



Element
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October 21, 2022

Ken Myers
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312

RE: CSO 003

Dear Ken Myers:

Lot Id: 128616

Element Materials Technology – Fort Wayne received 6 sample(s) on 10/13/2022 for the analyses presented in the following report.

In accordance with your instructions, a laboratory of Element Materials Technology Fort Wayne LLC either conducted or subcontracted these analyses. Subcontracted analyses will be identified in an accompanying case narrative and any associated report(s) will be attached in full. Unless otherwise noted in the case narrative, all analyses were conducted using approved methodologies. Reported results relate only to the items tested.

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.

Sincerely,

A handwritten signature in cursive script that reads "Nicole Breauchy".

Nicole Breauchy
Project Manager
Suite 100, 328 Ley Road,
Fort Wayne, IN 46825

Accreditation

TNI:2016 (Florida)
ISO 17025:2017 (A2LA)
Indiana
Michigan
South Dakota
Tennessee

Cert #

E871168
6190.02
M-02-05
9030
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04911

Analytical Report

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: CSO 003 Project Name: Project Location: LSD: P.O.:	Lot ID: 128616 Control Number: Date Received: Oct 13, 2022 Date Reported: Oct 21, 2022 Report Number: 229200
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

Reference Number	128616-1	Sample Date	2022-10-13 09:41			
Sample Description	CSO 003	Sample Matrix	Wastewater			
Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Subcontracted Services						
Subcontractor Report ID	180-146187-1		1		Oct 20, 2022 14:48	NB
Cyanide, Available	<0.002	mg/L	1	0.002	Oct 19, 2022 15:11	NB

Reference Number	128616-2	Sample Date	2022-10-13 09:41			
Sample Description	CSO 003	Sample Matrix	Wastewater			
Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Aggregate Organic Constituents						
Oil & Grease, Total	<5	mg/L	1		Oct 14, 2022 14:00	SK
Oil & Grease, Total	Calculated Reporting Limit	mg/L	1		Oct 14, 2022 14:00	SK

Reference Number	128616-3	Sample Date	2022-10-13 09:41			
Sample Description	CSO 003	Sample Matrix	Wastewater			
Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Microbiology						
Escherichia coli	Multi Well	>2420	MPN/100mL	1	1	Oct 13, 2022 16:16 CS

Reference Number	128616-4	Sample Date	2022-10-13 09:41			
Sample Description	CSO 003	Sample Matrix	Wastewater			
Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Aggregate Organic Constituents						
Biochemical Oxygen Demand	BOD	<13	mg/L	1	2	Oct 14, 2022 14:35 AS
Physical and Aggregate Properties						
Total Suspended Solids	Non-Filterable Residue	8	mg/L	1	2	Oct 14, 2022 12:47 AS
Routine Water						
Chloride		71	mg/L	5	2	Oct 14, 2022 19:46 RB
Sulfate		40	mg/L	5	2	Oct 14, 2022 19:46 RB

Reference Number	128616-5	Sample Date	2022-10-13 09:41			
Sample Description	CSO 003	Sample Matrix	Wastewater			
Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Metals - Total in Water by ICP-MS						
Cadmium	Total	0.0004	mg/L	1	0.0002	Oct 14, 2022 06:29 FR
Chromium	Total	0.0279	mg/L	1	0.0004	Oct 14, 2022 06:29 FR
Copper	Total	0.0179	mg/L	1	0.0002	Oct 14, 2022 06:29 FR
Lead	Total	0.0255	mg/L	1	0.0002	Oct 14, 2022 06:29 FR

Analytical Report


Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: CSO 003 Project Name: Project Location: LSD: P.O.:	Lot ID: 128616 Control Number: Date Received: Oct 13, 2022 Date Reported: Oct 21, 2022 Report Number: 229200
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

Reference Number 128616-5	Sample Date 2022-10-13 09:41
Sample Description CSO 003	Sample Matrix Wastewater

Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Metals - Total in Water by ICP-MS - Continued						
Nickel	Total	0.006	mg/L	1	0.001	Oct 14, 2022 06:29 FR
Zinc	Total	0.143	mg/L	1	0.0004	Oct 14, 2022 06:29 FR

Reference Number 128616-6	Sample Date 2022-10-13 09:41
Sample Description CSO 003	Sample Matrix Wastewater

Analyte	Result	Units	DF	Nominal DL	Analysis Start Date/Time	Analyst Initials
Inorganic Nonmetallic Parameters						
Nitrogen, Ammonia (As N)	0.4	mg/L	1	0.1	Oct 17, 2022 10:33	RW
Nitrogen, Nitrate + Nitrite (As N)	1.5	mg/L	1	0.1	Oct 19, 2022 13:21	RW
Total Phosphorus	3	mg/L	10	0.1	Oct 19, 2022 17:07	JB
Total Kjeldahl Nitrogen	0.8	mg/L	1	0.5	Oct 21, 2022 01:15	AS
Total Nitrogen	2.3	mg/L	1	0.5	Oct 21, 2022 01:15	AS

Approved by: 
 Nicole Breauchy
 Project Manager

Methodology and Notes

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: CSO 003	Lot ID: 128616
Attn: Ken Myers	Project Name:	Control Number:
Sampled By: HP	Project Location:	Date Received: Oct 13, 2022
Company:	LSD:	Date Reported: Oct 21, 2022
	P.O.:	Report Number: 229200
	Proj. Acct. code:	

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Ammonia-N by FIA	EPA	Determination of Ammonia Nitrogen by Semi-Automated Colorimetry, E350.1	Oct 17, 2022	Fort Wayne
Anions by IC in Water	EPA	Determination of Inorganic Anions by Ion Chromatography, E300.0	Oct 14, 2022	Fort Wayne
BOD and CBOD in water	SMEWW	BOD: 5-Day Test, 5210B	Oct 14, 2022	Fort Wayne
Coliforms by Quantitray	SMEWW	Enzyme Substrate Test, 9223B	Oct 13, 2022	Fort Wayne
External Sublet Data Entry	Ext. Lab	External Lab, Ext. Lab	Oct 19, 2022	Fort Wayne
Metals ICP-MS Total in water	EPA	Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry, E200.8	Oct 14, 2022	Fort Wayne
Nitrate Nitrite in Water by FIA	EPA	Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry, E353.2	Oct 19, 2022	Fort Wayne
Oil and Grease	EPA	n-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated n-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, E1664	Oct 14, 2022	Fort Wayne
Phosphorus Total in Water by FIA	SMEWW	Phosphorus: Automated Ascorbic Acid Reduction Method, 4500-P F	Oct 19, 2022	Fort Wayne
Solids - Suspended	SMEWW	Total Suspended Solids, 2540D	Oct 14, 2022	Fort Wayne
Sublet to Test America-Pittsburgh	Ext. Lab	External Lab, Ext. Lab	Oct 20, 2022	Test America-Pittsburgh
TKN in Water by FIA	Calculated	Calculated Result, Calculated	Oct 21, 2022	Fort Wayne
TKN in Water by FIA	EPA	Total Kjeldahl Nitrogen by Semi-Automated Colorimetry, E351.2	Oct 21, 2022	Fort Wayne

References

Calculated	Calculated Result
EPA	United States Environmental Protection Agency
Ext. Lab	External Laboratory
SMEWW	Standard Methods for the Examination of Water and Wastewater

Comments:

- Oct 19, 2022 - The dilution water blank for the BOD analysis was outside of acceptance limits. This data is accepted based on acceptable recoveries in additional associated QC.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

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

Report Transmission Cover Page

Bill To: East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN, United States 46312	Project ID: CSO 003 Project Name: Project Location: LSD: P.O.:	Lot ID: 128616 Control Number: Date Received: Oct 13, 2022 Date Reported: Oct 21, 2022 Report Number: 229200
Attn: Ken Myers Sampled By: HP Company:	Proj. Acct. code:	

Contact	Company	Address
Ken Myers	East Chicago Sanitary District	5201 Indianapolis Blvd East Chicago, IN 46312 Phone: (219) 391-8466 Fax: Email: kmyers@eastchicago.com

Delivery	Format	Deliverables
Email - Merge Deliverables	PDF	COC / Test Report
Email - Multiple Deliverables By Lot	East Chicago	Test Report

Megan Krauskopf	East Chicago Sanitary District	Fort Wayne, IN null Phone: (260) 471-7000 Fax: Email: megan.krauskopf@element.com
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Delivery	Format	Deliverables
Email - Single Deliverable	East Chicago	Test Report

San Operator	East Chicago Sanitary District	5201 Indianapolis Blvd. East Chicago, IN 46312 Phone: (219) 391-8466 Fax: Email: sanoperator@eastchicago.com
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Delivery	Format	Deliverables
Email - Merge Deliverables	PDF	COC / Test Report
Email - Multiple Deliverables By Lot	East Chicago	Test Report

Notes To Clients:

- Oct 19, 2022 - The dilution water blank for the BOD analysis was outside of acceptance limits. This data is accepted based on acceptable recoveries in additional associated QC.



element™

Chain of Custody

Laboratory Number: **128616**

Company Name:
Contact Name:
Address:
City, State Zip:
Phone Number:
Fax Number:
E-mail Address:

Client Information:	Billing Information:
East Chicago Sanitary District	Same
Henry Padilla	
5201 Indianapolis Blvd	
East Chicago IN 46401	
219-391-8466 Ext. 240	Ext:
hpadilla@eastchicago.com	

PO Number:
Quote Number:
Required QC Level
Bill Monthly
 Yes
 No

Project Name/Number:
CSO 003

Sampler's Signature
Henry Padilla

Shipping Method:
UPS / FedEx / Airborne
DHL / ~~Element~~ / Hand / Mail

Page 1 of 1
Matrix Code

DW = Drinking Water
WW = Waste Water
GW = Ground Water
AQ = Aqueous
OT = Other
SL = Sludge SOL = Solid
O = Oil SO = Soil
F = Food SW = Swab
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/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	Turn Time 5 TAT	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Collection Information		Container		Pres. HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	Requested Tests										Comments		
			Date	Time	Grab / Composite	Matrix		Quantity	Type P=Plastic, G=Glass, V=Vial	CYANIDE 1677	Oil & Grease	E. coli	300: Chlor, SO ₄	*Metals	NH ₃ , T. Phos, Total N	TSS, BOD	Low level Hg			
CSO 003	10-13-22	9:41	G	WW	1	P	NAOH	X												Samples Meet Acceptance Policy <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				WW	1	G	H ₂ SO ₄		X											*Cd, Cr, Cu, Pb, Ni Zn
				WW	1	G	Na ₂ S ₂ O ₃			X										Low level Hg is once a week
				WW	1	G	BrCl											X	No H ₂	
				WW	2	P	NONE				X				X					
				WW	1	P	HNO ₃					X								
				WW	1	P	H ₂ SO ₄						X							

Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler:
<i>Henry Padilla</i>	10-13-22 10:28	<i>Carson Blake</i>	10-13-22 10:28	Start Date/Time: _____ End Date/Time: _____
<i>Carson Blake</i>	10-13-22 1:30	<i>Daniel Ramirez</i>	10-13-22 1:30	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: <i>4.1</i> °C
<i>Daniel Ramirez</i>	10-13-22 14:45	<i>John Kinsch</i>	10-13-22 14:45	

All samples submitted to Element Materials Technology for analysis are accepted on the condition that the client agrees to hold Element Materials Technology responsible for the results.

Lot: **128616** COC

ins with the client submitting the samples.

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F596-PPP