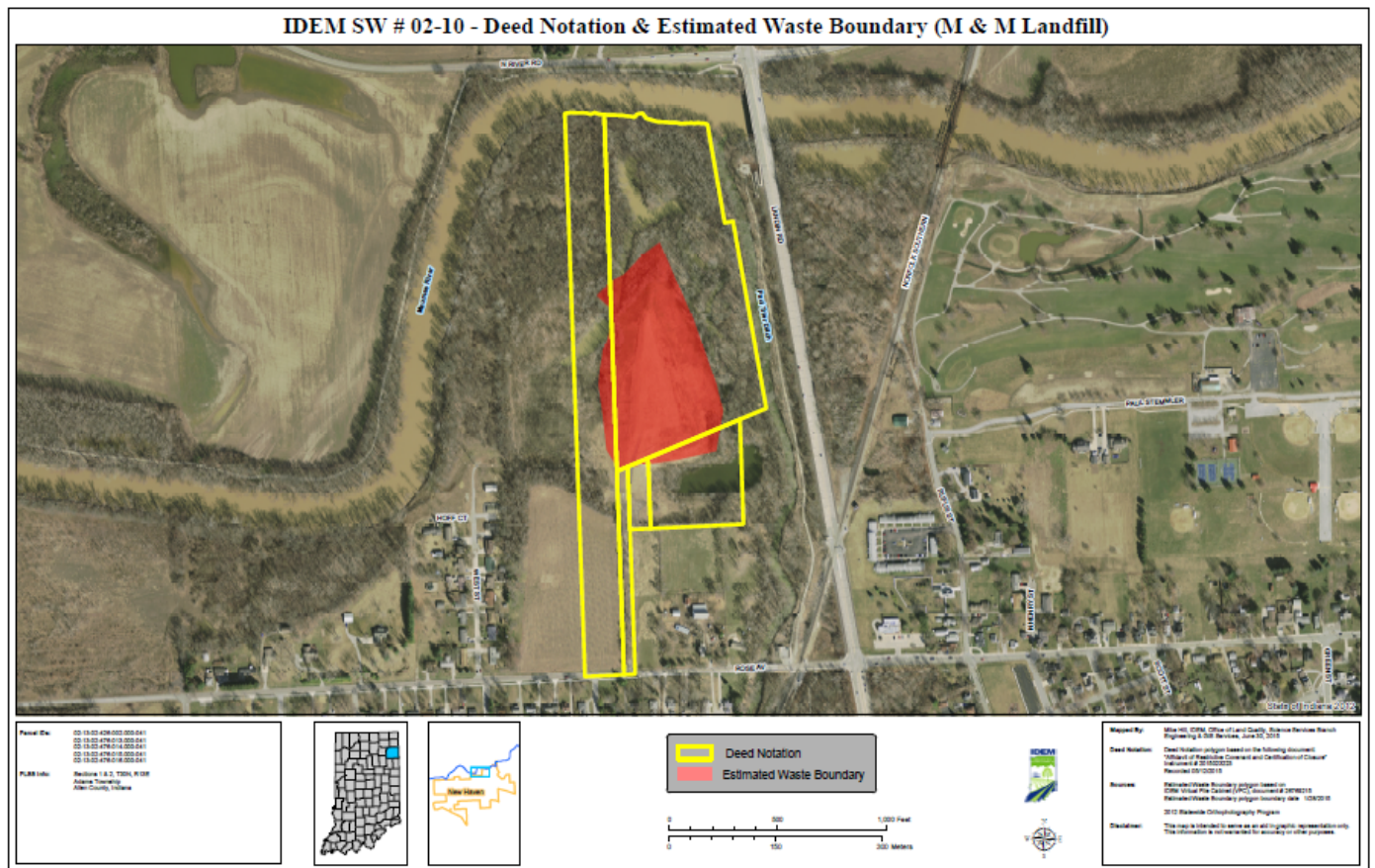
\*550 trees will be installed around October 2020. Invasive removal is necessary throughout.

\*SMGO mowed and personally inspected the landfill hill on May 25, 2020, with the next mowing to take place in October 2020.





# Deed Notation & Estimated Waste Boundary

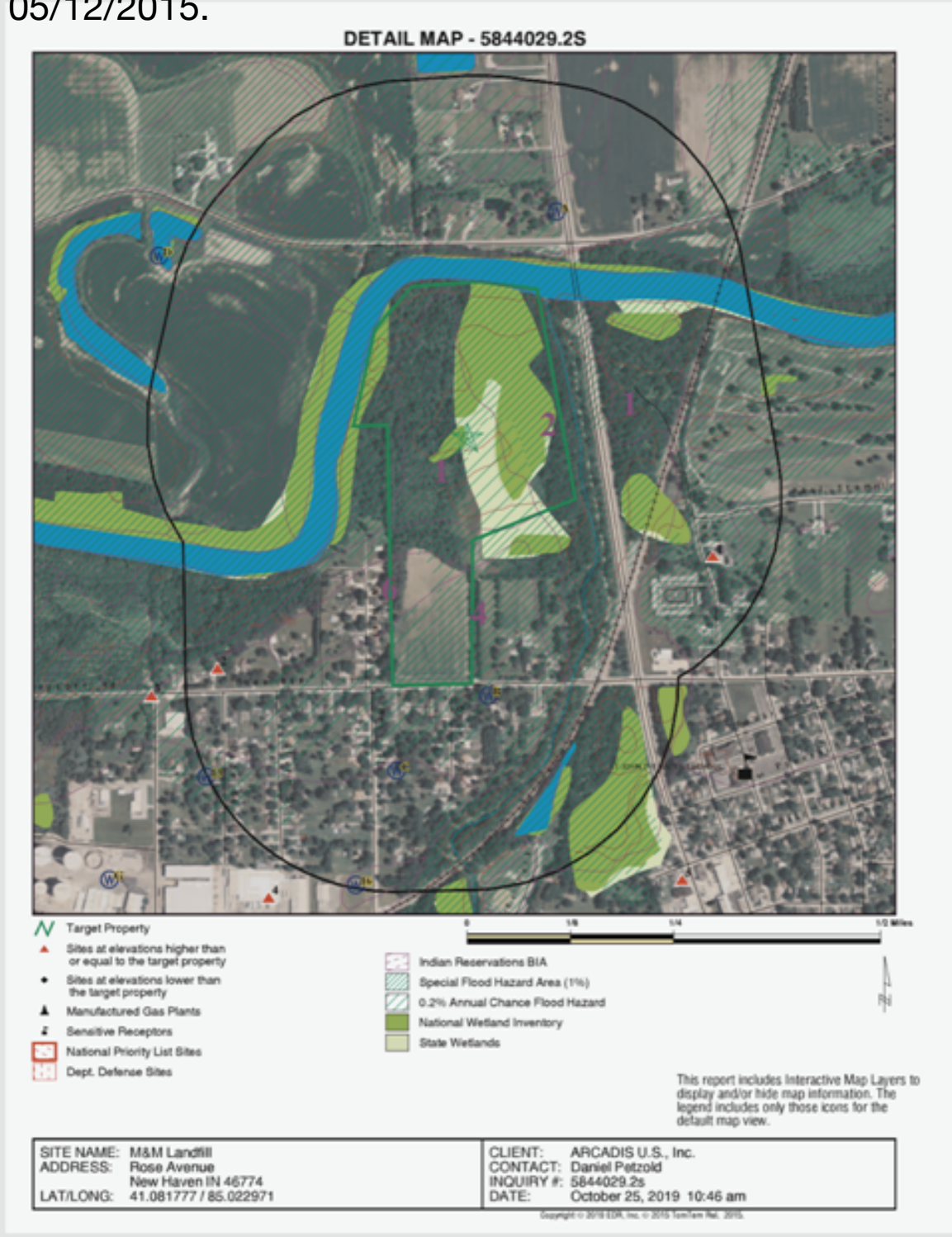


The red and blue lines indicate the property Save Maumee will be taking over in the land acquisition from M&M Landfill.





Phase 1 map to help understand the hydrology of the site. Represents the parcels that are covered by the recorded "Affidavit of Restrictive Covenant and Certification of Closure", Instrument # 2015023223, recorded on 05/12/2015.



Heartland Communities Inc., the farm field's tenants, paid for the groundwater testing. The following 22 pages are from these water tests IDEM requested.



*Element Materials Technology - Fort Wayne*  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: [www.element.com](http://www.element.com)

August 27, 2020

David Greene  
Heartland Community  
1703 Howell St.  
FORT WAYNE, IN 46808  
TEL:  
FAX:

RE: Heartlands/Rose Ave

Order No.: 20081052

Dear David Greene:

Element Materials Technology - Fort Wayne received 6 sample(s) on 8/11/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jay Van Markwyk'.

Jay Van Markwyk  
Manager, Analytical Services  
328 Ley Rd.  
Fort Wayne, IN 46825





Element Materials Technology - Fort Wayne  
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Fort Wayne, IN 46825  
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Website: [www.element.com](http://www.element.com)

## Case Narrative

WO#: 20081052  
Date: 8/27/2020

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**CLIENT:** Heartland Community

**Project:** Heartlands/Rose Ave

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The PAH-SIM analysis on 20081052-005A was subcontracted to Element Lafayette. A copy of their report is attached in its entirety.

The recoveries for hexachloroethane, hexachlorobutadiene, 1,2-dichlorobenzene, 2-chloronaphthalene and 1,2,4-trichlorobenzene were biased low in the LCS during the EPA 8270 analysis.

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Element Materials Technology - Fort Wayne  
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Website: www.element.com

## Analytical Report

(wastewater)

WO#: **20081052**

Date Reported: **8/27/2020**

**CLIENT:** Heartland Community

**Collection Date:** 8/11/2020 12:45:00 PM

**Project:** Heartlands/Rose Ave

**Lab ID:** 20081052-001

**Matrix:** WATER

**Client Sample ID** 2

**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>TOTAL COLIFORM BY P/A</b>					<b>M9223B</b>		Analyst: <b>AXA</b>
Total Coliform Bacteria	PRESENT	1.0		P/A	1		8/11/2020 6:22:00 PM
E. Coli Bacteria	ABSENT	1.0		P/A	1		8/11/2020 6:22:00 PM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: **20081052**

Date Reported: **8/27/2020**

**CLIENT:** Heartland Community

**Collection Date:** 8/11/2020 12:40:00 PM

**Project:** Heartlands/Rose Ave

**Lab ID:** 20081052-002

**Matrix:** WATER

**Client Sample ID** 6

**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>NITRITE</b>					<b>E300.0</b>		Analyst: <b>HN</b>
Nitrogen, Nitrite	< 0.20	0.20		mg/L	2	1.0	8/11/2020 6:51:31 PM
<b>NITRATE</b>					<b>E300.0</b>		Analyst: <b>HN</b>
Nitrogen, Nitrate (As N)	< 0.2	0.2		mg/L	2	10	8/11/2020 6:51:31 PM

### Qualifiers:

\* Value exceeds Maximum Contaminant Level  
M Manual Integration used to determine area response  
PL Permit Limit  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:35:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-003

Matrix: WATER

Client Sample ID 1

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
RCRA8 METALS IN WATER, TOTAL MERCURY				E245.1		Analyst: FJR	
Mercury	< 0.00010	0.00010		mg/L	1		8/14/2020 12:37:07 PM
RCRA8 METALS IN WATER, TOTAL METALS IN GROUNDWATER BY ICP-MS, TOTAL				SW6020A		Analyst: FJR	
Arsenic, Total	0.00036	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Barium, Total	0.0599	0.00400		mg/L	1		8/17/2020 10:52:18 AM
Cadmium, Total	< 0.00020	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Chromium, Total	0.00044	0.00040		mg/L	1		8/17/2020 10:52:18 AM
Lead, Total	< 0.00020	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Selenium, Total	0.00092	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Silver, Total	< 0.00010	0.00010		mg/L	1		8/17/2020 10:52:18 AM

### Qualifiers:

\* Value exceeds Maximum Contaminant Level  
M Manual Integration used to determine area response  
PL Permit Limit  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:40:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-004

Matrix: WATER

Client Sample ID 3

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
MERCURY, DISSOLVED				E245.1	Analyst: FJR		
Mercury, Dissolved	< 0.00010	0.00010		mg/L	1		8/14/2020 12:37:07 PM
METALS IN GROUNDWATER BY ICP-MS, DISSOLVED				SW6020A	Analyst: FJR		
Arsenic, Dissolved	0.00037	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Barium, Dissolved	0.0574	0.00400		mg/L	1		8/17/2020 10:52:18 AM
Cadmium, Dissolved	< 0.00020	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Chromium, Dissolved	< 0.00040	0.00040		mg/L	1		8/17/2020 10:52:18 AM
Lead, Dissolved	< 0.00020	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Selenium, Dissolved	0.00081	0.00020		mg/L	1		8/17/2020 10:52:18 AM
Silver, Dissolved	< 0.00010	0.00010		mg/L	1		8/17/2020 10:52:18 AM

### Qualifiers:

*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
PL	Permit Limit	PQL	Practical Quantitation Limit
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:35:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-005

Matrix: WATER

Client Sample ID 7, 8

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
SEMI-VOLATILES IN WATER				SW8270D		Analyst: SF	
1,2,4,5-TETRACHLOROBENZENE	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
1,2,4-Trichlorobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
1,2-Dichlorobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
1,2-Diphenylhydrazine	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
1,3-Dichlorobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
1,3-Dinitrobenzene	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
1,4-Dichlorobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,3,4,6-Tetrachlorophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,4,5-Trichlorophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,4,6-Trichlorophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,4-Dichlorophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,4-Dimethylphenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,4-Dinitrophenol	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
2,4-Dinitrotoluene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2,6-Dinitrotoluene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Chloronaphthalene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Chlorophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Methylnaphthalene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Methylphenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Nitroaniline	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
2-Nitrophenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
2-Picoline	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
3,3'-Dichlorobenzidine	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
3-Nitroaniline	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
4,6-Dinitro-2-methylphenol	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
4-Bromophenyl phenyl ether	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
4-Chloro-3-methylphenol	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
4-Chloroaniline	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
4-Chlorophenyl phenyl ether	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
4-Methylphenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
4-Nitroaniline	< 20	20		µg/L	1		8/21/2020 10:29:00 PM

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PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:35:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-005

Matrix: WATER

Client Sample ID 7, 8

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
SEMI-VOLATILES IN WATER				SW8270D		Analyst: SF	
4-Nitrophenol	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
Acenaphthene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Acenaphthylene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Aniline	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
Anthracene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benz(a)anthracene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benzidine	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
Benzo(a)pyrene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benzo(b)fluoranthene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benzo(g,h,i)perylene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benzo(k)fluoranthene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Benzoic acid	< 50	50		µg/L	1		8/21/2020 9:57:00 PM
Benzyl alcohol	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
Bis(2-chloroethoxy)methane	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Bis(2-chloroethyl)ether	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Bis(2-chloroisopropyl)ether	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Bis(2-ethylhexyl)phthalate	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
Butyl benzyl phthalate	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Carbazole	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Chrysene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Dibenz(a,h)anthracene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Dibenzofuran	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Diethyl phthalate	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Dimethyl phthalate	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Di-n-butyl phthalate	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Di-n-octyl phthalate	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Fluoranthene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Fluorene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Hexachlorobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Hexachlorobutadiene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Hexachlorocyclopentadiene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM

### Qualifiers:

\* Value exceeds Maximum Contaminant Level  
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PL Permit Limit  
RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits

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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:35:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-005

Matrix: WATER

Client Sample ID 7, 8

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
SEMI-VOLATILES IN WATER				SW8270D		Analyst: SF	
Hexachloroethane	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Indeno(1,2,3-cd)pyrene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Isophorone	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Naphthalene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Nitrobenzene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
N-Nitrosodimethylamine	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
N-Nitrosodi-n-propylamine	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
N-Nitrosodiphenylamine	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
o-Toluidine	< 20	20		µg/L	1		8/21/2020 10:29:00 PM
Pentachlorophenol	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
Phenanthrene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Phenol	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Pyrene	< 10	10		µg/L	1		8/21/2020 10:29:00 PM
Pyridine	< 50	50		µg/L	1		8/21/2020 10:29:00 PM
Surr: 2,4,6-Tribromophenol	81.6	10-123		%Rec	1		8/21/2020 10:29:00 PM
Surr: 2-Fluorobiphenyl	61.0	43-116		%Rec	1		8/21/2020 10:29:00 PM
Surr: 2-Fluorophenol	47.4	21-100		%Rec	1		8/21/2020 10:29:00 PM
Surr: 4-Terphenyl-d14	85.8	33-141		%Rec	1		8/21/2020 10:29:00 PM
Surr: Nitrobenzene-d5	61.0	35-114		%Rec	1		8/21/2020 10:29:00 PM
Surr: Phenol-d5	31.8	10-94		%Rec	1		8/21/2020 10:29:00 PM

### Qualifiers:

\* Value exceeds Maximum Contaminant Level  
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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit  
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## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:45:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-006

Matrix: WATER

Client Sample ID 4, 5

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
VOLATILES IN WATER BY GC/MS				SW8260B		Analyst: SF	
1,1,1,2-Tetrachloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,1,2,2-Tetrachloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,1-Dichloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2,3-Trichloropropane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2-Dibromo-3-chloropropane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2-Dibromoethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2-Dichlorobenzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,2-Dichloropropane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,3-Dichlorobenzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
1,4-Dichlorobenzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
2-Butanone	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
2-Chloroethyl vinyl ether	< 10	10		µg/L	1		8/19/2020 7:37:00 PM
2-Hexanone	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
4-Methyl-2-pentanone	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Acetone	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Acrolein	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Acrylonitrile	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Benzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Bromodichloromethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Bromoform	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Bromomethane	< 10	10		µg/L	1		8/19/2020 7:37:00 PM
Carbon disulfide	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Carbon tetrachloride	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Chloroethane	< 10	10		µg/L	1		8/19/2020 7:37:00 PM
Chloroform	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Chloromethane	< 10	10		µg/L	1		8/19/2020 7:37:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Original  
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Element Materials Technology - Fort Wayne  
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Fort Wayne, IN 46825  
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Website: www.element.com

## Analytical Report

(wastewater)

WO#: 20081052

Date Reported: 8/27/2020

CLIENT: Heartland Community

Collection Date: 8/11/2020 12:45:00 PM

Project: Heartlands/Rose Ave

Lab ID: 20081052-006

Matrix: WATER

Client Sample ID 4, 5

Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
VOLATILES IN WATER BY GC/MS				SW8260B		Analyst: SF	
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
cis-1,3-Dichloropropene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
cis-1,4-dichloro-2-butene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Dibromochloromethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Dibromomethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Dichlorodifluoromethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Ethyl methacrylate	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Iodomethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Methyl methacrylate	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Methylene chloride	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
o-Xylene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Styrene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Toluene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
trans-1,3-Dichloropropene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
trans-1,4-Dichloro-2-butene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Trichloroethene	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Trichlorofluoromethane	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Vinyl acetate	< 50	50		µg/L	1		8/19/2020 7:37:00 PM
Vinyl chloride	< 10	10		µg/L	1		8/19/2020 7:37:00 PM
Xylenes, Total	< 5.0	5.0		µg/L	1		8/19/2020 7:37:00 PM
Surr: 4-Bromofluorobenzene	98.0	86-115		%Rec	1		8/19/2020 7:37:00 PM
Surr: Dibromofluoromethane	106	86-118		%Rec	1		8/19/2020 7:37:00 PM
Surr: Toluene-d8	95.6	88-110		%Rec	1		8/19/2020 7:37:00 PM

### Qualifiers:

\* Value exceeds Maximum Contaminant Level

M Manual Integration used to determine area response

PL Permit Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

S Spike Recovery outside accepted recovery limits

Original  
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Element Materials Technology Lafayette  
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August 19, 2020

Katie Hernandez  
Element Fort Wayne  
328 Ley Rd, Suite 100  
Fort Wayne, IN 46825  
TEL: (260) 222-2132  
FAX (260) 471-7777

RE: 20081052-005A

Order No.: 20080539

Dear Katie Hernandez:

Element Materials Technology Lafayette received 1 sample(s) on 8/14/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux  
Customer Service Supervisor  
2417 W. Pinhook Road  
Lafayette, LA 70508-3344



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## Case Narrative

WO#: 20080539

Date: 8/19/2020

---

**CLIENT:** Element Fort Wayne

**Project:** 20081052-005A

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The analytical results of this report have values reported to the laboratory defined MDL. Any results quantified between the MDL (Method Detection Limit) and the RL (Reporting Detection Limit) will be reported with a J qualifier. These values should be considered estimated values.

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



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## Analytical Report

(consolidated MDL)

WO#: 20080539

Date Reported: 8/19/2020

CLIENT: Element Fort Wayne

Collection Date: 8/11/2020 12:35:00 PM

Project: 20081052-005A

Lab ID: 20080539-001

Matrix: WASTEWATER

Client Sample ID 20081052-005A

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PAH IN WATER					SW8270C	SW3511	Analyst: CRM
1-Methylnaphthalene	< 0.000520	0	0.000520		mg/L	1	8/17/2020 12:55:00 PM
2-Methylnaphthalene	< 0.000520	0.0000196	0.000520		mg/L	1	8/17/2020 12:55:00 PM
Acenaphthene	< 0.00104	0.0000542	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Acenaphthylene	< 0.00104	0.000117	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Anthracene	0.0000259	0.00000620	0.00104	J	mg/L	1	8/17/2020 12:55:00 PM
Benzo(a)anthracene	0.0000448	0.0000253	0.000520	J	mg/L	1	8/17/2020 12:55:00 PM
Benzo(a)pyrene	< 0.000177	0.0000472	0.000177		mg/L	1	8/17/2020 12:55:00 PM
Benzo(b)fluoranthene	< 0.000520	0.0000445	0.000520		mg/L	1	8/17/2020 12:55:00 PM
Benzo(g,h,i)perylene	< 0.00104	0	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Benzo(k)fluoranthene	< 0.000520	0.0000639	0.000520		mg/L	1	8/17/2020 12:55:00 PM
Chrysene	< 0.000520	0.0000251	0.000520		mg/L	1	8/17/2020 12:55:00 PM
Dibenz(a,h)anthracene	< 0.000177	0.0000535	0.000177		mg/L	1	8/17/2020 12:55:00 PM
Fluoranthene	< 0.00104	0.00000562	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Fluorene	< 0.000624	0.0000241	0.000624		mg/L	1	8/17/2020 12:55:00 PM
Indeno(1,2,3-cd)pyrene	< 0.000520	0.000149	0.000520		mg/L	1	8/17/2020 12:55:00 PM
Naphthalene	< 0.00104	0.0000268	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Phenanthrene	0.0000311	0.00000310	0.00104	J	mg/L	1	8/17/2020 12:55:00 PM
Pyrene	< 0.00104	0.00000121	0.00104		mg/L	1	8/17/2020 12:55:00 PM
Surr: 4-Terphenyl-d14	85.8	0	49.2-161		%Rec	1	8/17/2020 12:55:00 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- C Value is below Minimum Compound Limit.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- H Holding times for preparation or analysis exceeded
- M Matrix Interference
- R RPD outside accepted recovery limits

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## QC SUMMARY REPORT

WO#: 20080539  
19-Aug-20

**Client:** Element Fort Wayne  
**Project:** 20081052-005A

**BatchID:** 34986

Sample ID	MB-34986	SampType:	MBLK	TestCode:	8270_W_LVI_	Units:	mg/L	Prep Date:	8/15/2020	RunNo:	91767		
Client ID:	PBW	Batch ID:	34986	TestNo:	SW8270C	SW3511		Analysis Date:	8/17/2020	SeqNo:	2269649		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene		< 0.000526		0.000526									J
2-Methylnaphthalene		< 0.000526		0.000526									J
Acenaphthene		< 0.00105		0.00105									J
Acenaphthylene		< 0.00105		0.00105									J
Anthracene		0.000100		0.00105									J
Benzo(a)anthracene		0.000152		0.000526									J
Benzo(a)pyrene		0.000104		0.000179									J
Benzo(b)fluoranthene		0.000129		0.000526									J
Benzo(g,h,i)perylene		< 0.00105		0.00105									J
Benzo(k)fluoranthene		< 0.000526		0.000526									J
Chrysene		0.000131		0.000526									J
Dibenz(a,h)anthracene		< 0.000179		0.000179									J
Fluoranthene		0.000111		0.00105									J
Fluorene		0.0000603		0.000631									J
Indeno(1,2,3-cd)pyrene		< 0.000526		0.000526									J
Naphthalene		< 0.00105		0.00105									J
Phenanthrene		0.000124		0.00105									J
Pyrene		0.000144		0.00105									J
Surr: 4-Terphenyl-d14		0.00232			0.002407		96.6	49.2	161				

Sample ID	20080539-001ADUP	SampType: DUP	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767						
Client ID:	20081052-005A	Batch ID: 34986	TestNo: SW8270C	SW3511	Analysis Date: 8/17/2020	SeqNo: 2269650						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene		< 0.000525					0.000525		0	0		40

**Qualifiers:**  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
SDL Sample detection limit

J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
U Analyte not detected

M Matrix Interference  
RL Reporting Limit  
W Sample container temperature is out of limit as of





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## QC SUMMARY REPORT

WO#: 20080539  
19-Aug-20

Client: Element Fort Wayne  
Project: 20081052-005A

BatchID: 34986

Sample ID	20080539-001ADUP	SampType: DUP	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767
Client ID:	20081052-005A	Batch ID: 34986	TestNo: SW8270C	SW3511	Analysis Date: 8/17/2020	SeqNo: 2269650

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	< 0.000525	0.000525						0	0	40	
Acenaphthene	< 0.00105	0.00105						0	0	40	
Acenaphthylene	< 0.00105	0.00105						0	0	40	
Anthracene	< 0.00105	0.00105						0.00002591	200	40	R
Benzo(a)anthracene	0.0000445	0.000525						0.00004475	0.569	40	J
Benzo(a)pyrene	< 0.000178	0.000178						0	0	40	
Benzo(b)fluoranthene	< 0.000525	0.000525						0	0	40	
Benzo(g,h,i)perylene	< 0.00105	0.00105						0	0	40	
Benzo(k)fluoranthene	< 0.000525	0.000525						0	0	40	
Chrysene	0.0000380	0.000525						0	200	40	JR
Dibenz(a,h)anthracene	< 0.000178	0.000178						0	0	40	
Fluoranthene	0.0000276	0.00105						0	200	40	JR
Fluorene	< 0.000630	0.000630						0	0	40	
Indeno(1,2,3-cd)pyrene	< 0.000525	0.000525						0	0	40	
Naphthalene	< 0.00105	0.00105						0	0	40	
Phenanthrene	0.0000224	0.00105						0.00003112	32.8	40	J
Pyrene	0.0000361	0.00105						0	200	40	JR
Surr: 4-Terphenyl-d14	0.00215		0.002403		89.3	49.2	161		0	40	

### NOTES:

R - High RPD due to low analyte concentration. In this range, high RPD's may be expected. The method is in control as indicated by the LCS/LCSD.

Sample ID	LCSD-34986	SampType: LCSD	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767
Client ID:	LCSS02	Batch ID: 34986	TestNo: SW8270C	SW3511	Analysis Date: 8/17/2020	SeqNo: 2269659

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00183	0.000516	0.002365	0	77.4	70	130	0.002015	9.61	40	

Qualifiers: H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
SDL Sample detection limit

J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
U Analyte not detected

M Matrix Interference  
RL Reporting Limit  
W Sample container temperature is out of limit as sq



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## QC SUMMARY REPORT

WO#: 20080539  
19-Aug-20

Client: Element Fort Wayne  
Project: 20081052-005A

BatchID: 34986

Sample ID	LCSD-34986	SampType: LCSD	TestCode: 8270_W_LVI_ Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767
Client ID:	LCSS02	Batch ID: 34986	TestNo: SW8270C SW3511	Analysis Date: 8/17/2020	SeqNo: 2269659
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
2-Methylnaphthalene	0.00216	0.000516	0.002365	0	91.4 60.8 127 0.002086 3.58 40
Acenaphthene	0.00196	0.00103	0.002365	0	83.0 72.5 121 0.001906 2.88 40
Acenaphthylene	0.00215	0.00103	0.002365	0	91.1 65.7 128 0.002330 7.82 40
Anthracene	0.00207	0.00103	0.002365	0	87.6 73.4 120 0.002265 8.86 40
Benzo(a)anthracene	0.00223	0.000516	0.002365	0	94.4 69 121 0.002175 2.58 40
Benzo(a)pyrene	0.00208	0.000176	0.002365	0	87.9 70.6 120 0.002128 2.36 40
Benzo(b)fluoranthene	0.00212	0.000516	0.002365	0	89.8 65.3 127 0.002165 1.95 40
Benzo(g,h,i)perylene	0.00189	0.00103	0.002365	0	79.9 70 130 0.001882 0.402 40
Benzo(k)fluoranthene	0.00207	0.000516	0.002365	0	87.4 68.6 125 0.002078 0.509 40
Chrysene	0.00203	0.000516	0.002365	0	86.0 74.4 120 0.002040 0.293 40
Dibenz(a,h)anthracene	0.00199	0.000176	0.002365	0	84.3 66.4 126 0.001923 3.58 40
Fluoranthene	0.00194	0.00103	0.002365	0	82.0 70.7 121 0.001991 2.69 40
Fluorene	0.00211	0.000620	0.002365	0	89.1 62.5 134 0.002088 0.915 40
Indeno(1,2,3-cd)pyrene	0.00191	0.000516	0.002365	0	81.0 66.9 120 0.001894 1.09 40
Naphthalene	0.00189	0.00103	0.002365	0	79.8 63.5 137 0.002023 6.89 40
Phenanthrene	0.00201	0.00103	0.002365	0	85.0 74.1 118 0.002122 5.40 40
Pyrene	0.00219	0.00103	0.002365	0	92.7 73.2 120 0.002269 3.44 40
Surr: 4-Terphenyl-d14	0.00213		0.002365		90.1 49.2 161 0 40

Sample ID	LCSD-34986	SampType: LCS	TestCode: 8270_W_LVI_ Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767
Client ID:	LCSSW	Batch ID: 34986	TestNo: SW8270C SW3511	Analysis Date: 8/17/2020	SeqNo: 2269660
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
1-Methylnaphthalene	0.00201	0.000526	0.002408	0	83.7 70 130
2-Methylnaphthalene	0.00209	0.000526	0.002408	0	86.6 60.8 127

Qualifiers: H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
SDL Sample detection limit

J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
U Analyte not detected

M Matrix Interference  
RL Reporting Limit  
W Sample container temperature is out of limit as q



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## QC SUMMARY REPORT

WO#: 20080539  
19-Aug-20

Client: Element Fort Wayne  
Project: 20081052-005A

BatchID: 34986

Sample ID	LCS-34986	SampType: LCS	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 8/15/2020	RunNo: 91767					
Client ID:	LCSW	Batch ID: 34986	TestNo: SW8270C	SW3511	Analysis Date: 8/17/2020	SeqNo: 2269660					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00191	0.00105	0.002408	0	79.2	72.5	121				
Acenaphthylene	0.00233	0.00105	0.002408	0	96.8	65.7	128				
Anthracene	0.00226	0.00105	0.002408	0	94.1	73.4	120				
Benzo(a)anthracene	0.00217	0.000526	0.002408	0	90.3	69	121				
Benzo(a)pyrene	0.00213	0.000179	0.002408	0	88.4	70.6	120				
Benzo(b)fluoranthene	0.00216	0.000526	0.002408	0	89.9	65.3	127				
Benzo(g,h,i)perylene	0.00188	0.00105	0.002408	0	78.2	70	130				
Benzo(k)fluoranthene	0.00208	0.000526	0.002408	0	86.3	68.6	125				
Chrysene	0.00204	0.000526	0.002408	0	84.7	74.4	120				
Dibenz(a,h)anthracene	0.00192	0.000179	0.002408	0	79.9	66.4	126				
Fluoranthene	0.00199	0.00105	0.002408	0	82.7	70.7	121				
Fluorene	0.00209	0.000631	0.002408	0	86.7	62.5	134				
Indeno(1,2,3-cd)pyrene	0.00189	0.000526	0.002408	0	78.7	66.9	120				
Naphthalene	0.00202	0.00105	0.002408	0	84.0	63.5	137				
Phenanthrene	0.00212	0.00105	0.002408	0	88.2	74.1	118				
Pyrene	0.00227	0.00105	0.002408	0	94.2	73.2	120				
Surr: 4-Terphenyl-d14	0.00216		0.002408		89.6	49.2	161				

Qualifiers:		H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	R	Reporting Limit	RL
	SDL	Sample detection limit	U	Analyte not detected	W	Sample container temperature is out of limit as sq	W

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Website: www.element.com

## Sample Log-In Check List

Client Name: **ELEMENT\_FORT\_WAYN**

Work Order Number: **20080539**

RcptNo: **1**

Logged by: **Tammy Thibodeaux** **8/14/2020 9:32:00 AM**

*Tammy Thibodeaux*

Completed By: **Tammy Thibodeaux** **8/14/2020 9:56:04 AM**

*Tammy Thibodeaux*

Reviewed By: **Caitlin Duplantis** **8/14/2020 1:47:00 PM**

*Caitlin Duplantis*

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? **FedEx**

**Tracking No.: 771255590738**

### Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐  
4. Shipping container/cooler in good condition? Yes ☒ No ☐  
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒  
No. Seal Date: Signed By:  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date   
By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding:   
Client Instructions:

18. Additional remarks:  
Changed quantity as per sample received.

### Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			





## CHAIN OF CUSTODY RECORD

Omega COCID 129794

PAGE: 1

OF: 1

## ADDRESS

Element Materials Technology - Fort  
Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622  
FAX: (260) 424-9124  
Website: www.element.com

SUB CONTRACTOR: <b>SL_LAFAYETTE</b>	COMPANY: <b>Element Laboratories - Louisiana</b>	SPECIAL INSTRUCTIONS / COMMENTS  <i>90080539</i> <i>17125559 0738</i> <i>selection NO.</i>
ADDRESS: <b>2417 W. Pinhook Road</b>		
CITY, STATE, ZIP: <b>Lafayette, LA 70508</b>		
PHONE: <b>(800) 737-2378</b> FAX: <b>(337) 233-6540</b> EMAIL:		
ACCOUNT #:		

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	20081052-005A SW8270D	7, 8	1LAMGU	W	8/11/2020 12:35:00 PM	2	8270 lowest limits possible/8270/PAH in SIM Mode

*HS*  
*HS*  
*HS*  
*HS*

Relinquished By: <i>[Signature]</i>	Date: <b>8/13/2020</b>	Time: <b>2:20 PM</b>	Received By: <i>[Signature]</i>	Date: <b>8/13/20</b>	Time:
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By: <i>[Signature]</i>	Date:	Time:
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By: <i>[Signature]</i>	Date:	Time:
TAT: Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>			REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE		
Note: RUSH requests will incur surcharges!			FOR LAB USE ONLY Temp of samples: <i>3.0</i> <i>HS</i> Attempt to Cool? <i>HS</i> Comments: <i>HS</i>		

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## Chain of Custody W20 M51

Laboratory Number:

2501802e

Page **1** of **1**  
**Matrix Code**  
 DW = Drinking Water  
 WW = Waste Water  
 GW = Ground Water  
 AQ = Aqueous  
 OL = Other  
 ST = Sludge  
 O = Oil  
 F = Food  
 NG = Natural Gas  
 NGL = Natural Gas Liquid  
 PW = Produced Water  
 CF = Completion Fluid

Which Regulations Apply: <input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/IRISC	Turn Time <input type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	(Rush turn times will incur a surcharge and must be pre-approved by lab.)				Quantity	Container Type P=Plastic, V=Vial G=Glass, V=Vial	Pres. HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Requested Tests					Comments		
		Collection Information			Matrix				Coliform	NO <sub>3</sub> , NO <sub>2</sub>	Metals	Dissolved Metals	8270		8260	
		Date	Time	Grab / Composite												
2	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Disinfection <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> RECAP/IRISC	<input type="checkbox"/> Standard <input type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> Other	8/11	12:45	W	1	P	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	X	Coliform	NO <sub>3</sub> , NO <sub>2</sub>	Metals	Dissolved Metals	8270	8260	Samples Meet Acceptance Policy Yes No
6			8/11	12:40	I	1	P	None			X					
4			8/11	12:35		1	P	HNO <sub>3</sub>				X				
3			8/11	12:40		1	P	None					X			
7, 8			8/11	12:35		12	G	None					X			
4, 5			8/11	12:45		2	V	HCl						X		

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	<i>[Signature]</i>	8/11 - 2:00 PM	<i>PJA</i>	8.11.20 14:00	Received at lab on ice?
2					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 16°C
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 US-31 Columbus, IN 47201-6231 USA P 812-375-0531 F 812-375-0734	328 Ley Road, Suite 100 Fort Wayne, IN 46825 USA P 260-471-7000 F 260-471-7777	909 Executive Blvd. Warsaw, IN 46580 USA P 574-267-3305 F 574-269-6569	3371 Cleveland Road, Suite 100A South Bend, IN 46628-9780 USA P 574-277-0707 F 574-273-5699
--	--	--	---

\*Groundwater test sample had been taken from a hose, instead of from the well itself so this 3 page amendment is to correct for the E. coli and Coliform Bacteria test. (BELOW)



*Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: [www.element.com](http://www.element.com)*

August 17, 2020

Client  
Fort Wayne Walk In  
328 Ley Rd, Suite 100  
FORT WAYNE, IN 46825  
TEL:  
FAX:

RE: 501 Rose Ave. New Haven, IN

Order No.: 20081521

Dear Client:

Element Materials Technology - Fort Wayne received 1 sample(s) on 8/13/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Don Ellis II  
Project Manager  
328 Ley Rd.  
Fort Wayne, IN 46825



Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: www.element.com

## Analytical Report

(base report)

WO#: 20081521

Date Reported: 8/17/2020

**CLIENT:** Fort Wayne Walk In  
**Matrix:** DRINKING WATER  
**Lab ID:** 20081521-001A  
**Project:** 501 Rose Ave. New Haven, IN  
**Client Sample I** Well

**Tag Number:**

**Collection Date:** 8/13/2020 2:40:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL COLIFORM BACTERIA BY MPN</b>				<b>M9223B</b>	Analyst: <b>AXA</b>	
E. Coli Bacteria	<1	1.0		MPN/100ml	1	8/13/2020 6:28:00 PM
Total Coliform Bacteria	<1	1.0		MPN/100mL	1	8/13/2020 6:28:00 PM

**Qualifiers:** H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit

M Manual Integration used to determine area response  
PL Permit Limit  
RL Reporting Detection Limit

Original  
Page 2 of 3





List of Notifications and Correspondence,  
Please Contact Directly:

**Oversight of U.S. Forest Service Eastern Region, USDA/GLRI Grant:**

Donna Marie Foster  
p: 304-285-1547  
c. 304-276-8989  
[donna.m.foster@usda.gov](mailto:donna.m.foster@usda.gov)  
180 Canfield Street  
Morgantown WV 26505  
[www.fs.fed.us](http://www.fs.fed.us)

**Environmental Manager 2 of Solid Waste Permits Section, Land Application and Septage Programs, Permits Branch Office of Land Quality IDEM**

Kira Wren  
p. 317-233-7090  
[kwren@idem.in.gov](mailto:kwren@idem.in.gov)

**Indiana Department of Environmental Management Office of Land Quality, Waste Section**

Julie Arquette  
Indianapolis, IN 46204-2251  
[\(317\) 719-6951](tel:(317)719-6951)

**DNR Water Resource Planner, Floodplain Management Section, Division of Water, RE: IN Waterways Inquire Response 289 - Allen County**

Jerrold Evans  
p. 317-234-1059  
[JEvans@dnr.in.gov](mailto:JEvans@dnr.in.gov)

**New Haven Director of Planning and Economic Development,**

Rob Gutierrez  
812 Lincoln Highway East, PO BOX 570  
New Haven, IN 46774  
p. 260-748-7042  
[rgutierrez@newhaven.in.gov](mailto:rgutierrez@newhaven.in.gov)

**Wetland Program Specialist, Office of Water Quality IDEM,**

Marty Maupin, referred to Wes Hauser.

**Wetlands, Lakes, and Streams Project Manager, Wetlands and Stormwater Section, IDEM Office of Water Quality**

Wes Hauser  
100 North Senate Ave. Room 1255  
Indianapolis IN 46204  
p. 317-233-4606  
[whauser@idem.in.gov](mailto:whauser@idem.in.gov)

(Continued) List of Notifications and Correspondence,  
Please Contact Directly:

**Chief, Michiana Branch, Regulatory Office, U.S. Army Corps of Engineers,  
Detroit District**

Aaron Damrill  
p. 574-232-1952 ext. 21961  
[aaron.w.damrill@usace.army.mil](mailto:aaron.w.damrill@usace.army.mil)

**Superintendent New Haven-Adams Twp. Parks & Recreation Dept.**

Mike Clendenen, **CPRP**  
PO Box 157  
New Haven, IN 46774  
p. 260.749.2212  
[mclendenen@newhaven.in.gov](mailto:mclendenen@newhaven.in.gov)

**Indiana DNR (IDNR) Fishers Biologist D3**

Tyler Delauder  
1353 S. Governors Dr.  
Columbia City  
260-244-6805  
[TDelauder@dnr.IN.gov](mailto:TDelauder@dnr.IN.gov)

**Urban Wildlife Biologies, North Region, IDNR, Division of Fish and Wildlife**

Jessica Merklings  
Columbia City, IN 46725  
260-244-6805  
[jmerklings@dnr.IN.gov](mailto:jmerklings@dnr.IN.gov)

**Arcadis Environmental Inc.**

**Completed Phase I, January 21, 2019**

Daniel.Petzold, Senior Geologist  
317-231-6500  
[daniel.Petzold@arcadis.com](mailto:daniel.Petzold@arcadis.com)  
OR  
Mark Fisherkeller  
[Mark.Fisherkeller@arcadis.com](mailto:Mark.Fisherkeller@arcadis.com)

**Adjacent property neighbor is a  
partner and is highly supportive.**

Allison Adams  
559 Rose Ave. New Haven, IN 46774  
260-402-1902  
260-493-3734

**Earth Source Inc, Vice President**

Daniel L. Ernst, **PLA, ASLA**  
14921 Hand Road  
Fort Wayne, IN 46818  
p. 260-489-8511  
[dan@earthsourceinc.net](mailto:dan@earthsourceinc.net)

**Treasurer, Heartland Communities Inc., Director,  
Save Maumee Grassroots Organization Inc.,  
Refugee Agricultural Participation Program Manager:**

10 acre agricultural field Project Manager  
Jain Young  
p. 425-213-7516  
[jain@savemaumee.org](mailto:jain@savemaumee.org)

(Continued) List of Notifications and Correspondence,  
Please Contact Directly:

**The Nature Conservancy, Indiana**

Land Steward Assessment

Nathan Herbert

260-665-9141

[nherbert@tnc.org](mailto:nherbert@tnc.org)

**Indiana Department of Natural Resources (IDNR)**

**District Forester, District 3**

Quentin Beahrs

5400 E. Salamonie Forest Road

Lagro, IN 46941

260-782-0430

[qbeahrs@dnr.in.gov](mailto:qbeahrs@dnr.in.gov)

**Element Materials Technology - Fort Wayne**

Jay VanMarkwyk

[Jay.VanMarkwyk@element.com](mailto:Jay.VanMarkwyk@element.com)

328 Ley Rd. Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124

Daniel Ernst from Heartland Restoration/Earth Source had inspected the site on August 24, 2020 for the Summer Inspection, which is not included in this report.

Thank you for your time and considerations,

Written to the best of my knowledge and submitted by ,



Abigail King

Save Maumee Grassroots Organization President & Founder  
Save Maumee Riparian Buffer Initiative Manager

1901 Niagara Drive.  
Fort Wayne, IN 46805  
p. 260-417-2500  
[abby@SaveMaumee.Org](mailto:abby@SaveMaumee.Org)