City of Goshen

2025

National Pollution Discharge Elimination System <u>Streamline Mercury Variance</u>

(NPDES # IN0025755)

Opportunity for Public Comment and Review Comment Period Opens: November 28, 2025 Comment Period Closes; December 28, 2025

Address comments to:

PMPP

Jim Kerezman, Superintendent Goshen Wastewater Treatment Plant 1000 W. Wilden Avenue Goshen, IN 46528

Or email comments to:

wastewater@goshencity.com (include PMPP in the subject line)

Mercury Pollutant Minimization Program Plan

Goshen, IN

NPDES Permit No. IN0025755



MUNICIPAL STREAMLINED MERCURY VARIANCE (SMV) APPLICATION

State Form 52112 (5-05) Approved by State Board of Accounts, 2005 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Indiana Department of Environmental Management Office of Water Quality – Mail Code 65-42 NPDES Permits Branch 100 North Senate Avenue Indianapolis, Indiana 46204-2251

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Name of Facility City of Goshen Wastewater Treatme			
Facility Address 1000 W. Wilden Avenue			
City or Town Goshen			
State IN	ZIP Code 46528		County Elkhart
National Pollutant Discharge Elimination System (NPDES) IN0025755			
Owner or Person in Responsible Charge (i.e., Town Board Mayor, Gina Leichty	President/Mayor)		
Title Mayor			
Address 202 S. 5 th Street			
City or Town Goshen			
State IN	ZIP Code 46528		
Name of Primary Contact Person Jim Kerezman			
1000 W. Wilden Avenue			
City or Town Goshen			
State IN	ZIP code 46528		Telephone No. 574-534-4003
E-mail Address (if available) jimkerezman@goshencity.com			
NPDES Outfall(s) Affected by Streamlined Mercury Variand Outfall 001			
Receiving Stream(s) Affected by Streamlined Mercury Variable Elkhart River	ance Request:		
Facility Design Flow: 5.0 MGD Dry Weather & 12.5 MDG \	Net Weather		
Population Served: 33,722 (2020 Census)			
Number of Significant Industrial Users (as defined in 327 I/2)	AC 5-17-23):		
GLORES SEED CHEST WERE SEED AND A		RE BLOCK	多的 生物研究 根外线 计特别
This application must be signed by a person in respons I certify under penalty of law that this document and all that qualified personnel properly gather and evaluate the persons directly responsible for gathering the information I am aware that there are significant penalties for subm	attachments were prepared he information submitted. Ba on, the information submitted	I under my direction or super ased on my inquiry of the per d is, to the best of my knowle	rvision in accordance with a system designed to assure arson or persons who manage the system, or those edge and belief, true, accurate, and complete.
Printed Name Jim Kerezman		Title Superintendent	
Signature		Date Signed (month, day, yea	ar)
Return the completed SMV application package (Parts (see IC 13-18-20-12(a)(4)) to the mailing address listed		e:	

PART TWO - POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) INVENTORY/IDENTIFICATION

A. Provide a preliminary inventory of potential uses and sources of mercury in all buildings and departments, as well as a preliminary identification of known mercury-bearing equipment, wastestreams, and mercury storage sites. The following checklist* includes many of the chemicals, equipment, locations, etc. where mercury may be present at your site. For the purpose of satisfying the requirements of this section, you may submit the completed checklist as a preliminary inventory/identification. While the checklist is intended to facilitate the inventory/identification process, it should not be considered as all-inclusive for purposes of establishing a complete inventory. (see 327 IAC 5-3.5-9(a)(1) and 327 IAC 5-3.5-9(a)(2))

LABORATORY EQUIPMENT					
☐ Manometers	☐ Ion exchange	cartric	dges for l	ab water purification system	
□ Barometers (Non-mercury)	Hanging mercur	y drop	electrod	les for polarographic analyzers	
	☐ Mercury Hallo	w Cath	hode lam	np for AA analysis	
LABORATORY CHEMICALS					
☐ COD analysis reagent (mercuric sul	fate)			☐ Mercury or mercurous chloride	
□ TKN and TP analysis digestion reag	ents			☐ Mercury iodide	
☐ Nessler reagent			☐ Mercury nitrate		
☐ Mercury analytical standards				☐ Mercury (II) oxide	
☐ Gas chromatograph sample interfer	ences (elemental r	mercui	iry)		
☐ Sodium hypochlorite (Clorox)			☐ Merthiolate		
BULK CHEMICALS					
□ Phosphorus removal chemicals] [☐ Chlorine		
				n hypochlorite	
		☐ Sulfuri			
		☐ Nitric a			
			or ferrous chloride		
		☐ Picklin	g liquor (for phosphorus removal)		
PROCESS CONTROL AND MEASUR	ING EQUIPMENT	_			
☐ Accustats			ling balar		
Barometers		☐ Shunt trips			
Counterweights		☐ Steam flow meters			
☐ Elemental mercury for refilling		☐ Stokes gauges Switches and relays:			
mercury-containing equipment ☑ Flow meters		Switches and relays: □ Displacement plunger relays			
				ent plunger relays ontrol switches	
☐ Gas regulators and meters					
Gyroscopes		_		control switches (mounted on bourdon tube or diaphragm)	
☐ Hydrometers with thermometers			telay swit		
Level and rotation sensors				etted relays	
☐ Manometers, pressure gauges and	vacuum gauges			splacement relays (found in motors)	
☐ Mercury-sealed pistons		 ⊠ Sump pump, bilge pump and other float controls ⊠ Tilt switches 			
☐ Permeters		☐ Thermometers (including industrial dial face the procedule with a cailless takes)			
☐ Pressure-trols		Thermometers (including industrial dial face thermostats with capillary tubes.)			
☐ Pyrometers ☐ Rectifiers			ransmitte	ats and thermoregulators	
☐ Rectiliers			Taristritte		
BUILDINGS					
☐ DC watt-hour meters		Hvdr	ronic and	warm air controls with tilt switches such as:	
☐ Flame sensors (found in the pilot light	ht and burner	-	Aquasta		
assembly on gas-fired furnaces, boilers			□ Pressui		
and space heaters)			∃ Firestat		
				it controls	
* This checklist was borrowed from the Delta Institute.					
		☑ Pressure/flow controls on air handling units.			

电影 对对自由高级		PART TWO (CONTINUED)
BUILDINGS (continued)		
Switches and relays:		
☐ Fire alarm box switch	nes	☐ Mercury displacement relays (found in lighting, resistance heating
		and motors)
☐ Relay switches		Sump pump, bilge pump, flow monitor, float switches, and other
☐ Mercury wetted relay	'S	float controls
Phosphorus removal chem	icals:	
	ride	
□ Pickling liquor		
□Thermostats		
BEARINGS AND SEALS		
□ Trickling filter Pivot Arm	Bearings (m	nercury bearings/water seals)
LAMPS		
☐ Fluorescent	☐ Mercury	vapor lamps
☐ High-pressure sodium	☐ Metal ha	alide (All lights in all buildings and outside parking lot are LED)
☐ Mercury arc	□ Ultraviol	let disinfection
BATTERIES		
☐ Mercury-zinc (button) ba	atteries	☐ Mercury alkaline batteries
☐ Mercury-cadmium batte	ries	☐ Mercury oxide batteries
PAINT		
☐ Old latex-paint (pre-199	0) 🔲 Marii	ne paint
FIRST AID/MEDICAL		
☐ Mercurochrome		mometers
☐ Sphygmomanometers	☐ Thim	nerosal (contained in eye wash)
OTHER		
☐ Old pesticides, fungicide	es and herbi	cides
☐ Tree root growth control	products	switches and HID headlamps
□ Computer monitors		
COLLECTION SYSTEM		
		⊠ Sewer lines with accumulated mercury
	mercury	☐ Other mercury containing equipment
☐ Sumps with accumulate	d mercury	☐ Mercury-containing chemicals used and/or stored on-site
MERCURY STORAGE SIT	TES	
□ Elemental mercury	☐ Me	rcury-containing items collected for disposal
处于其一个字。在这些是是	理性性	
schedule required under the modification that incorpor conjunction with the other complete inventory should be containing equipment, for chemical suppliers and expenses.	this part should ates the approver schedules for a uld include an e each item iden quipment suppli	g a complete inventory initiated under Section A. above. (see 327 IAC 5-3.5-9(a)(1)) The be expressed in terms of months from the date of NPDES permit issuance, renewal, or yed SMV. It is recommended that the schedule required under this part be developed in action required by the SMV application. The estimate of quantities (i.e., volume of chemicals used annually, or numbers of mercury intified in Part II.A. Additionally, a complete inventory should include documentation from iters of the mercury content in your most commonly purchased items. Mercury may not be to appear on an MSDS, yet still contribute to the overall level of mercury in the influent.

PART TWO (CONTINUED)

- C. Provide the results of a preliminary evaluation of possible mercury sources in the facility's influent. The preliminary evaluation must include an initial list identifying all potential sources of mercury in the POTW's influent by name and address. The preliminary evaluation shall take into consideration, at a minimum, the following: (see 327 IAC 5-3.5-9(b)(1))
 - Medical facilities, for example, the following:
 - a. Hospitals.
 - b. Clinics.
 - c. Nursing homes.
 - d. Veterinary facilities.
 - Dental clinics.
 - 3. Public and private educational laboratories.
 - 4. General industry and all SIU's.
 - 5. Significant sources of residential and retail contributions of mercury, for example, the following:
 - a. Heating, ventilation, and air conditioning contractors.
 - b. Automobile and appliance repair.
 - c. Veterinarians.
 - Others specific to the community served.
 - 6. An identification of the responsibilities under P.L.225-2001 (also known as House Enrolled Act 1901 of the 2001 legislative session) for the significant industrial users for the POTW. P.L.225-2001 outlines the restrictions on the sale or supply of mercury-added novelties, mercury-added products, and mercury commodities, and on the use or purchase of mercury commodities, compounds, or mercury-added instructional equipment and materials by public and non-public schools. In order to satisfy the requirement of this part, include a written statement that attests to the fact that an identification of the responsibilities under P.L.225-2001 has been undertaken.
- D. Provide a plan and schedule for completion of the evaluation initiated under Section C. above. A complete evaluation should include a list identifying all confirmed sources of mercury in the POTW's influent by name and address. The schedule required under this part should be expressed in terms of months from the date of NPDES permit issuance, renewal, or modification that incorporates the approved SMV. It is recommended that the schedule required under this part be developed in conjunction with the other schedules for action required by the SMV application. (see 327 IAC 5-3.5-9(b)(1))

PART THREE - POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) PLANNED ACTIVITIES

- A. Provide a list of planned activities to be conducted to eliminate or minimize the release of mercury to waters of the state. The list of planned activities may consider technical and economic feasibility and must include, at a minimum: (see 327 IAC 5-3.5-9(a)(3))
 - 1. A review of purchasing policies and procedures.
 - 2. Necessary training and awareness for facility staff including an education program.
 - 3. An education program for the public within the service area of the facility.
 - 4. Evaluation of alternatives to the use of any mercury-containing equipment or materials.
 - 5. Other specific activities designed to reduce or eliminate mercury loadings.
 - 6. An identification of the facility's responsibilities under P.L.225-2001 (also known as House Enrolled Act 1901 of the 2001 legislative session). Under P.L.225-2001, a municipality may, in cooperation and with the support of IDEM, implement education programs for the public regarding the reuse and recycling of, or independently implement collection programs for, mercury commodities and mercury-added products. In order to satisfy the requirement of this part, include a written statement that attests to the fact that an identification of the responsibilities under P.L.225-2001 has been undertaken.
- B. For each planned activity identified under section A. above, include the following: (see 327 IAC 5-3.5-9(a)(4))
 - 1. The goal to be accomplished.
 - 2. A measure of performance.

PART THREE (CONTINUED)

- 3. A schedule for action. The schedule required under this part should be expressed in terms of months from the date of NPDES permit issuance, renewal, or modification that incorporates the approved SMV. It is recommended that the schedule required under this part be developed in conjunction with the other schedules for action required by the SMV application.
- C. Provide a list of planned activities designed to reduce or eliminate mercury loadings from each sector identified in Part II.C. of the application, including the goal to be accomplished, a measure of performance, and a schedule for action. (see 327 IAC 5-3.5-9(b)(2)) The schedule required under this part should be expressed in terms of months from the date of NPDES permit issuance, renewal, or modification that incorporates the approved SMV. It is recommended that the schedule required under this part be developed in conjunction with the other schedules for action required by the SMV application. An example of planned activities, goals, measures of performance and schedules for action for the sectors identified in Part II.C. is provided in Attachment A.
- D. Provide an identification of the resources and staff necessary to implement the Pollutant Minimization Program Plan (PMPP). (see 327 IAC 5-3.5-9(a)(6)) The identification should indicate the source and amount of funding available to implement the PMPP, as well as the number and position of employees that will be devoted to PMPP implementation.

PART FOUR - MERCURY MONITORING DATA

Provide all available influent and effluent mercury data for the two-year period preceding submittal of this application. Additionally, provide any information on mercury in biosolids for the two-year period preceding submittal of this application, if available. The data may be supplied on a separate form, but must include results for each individual sample (including unit of measurement and U.S. EPA method), the date the sample was taken, and the analytical laboratory where the analysis was performed. (see 327 IAC 5-3.5-9(a)(5))

Influent				
Date (month, day, year)	Result	ng/l	U.S. EPA Method	Analytical Laboratory
12/14/2023	21.1	ng/l	1631E	Pace Analytical
02/26/2024	13.4	ng/l	1631E	Pace Analytical
04/25/2024	8.3	ng/l	1631E	Pace Analytical
06/28/2024	25.7	ng/l	1631E	Pace Analytical
08/20/2024	25.5	ng/l	1631E	Pace Analytical
10/22/2024	15.2	ng/l	1631E	Pace Analytical
12/17/2024	20.7	ng/l	1631E	Pace Analytical
02/17/2025	9.07	ng/l	1631E	Pace Analytical
04/23/2025	14.8	ng/l	1631E	Pace Analytical
06/11/2025	11.0	ng/l	1631E	Pace Analytical
08/21/2025	14.6	ng/l	1631E	Pace Analytical
10/16/2025	18.5	ng/l	1631E	Pace Analytical

Effluent				
Date (month, day, year)	Result	ng/l	U.S. EPA Method	Analytical Laboratory
12/14/2023	0.79	ng/l	1631E	Pace Analytical
02/26/2024	55.2	ng/l	1631E	Pace Analytical
04/25/2024	0.66	ng/l	1631E	Pace Analytical
06/28/2024	1.01	ng/l	1631E	Pace Analytical
08/20/2024	0.73	ng/l	1631E	Pace Analytical
10/22/2024	0.73	ng/l	1631E	Pace Analytical
12/17/2024	0.74	ng/l	1631E	Pace Analytical
02/17/2025	0.727	ng/l	1631E	Pace Analytical
04/23/2025	2.23	ng/l	1631E	Pace Analytical
06/11/2025	0.585	ng/l	1631E	Pace Analytical
08/21/2025	0.95	ng/l	1631E	Pace Analytical
10/16/2025	0.68	ng/l	1631E	Pace Analytical

产品的不同的工程和特别的	PART FOUR (CONTINUED)							
Biosolids								
Date (month, day, year)	Result	Unit	U.S. EPA Method	Analytical Laboratory				
06/22/2022	< 1.97	mg/kg	7471 A	Pace Analytical				
09/07/2022	< 2.82	mg/kg	7471 A	Pace Analytical				
12/05/2022	< 2.98	mg/kg	7471 A	Pace Analytical				
03/08/2023	< 2.30	mg/kg	7471 A	Pace Analytical				
06/28/2023	0.31	mg/kg	7471 A	Pace Analytical				
09/11/2023	0.66	mg/kg	7471 A	Pace Analytical				
12/12/2023	1.26	mg/kg	7471 A	Pace Analytical				
03/27/2024	< 0.05	mg/kg	7471 A	Pace Analytical				
06/12/2024	< 0.05	mg/kg	7471 A	Pace Analytical				
09/25/2024	< 0.50	mg/kg	7471 A	Pace Analytical				
12/18/2024	< 0.05	mg/kg	7471 A	Pace Analytical				
03/19/2025	< 0.02	mg/kg	7471 A	CF Environmental Laboratory				

PART FIVE - POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) ADDITIONAL REQUIREMENTS

- a. Proof of Public Notice Activities: Provide proof of the public notice activities identified below: (see 327 IAC 5-3.5-9(c))
 For the notice of availability required under Section A.1. provide a copy of the notice as it appears in the newspaper.
 For the posting requirements under Section A.2. attest to that fact that the information was posted as required in a written statement.
- 1. Publish notice of the availability of the draft pollutant minimization program plan (PMPP) in a daily or weekly newspaper of general circulation throughout the area affected by the discharge.
- 2. Post a copy of the information required by this section at the following:
 - a. Principal office of the municipality or political subdivision affected by the facility or discharge.
 - b. The United States post office.
 - c. If one is available, the library serving those premises.
- 3. All notices published under this section shall contain the following information: (see 327 IAC 5-3.5-9(d))
 - a. The name and address of the applicant that prepared the PMPP.
 - b. A general description of the elements of the PMPP.
 - c. A brief description of the activities or operations that result in the discharge for which an SMV is being requested.
 - d. A brief description of the purpose of this notice and the comment procedures.
 - e. The name of a contact person, a mailing address, an Internet address, if available, and a telephone number where interested persons may obtain additional information and a copy of the PMPP.
- 4. The applicant shall do the following: (see 327 IAC 5-3.5-9(e))
 - a. Provide a minimum comment period of thirty (30) days.
 - Include a copy of the comments received and the applicant's responses to those comments in the SMV application submitted to the department.

Annual Reports: Provide a schedule for the submission of the annual reports required under 327 IAC 5-3.5-9(a)(8). Generally, the annual reports should be submitted each year on the anniversary of the effective date of the NPDES permit that incorporates the approved SMV. A proposed schedule with an alternative submittal date is subject to IDEM's approval. The annual reports shall include a description of the facility's progress toward fulfilling each PMPP requirement, mercury monitoring results, and steps taken to implement each planned activity developed under the PMPP.

PART TWO A

Complete Inventory	Plan	Schedule
<u>Laboratory</u> 1 – Mercury Certified Thermometer No Barometers on site	No replacement at this time	None
Bulk Chemicals Sodium Hypochlorite Sodium Bisulfite Ferric Chloride	Mercury Reduced/Free requested during bidding process	Every three years
A Flow Meters a. Flow Meters b. Gas regulators and meters c. Mercoid control switches and tilt switches d. Relay switches e. Float switches	All replaced with non-mercury controls	Completed February 2011
Buildings – a. Flame Sensors b. Aqua Stats c. Limit Switches d. Flow Controls e. Light Switches f. Relay Switches	All of the following have been researched and found to be non-mercury bearing:	None
Lamps a. Fluorescent Lamps b. High Pressure Sodium-Necessary for explosion proof settings.	Over half of the WWTPs fluorescent lamps and fixtures were replaced with LED lighting in 2014-2015. Buildings include the office administration, laboratory, maintenance offices and lounge. Replaced the remaining fluorescent lamps and fixtures with LED lighting which was completed in early 2020.	ALL lights and fixtures at the WWTP including all buildings, driveway lights and tank lighting are LED. Completed in 2020.
First Aid/Medical Thimerosal – Found in eye wash solutions.	Researching alternatives	Laboratory has a permanent eyewash connected to city water.
Other a. Computer monitors and equipment	The City's IT department recycles all computers and electronic equipment.	Ongoing
b. Fleet vehicles	All vehicle maintenance is performed by the City's Central Garage. All fluids are recycled. Vehicles taken out of service are sold at auctions or properly disposed.	Ongoing
Collection System Sewer lines	Sewer lines are cleaned by the Water/Sewer Utility. Private lines are cleaned by the owner.	This process is ongoing with 20 – 25 percent of the sewer mains are televised and cleaned annually.

Municipal Streamlined Mercury Variance Application State Form 52112 (5-05)

Complete Evaluation	Plan	Schedule
Comple	Complete Inventory Plan	
	Researching alternatives for Ferric Chloride	

PART TWO B

At this time, the City of Goshen WWTP has no known mercury bearing products onsite except the following.

- Sodium Hypochlorite May contain low levels of mercury.
 - Sodium Bisulfite May contain low levels of mercury.
 - Ferric Chloride May contain low levels of mercury.
- 1 Certified Thermometer for laboratory use.

The following actions are currently in place or scheduled.

1. Suppliers are asked to provide low level or mercury free products during the bidding process every two years.

- An alternative product will be sought. (ie. Ferric Chloride)
- If no other product is available, the WWTP will research the need for the product and eliminate it if possible.
 - The product will be removed from the facility as soon as possible.
- Waste materials or products that are no longer needed are disposed of in accordance with proper disposal procedures, including but not limited to returning them to the supplier or contracting with licensed disposal facilities.
 - The WWTP participates in "Beautify Goshen" week, which is scheduled for the first week in May of each year.
 - . The fluorescent lamps and fixtures replacement program was completed in 2020.

PART THREE A & B

Planned Activity	Goal	Measure of Performance	Schedule for Action
Review of purchasing policies and procedures: Chemical purchases including: Sodium Hypochlorite Sodium Bisulfite Ferric Chloride	Reduce mercury in effluent		3 year cycle with chemical bids
Staff training	Education & awareness	Participation/Attendance	Ongoing. Part of annual on-line safety program/brochures.
Public education program	Education & awareness	Mercury along with Flushable wipes, Fats, Oils and Grease are discussed during plant tours.	This is ongoing with other articles such as fats, oils and grease, rags and other pretreatment issues.
Other activities Elimination of mercury switches, equipment, fluorescent lamps and fixtures.	Eliminate known mercury at the wwtp and lift stations	Participation	WWTP - Completed 2020 Mercury switches were removed from all lift stations prior to 2015. Lift station lighting replacement completed 2020.
Monitoring sewer collection system	Try to locate other sources of mercury from industrial parks, businesses and residential areas.	Participation Mercury sampling and testing	Ongoing

PART THREE C

Sector	Planned Activity	Goal	Measure of	Schedule for Action
			Performance	
Medical facilities, including:	Sample and test hospital lift station annually	Compliance	Mercury levels/Compliance	Ongoing
*Hospitals. *Clinics.	The City developed and passed a Mercury Reduction Ordinance 4941on March 12, 2018.	Compliance	Participation/Testing	Ongoing
"Nursing nomes. *Veterinary facilities.	Site visits (if applicable – Covid related)	Promote BMP		Ongoing
Dental clinics	The City developed and passed a Mercury Ordinance 4941on March 12, 2018.	Compliance	Inspections	Ongoing
	One-Time Compliance Report for Dental Dischargers	Promote BMP	Compliance	Dental Clinics are in compliance
	Mercury testing	Evaluation of discharge	Mercury levels/Compliance	Ongoing
	Survey(s)	Participation		Industrial surveys are filled out for all new industrial/commercial customers
	Site visits (if applicable – Covid related)	Compliance		
	Amalgam Separators	Compliance	Mercury levels/Compliance Cleaning records	All Dental Clinics have Amalgam Separators installed.
Public and private educational laboratories	Mail Survey(s)	Education & awareness		
	On-site visits (if applicable – Covid related)	Promote BMP	Mercury along with Flushable wipes, Fats, Oils and Grease are discussed during plant tours.	Ongoing – Plant tours with handouts, 3 months after approval - postings on city website
General Industry and all SIU's	Mail Survey(s)	Education & awareness		Every SIU/CIU permit renewals
	On-site visits (if applicable – Covid related)	Promote BMP		Annually- (SIUs), General Industries - Ongoing
	Mercury testing	Evaluation of discharge	Mercury levels/Compliance	Ongoing
Significant sources of residential and retail contributions of mercury, for example, the following:	Plant tours if applicable	Education & awareness	Mercury along with Flushable wipes, Fats, Oils and Grease are discussed during plant tours.	Ongoing
*Heating, ventilation, and air conditioning				
contractors. *Automobile and appliance repair. *Veterinarians.				
*Others specific to the community served.	Survey(s)	Participation		Industrial surveys are filled out for all new industrial/commercial customers

Part Two

Section A&B: Inventory of Potential Sources of Mercury

The Goshen Wastewater Utility conducted an inventory assessment of the potential sources of mercury within the direct control of the WWTP. Since 2008, the staff at the WWTP identified all mercury bearing equipment and budgets the replacements of each piece. As of early 2020, the wastewater utility replaced all fluorescent lights and fixtures with LED lighting in all buildings, driveway lights, and walkway lighting. All mercury tilt and Mercoid switches were replaced and all mercury was disposed of in 2011.

In addition, all major chemical suppliers for Ferric Chloride, Sodium Hypochlorite and Sodium Bisulfite are asked to supply documentation for non-mercury or low mercury during the bidding process. Any mercury bearing chemicals will be evaluated and if possible, an alternate chemical will be sought after.

Section C: Evaluation of Potential Dischargers

The City of Goshen's Wastewater Utility continues to sample the sewer collection system for potential sources of mercury. Samples collected have mainly identified the sewers where dental clinics are practicing, hospital lift station, industrial parks and the largest residential area in the city.

The wastewater utility sent letters to dental clinics along with a copy of Amalgam Mercury Best Management Practices and survey's. On March 12, 2018, Ordinance 4941 was passed by the City Council. Currently, all dental clinics have complied with the "One Time Compliance Report" and they all have installed amalgam separators.

C.6.

This section is not applicable to the City of Goshen since the WWTP does not sell or supply novelties, products, commodities, or equipment and materials and therefore would not apply to the mercury content of these materials.

Section D: Evaluation Timeline for Future Potential Dischargers

As new industries or businesses that may potentially discharge mercury into the sewer collection system, the pretreatment group will make contact with the business and conduct an inspection within the first three (3) months of operation. Samples may be grabbed for verification. The business will also receive educational materials on the minimization of mercury into the sewer collection system. In addition to identifying new potential sources of mercury dischargers, further inspections of previously identified mercury dischargers will continue.



Jim Kerezman, Superintendent WASTEWATER UTILITY, CITY OF GOSHEN

1000 West Wilden Avenue • Goshen, IN 46528-2532

Phone (574) 534-4003 • Fax (574) 534-4350 • TDD (574) 534-3185 wastewater@goshencity.com • www.goshenindiana.org

RE: SUBMISSION OF STREAMLINE MERCURY VARIANCE APPLICATION TO THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

The City of Goshen Wastewater Treatment Plant treats an average of 3.0 million gallons of wastewater every day from residential, commercial and industrial customers. The final effluent discharges to the Elkhart River which continues to flow to Lake Michigan. This treated stream of water must meet strict requirements imposed by the US Environmental Protection Agency (USEPA) and Indiana Department of Environmental Management (IDEM).

One of these restrictions imposed on the City of Goshen is Mercury. Atmospheric conditions such as dust, rain, snow, etc. are a result of some sources of mercury in our waterways, but treated discharge from wastewater treatment plants are often sources as well. A typical source of mercury in the wastewater collection system comes from dental clinics, hospitals, auto repair shops, residential areas, industries, medical facilities and laboratories.

Although the City of Goshen removes almost 98% of the mercury that it receives, it is not sufficient to meet IDEM's water quality standards. The City of Goshen's National Pollution Discharge Elimination Systems permit (NPDES) has a limit so stringent it cannot be met without further measures. IDEM is allowing WWTP's to apply for mercury variances with schedules of compliance to help reduce the amount of mercury in the influent/effluent streams of wastewater treatment plants.

Reducing the amount of mercury entering the WWTP will help reduce the amount of mercury in its final effluent being discharged to the Elkhart River. The City of Goshen is reapplying for a Streamline Mercury Variance application to IDEM to help the WWTP meet these stringent limits.

In order to provide an opportunity for citizens to express concerns about the Streamline Mercury Variance, the Mercury Pollutant Minimization Program Plan is being made available for review and comment. All formal questions and comments about this plan can be directed to Jim Kerezman by December 25, 2025, mail to:

PMPP Jim Kerezman 1000 W. Wilden Avenue Goshen, IN 46528

Or email – Please include in the subject line: PMPP. Email to wastewater@goshencity.com

POLLUTANT MINIMIZATION PROGRAM PLAN (PMPP) INVENTORY/IDENTIFICATION

Inventory of Potential Sources of Mercury

The Goshen Wastewater Treatment Plant (WWTP) has conducted a complete inventory and assessment of the potential sources of mercury within direct control of the WWTP. The inventory was conducted in 2010 and continues to be updated with new products.

No known mercury bearing equipment currently exists at the WWTP. All lighting and fixtures including all driveway and walkway lights are now LEDs. This project was completed in early 2020. All major chemical suppliers are asked to provide quotes for Non-mercury or reduced mercury chemicals during the bidding process. Laboratory results are obtained if applicable.

All Dental Clinics are currently in compliance with the EPAs "One Time Compliance Report" and they all installed Amalgam Mercury Separators.

Evaluation of Potential Dischargers

The City of Goshen has identified facilities within the sewer collection area that are potential sources of mercury through sampling. Most dental facilities received letters about the importance of proper mercury disposal along with a copy of Best Management Practices for Amalgam Mercury Waste. Sampling will continue to help verify potential areas and businesses that may discharge mercury to the sewer collection system.

Evaluation Timeline for Future Potential Dischargers

As new industries move into the city limits, the pretreatment group will contact the business and conduct an inspection within the first three months of operation. The inspection, among other things, will include the identification of potential mercury bearing sources. The business may also receive educational materials if the possibility of mercury exists to help minimize the release of mercury into the sewer collection system.

POLLUTANT MINIMIZATION PROGRAM (PMPP) PLANNED ACTIVITIES

The City of Goshen Wastewater Treatment Plant has developed a plan to educate the public and local businesses and industries of the sources of mercury. These activities have been developed in accordance with 327 IAC 5-3.5-9(b)(2). A complete description of these activities, goals, measures of performance and schedules are included.

Part Three

Section A: Planned Activities

1. Planned Activities

During the chemical bidding process, the City asks for quotes for non-mercury or low level mercury for the following products:

- a. Sodium Hypochlorite
- b. Sodium Bisulfite
- c. Ferric Chloride
- d. The WWTP has reduced the amount of mercury at the wastewater treatment plant by eliminating all mercury switches, tilt switches, and cleaned house of old paint and chemicals stored on site.
- e. All fluorescent and incandescent lamps and fixtures were replaced with LED lighting in 2020.
- 2. Training and Awareness for facility staff.
 - a. Staff awareness of potential mercury in products purchased.
 - b. Mercury safety training is part of our on-line annual safety training. Awareness brochures and attendance sheet(s).
- 3. Education program for the public
 - a. Articles may be posted on the City's website, Maple City Rag and in the Communicator as well as other pretreatment related issues.
 - b. Mercury is discussed along with fats, rags, oil and grease during plant tours.
- 4. Evaluation of alternatives to the use of Mercury containing equipment or materials
 - a. In conjunction with Item #1 above.
 - b. GOAL Mercury reduction.
 - c. Currently no known mercury-bearing equipment exists at the WWTP or Lift Stations.
 - d. MSDS are reviewed.
- 5. Other specific activities designed to reduce or eliminate mercury loadings
 - a. March 2008 The City of Goshen WWTP ceased the acceptance of septage waste and trucked wastewater.
 - b. Physical inspections of industrial facilities are ongoing.
 - c. 2018 Developed a City ordinance to require all known mercury dischargers to install separators and properly maintain the units. Mercury testing of these facilities will be ongoing to ensure compliance.

- 6. Identification of the facilities responsibilities....
 - a. Residential customer in Elkhart County are encouraged to dispose of any mercury bearing materials at the Elkhart County Household Hazardous Waste collection site, that is setup the first Saturday of every month at the Elkhart County Jail off of County Road 7.
 - b. The City of Goshen dedicates the first week in May as "Beautify Goshen Week" and collects household materials such as acrylic paints, tires, batteries, refrigerants, electronic equipment etc.
 - c. Public education on reducing mercury and other contaminants in the waste stream is done during plant tours.

Section D: Resources & Staffing for Implementation

The Wastewater Treatment Utility is wholly funded by sewer rates and charges by sanitary users within the City of Goshen. Rates and charges are evaluated annually by the utility's financial consultant, and adjustments are recommended to the City for present and future funding. It is unknown what the true costs are to implement the PMPP. Budgets are adjusted to cover a portion of these costs each year through the pretreatment program.

Implementation of the controls and activities listed herein will be completed by existing positions funded through the wastewater utility.

- Wastewater Superintendent (1)
- Environmental Compliance Administrator (1)
- Maintenance personnel if needed
- Items listed in Section A-6

PART TWO (B)

PMPP INVENTORY/IDENTIFICATION:

The following items have been identified in Part Two, Section A as potential sources of Mercury. A complete inventory will be completed and submitted within 9 months of the effective date of the NPDES Permit renewal.

1. LABORATORY EQUIPMENT AND CHEMICALS:

- a. Barometers None
- b. Thermometers One with certified mercury thermometer.
- c. TP analysis digestion reagents Recycled. We will seek mercury-free alternatives.

2. BULK CHEMICALS:

- a. Sodium Bisulfite
- b. Thickening polymers
- c. Sodium Hypochlorite Ferric chloride

3. PROCESS CONTROL AND MEASURING EQUIPMENT:

- a. Flow meters
- b. Gas regulators and meters
- c. Mercoid control switches 39 at wwtp. All were eliminated by end of 2010. Final disposal was in February 2011.
- d. Relay switches Non-Mercury
- e. Float controls Non-Mercury
- f. No known Mercury-bearing process control or measuring equipment currently exists at the WWTP.
- g. Tilt switches All were eliminated by end of 2010.
- 4. <u>BUILDINGS</u>: All of the following have been researched and found to be non-mercury bearing:
 - a. Flame sensors
 - b. Aqua stats
 - c. Fan limit controls
 - d. Pressure/flow controls on air handling units.
 - e. Silent light switches
 - f. Relay switches

5. LAMPS:

- a. All lighting and fixtures are now LEDs. Our lighting replacement program completed in early 2020.
- b. High-pressure sodium These were the last to be replaced because of cost. Completed in early 2020.

6. FIRST AID/MEDICAL:

a. Thimerosal (All eye wash units are connected to city water)

7. OTHER:

a. Computer monitors – The City's IT department recycles all computers, monitors and keyboards.

b. Fleet vehicles – All vehicle maintenance is performed by the City's Central Garage and all possible care is taken to not allow mercury bearing waste into the sewer system. Vehicles taken out of service are sold at public auction or properly recycled.

8. COLLECTION SYSTEM:

a. Sewer lines with accumulated mercury – Municipal owned to be cleaned by Utility personnel. Privately owned to be cleaned by owner. Anticipated completion date: Sewer cleaning is ongoing along with televising all sewers.

COMPLETE INVENTORY PLAN

In order to compile the complete inventory of products potentially containing Mercury, The City of Goshen WWTP has commenced contacting suppliers for information on the Mercury content of all products purchased. At the same time, suppliers of alternative products, if available, will be asked for the same information. Once a Mercury bearing product is identified, the following steps are taken:

- 1. An alternative product will be sought.
- 2. If no alternative product is available, the WWTP will research the need for the product and eliminate it if possible.
- 3. The product will be removed from the facility as soon as possible.
- 4. Waste materials or products that are no longer needed will be disposed of in accordance with proper disposal procedures, including but not limited to returning them to the supplier and contracting with licensed disposal facilities.

PART TWO (C)

PRELIMINARY EVALUATION OF POSSIBLE MERCURY SOURCES IN THE CITY OF GOSHEN WWTP INFLUENT.

- 1. Medical Facilities:
 - a. Hospitals
 - b. Clinics
 - c. Nursing Homes
 - d. Veterinary Facilities
- 2. <u>Dental Clinics</u> 15 facilities. Dental Clinics were tested for Mercury and all have been identified as a contributing source. A Mercury Ordinance was adopted, and all dental clinics are in compliance with the "One Time Compliance Report" and all dental facilities installed amalgam separators by the end of 2018.
- 3. Public and Private Educational Laboratories:
 - a. College
 - b. High School
 - c. Middle School

Public education on mercury and other pretreatment issues such as fats, rags, oil and grease are conducted during plant tours.

Staff education is part of our safety program.

- 4. <u>General Industry and all SIU's</u> 7 SIUs. No known Mercury users in the industrial sector. SIU's are not a source of Mercury at this time.
- 5. Significant sources of residential and retail contributions of Mercury:
 - a. Heating, ventilation and air conditioning contractors
 - b. Automobile and appliance repair
 - c. Veterinarians
 - d. Other Significant retail areas have been sampled for Mercury at various times.
 Residential areas are sampled quarterly for background data for Local Limit
 Review.
- 6. <u>Identification of responsibilities for the SIUs</u> –This shall be done during the annual audit and inspection of each SIU.

PART TWO (D)

The results of the complete evaluation of the potential sources of Mercury listed in Part Two (C)

PART THREE

PMPP Planned Activities

- 1. <u>Review of purchasing policies and procedures</u> Superintendent and Maintenance Manager.
 - a. Ask if any mercury-bearing materials are in products purchased.
 - b. Request MSDS train staff to be aware of potential mercury in products purchased.
 - c. GOAL Replace mercury-bearing products with non-mercury-bearing products if possible.
 - d. MEASURE OF PERFORMANCE lower concentration of mercury in WWTP final effluent.
- 2. Training and Awareness for facility staff Environmental Compliance Administrator.
 - a. Mercury awareness is provided through on-line annual safety training.
 - b. GOAL Education/awareness
 - c. MEASURE OF PERFORMANCE Participation
- 3. Education program for the public Environmental Compliance Administrator.
 - a. Education during plant tours
 - b. GOAL Education/awareness
 - c. MEASURE OF PERFORMANCE Participation
- 4. <u>Evaluation of alternatives to the use of Mercury-containing equipment or materials</u> WWTP Superintendent and Environmental Compliance Administrator.
 - a. In conjunction with Item #1 above.
 - b. GOAL Mercury reduction

c. MEASURE OF PERFORMANCE – Lower concentration of mercury in plant influent/effluent.

PART FOUR

Mercury Monitoring Data – Attached to this application.

PART FIVE

PMPP Additional Requirements

- 1. <u>Proof of Public Notice activities</u> Public Notice and all associated documents are attached to this application.
- 2. <u>Annual Reports</u> Annual reports shall commence on the anniversary date of the effective date of the City of Goshen WWTP NPDES Permit that incorporates the approved SMV.

Additional Attachments

3. Mercury Reduction Ordinance

Not included:

1. <u>Dental</u> – One-Time Compliance Reports. (Submitted in 2020 renewal)

ATTACHMENT - A

PUBLIC NOTICE

		1

ATTACHMENT - B

EDUCATION/TRAINING

	*			

Goshen WWTP Safety Training

Mercury Awareness

Materials: Brochures

Print	Signature	Date
Mick Reese	Michey Rece	11/25/25
Tracie Herschberger	There thersetting	11-25-25
C1157104 1/2	Can l	11.25.25
ANDY BERNEY	anohu Benery	11-25-25
Rodney Hahn	Redy Hel	11/25/25
BriAN LANG	33	11-25-25
Charles Risss	Charle Riggs	11-25-25
Justin Rippey	South The	11-25-25
Timothy Nice	Tietling Van	11-25-25
Jim Korozmy	Va 9	11/25/25



Mercury

Answers to Frequently Asked Health Questions

"To protect and improve the health of all Ohioans"

What is mercury?

Mercury is a naturally occurring element found in the environment. Mercury is a metal found in three forms. The three forms of mercury are:

- Elemental (also called Metallic Mercury)
- Organic
- Inorganic

Mercury combines with other elements, such as chlorine, sulfur or oxygen, to form inorganic mercury compounds or "salts," which are usually white powders or crystals. Mercury also combines with carbon to make organic mercury compounds.

Elemental or Metallic Mercury is a shiny, silver, odorless, liquid metal. Metallic mercury is the elemental or "pure" form of mercury because it is not combined with other elements. It is the common liquid metal used in thermometers, dental fillings, blood pressure cuffs, fluorescent light bulbs, barometers, batteries and switches. It can also be found in some older medicines. At room temperature, metallic mercury will vaporize and form mercury vapors. These mercury vapors do not have a color, do not have a smell and are harmful to your health.

Organic Mercury is mercury that combines with carbon and hydrogen to make an organic mercury compound. The most common organic mercury compound is methylmercury. Methylmercury is produced by microscopic bacteria that live on the bottom of lakes and ponds. These bacteria ingest the mercury and turn it into

the mercury and turn it into methylmercury. Higher levels of methylmercury in the water build up in the tissue of fish and can be dangerous.



Inorganic Mercury is mercury that combines with other elements such as chlorine, sulfur or oxygen, to form "salts." Mercury salts were once used in skin lightening creams and may be present in old antiseptic creams and ointments.

How does mercury enter the environment?

- Mercury can enter the water or soil from natural ore deposits in rock. Volcanic rock contains higher levels of mercury. Ohio's rocks contain low levels of mercury.
- Metallic mercury and inorganic mercury compounds can enter the air from burning coal and the coal mining waste.
- When mercury is released in the burning of coal, it will come down in the rain that will then run into Ohio's lakes and streams. Microscopic bacteria in the water ingest the mercury and convert it to methylmercury. The more mercury in the environment, the more methylmercury these small organisms in the water make. Higher levels of methylmercury in the water build up in the tissues of fish. The larger and older fish tend to have the highest levels of mercury. Note: Ohio fish advisories suggest limits for eating Ohio's fish.
- Metallic mercury easily evaporates into the air when the liquid metal is spilled. The Ohio Mercury Reduction Group is educating Ohio schools to remove all metallic mercury-containing items from their school grounds.

How does mercury get in your body?

- By breathing the vapors in the air from a mercury spill. If you drop a mercury thermometer on the ground, it may break and the mercury may separate into many small beads and spread throughout the room. At room temperature, metallic mercury will vaporize. The higher the temperature, the more vapors will be released. These vapors are colorless, odorless and are harmful to your health.
- By breathing the smoke, vapors and particles from industries that burn mercury-containing coal.
- By eating fish or shellfish contaminated with methylmercury.
- By the small releases of mercury from dental work and medical treatments.
- By breathing contaminated workplace air or skin contact. There is an increased risk for dental, health services, chemical and other industries that use mercury.

Disposing of Mercury

Dispose of mercury the right way!

Bring the following mercury items to Disposal of

- Thermometers
- Barometers
- Auto switches
- Compact fluorescent tubes/light bulbs
 - **Thermostats**
- **Button cell batteries**

containing items, please call the Disposal of Toxics For more information on additional mercury-Program.

When handling products with mercury:

Store items out of the way in bubble wrap or boxes until you can take them to the Disposal of Toxics Do not break, crush, or disassemble the items. facility:

Disposal of Toxics

(one block west of the airport entrance) 3505 Airport Drive, Bellingham 360-380-4640

First Saturday of every month 9 am - 4 pm Open Monday — Friday 9 am - 4 pm

away from the spill. Call the Whatcom County Health it, sweep it, or vacuum it. Keep children and pets If a product is accidentally broken, do NOT touch Department for spill assistance 360-676-6724.

Never put mercury-containing products or anything contaminated with mercury in the garbage or down the drain. Call the Disposal of Toxics collection facility for more disposal information.

Questions? Call the Recycling Hotline 360-676-5723

Mercury Resources

For more information on mercury, check out the following:

Environmental Protection Agency mercury information: www.epa.gov/mercury Mercury Awareness, Washington State Department of Ecology, Publication #01-04-022, Revised December 2003: www.ecy.wa.gov/pubs/0104022.pdf

www.watoxics.org/content/pdf/mercuryfactsheet.pdf Mercury Fact Sheet, Washington Toxics Coalition, February 2004:

US EPA page on cleaning up small mercury spills:

Pictures and information about necklaces with liquid http://www.epa.gov/hg/spills/

www.doh.wa.gov/ehp/ts/iaq/mercurynecklaces.html mercury pendants:



Whatcom County Public Works Solid Waste Division

322 N. Commercial, Suite #220 Bellingham, WA 98225 Phone: 360-676-7695

Recycling Hotline: 360-676-5723

www.whatcomcounty.us/publicworks/solidwaste

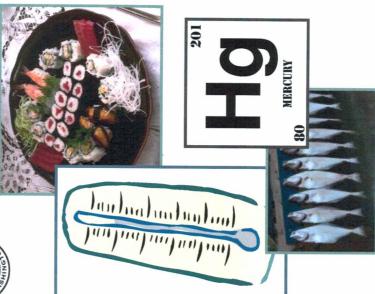


Whatcom County Public Works Solid Waste Division

he Hazard of Mercury



Protecting Your Family



Printed on 100% recycled paper.

Mercury is a naturally occurring element that the health of humans and have serious effects on and its compounds can Unfortunately, mercury consumer products sector as well as in many use in the industrial These properties of mercury have led to its pressure. At room temperature, it is a liquid in response to changes in temperature and conducts electricity and expands and contracts mercury entering Mercury facts: annually is enough a 20-acre lake One drop of to elevate the

developing. nervous systems are still at risk because their children are particularly kidneys, and lungs. and can harm the brain, Mercury is highly toxic Unborn and young

> drops of mercury. holds about 70 One teaspoon

The average

as broken thermometers may ultimately end up eating mercury-contaminated fish. Mercury mercury occurs most frequently as a result of in water bodies, contaminating fish and wildlife released to the environment from products such Human exposure to

Mercury in Household Products

switch to mercury-free alternatives properly dispose of all of these products at the we use, from light bulbs to thermostats. You can Mercury is found in many of the everyday items Disposal of Toxics facility. In many cases, you can

Keep reading to learn about some common household products that contain mercury.

Household

Fluorescent Lamps

properly at Disposal of Toxics. Mercury is used in the fluorescent-tube, compact fluorescent, and high-intensity discharge (HID) lamps. These light bulbs are very energy efficient, but they need to be disposed of



Thermometers

glass thermometers and can be easily identified by the presence of silver liquid. Digital and ethanol (red liquid) thermometers are mercury-free alternatives Mercury's sensitivity to temperature change makes it useful for thermometers. It is used in

Thermostats

and air conditioning systems. Newer, digital thermostats do not use mercury. Mercury is used in older thermostat switches that control temperature changes in heating



Automobile Switches

mercury level in fish.

opened, and/or to operate some anti-lock brake systems. Mercury-containing auto switches Mercury is used in vehicle mechanisms to turn on lights when the hood, trunk, or doors are have been phased out of new cars in Washington State beginning January 1, 2006

Batteries

1-4 drops depending

thermometer holds

A, AA, C, D, etc.) and has limited the amount of mercury added to button cell batteries prohibited intentional addition of mercury to standard household batteries (dry-cell sizes Mercury prevents internal discharge and gassing in batteries. Since 1994, federal law has



Mercury in Fish



other nutrients— some fish contain levels of mercury that are unhealthy for human Although fish is a nutritious food—it is low in fat and is a good source of protein and

six to avoid certain types of fish that have high amounts of mercury including shark, swordfish, tilefish, king mackerel and fresh-caught or frozen tuna. The Department of Health has advised women of childbearing age and children under

week. Children under six should eat less than half of a can of tuna (three ounces) per week six ounces). A woman or child who weighs under 135 pounds should eat less than one can of tuna per Women of childbearing age should not eat more than one can of tuna fish per week (or



www.doh.wa.gov/ehp. For more information on mercury in fish and Fish Consumption Advisories, visit:

Goshen Wastewater Treatment Plant

What is the problem with Mercury?

- Mercury has been found in vital organs and tissues, such as the liver, brain, and heart muscle. Major symptoms of mercury toxicity include emotional instability, tremors, gingivitis, and kidney failure. Recent studies have found that substantial amounts of mercury vapor are released from dental amalgam after chewing gum for just ten minutes.
- Mercury has been found in freshwater fish with levels high enough to require consumption advisories.

Where does mercury come from that enters a wastewater treatment plant?

- Mercury found in wastewater treatment plants (WWTP) influent typically comes from dental facilities and residential waste. Dental facilities waste-stream may contain significant amounts of mercury which is found in amalgam. Dental facilities with properly installed and maintained amalgam separators can remove up to 98-99% of mercury in their discharge.
- Mercury found in residential waste-streams include: human waste (ingested mercury from fish and other sources pass through the body), and broken old household thermometers.
- Other sources of mercury come from auto repair shops, medical facilities, heating and cooling, industries and laboratories.

Why can't wastewater treatment plants remove mercury?

• The City of Goshen's Wastewater Treatment Plant removes about 98% of the mercury entering the facility. However, even at these removal percentages, the treatment process cannot remove mercury to the levels of 1.3 parts per trillion required by the US Environmental Protection Agency (EPA). Removing mercury to this level would require millions of dollars in wastewater treatment plant upgrades. It is more cost effective to remove mercury at the source with Amalgam Separators and Best Management Practices (BMPs).

What is being done to reduce mercury entering the sewer collection system?

- WWTPs are required to meet stringent limits for mercury in the final effluent. If these limits cannot be
 met, they are required to implement a Pollution Minimization Program Plan (PMPP) to help educate
 the public, businesses and industries about mercury and how they can help reduce the amount of
 mercury they discharge to the treatment plant.
- The proposed mercury variance includes the steps necessary to help reduce the amount of mercury being discharged to the sewer collection system. Steps include:
 - Completing internal inventory of mercury-bearing equipment and chemicals.
 - o Develop policies and programs for mercury management.
 - Continuing with mercury monitoring of the sewer collection system, businesses and industries to characterize mercury discharges.
 - Public education

How much mercury are we talking about?

- The mercury found in the treatment plants effluent is too small for most to imagine.
 - Imagine this: The State of Indiana equals 1 trillion square feet (1,000,000,000,000,000). If you pickup one and a half twelve inch square tiles, that is more than the daily maximum of 1.3 parts per trillion which is proposed in our National Pollution Discharge Elimination System Permit (NPDES).
 - An Olympic sized swimming pool holds 660,430 gallons of water or 59.6 billion drops of water. 1 part per trillion is equivalent to 1 drop in 16.5 Olympic sized swimming pools.

What can I do to help?

 Properly dispose of household items that may contain mercury. Some items that may contain mercury include: old thermostats, thermometers, irons or space heaters designed to shut off if tipped over, sump pump floats, ballasts, fluorescent lamps just to name a few.

ATTACHMENT - C

MEDICAL/DENTAL/INDUSTRIAL LIST

Goshen Mercury Sampling Report Summary of Industrial Discharges

5.		T (14 ()	Effluent Results
Date	Facility	Type of Manufacturing Process	ng/l
	3 Grant Drive	Domestic Background	10.9
	3 CR 21 & SR 119	Residental/Medical	15.1
	3 Dairy Farmers of America	Milk Processing	32.2
	3 Gleason Reynolds	Metal/Cutting/Welding	1.0
	3 Gleason Monroe	Metal/Cutting/Welding	2.3
	3 Deirdorff Rd	Dental/Industrial	3840.0
12/14/202	3 CR 38 Lift Station	Industrial/Manufacturing	8.8
2/26/2024	4 Grant Drive	Domestic Background	6.9
2/26/2024	4 Dairy Farmers of America	Milk Processing	23.3
2/26/2024	4 12th Street Lift Station	Industrial/Manufacturing	18.4
2/26/2024	4 Millers Poultry	Poultry	34.4
2/26/2024	4 Millers Poultry/SR 15	Poultry	16.1
2/26/2024	4 Johnston Street	Residental	23.8
4/25/2024	4 Grant Drive	Domestic Background	10.2
4/25/2024	4 Ashton Pines	Residental	10.6
4/25/2024	4 Dairy Farmers of America	Milk Processing	13.7
4/25/2024	4 Parker Han	Industrial/Rubber Manufacturing	0.9
8/20/2024	4 Grant Drive	Domestic Background	59.8
	4 Bashor Lift Station	Residental	8.6
8/20/2024	4 Middle School	School/Residential	13.4
8/20/2024	1 Dairy Farmers of America	Milk Processing	30.2
	4 Grant Drive	Domestic Background	11.5
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	1 Dairy Farmers of America	Milk Processing	59.8
12/17/2024	4 Grant Drive	Domestic Background	8.1
12/17/2024	4 Gleason Monroe	Metal/Cutting/Welding	0.7
12/17/2024	4 Gleason Reynolds	Metal/Cutting/Welding	1.2
4/23/2025	Grant Drive	Domestic Background	14.9
4/23/2025	5 Midway Lift Station	Dental/Restaurants/Retail	60.2
4/23/2025	Green & Lincoln	Dental/Residential	588.0
6/11/2025	Grant Drive	Domestic Background	18.0
6/11/2025	5 CR 38 Lift Station	Industrial/Manufacturing	12.8
6/11/2025	5 CR 27 & Karisa Drive	Industrial/Manufacturing/Medical	14.4
6/11/2025	5 Shasta Drive	Industrial/Manufacturing/Residential	126.0
6/11/2025	5 Mill Street	Residential	35.6
6/11/2025	Bashor Lift Station	Residental	8.5
8/21/2025	Grant Drive	Domestic Background	143.0
10/16/2025	Grant Drive	Domestic Background	8.3

DENTAL CLINICS		
Name	Service_Address	
ABG DENTAL OF GOSHEN	622 W LINCOLN AVE	
AEGIS DENTAL GROUP	3560 ELKHART RD	
ASPEN DENTAL	2909 COUNTY HOME ROAD STE 1	
GOSHEN SMILES	1213 W LINCOLN AVE	
STUTSMAN DENTISTRY DDS	1801 CHARLTON CT	
GOSHEN FAMILY DENTISTRY	1625 SUNNYFIELD DR	
SPRINGER DENTAL	1802 CHARLTON CT	
PAUL E KELLER	1934 W LINCOLN AVE	
ROBERT E BARKER DDS	2046 DORCHESTER CT	
ROBERT A BURDEN	1100 COLLEGE AVE	
THOMAS P JUDD DDS LLC	201 PRINGLE DR	
WHITNEY M RICHMOND DDS	1908 W CLINTON ST	
THE DENTAL CENTER OF GOSHEN	4024 ELKHART RD	

PUBLIC/PRIVATE LABORATORIES		
Name	Service_Address	
BASHOR HOME	62226 COUNTY RD 15	
BETHANY CHRISTIAN SCHOOLS	2904 S MAIN ST REAR	
FAIRFIELD COMMUNITY SCHOOLS	67530 US HIGHWAY 33	
GOSHEN COLLEGE-EAST CAMPUS	1700 S MAIN ST	
GOSHEN COMMUNITY SCHOOLS	902 E MADISON ST	
GOSHEN COMMUNITY SCHOOLS	1216 S INDIANA AVE	

SIUs/CIUs		
Name	Service_Address	
BEARCAT CORP	2431 E KERCHER RD	
BENTELER INDUSTRIES INC	811 EISENHOWER DR S	
GLEASON INDUSTRIAL PRODUCTS	612 E REYNOLDS ST	
GLEASON INDUSTRIAL PRODUCTS	517 E. Monroe St	
LIPPERT COMPONENTS INC - 45	2703 COLLEGE AVE	
LIPPERT COMPONENTS INC - 85	3325 HACKBERRY DR	
VIEWRAIL	1815 ARDMORE CT	

HVAC		
Name	Service_Address	
BILL'S HEATING INC	803 LINWAY DR A	
REX'S HEATING & COOLING	204 JOHNSTON ST	

NURSING FACILITIES		
Name	Service_Address	
GREENCROFT	1225 GREENCROFT DR 2STOR	_
LRC MGMT dba COURTYARD HEALTH	2400 COLLEGE AVE	
The Maples	1212 Waterford Crossing	

VETERINARY FACILITIES

1214 N MAIN ST

2806 S MAIN ST

Name Service Address

MAPLECREST ANIMAL HOSPITAL WELDY ASSOC INC

WHITE VETERINARY HOSPITAL 1014 LINCOLNWAY EAST

AUTOMOTIVE REPAIR

Name	Service	_Address
Hamo	JC1 V	100_

AG TRUCKING&KROPF FAMILY REAL 15952 COUNTY RD 38 EAST

BERKEY'S GARAGE 1715 E LINCOLN AVE **BMS AUTOMOTIVE** 708 LOGAN ST BYRON'S CAR CARE 1502 VIRGINIA ST

CONCORD CARS INC 2228 LINCOLNWAY EAST

DAVE'S AUTO REPAIR, LLC 2130 ELKHART RD DOUG'S ALIGNMENT SERVICES 2456 ELKHART RD **EBY FORD** 2714 ELKHART RD

GOSHEN COLLISION CENTER INC. 1303 E LINCOLN AVE GOSHEN HYUNDAI % DZUNG NGUYEN 3216 ELKHART RD **GOSHEN MOTORS INC** 3220 ELKHART RD

HERR CUSTOM PAINT 2927 LINDEN DR HOFFMAN BROTHERS INC 106 W JEFFERSON ST

INDIANA PAINT & COLLISION 416 N MAIN ST

JENKINS AUTOMOTIVE 1202 LINCOLNWAY EAST

KABARDIN AUTO RESTORATION & SA 1527 W WILDEN AVE 1515 W WILDEN AVE LG AUTOMOTIVE LLC

LUIS MOTORS 630 LINCOLNWAY EAST MARTY'S GARAGE, LLC 2112 W WILDEN AVE

MASTER CAR CARE 1008 N GREENE RD MC QUICK'S #9682 115 W PIKE ST

MINGUCHA SERVICE CENTER 402 E LINCOLN AVE MONTEITH TIRE 2390 ELKHART RD

MONTEITH TIRE 2613 CARAGANA CT **MULLET BATTERY** 1513 E LINCOLN AVE 1

O'REILY AUTOMOTIVE INC 1613 ELKHART RD PREMIER MOTORS 2507 ELKHART RD PRO MOTOR ENGINES

1814 LINCOLNWAY EAST SORG DODGE INC 1811 ELKHART RD STUTZMAN MOTORS 1304 ELKHART RD

TRANSMISSION CLINIC **1822 LINCOLNWAY EAST** WAL MART STORE INC #01-1378 2304 LINCOLNWAY EAST WALMART STORES EAST L.P. 4024 ELKHART RD 2

MEDICAL FACILITIES

Name	MEDICAL	FACILITIES
DR BRIAN KING 2014 S MAIN ST DR ELAINE BIGLER 210 W WASHINGTON ST DR KENT SIFFORD CLINIC 1720 W LINCOLN AVE DR MAX MERTZ 1814 CHARLTON CT DR MAXIM IVANOV 1609 ELKHART RD DR MICHELE SHELLY 400 W LINCOLN AVE ELKHART GENERAL HOSPITAL 2120 RIETH BLVD ELKHART GENERAL HOSPITAL 2222 RIETH BLVD FAIRHAVEN OB-GYN 1111 LIGHTHOUSE LN 1 FRESENIUS MEDICAL CARE NEPHROL 2257 KARISA DR GERIG SURGICAL ASSOCIATES 2008 S MAIN ST STE A GOSHEN BIRTH CENTER, INC 1155 LIGHTHOUSE LN 2 IU Health Family Med/Urgent Care 2824 ELKHART RD GOSHEN FAMILY PHYSICIANS 1811 CHARLTON CT GOSHEN HOSPITAL 200 HIGH PARK AVE GOSHEN HOSPITAL 200 HIGH PARK AVE GOSHEN HOSPITAL 1701 S MAIN ST A GOSHEN HOSPITAL 2006 S MAIN ST STE B GOSHEN HOSPITAL 2006 S MAIN ST A GOSHEN HOSPITAL 2006 S MAIN ST A GOSHEN HOSPITAL 2006 S MAIN ST A GOSHEN HOSPITAL 2016 S MAIN ST A GOSHEN HOSPITAL <t< td=""><td>Name</td><td>Service_Address</td></t<>	Name	Service_Address
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	PAUL H BULLER MD	1302 COLLEGE AVE 1
YATIN J PATEL MD 2417 S BERKSHIRE DR		1302 COLLEGE AVE 2
	YATIN J PATEL MD	2417 S BERKSHIRE DR

ATTACHMENT - D

LABORATORY DATA





January 02, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50361831

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: · Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125

Project Manager

Enclosures





Project:

LL Mercury

Pace Project No.: 50361831

Pace Project No.: 300	301001					
Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50361831002 EPA 1631E	Plant Effluent Mercury	0.790	ng/L	0.50	12/27/23 15:21	
50361831003 EPA 1631E	Plant Influent Mercury	21.1	ng/L	1.6	12/28/23 19:06	
50361831004 EPA 1631E	Grant Drive Mercury	10.9	ng/L	1.6	12/28/23 19:13	
50361831005 EPA 1631E	CR 21&119 Mercury	15.1	ng/L	2.0	12/28/23 00:11	
50361831006 EPA 1631E	DFA Mercury	32.2	ng/L	0.51	12/27/23 23:20	
50361831008 EPA 1631E	Gleason Reynolds Mercury	0.967	ng/L	0.52	12/28/23 19:21	
50361831009 EPA 1631E	Gleason Monroe Mercury	2.33	ng/L	0.51	12/27/23 23:27	
50361831010 EPA 1631E	Deirdorff Rd Mercury	3840	ng/L	510	12/28/23 00:32	
50361831011 EPA 1631E	CR 38 Lift Station Mercury	8.82	ng/L	0.51	12/27/23 23:35	

CHAIN-UI-CUSTODY Analytical kequest Document Pace Analytical Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields Attn: Tracie Hershberger Billing Information: Company: City Of Goshen 1000 West Wilden Ave. Address: 1000 West Wilden Ave. Goshen, IN 46528 Email To: tracieherschberger@goshencity.com Report To: jimkerezman@goshencity.com (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, Site Collection Info/Address: Various City sites (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other Copy To: mickreese@goshencity.com Analyses Time Zone Collected: Customer Project Name/Number: LL Mercury 9733/1 County/City: Elkhart / Goshen []PT []MT []CT IN Compliance Monitoring? Site/Facility ID #: Phone: 574-534-4102 [] No [X] Varies [X] Yes DW PWS ID #: Purchase Order #: Collected By (print):Micky Reese DW Location Code: Quote #: Jim Kerezman Immediately Packed on Ice: 9 Collected By (signature): Turnaround Date Required: Standard Glass ([X] No 1 Yes Michy & Field Filtered (if applicable): Rush: (Expedite Charges Apply) Sample Disposal: ŏ [] Yes [X] No [] Same Day [] Next Day X Dispose as appropriate 3 [] 2 Day [] 3 Day] Return Type: Plastic] Archive: Analysis: [] 4 Day [] 5 Day] Hold: Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Soild (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT) # of Res Container Collected (or Comp / Composite End Composite Start) Ctns Matrix * Grab Customer Sample ID Date Time Time Date X G 12/14/23 9.55 1 G Effl. Blank ww G X 9:55 1 G 12/14/23 ww Plant Effluent G X 1 G 12/14/23 10:03 ww Plant Influent 1 G X 10:15 G 12/14/23 **Grant Drive** ww X G 12/14/23 10:25 1 G CR 21&119 ww G X 10:40 1 G 12/14/23 ww DFA

G

G

G

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WW

ww

ww

Customer Remarks / Special Conditions / Possible Hazards:

DFA Blank

Gleason Revnolds

Gleason Monroe

CR 38 Lift Station

Relinquished by/Company: (Signature)

Deirdorff Rd

12/14/23

12/14/23

12/14/23

12/14/23

12/14/23

Type of Ice Used:

12/14/2023 12:06PM

12-15-23 1000

Date/Time:

Date/Time:

acking Material Used:

10:40

11:00

11:15

11:30

11:40

Wet

adchem sample(s) screened (<500 cpm): Y N NA

Blue

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

X

X

X

SHORT HOLDS PRESENT (<72 hours):

Client Courier Pace Courier

able#:

relogin: M:

MTJL LAB USE ONL

Lab Tracking #:

FEDEX

amples received via:

Date/Time:

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Date/Time:

UPS

12-15-23 10W

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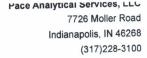
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Date/Time and Initials of person examining conten	ts: 12-14	5-23	1509 CARC		
1. Courier: □FED EX □ÚPS □CLIENT □PAC	E NOW	JETT [OTHER	5. Packing Material:	_☐ Bubble Wrap
2. Custody Seal on Cooler/Box Present: Yes	□ No				☐ None
(If yes)Seals intact: Yes I No (leave blan		s were pre	sent)		
3. Thermometer: 12345678 ABCD	EFG	*		6. Ice Type:	☐ Blue ☐ No
4. Cooler Temperature(s): 16.9/14.9				7. If temp. is over 6°C or i	under 0°C, was the i
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS REC	and the same of th		the same of the sa	Cooler tem	p should be above f
All	discrepan	cles will b	written out in the c	omments section below.	
《自己》的《古代教学》,《古代教学》,《古代教学》	Yes	No			
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	CHECKED?: Exception any container with a	ing acid/base preservation f itions: VOA, coliform, LLHg, septum cap or preserved with	O&G, RAD CHEM, an
Short Hold Time Analysis (48 hours or less)? Analysis:		/		(<2) NaOH (>10) NaOH/Zn to pH recommendations will be	
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		1		
			Residual Chlorine C	heck (SVOC 625 Pest/PCB	608)
Rush TAT Requested (4 days or less):		/		heck (Total/Amenable/Free	
Custody Signatures Present?		À	Headspace Wisconsi	n Sulfide?	
			Headspace in VOA V		6
Containers Intact?:			See Containter Coun	t form for details	
Sample Label (IDs/Dates/Tirnes) Match COC?: Except TCs, which only require sample ID			Trip Blank Present?		
Extra labels on Terracore Vials? (soils only)		-	Trip Blank Custody S	eals?:	
comments: CG34 for IDS Plant & FF	lucat (Canal P			al \ - la.ba
is different from Container Great SE				TANFIT VIOLE COTOV	TE I ON ICHIE
TO CANTON OF THE PARTY OF THE P		0,0			





March 11, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50366879

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125

Project Manager

Enclosures







Project:

LL Mercury

Pace Project No.:

50366879

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50366879001 EPA 1631E	Plant Effluent Mercury	55.2	ng/L	5.0	03/08/24 09:50	
50366879002 EPA 1631E	Plant Influent Mercury	13.4	ng/L	5.2	03/08/24 11:12	
50366879004 EPA 1631E	Grant Dr. Mercury	6.86	ng/L	1.6	03/08/24 12:01	
50366879005 EPA 1631E	DFA Mercury	23.3	ng/L	5.2	03/08/24 11:29	
50366879006 EPA 1631E	12TH Street LS Mercury	18.4	ng/L	5.2	03/08/24 12:10	
50366879007 EPA 1631E	Millers Poultry Mercury	34.4	ng/L	5.2	03/08/24 11:41	
50366879008 EPA 1631E	Millers/SR 15 Mercury	16.1	ng/L	5.2	03/08/24 12:17	
50366879010 EPA 1631E	Johnston St. Mercury	23.8	ng/L	5.2	03/08/24 11:51	

REPORT OF LABORATORY ANALYSIS

Pace Analytical*

CHAIN-OF-CUSTODY Analytical Request Document

Imple via this chain of custody constitutes acknowledgment and acceptance of the Pace To Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields	erns an
Chain-of-Custody is a LEGAL DOCOMENT Complete an Interest	-

			Rilling	Informatio	on: Attn:	Tracie Hers	hberger				Δ	T BOTD			
mpany: City Of Goshen			Биинь		0 West Wild							118	1 1 1 1		
dress: 1000 West Wilden Ave.				G	Soshen, IN 46	6528					Conta	iner Preserva	50.	1999019	
port To: jimkerezman@goshencit	v.com		Email To: tra	aciehersc	hberger@g	oshencity	.com			** Pross	ryative Types: (1) nitric acid. (2) sulfuric acid,	(3) hydrochloria	
port 10. junkerezmane gosneros										(6) meth	anol, (7) sodium	bisulfate, (8)	odium thiosul	fate, (9) hexane	
py To: mickreese@goshencity.cor	n		Site Collection	on Info/Ad	idress: Vari	ous City s	ites			(C) amm	onium hydroxic		- 3 (3)	(0) Other	
			C1-1 C	ounty/City	Time	Zone Collec	ted:				A A A A A A A A A A A A A A A A A A A	Analyse	S		
stomer Project Name/Number: LL	Mercury 9733	/1	100	hart / Gosl			[]MT	[]CT							
	Site/Facility ID #	<u> </u>	HV CIN	narcy cost	Compliance	Monitorin	g?								
none: 574-534-4102	Site, racincy is				[X] Yes	[] No [)	()Varies							3.00	
ail:goshenwastewater@goshencity.com bliected By (print):Mick Reese	Purchase Order	#:			DW PWS ID										
m Kerezman	Quote #:				DW Location	-	_ !		_						
locted By (signature):	Turnaround Da	te Require	ed: Standard		Immediate		n ice:		s (G)						
Miky /ww		<u> </u>	Annly		[] Yes	[X] No ed (if applic	able):		Glass						
ample Disposal:	Rush: (Expedit	e Charges	Apply)		[] Yes	[X] No			0						
X) Dispose as appropriate	[] 2 Day [cat out						(P)						
] Return] Archive:	[] 4 Day [] 5 Day			Analysis: _				stic						
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Matrix Codes (Insert in Matrix bo Product (P), Soil/Solid (SL), Oil (Ol	x below): Drinkin	g water (sue (TS). Bio:	assav (B). \	vapor (V), Ot	ther (OT)			ype	3					
Product (P), Soil/Solid (SL), Oil (Ol	L), Wipe (WP), Ai	Comp /		ted (or	1		Res	# of	tainer Type: Plastic (P)	Mercury					
s and a ID	Matrix *	Grab	1	ite Start)	Compo	site End	CI	Ctns	tain				17.3	100	
ustomer Sample ID	1000000		Date	Time	Date	Time			Š	3		6/4/2		100	
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Plant Blank	WW		2/26/24	Name and Address of the Owner, where the Owner, which is the Owner, which	-			1	G	X	100			100	
Grant Dr.	WW	G	_	-	+	+	+-	1	G	X		2.4			
)FA	WW	G	2/26/24	-	+	-	+-	1	G	X			929	15.55	
L2TH Street LS	ww	G	2/26/24	-	-	-	+	+	+-	-	200		120		
Villers Poultry	ww	G	2/26/24			-	+	1	G	X		588	2000		
Willers/SR 15	ww	G	2/26/24	-		-	-	1	G	X		200	1000		
Villers/SR15 Blank	ww	G		1230				1	G	X			\$100 M		
ohnston St.	ww	G	2/26/24	1250				1	G	X					
Customer Remarks / Special Cond	ditions / Possible	Hazards:	Type of lo	e Used:	Wet	Blue (Dry (None					<72 hours) :	Y (N) N/A	
,			Packing M	laterial Us	ed: bubb	e bags					Lab Tracking	(# ;	4		
10 Sample	es Hg									1	Samples rec				
,	U		Radchem	sample(s)	screened (<	500 cpm):	Y 1	NA NA			FEDEX	UPS Clie	nt Courier	Pace Courier	
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											1		EPD.		

Pace.

ate/Time and Initials of person examining contents:			TW.	T	-
Courier: FED EX DUPS CLIENT PACE		ETT □O	THER	5. Packing Material:	☐ Bubble Wra _l
Custody Seal on Cooler/Box Present:	₩ No				☐ None
∜ yes)Seals Intact: ☐ Yes ☐ No (leave blank	if no seals v	vere preser	nt)		
Thermometer: 12345678 ABCD	EFGH			6. Ice Type:	☐ Blue ☑ I
20.4.(2)				7. If temp. is over 6°C or t	
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEI	VED (use Com	ments below	to add more)		p should be above
All	liscrepanci	es will be	written out in the c	omments section below.	
	Yes	No			
SDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	CHECKED?: Excer	ling acid/base preservation in tions: VOA, coliform, LLHg, a septum cap or preserved with	O&G, RAD CHEM,
hort Hold Time Analysis (48 hours or less)? \malysis:		✓	HNO3 (<2) H2SO4	(<2) NaOH (>10) NaOH/Z e to pH recommendations will be	nAc (>9) e noted on the contai
ime 5035A TC placed in Freezer or Short Holds To Lab	Time:				
5110			Residual Chlorine	Check (SVOC 625 Pest/PCE	3 608)
Bush TAT Requested (4 days or less):		✓	Residual Chlorine	Check (Total/Amenable/Free	Cyanide)
Sustody Signatures Present?	/		Headspace Wiscon	sin Sulfide?	
	1		Headspace in VOA See Containter Cou		
Containers Intact?: Cample Label (IDs/Dates/Times) Match COC?:	√ 2437124	/			
except TCs, which only require sample ID	A 711.		Trip Blank Present?)	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody	Seals?:	
COMMENTS: COC lists 2 containers for Sar	hple 1D:	Plant	olank. Receive	11. MW 212712	4

Pace Analytical Services, LLC 7726 Moller Road Indianapolis, IN 46268 (317)228-3100



March 27, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50368326

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125 Project Manager

Enclosures







ANALYTICAL RESULTS

Project:

LL Mercury

Pace Project No.: 50368326

Lab ID: 50368326001 Sample: Plant Effluent

Units

Collected: 03/12/24 09:25

0.50

DF

Prepared

Received: 03/14/24 09:55 Matrix: Water Analyzed

CAS No.

Qual

Parameters 1631E Mercury, Low Level

Analytical Method: EPA 1631E Preparation Method: EPA 1631E

Pace Analytical Services - Indianapolis

ng/L

Mercury

1.00

Results

Report Limit

03/25/24 17:47 03/26/24 10:46 7439-97-6

REPORT OF LABORATORY ANALYSIS

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	c	hain-of-Cus	Billing I	nformatio	n: Attn: T	racie Hersi	hberger				1				Н		196			USE ONLY	
Company: City Of Goshen				1000	West Wilde	n Ave.			- 1		- 1	Ш.		1215	HI					nager:	
Address: 1000 West Wilden Ave.					oshen, IN 46				-	\neg		. BU	320			Tr.					
Report To: jimkerezman@goshencit	.com				berger@g			-		(6) meth	anol (7	ri sodium	s bisulfati	e, (8) sodi	um thic	sulfate,	(9) her	aloric aci	id, (4) s) ascort	odium hydroxide, (5) zinc acetate, pic acid, (8) ammonium sulfate,	
Copy To: mickreese@goshencity.com	n		ite Collectio	n info/Ad	Plant	μ				(C) amm	muino	hydroxid		alyses	reserve	d, (O) O	tner_	E	ab Pro	file/Line:	
Customer Project Name/Number: U	Mercury 9733/	1		unty/City: art / Gosh	Time Z en	one Collect	TM[]	[]CT			T		T	T					usto	ample Receipt Checklist: dy Seals Present/Intact dy Signatures Present	YNNA
Prione: 574-334-4102	Site/Facility ID #	l:			Compliance [X] Yes														Colle	ctor Signature Present es Intact ct Bottles	Y N NA Y N NA Y N NA
Email:gosheravastewater@goshericity.com Collected By (print):Mick Reese	Purchase Order	#:			DW PWS ID														Swffi	cient Volume es Received on Los	Y N NA Y N NA
Jim Kerezman Collected By (signature):	Quote #: Turnaround Dat	te Require	d: Standard		Immediate	y Packed or [X] No	n ice:		ss (G)										ACE	Regulated Soils	Y N NA Y N NA Y N NA
Sample Disposal:	Rush: (Expedit	e Charges	Apply)		Field Filtere	d (if application	able):	1	or Glass										Sampl Resid	es in Holding Time	Y N NA
[X] Dispose as appropriate [] Return	[] Same Da [] 2 Day [xt Day		[] Yes	[X] No													Sampl pff St	rips: e pH Acceptable rips: de Present	Y N NA
[] Archive:	[] 4 Day [Analysis: _	· nana		_	Plastic (P)										Sulfi Lead	de Present Acetate Strips:	Y N NA
Matrix Codes (Insert in Matrix bo Product (P), Soil/Solid (SL), Oil (Ol)	x below): Drinkin L), Wipe (WP), Ai	ng Water (i r (AR), Tiss	ue (13), bloc	saul loli	apor (V), Ot	her (OT)	-	1	Type	Mercury									LAB U	JSE ONLY: Sample # / Comments:	
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Customer Remarks / Special Con	ditions / Possible	Hazards:	Type of io	e Used: laterial Us	Wet ed:	Blue	DIA &	No.			_	Trackin	-							Therm 1D#:	ipt:70CoC
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ate/Time and initials of person examining contents:	3/19	10	11.5) IT				
Courier: FED EX DOPS CLIENT PACE	□NOW/JE	ETT □0	THER	5. Packing Material:	Bubble Wrap	Bubble	Bags	
	T 110				□ None	☐ Other		
Custody Seal on Cooler/Box Present: Yes	□ No		- 61					
yes)Seals Intact:		vere preser	11)	6. Ice Type:	D Blue M None			
Thermometer: 1 2 3 4 5 6 7 8 A BCD I	FGH						П у	Пы
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All Control of the Co	Yes	No /				Yes	No	N/A
ISDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	CHECKED?: Exce	ding acid/base preservation h ptions: VOA, coliform, LLHg, a septum cap or preserved wit	O&G, RAD CHEM, and			
hort Hold Time Analysis (48 hours or less)? malysis:		\checkmark	HNO3 (-2) H280	4 (<2) NaOH (>10) NaOH/Zi e to pH recommendations will be	nAc (>9) e noted on the container		Alterna	NVA
me 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine	Check (SVOC 625 Pest/PCE	3 608)	Present	Absent	N/A/
tush TAT Requested (4 days or less):			Residual Chlorine	Check (Total/Amenable/Free	Cyanide)			-
ustody Signatures Present?	5		Headspace Wiscon	nsin Sulfide?		Present	Absent	No VOA Vials/Ser
	1		Headspace in VOA See Containter Co	Vials (>6mm): unt form for details		Picara		7
Containers Intact?: Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			Trip Blank Present	?)	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custod	y Seals?:				
COMMENTS:								
								Page 12 0

F-IN-Q-290-rev.23, 26Jun2023

Pace Analytical Services, LLC 7726 Moller Road Indianapolis, IN 46268 (317)228-3100



May 10, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50371714

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125 Project Manager

Enclosures





Project:

LL Mercury

Pace Project No.:	50371714		,					
Lab Sample ID Method		Client Sample ID Parameters		Result	Units	Report Limit	Analyzed	Qualifiers
50371714001 EPA 1631E		Effluent Mercury		0.660	ng/L	0.50	05/09/24 18:14	
50371714003 EPA 1631E		Influent Mercury		8.30	ng/L	0.51	05/09/24 18:58	
50371714004 EPA 1631E		Grant Dr. Mercury		10.2	ng/L	0.51	05/09/24 19:05	
50371714005 EPA 1631E		Ashton Pines Mercury		10.6	ng/L	0.51	05/09/24 18:50	
50371714006 EPA 1631E		DFA Mercury		13.7	ng/L	0.51	05/09/24 18:42	
50371714008 EPA 1631E		Parker Han Mercury		0.930	ng/L	0.50	05/09/24 18:22	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

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<i>5</i> 7			CUSTODY		Assembadament a	end acceptance	of the race	st. e Terms a	nd		71	MC)推:	50	371	71	A			
Pace Analytical*			chain of custody co found at: https://i ustody is a LEGA											20	217	· T				
1		hain-of-C	estody is a LEGA	mation:	Attn: Trac	ie Hershbe	rger					HI						DA	TA.	
Company: City Of Goshen			1000 West						ŧ	94		HO27		121116						
Address: 1000 West Wilden Ave.					Soshen, IN 46				\rightarrow	×2.6	100	Caracter (and the	100	144			12-13			
Report To: jimkerezman@goshenc	ity.com		Email To: tra	cieherso	hberger@g	oshencity	.com			** Prese	rvative Type	es: (1) nitri	ic acid, (2) sulfuric ac	id, (3) hydrock sulfate, (9) hex	loric acid,	(4) Soower wy scorbic acid, (8	orowed, (5) 2 I) ammoniun	nec acecuse, n sulfate,	- 1
			Site Collection	n Info/A	dress Vari	ous City s	ites	1		(6) meti (C) amm	anol, (7) so: onium hydr	mide, (D)	TSP, (U)	Unpreserve	1, (O) Other					
Copy To: mickreese@goshencity.co	om		Site Collection	II IIIIO/V					_				Analyse			T	profile/Line	COMPANIES CONTRACTOR	Nest I tol	
Customer Project Name/Number:	LL Mercury 9733	/1		unty/City		Zone Colle	ted:	ı			200				1					
Customer Frejes			IN Elkh	art / Gos	Compliance			•						10.20			stody Sign	a Presen Gluses P Gnatoro	Present	Y N NA
Phone: 574-534-4102	Site/Facility ID	B:			[X] Yes	[] No [()Varies									150	ethes Inte			Y N NA
Email:goshenwastawater@goshencity.com	Purchase Order	#:			DW PWS ID												etacient \	foluse		Y N NA
Collected By (print):	Quote #:				DW Locatio		n Ice							54			mples Rece	lived on	ptable	YNNA
Collected By (signature):	Turnaround Da	te Requi	red: Standard		Immediate	[X] No	ii ice.	- 4	Ss (G)		25			N. Section	3.375		DA Regulat	ed Soils		Y N NA Y N NA
miss fre	Rush: (Expedit	e Charge	s Apply)		Field Filten	ed (if applic	able):		Glass		7						midual Ch	lorine Pr	esent	Y N NA
Sample Disposal: [X] Dispose as appropriate	[] Same D				[] Yes	[X] No			0					4		9	Strips: ample pH A	cceptable		Y N NA
[] Return	[] 2 Day [Analysis:			3	D S					150		1	Stripe: ulfide Pres	2.5 20 BR 88 25 25 2		Y N NA
[] Archive:	[] 4 Day [Plastic (P)							4	elfide Pres	e Strips:	, 17	
	ox below): Drinkin	ng Water	(DW), Ground	Water (GW), Wastew	rater (WW)	•			3						8	AB USE ONL		400	
 Matrix Codes (Insert in Matrix E Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), A	I (MK), II	2206 (1.2), page	3307 (-),	1		Res	# of	1 €	夏						1	ah Sample	7 Conse	ents:	
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Customer Sample ID	Matrix	"	Date	Time	Date	Time			8	E										
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Effluent Plant Effluent Blank	w	G	4/25/2024	0800				1	G	X				63		-				
Influent	w	G	4/25/2024	0806				1	G	X			1650	Red et	(ME) (S	\vdash				
Grant Dr.	w	G	4/25/2024	0823			_	1	G	X				100 E	195.200 195.200	-				
Ashton Pines	w	G	4/25/2024	0826			_	1	G	X				36000 160000	200 Miles					. 4
DFA	w	G	4/25/2024	0900			_	1	G	X				2500						(2 a)
Field Blank	w	G	4/25/2024	0904			_	1	G	X			200		200 Miles	Н				
Parker Han	W	G	4/25/2024	0910			_	1	G	X			500000 5000000	955	100	Н				
Parkerrian							+-	4	+-	353			9506 6006			\vdash		0.000		STATE
										2000				(22) house	E Y N	NIA	LAB Sam	ple Tempe	rature info	
Customer Remarks / Special Co	nditions / Possible	Hazards	Type of lo	e Used:	CONTRACTOR OF THE PARTY OF THE	Blue	Dry 6	(flone)			Lab Tra	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN					Tomp &	ank Rece	## T	B KA
			Packing N	aterial U	sed:						100						Cooler	1 18mp	Ipon Rece	ipt: #50C
						(5.3)	10.40			(40)	Sample	s receive	d vis:				Cooler	1 COLING	ted Temp	: 18.5 oc
			Radchem	sample(s) screened (500 cpm):		N	1		NA TRANSPORTE	SECONDER MANUA			ier Pace Co		- CONTROL OF THE PARTY OF THE P	to:		
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Relindrigued parcombana.														2						
1		'			•															

F-IN-Q-290-rev.25, 25Apr2024



Courier: FED EX TUPS CLIENT PACE Custody Seal on Cooler/Box Present: Yes f yes) Seals Intact: Yes No (leave blank in the	F G H	nments below	7. Was the PM notified of out of temp cooler?: Cooler temp should be above freezing to 6°C	OtherYes	_ No	
~**	Yes	No		Yes	No	N/A
ISDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, DK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico) Short Hold Time Analysis (48 hours or less)?	105	/	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCI. Circle: HN03 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			/
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less):			Residual Chlorine Check (SVCC 0237 ess/ CS 000) Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?			Headspace Wisconsin Sulfide?	Present	Absent	No VOA Vials Sen
			Headspace in VOA Vials (>6mm): See Containter Count form for details			//
Containers Intact?: Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			Trip Blank Present?		V	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			
COMMENTS:						
						Pac





July 01, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50376569

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125

Project Manager

Enclosures





Project:

LL Mercury

Pace Project No.: 50376569

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50376569002 EPA 1631E	Plant Influent Mercury	25.7	ng/L	1.6	06/28/24 13:39	
50376569003 EPA 1631E	Plant Effluent Mercury	1.01	ng/L	0.50	06/28/24 12:58	

Report To: jimkerezman@goshencity.com Email To: tracieherschberger@goshencity.com Email To: tracieherschberger@goshencity.com Site Collection Info/Address: Various City sites Copy To: mickreese@goshencity.com Site Collection Info/Address: Various City sites Customer Project Name/Number: LL Mercury 9733/1 State: County/City: Time Zone Collected: IN Elikhart / Goshen [] PT [] MT [] CT Phone: 574-534-4102 Email:goshenwastewster@goshencity.com Site/Facility ID #: Compliance Monitoring? [X] Yes [] No [X]Varies DAM/MRX [D] #: Correct: Bottlies I state: Correct: Bottlies I sta													1000						
Container Preservative Ty Gother, IN 46238 Report To, Jimkersaman@pothencity.com Snell To: traceleterarchiberger@gothencity.com Snell	Pace Analytical*	Submitting a sar	mple via this	chain of custody found at: https:/ ustody is a LEG	constitutes ac /info.pacelabr GAL DOCUM	knowledgment i.com/hubfs/pa ENT - Comple	and acceptance s-standard-terr te all relevan	e of the Pa ns.pdf it fields	ce Terens a	and						AND DESCRIPTION OF THE PERSON NAMED IN	Bearral Blackers		
Continue	Company: City Of Goshen			Billing				shberge	r				AL	T BOID C	שוני				
Email To: Irracleherschberger@goshenctly.com Email To: tracleherschberger@goshenctly.com Street County	Address: 1000 West Wilden Ave.											-	Contai	ner Preservat	ive Typ	50376	1 11 118 1 560	at these are	
Stet Coffection Info/Address: Various City sites Stet Coffeeting Info/Address: Various City sites Stet	a t Za lierkererman flanshenrit	v.com		Email To: tr			_	y.com			ober .		7/1	Valenta sold (2)	culfuric acid	(3) hwiroc	bloric arid. (4	A) sodium hydroxide. (5) zinc acetate.	
Customer Project Name/Number: LL Mercury 9733/1 State: County/City: 17me Zone Collected: [PT MT Elbary / Counter Project Name/Number: LL Mercury 9733/1 State: County/City: 17me Zone Collected: [PT MT Elbary / Counter State Sta	Report 10: Jimkerezmane gosnerou	,,								_	(6) meti	hanol, (7	7) sodium	bisulfate, (8) se	odium thiosu	lfate, (9) he	xane, (A) asc	orbic acid, (B) ammonium sulfate,	
Customer Project Naming numeric in. Memory 9 - 50-50 IN Elihan / Goolee IPT INT IGT IG	Copy To: mickreese@goshencity.com	m		Site Collecti	on Info/Ad	Victoria de la Companya de la Compan					(C) amn	nonium	hydroxide			(O) Other _	Lab	Profile/Line:	
Steffschiller (D. 8). Comparison content of the	Customer Project Name/Number: L	Mercury 9733	/1						[]ÇT		200			20.		100	Cust	ody Seals Present/Intact Y	
Customer Remarks / Special Conditions / Possible Hazards: Type of Inc Quarter Quote #1 Quot	Phone: 574-534-4102	Site/Facility ID	#:						- 1			9				2.3	Coll	lector Signature Present Y	N NA
Collected By. Mick Reses Am Collected By. Mick Reses Am Collected By. Glysturus): Turnaround Date Required: Standard Immediately Rocked on fice: 1/10 1	Email:goshenwastewater@goshencity.com						-	X]Varies	- 1	1		8							N NA
Construction of the Required: Standard Immediately Packed on loss: 1 yes 0 No. Interdeparts Accordance 1 yes 0 No. 1 No.	Collected By: Mick Reese Jim		r#:						1		-	6.12					Suff	ficient Volume Y	N NA
Sample Disposal: Sample Disposal:			te Requir	ed: Standard	1			n Ice:	_	ত				100			VOA	- Headspace Acceptable	N NA
Sample Day 1 Near Day 1 N	Collected By (Signature):	Turneround be	ice incide											1	100		USD	A Regulated Soils	Control of the Contro
Return 1 2 cby 3 cby 3 cby 1 d by 1 S cby 1 d cby 1 S cby 1 d cby 1 d cby 1	Sample Disposal:							cable):							1		Res	idual Chlorine Present	
I wither:				ext Day		[] Yes	[X] No				326						21	Strips:	N NA
* Matrix Codes (Insert in Matrix box below): Drinking Water (IVW), Ground very (IVW), Forum very (IVW), Provided (IVV), Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bloassay (B), Vapor (V), Other (OT) Customer Sample ID Matrix * Grab Oracle Time Date Time: 6/20/204 Accusant Table 8. Accusant Tipe Blank Received: Y N NA Received by/Company; (Signature) Date/Time: Accusant Tipe Blank Received: Y N NA Received by/Company; (Signature) Date/Time: Received by/Company; (Signature) Date/Time: Date/Time: Date/Time: Non Conformabre(s): PResp. 1.2 of 14 Non Conf						Analysis:			S. Carlotte	ic (F	45			L. E.	47			Strips:	100
* Matrix Codes (Insert in Matrix box below): Drinking Water (IVW), Ground very (IVW), Forum very (IVW), Provided (IVV), Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bloassay (B), Vapor (V), Other (OT) Customer Sample ID Matrix * Grab Oracle Time Date Time: 6/20/204 Accusant Table 8. Accusant Tipe Blank Received: Y N NA Received by/Company; (Signature) Date/Time: Accusant Tipe Blank Received: Y N NA Received by/Company; (Signature) Date/Time: Received by/Company; (Signature) Date/Time: Date/Time: Date/Time: Non Conformabre(s): PResp. 1.2 of 14 Non Conf	I 1 Hold-								_	last									N NA
Blank WW G 6/20/2024 Plant influent WW G 6/20/2024 Plant Effluent WW G 6/20/2024 Plant E	Matrix Codes (Insert in Matrix box Product (P), Soil/Solid (SL), Oil (Ol	x below): Drinkir L), Wipe (WP), Ai	ng Water ir (AR), Tis	sue (TS), Bio	assay (B), V	W), Wastev apor (V), O	vater (WW) ther (OT)		,	Type:	ouny						LAB	USE ONLY:	
Blank WW G 6/20/2024 Plant influent WW G 6/20/2024 Plant Effluent WW G 6/20/2024 Plant E	Customer Sample ID	Matrix *		Compos	ite Start)					ontainer	울								
Plant Effluent WW G 6/20/2024 11:15f mt 1 G X 1 G X Plant Effluent WW G 6/20/2024 11:15f mt 1 G X 1		1404/	6	6/20/2024	11:126	1		+	1	_	27,700,000		14	198	100	10.00	(100
Plant Effluent WW G 6/20/2024			_				_	+	-	-	-	П	400			L.	0	N2	5.7
Customer Remarks / Special Conditions / Possible Hazards: Type of loc Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: Customer Remarks / Special Conditions / Possible Hazards: Packing Material Used: Reliancylahed by/Corpolany: (Signature) Lab Tracking #: Samples received via: FEDEX UPS Client Courier Pace Courier Samples received via: FEDEX UPS Client Courier Pace Courier Acctinum: Table #: Top Blank Received: Y N NA Received by/Company: (Signature) Lab Tracking #: Date/Time: Acctinum: Trap Blank Received: Y N NA HGL MeOH TSP Other Non Conformance(s): PResge. 12 of 14			_		_	-	_	_	1	-	X	П			12/840	1%	6	103	Service .
Customer Remarks / Special Conditions / Possible Hazards: Type of ice Used: Wet Blue Dry None Packing Material Used: Received: Yether Dry None Received:	Plant Effluent	4444	-	10,20,202	11.131		+	+		+	200	П		200		1			31.75
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Packing Material Used: Religious shed by/Corpogny: (Signature) Relinquished by/Corpogny: (Signature) Relinquished by/Company: (Signature) Relinquished by/Company: (Signature) Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Page by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Page by/Comp	Customer Remarks / Special Cond	litions / Possible	Hazards:	Type of lo	Used:	Wet	Blue	Dry	None	4	100	SHO	RT HOLD	S PRESENT (72 hours) :	YN	N/A		A NA
Reliaguished by/Corpginy: (Signature) Relinquished by/Corpginy: (Signature) Relinquished by/Corpginy: (Signature) Date/Time: Received by/Corpginy: (Signature) Date/Time: Page (Signature) Date/Time: Page (Signature)				District Co. of the co.	AND DESCRIPTION OF THE PERSON NAMED IN					*		Lab	Fracking	**				Therm ID#: 6	tr aco c
Religioushed by/Corpgany: (Signature) Add/Time: 6/20/24 Received by/Company: (Signature) Date/Time: MTJL LAB USE ONLY Table 8: Trip Blank Received: Y N NA Relinquished by/Company: (Signature) Date/Time: Co-24-24 1:20 Company: (Signature) Date/Time: Co-24-24 1:20 Company: (Signature) Company: (Signature) Co-24-24 Co-24-24 Company: (Signature) Co-24-24 Co-				Radchem	sample(s)	screened (<	500 cpm):	Y 1	NA NA			90 007170	1007 1007 770		t Counier	Pace Co	urier	Cooler 1 Corrected Temp:	
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: C-24-24 11:20 Date/Time: C-24-24 11:20 Date/Time: Date/Time: Page Page 12 of 14	Religguished by/Corpus ny: (Signa	sture)	(a)	te/Time: 6/2	0/24	Received	APPENDING THE RES	CHARLES OF	Mary Comment	5.0.00E		SHE TOUGH	Date/Tir	ne:		-	E ONLY		
Co-24-24 11:20 Received by/Company: (Signature)	Mushy Kerse		100		OHI	Received	by/Compan	v: (Sign:	ature)			-	Date/Tir	me:	AMERICAN IN	Chicago Charles			
Date/Time: Received by/Company; (Signature) Date/Time: PM: Mon Conformance(s): PResqu 12 of 14	Relinquished by/Company: (Signa	iture)			1110	N	11.						1-24	44 11:2	Temp			HOL MEOH TSP OU	ier /
			11:20									PM: Non Conformance(s): PResge 12 of 14							

F-IN-Q-290-rev.27, 13Jun2024

Pace

1. Courier: FED EX VUPS CLIENT PACE CAN DESCRIPTION OF ALL COOLERS RECEIVED CALL CAN DESCRIPTION OF ALL COOLERS RECEIVED CALL COOLERS RECEIVED CALL CAN DESCRIPTION OF ALL COOLERS RECEIVED All disc	No seals w	vere prese	6. Ice Type: Wet Blue None 7. Was the PM notified of out of temp cooler?: Cooler temp should be above freezing to 6°C	Other_		
(If yes)Seals Intact:	F G I	41	7. Was the PM notified of out of temp cooler?: Cooler temp should be above freezing to 6°C	□Yes	□No	
3. Thermometer: 123 \$ 56789 ABCDE 4. Cooler Temperature(s): 14.0/26.0 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED	FGI	41	7. Was the PM notified of out of temp cooler?: Cooler temp should be above freezing to 6°C	Yes	□No	
4. Cooler Temperature(s): 24.0/24.0 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED			Cooler temp should be above freezing to 6°C			
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED	(use Com	ments below				
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED	(use Com	ments below	e 57 Bestle Order? Tyes MNO			
All disc		ARREST STATE OF THE PARTY NAMED IN	to add more) 8. EZ BOTTIE OTDET:			
All disc			If yes but not on COC what is the EZ Bottle Order Number?:			
7.11 2.10	repanci	es will be	written out in the comments section below.			N//A
。 第一章	Yes	No	THE REPORT OF THE PARTY OF THE	Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		~	All containers needing acid/base preservation have been pH <u>CHECKED</u> ?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle:			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			1
Time 5035A TC placed in Freezer or Short Holds To Lab Tim	ne:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
Rush TAT Requested (4 days or less):		1	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
	1					/
Custody Signatures Present?			Headspace Wisconsin Sulfide?	Present	Absent	No VOA Vials Se
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details			
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	\		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/
COMMENTS:						





September 05, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50380792

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmis

(317)228-3125

Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen



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Project:

LL Mercury

Pace Project No.: 50380792

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50380792002	Plant Influent					
EPA 1631E	Mercury	25.5	ng/L	0.52	09/04/24 12:41	
50380792003 EPA 1631E	Plant Effluent Mercury	0.730	ng/L	0.50	09/04/24 11:53	
50380792004 EPA 1631E	Grant Drive Mercury	49.8	ng/L	0.52	09/04/24 12:49	
50380792005 EPA 1631E	Bashor Road Mercury	8.61	ng/L	0.52	09/04/24 12:57	
50380792006 EPA 1631E	Middle School Mercury	13.4	ng/L	0.52	09/04/24 13:05	
50380792007 EPA 1631E	DFA Mercury	30.2	ng/L	0.52	09/04/24 13:12	

Cash-orf-Custody is a LURAL DOCUMENT - Comparis and indicent fields Campany, City Of Gashen Billing information. After Trace Herothereges 1,000 West Wilden Ave. Gooben, IN 45528 Report 7:0. Inherenzmandigepotemocity.com Size Callection Info/Address: Various City sites Cash Service Segophemocity.com Size Callection Info/Address: Various City sites Customer Project Name/Number: LL Mercury 9733/1. Sate: County/City: Time Zone Collected: Info Billing information info Microse Various City sites Customer Project Name/Number: LL Mercury 9733/1. Sate: County/City: Time Zone Collected: Info Billing information info Microse Various City sites Customer Project Name/Number: LL Mercury 9733/1. Sate: County/City: Time Zone Collected: Info Billing information info Microse Various City sites Customer Project Name/Number: LL Mercury 9733/1. Sate: County/City: Time Zone Collected: Info Billing information info Microse Various City sites Customer Season City Se	Pace Analytical*	CH Submitting a s	Condition	-CUSTOE chain of custods s found at: https: custody is a LE	//info.pacelab	cknowledgment s.com/hubfs/pi	t and acceptant ss-standard-ter	ce of the Pac rms.pdf	nt co Terres	and		10#)38		92		Pace Wo	rkorder Nur	nber or	
Address: 1000 West Wilderh Ave. Goshen, N 46528 Import 7c: [Import 7c: Import 7c: [Import 7c: [Import 7c: Import 7c: [Import 7c: Import 7c: Impor	Company: City Of Goshen			Billin	-			rshberger										LAB	JSE ONL	Y	
Report To: Jimiterezman@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Site Collection Info/Address: Various City sites Gopy To: mickresse@gothencity.com Info Info Info Info Info Info Info Info	Address: 1000 West Wilden Ave.											038079	2					act Man	ger:		
Capy Copy	Report To: jimkerezman@goshenci	ty.com		Email To: to	racieherso	hberger@	goshencit	y.com			** Pres	ervative Type	s: (1) nitric	acid, (2)	sulfuric acid	, (3) hydrochi	oric acid, (4)	sodium hyd	roside, (5) zin	acetate,	
State Country/City: Time Zone Collected: N Elihard Golhen Pr NT Cr Pr NT Cr Compilance Monitoring? Phone: 3-94-4402 State: Compilance Monitoring?	Copy To: mickreese@goshencity.co	m		Site Collect	ion Info/Ac	dress: Var	ious City	sites					xide, (D) T	SP, (U) U	npreserved,					ultate,	
Phone: 534-534-132 Phone: 534-534-132 Phone: 5	Customer Project Name/Number: L	L Mercury 973	3/1						[]CT				A	nalyses		1997	Gab S	amole Re	ceipt Che	cklist:	/ N NA
Note	Phone: 574 574 4102	Site/Facility ID	#:	I IN EI	mart / Gos				[](1	Т				X.			Custo	dy Signi	tures Pre	sent 1	N NA
Collected By: NIck Reese Im Currary Countries: OW PWS ID 8: OW PWS ID	CONTROL OF THE PROPERTY OF THE	Ditte, racimity is				[X] Yes	[] No [[X]Varies							7.11.3						Y N NA
Collected By (signature): Turnaround Date Required: Standard Immediately Packed on Ios: Yes Signature Turnaround Date Required: Standard Immediately Packed on Ios: Yes Signature Turnaround Date Required: Standard Immediately Packed on Ios: Yes Signature Immediately Packed on Ios: Yes		Purchase Orde	r#:			DW PWS II	D#:			1							Corre	et Bott	es .	14.13	N NA
Collected By (signature): Turnaround Date Required: Standard Immediately Packed on Ice: I yes XI No I yes XI No X						DW Locati	on Code:		-		100		0 to 1		Marine Surges	* * \$				~ \$2000 NO.00	YNNA
Sample Disposal: Austric (Expedite Charges Apply) Field Filtered (if applicable): Same Day Next Day Next Day		Turnaround D	ate Requir	ed: Standard	i	1		on ice:	and the same of th						4.5	20 mg	VOA -	- Headsp.	ce Accept		N NA
	Sample Disposal:					Field Filter	ed (if appli	cable):	1								Samo	les in H	olding Tim	A	Y N NA Y N NA
[] A Day [] 5 Day Analysis: **Matrix Codes (Insert in Matrix box below): Drinking Water (FW), Assessmeter (WW), Product (P), Solt/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bloassay (B), Vapor (N), Other (OT) Customer Sample ID Matrix ** Comp / Grab Matrix ** Comp / Grab Matrix ** Comp / Collected for Composite End Composite End Composite Start) Date Time Date Time Date Time Date Time Date Time Date Time Blank 1 WW G 8/20/2024 9:38am 1 G X Plant Effluent WW G 8/20/2024 9:95.6am 1 G X Plant Effluent WW G 8/20/2024 10:07am Middle School WW G 8/20/2024 10:45am DFA WW G 8/20/2024 10:45am 1 G X Showwalter LS WW G 8/20/2024 10:45am 1 G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry Moise Religious shed by/Company/Cignature) Pate (Fine) WTIL UAB USE ONLY: Trip Blank Received by/Company/Cignature) Date / Time; Date / Time; Date / Time; Trip Blank Received by/Company/Cignature) Date / Time; Trip Blank Received by/Company/Cignature) Date / Time; Date / Time; Trip Blank Received by/Company/Cignature) Trip Blank Received by				ext Day		[] Yes	[X] No									3.5	CI S	trips:		77426	
Blank 1										E					5				ceptable		Y N NA
Blank 1		[] 4 Day [] 5 Day			Analysis: _			-) št						200			ent		Y N NA
Blank 1		x below): Drinki	ng Water	DW), Groun	d Water (G	W), Wastev	vater (WW)),		1 2					200						
Blank 1										y y	5	100					LAB I	USE ONLY			
Blank 1	Customer Sample ID	Matrix *		Compos	ite Start)					Container	Z						Lab 1	Pample #	/ Comment		
Plant Effluent WW G 8/20/2024 9:36am 1 G X	Blank 1	ww	G	8/20/2024	9:38am			+	1	_	ZINISONIAN						0	01	1		
Plant Effluent	Plant influent	ww	G	8/20/2024	9:45 AM	1			1	G	X	9	3			200	0	12			
Bashor road WW G 8/20/2024 9:57am 1 G X		ww	G	8/20/2024	9:36am				1	G	X			60		1	10	13			
Middle School WW G 8/20/2024 10:34am 1 G X Blank 2 WW G 8/20/2024 10:45am 1 G X Blank 2 WW G 8/20/2024 10:45am 1 G X Showwalter LS WW G 8/20/2024 10:19am 1 G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N N Reliabulished by/Company/Signature) Reliabulished by/Company/Signature) Reliabulished by/Company/Signature) Pack / Type of Ice Used: Wet Blue Dry None Packing Material Used: Received by/Company/Signature) Received by/Company/Signature) Date/Time: MTJLLAB USE CNLY Table 8: Received by/Company/Signature) Pack / Type of Ice Used: Wet Blue Dry None Packing Material Used: Received by/Company/Signature) Received by/Company/Signature) Type of Ice Used: Wet Blue Dry None Packing Material Used: Samples received by/Company/Signature) Type of Ice Used: Wet Blue Dry None Packing Material Used: Date/Time: MTJLLAB USE CNLY Table 8: Received by/Company/Signature) Type Blank Received by/Company/Signature)	Grant Drive	ww	G	8/20/2024	10:07am				1	G	X	4	農		4		10%	54		Co.	337
Middle School WW G 8/20/2024 10:45am Blank 2 WW G 8/20/2024 10:45am Blank 2 WW G 8/20/2024 10:45am Blank 2 WW G 8/20/2024 10:19am I G X Showwalter LS WW G 8/20/2024 10:19am I G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N N Reliabulished by/Company/Signature) Reliabulished by/Company/Signature) Reliabulished by/Company/Signature) Packing Material Used: Received by/Company/Signature) Received by/Company/Signature) Date/Time: MTJLLAB USE ONLY Table 8: Trip Blank Received: Y Table 8: Received by/Company/Signature) Date/Time: MTJLLAB USE ONLY Table 8: Trip Blank Received: Y Table 8: Received by/Company/Signature)	Bashor road	ww	G	8/20/2024	9:57am				1	G	X	143			200	700	(6)(6	5			3.3
DFA WW G 8/20/2024 10:45am 1 G X Blank 2 WW G 8/20/2024 10:45am 1 G X Showwalter LS WW G 8/20/2024 10:19am 1 G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: Cooler 1 Temp Upon Recover Cooler 1 Temp Upon Recover 1 Cooler 1 Cooler 1 Temp Upon Recover 1 Temp Upon Recove		ww	G	8/20/2024	10:34am	1			1	G	X	200			53.3	1948	ac	16			
Blank 2 WW G 8/20/2024 10:45am 1 G X Showwalter LS WW G 8/20/2024 10:19am 1 G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A LAB Sample Temperature Information Packing Material Used: Lab Tracking #: Cooler 1 Temp Upon Recoler 1 Tem			_			_	$\overline{}$	+	_	-	THE REAL PROPERTY.		- 4		le a	G.	(6)(17	100		
Showwalter LS WW G 8/20/2024 10:19am 1 G X Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N N Reliabulshed by/Company/Signature) Received by/Company/Signature)					_			1 1	_	-	N.	7,64		da -	5.53	100	- OX	NA	all a		
Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A Lab Tracking #: Cooler 1 Temp Blank Benefit Cooler 1 Temp Bl			_		_	_	 	+	_	_		W-015	53			100	100				
Packing Material Used: Packing Material Used: Radchern sample(s) screened (<500 cpm): Y N N Samples received Via: FEDEX (IPS) Client Courier Pace Courier Consents: Relignatished by/Company Cignature) 12:55 Sate Time; Ores 24 Received by/Company: (Signature): Relignatished by/Company Cignature) Pack Time: MTJL LAB USE ONLY Table 8: Pack Time: Date Time: Acctive to Bace Vicenae By/Company: (Signature): Date Time: Acctive to Bace Vicenae By/Company: (Signature): Date Time: Acctive to Bace Vicenae By/Company: Signature): Trip Blank Received: Vicenae By/Company: Signature): Date Vicenae By/Company: Date V	Showwaiter LS	VV VV	-	0/20/2024	10.174511	 	-	+	-	10		diese.			6560	20 × 20 ×		AL A			27.2
Religious seed by/Company/Signature) 12:55 Date/Time: Date/Time:	Customer Remarks / Special Condi	tions / Possible	Hazards:	Packing Ma	nterial Used	d:			one N/			Lab Tracki Samples r	ng #;	a:				Temp Bla Therm ID Cooler 1 Cooler 1 Cooler 1	#: Temp Upon Therm Con Corrected	Receip	or: Oc
Police (short bull company (Stansture) Date/Time: Received: V/Company: (Stansture) Date/Time: Acctivum: Trip Blank Received: V	Religguished by/Company Signat	ure) 12 :		e/Time; 6/20	724	PER S			ure)	a ·			Time:	Client	MT	JL LAB USE		Comments			
	Relinquished by/Company: (Signat		Dat	e/Time:	-	Received b	y/Company	: (Signatu	ure)	_		8	2124	′	Acctn	ım: ate:		+	CL MeOH	TSP Ott	her
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: PM: Non Conformance(s): PB: VES / NO of:	Relinquished by/Company: (Signat	ture)				Received b	y/Company	y: (Signati	ure)						PM: PB:			Non Cor YES	formance(s) / NO		8 of 2 0

F-IN-Q-290-rev.28, 29Jul2024



Date/Time and initials of person examining contents	: RC	8-21-24	1 16:58	,		
1. Courier: □ FED EX MUPS □ CLIENT □ PACE		ETT 🗆	OTHER 5. Packing Material:	Bubble	e Bags	
2. Custody Seal on Cooler/Box Present: Yes	□ No		☐ None	☐ Other		
(if yes)Seals Intact: Yes No (leave blank		were prese	nt) 6. Ice Type: Wet Blue None	3.		
3. Thermometer: 1236/56789 ABC			7. Was the PM notified of out of temp cooler?:	Yes	□No	
			Cooler temp should be above freezing to 6°C			
4. Cooler Temperature(s): 200/9.9 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECE	IVED (use Cor	nments below	v to add more)			
			written out in the comments section below.			
	Yes	No		Yes	No	N/A
USDA Regulated Soile? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		1	All containers needing acid/base preservation have been pH <u>CHECKED</u> ?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCI.		AC.	
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			~
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
Rush TAT Requested (4 days or less):			Residual Chlorine Check (Total/Amenable/Free Cyanide)			-
	/		Headspace Wisconsin Sulfide?			1
Custody Signatures Present?		,	Headspace in VOA Vials (>6mm):	Present	Absent	No VOA Viale Sen
Containers Intact?: RC 8-21-24	4	V	See Containter Count form for details			
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		1	Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?			/
	it time	e of	9:51 instead of 9:57: Showweller LS.	ecol 1	acola	4.8
comments: Busher Proad sumple he sumplies is not salvageable	RC 8	-21-24				
			46			
						Page 19 of 2





November 05, 2024

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE: Project: LL Mercury

Pace Project No.: 50385746

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Kelly Jones kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125 Project Manager

Enclosures





Project:

LL Mercury

Pace Project No.: 50385746

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50385746002 EPA 1631E	Plant Effluent Mercury	0.730	ng/L	0.50	11/05/24 07:49	
50385746003 EPA 1631E	Plant Influent Mercury	15.2	ng/L	0.52	11/05/24 09:50	
50385746004 EPA 1631E	Grant Drive Mercury	11.5	ng/L	0.52	11/05/24 09:58	
50385746006 EPA 1631E	DFA Mercury	59.8	ng/L	2.6	11/05/24 10:28	

REPORT OF LABORATORY ANALYSIS

Pace Analytical		ample via this	chain of custody found at: https: ustody is a LEG	USTODY Analytical Request Document n of custody contitutes acknowledgment and acceptance of the Pace Terms and nd at: https://wdo.pacelabs.com/hubfs/pas-standard-terms.pdfl obj is a LEGAL DOCUMENT - Complete all relevant fields Billing Information: Attn: Tracie Hershberger 1000 West Wilden Ave.								LAB US	E ON	WC 	# : 	5(03	88	57 II	46
Company: City Of Goshen			Billin				rshberge	er				A	LL	5038	748	21 12	111	1 1 8		(1 × 5/2 1/4)
Address: 1000 West Wilden Ave.					Goshen, IN							Cont	ainer i re						Sp.C	
Report To: jimkerezman@goshenci	ty.com		Email To: tr	aciehers	chberger@	goshencit	y.com			** Pres	ervati	ve Types:	(1) nitric	acid, (2)	sulfuric a	cid, (3) i	nydro	chloric a	cid, (4)	sodium hydroxide, (5) zinc acetate, rtsic acid, (8) ammonium sulfate,
Copy To: mickreese@goshencity.co	m		Site Collect	ion Info/A	ddress: Var	ious City	sites			(C) amr	moniu	m hydroxi	de, (D) TS	iP. (U) Ur	preserv	ed, (O) C	ther	1		rofile/Line:
Customer Project Name/Number: L	L Mercury 973	3/1		ounty/City		Zone Colle	ected:	г []ст		\vdash		П	T	nalyses				П	Lab :	Sample Receipt Checklist: ody Seals Present/Intact Y N NA
Phone: 574-536-5080	Site/Facility ID	#:			Compliano	e Monitori	ng?												Custo	ody Signatures Present Y N NA ector Signature Present Y N NA
Email:goshenwastewater@goshencity.com					[X] Yes	[] No	X Varie	\$											Bott.	les Intact Y N NA
Collected By (print): Mick Reese	Purchase Orde	r#:			DW PWS I	D#:						1 1		1				1 1		ect Bottles I N MA
Jim Kerezman	Quote #:				DW Locati	on Code:						1 1								icient Volume Y N NA les Received on Ice Y N NA
Collected By (signature):	Turnaround Da	ate Requir	ed: Standard	i	Immediate	(X) No	on Ice:		Glass (G)										VOA USDA	- Headspace Acceptable Y N NA Regulated Spils Y N NA
Sample Disposal:	Rush: (Expedi	te Charges	Apply)		Field Filter	ed (if appli	cable):		1 15			1 1							Samp	les is Holding Time Y N NA dual Chlorine Present Y N NA
[X] Dispose as appropriate	[] Same D	ay [] No	ext Day		[] Yes	[X] No			5			1 1								trips:
Return	[] 2 Day [13 Day							(d)			1 1		- 1						le pH Acceptable Y N NA
[] Archive:	[] 4 Day [15 Day			Analysis:				Plastic (P)			1 1	1							trips: ide Present Y N NA
[] Hold:									Pas											ide Present Y N NA Acetate Strips:
* Matrix Codes (Insert in Matrix bo	x below): Drinki	ng Water (DW), Ground	d Water (G	W), Wastev	vater (WW)),			2		1 1							Leau	Procedure and processing and
Product (P), Soil/Solid (SL), Oil (Ol), Wipe (WP), A		collect		/apor (V), O	ther (OT)	Res	# of	Ę	Mercury										USE ONLY: Sample # / Comments:
Customer Sample ID	Matrix *	Comp / Grab	Compos		Compo	Site End	CI	Ctns	Container Type:	LL Me								-		
	1404/	G	10/22/24		- Date	-	+-	1	G	X	-	++	+	+	+-				90	(
Plant Blank	ww		-		+	-	+	-	-	-	-	+	-+	+-	+-			+	00	7
Plant Effluent	ww	G	10/22/24				-	1	G	X	_		\rightarrow	+	+	-		+-	_	03
Plant Influent	ww	G	10/22/24		<u> </u>	<u> </u>	-	1	G	X	-	\vdash	-	+	+			+-	<u></u>	94
Grant Drive	ww	G	-	10:13 AM	-	-	+-	1	G	X	-	\vdash	-	-	+			+-	_	205
Gleason Reynolds	ww	G	-	10:33 AM		-	+-	1	G	X	_	-	-	+	+-	\vdash		+		106
DFA	ww	G	-	10:41 AM				1	G	X	_	\vdash	-	_	+-		_	\vdash	_	
DFA Blank	ww	G	10/22/24	10:42 Am	-	-	-	1	G	X	_	\vdash	+	+	-			+-	-	707
					-	-	+-	-	-	-	-	\vdash	_	+	+-	\vdash	_	+	┡	
	-	_	-		-	-	+	+	+	-	-	\vdash	+	+	+		_	+	┢	
Customer Remarks / Special Condi	tions / Possible	Hazards:	Type of ice	i trad:	Wet	Blue I	Dry C	None			SHC	ORT HOL	OS PRESI	ENT (<7	2 hours): Y	N	N/A	-	LAB Sample Temperature Info:
Customer Remarks / Special Condi	cross / rossible			_		UMP (_	Tracking	-						\neg	Temp Blank Received: Y N NA Therm ID#:
			Packing Material Used: Bubble						· · · · · · · · · · · · · · · · · · ·								Cooler 1 Temp Upon Receipt: 20 C			
			Radchem sample(s) screened (<s00 cpm):="" n="" na<="" td="" y=""><td></td><td colspan="3">Samples received vi</td><td></td><td>Couri</td><td>er Pa</td><td>ce Co</td><td>urier</td><td></td><td>Cooler 1 Corrected Temp: 22.1 oc Comments:</td></s00>					Samples received vi				Couri	er Pa	ce Co	urier		Cooler 1 Corrected Temp: 22.1 oc Comments:			
Relinquished by/Company: (Signat	ture)	Dati	Date/Time: 10/22/24 /2 Received by/Company: (Signature) / 0 / 23/Ro24 /2 00 pm UPS				Date/Time: MTJL LAB				AB US									
Delinewiched by 15 among 15 inns	tural	Det	Paralysed by (Company (Signature)				Date/Time; A. Acctnum: Trip Blank Rec				Trip Blank Received: Y (N) NA									
Relinquished by/Company: (Signature) Date/Time! Date/Time! Received by/Fompany: (Signature) 105				lin	Pace	2		1012	3/24	19,5	O Ter	nplate: login:				HCL MeOH TSP Other				
Relinquished by/Company: (Signature)			ate/Time: Received by/Company (Signature)							Date/Time: PA					PM: Non Conformance(s): Page: 16 of 18 of: 18					



	15/2	2174	12.30 TS					
1. Thermometer: 1 2 3 4 5 6 7 8 9 A B 2. Cooler Temperature(s): (Initial/Corrected) RECORD TEMPS OF ALL COOLERS R 3. Courier: Fed Ex UPS Client Pace 4. Custody Seal on Cooler/Box Present: Yes (If yes) Seals Intact: Yes No (leave b)	DEF (DEF (DECEIVED (use Now/Jett	Comments b	elow to add more)	5. Packing Material: 6. Ice Type:	of out of temp cooler?	Yes	√ _{No}	
(if yes)Seals intact: Yes No (leave b			ill be written out in the comment	s section below.				
	Yes	No				Yes	No	N/A
USDA Regulated Solis? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		1	All containers needing acid/base CHECKED?: Exceptions: VOA,	coliform, LLHg, O&G, RAD				
Short-Hold Time Analysis (48 hours or less)? Analysis:		/	container with a septum cap or pr HNO3 (<2) H2SO4 (<2) NaOH (Any non-conformance to pH recomm	>10) NaOH/ZnAc (>9)				/
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC	625 Pest/PCB 608)		Present	Absent	N/A
Rush TAT Requested (4 days or less):		1	Residual Chlorine Check (Total/A	menable/Free Cyanide)				11/
Custody Signatures Present?	V		Headspace in VOA Vials (>6mm) See Containter Count form for de		· ·	Present	Absent	No VOA Vials Sen
Containers Intact?:	V		Trip Blank Present?				/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	1		Trip Blank Custody Seals?:		·			/
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if appli	cable:				
COMMENTS:				,				
1								
o de								
784								
4			****				F	Page 17 of 18
				Vanta de la companya del companya de la companya del companya de la companya de l				





January 03, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50390494

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gones

(317)228-3125

Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen



This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project:

LL Mercury

Pace Project No.: 50390494

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50390494002 EPA 1631E	Effluent Mercury	0.740	ng/L	0.50	01/03/25 12:15	
50390494003 EPA 1631E	Influent Mercury	20.7	ng/L	0.52	01/03/25 13:42	
50390494004 EPA 1631E	Grant Drive Mercury	8.08	ng/L	0.52	01/03/25 13:49	
50390494005 EPA 1631E	Gleason-M Mercury	0.680	ng/L	0.50	01/03/25 12:22	
50390494006 EPA 1631E	Gleason-R Mercury	1.22	ng/L	0.52	01/03/25 13:57	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical	Submitting a sai	mple via this	chain of custody of found at: https:// ustody is a LEG	constitutes aci info pacelabs AL DOCUME	com/hubfs/pas NT - Complet	and acceptance standard-term e all relevan	e of the Pa ns.pdf t fields	ce Terns a	ind					1			0390494	
Company: City Of Goshen			Billing		on: Attn:		shberge	r				ALL	BOLD OU	TI				
Address: 1000 West Wilden Ave.					West Wilde oshen, IN 46				1	THE COMMONWE	Control	Containe	r Preservative	Ty	039049	4		
			Email To: tra			-	v com										A) and an hydroxide (5) you aretate.	
Report To: jimkerezman@goshenci	ty.com		Email 10. tra	acienersci	inder ger @ g	Sostienere	,			** Prese	ervative	Types: (1) n	itric acid, (2) sul culfate. (8) sodiu	furic acid, im thiosul	(3) hydrocnio fate, (9) hexa	ne, (A) asc	4) sodium hydroxide, (5) zinc acetate, corbic acid, (8) ammonium sulfate,	
Copy To: mickreese@goshencity.co	om		Site Collection	on Info/Ad	dress: Vari	ous City	sites			(C) amm	nonium l	hydroxide, (Analyses	eserved, (O) Other		Profile/Line:	La War
Customer Project Name/Number: L	L Mercury 9733	/1		nart / Gost	nen -		[]MT	{ }CT			T			The second second	age of the second	Cust		N NV
Phone: 574-534-4102 Email:gosheriwastewater@goshencity.com	Site/Facility ID	#:			Compliance [X] Yes	[] No [5								Mot I	Tector Signature Present Y	AN N AN N
Collected By (print):M. Reese J.	Purchase Orde	r#:			DW PWS ID											Sui	ticient Volume Y	N NA
Kerezman	Quote #:				DW Locatio		n lea:		-							Samp		N NA N NA
Collected By (signature):	Turnaround Da	ite Requir	ed: Standard		Immediate	[X] No	Annual Confession		Glass (G)	and the same						USDA	M Requiated Solis Y aples in Holding Time Y	N NA
Sample Disposal:	Rush: (Expedit				Field Filter		cable):		or Gl			100				Res	sidual Chlorine Present Y	N NA
[X] Dispose as appropriate	[] Same D		ext Day		[] Yes	[X] No											Strips: mple pH Acceptable Y	N NA
Return	[] 2 Day [Analusis:				ic (P)		1				And the state of t	Hq	Strips:	N NC
Archive:	[] 4 Day [Analysis: _		2000		Plastic (1	· ·				Sul	Ifide Present Y ad Acetate Strips:	N NA
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			Date	Time	Date	Time		1		岀							601	
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Effluent	ww	G	12/17/24	9:56 AN	1			1	G	X	-		-				007	
Influent	ww	G	12/17/24	10:05 AM	1			1	G	X							(33)	-
Grant Drive	ww	G	12/17/24	10:28 AN	1			1	G	X							OUS	
Gleason -M	ww	G		11:09 AN	-			1	G	X							002	
Gleason-R	ww	G	- 1	11:25 AN	4			1	G	X				-			906	
Gleason-K	- Jan Mariaman																- Charles - Consideration and Consideration -	
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and the control of th		-	-		-	1	+		1	1								rengmen.
		l.	CROSCOL SHOULDER	Commence of the Commence of th	AMARIA MARIA	Blue	Dry (None	-	uman differential accounts.	SHO	RT HOLDS	PRESENT (<72	hours):	YNO	N/A)	LAB Sample Temperature Info	n N
Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Us Packing Mater			CANADAN NO THE	Wet	اما ما م	, 1	-		Lab Tracking #:						and the second second	Tomp Blank Received: Therm IDH: Sooler Tomp Upon Possopt	:19.80	
Radchemsar			sample(s)	screened (<	500 cpm):	_W(N NA	5			ples receiv		Courier	Pace Cour	rier	ctuoler 1 Theim Corr. Facts cooler 1 Corrected Temp: Comments:	19.4	
The second secon				on and a second second		AND THE OWNER WHEN THE PARTY AND THE PARTY A	w (Sign	aturel	r taciniers	or cards on early	-	Date/Time	NAME AND POST OF THE PERSON NAMED IN COLUMN 1 (1987)	M	TJL LAB USE	ONLY		
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TOIG			ite/Time:	and the same of th						Date/Time: PM: Non-Continuance(s). PB: YES / NO					N .			

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1-1 acc	

2. Coolur Temperature(s): (initial/Corrected) RECORD TEMPS OF ALL COOLERS RECORD TEMPS	Now/Jett		low to add more)	5. Packing Material: Bubble Wrap None Coler Type: Wet □ Blue None None Was the PM notified of out of temp cooler Cooler temp should be above freezing to 6°C If the PM was contacted in the comments below please write	Yes	h No	
If >s)Seals Intact: Yes No (leave bla	nk if no sea	ls were pre	esent)		e now they made	uctes the p	-
in specific mass.	All discrep	oancies wil	I be written out in the comme	nts section below.			N/A
	Yes	No		。 《西西西古圣》《中华》(《《	Yes	No	N/A
USDA Rejulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico) Short Hot I Time Analysis (48 hours or less)? Analysis:			container with a septum cap or	, coliform, LLHg, O&G, RAD CHEM, and any preserved with HCl. Circle:		Abrost	N/A
Time 5035 A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVO	OC 625 Pest/PCB 608)	Present	Absent	7
Rush TAT Requested (4 days or less):			Residual Chlorine Check (Tota	i/Amenable/Free Cyanide)	- Process	Absent	No VOA Vials S
Cur ody & gnatures Present?			Headspace in VOA Vials (>6mi See Containter Count form for	Present	Absent		
Containers Intact?:			Trip Biank Present?		/		
Sample Label (IDs/Dates/Times) Match COC? Excrit TCs which only require sample ID			Trip Blank Custody Seals?				
Extra labe s on Terracore Vials? (soils only)			Out Of Temp Instructions if ap	plicable:			
COLAMEN'S:							





February 21, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50394065

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125 Project Manager

Enclosures





Project: LL Mercury
Pace Project No.: 50394065

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50394065002 EPA 1631E	Plant Influent Mercury	9.07	ng/L	0.52	02/20/25 11:41	
50394065003 EPA 1631E	Plant Effluent Mercury	0.727	ng/L	0.50	02/20/25 11:33	

REPORT OF LABORATORY ANALYSIS

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ompany: City Of Goshen		main-or-Cu	Billing	nformatio	on: Attn: West Wilde	Tracle Hers	hberger				ALL BOLD OUTLY	Lab Project Manager	
					oshen, IN 46						Container Preservative Type		
ddress: 1000 West Wilden Ave.							com	1	- 8		to the same of the same of	cid, (3) hydrochloric acid, (4) sodium hydroxide, (5) ale	nc acetate,
eport To: Jimkerezman@goshencity	y.com		Email To: tra					1		et	rvative Types: (1) nitric acid, (2) summer a anol, (7) sodium bisulfate, (8) sodium thic onium hydroxide, (D) TSP, (U) Unpreserv	osunate, (3) nexame, (7) ascertain	sulfete,
Copy To: mickreese@goshencity.com	n		Site Collectio				-			C) amm	Analyses	Lab Profile Late:	ecklist:
Customer Project Name/Number: LL	Mercury 9733	/1		unty/City art / Gosh	nen		[]MT]CT				Custody Signatures Pr	esent Y N NA
N	Site/Facility ID	f:			Compliance							Collector Signature P	YNNA
hone: 574-534-4102					(X) Yes	[] No [)	(Ivanes	(80)			多数	Correct Bottles	YNMA
mail:goshenwastewater@goshencity.com	Purchase Order	#:			DW PWS ID							Sufficient Volume Samples Received on I	Y N NA
Collected By: Mick Reese Jim Kerezman	Quote #:				DW Locatio		n lee:		اءا			WOR - Meadspace Acces	stable Y N MA
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Collected by (signature):					[] Yes	(X) No ed (if applic	able):	-	Glass			Samplen in Holding T. Remidual Chlorina Pro	
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] Return	[]2 Day [[]4 Day [Analysis: _			_ 1	Plastic			Sulfide Present	AM RA
[] Archive:						- hines			2		建 图	Lead Acetate Stripe:	
Matrix Codes (Insert in Matrix bo	x below): Drinkir	ig Water	(DW), Ground	Water (G	W), Wastev	rater (WW).	•		Type:	5		LAB USE ONLY:	
 Matrix Codes (Insert in Matrix box Product (P), Soil/Solid (SL), Oil (Ol 	L), Wipe (WP), Ai	r (AR), Tis	300 (13); 5.00		rapor (V), O	ner (O1)		# of	1 5	2	發落	Can Sample 6 / Conse	CONV
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	ww	G	2/17/2025	8:35	M			1	G	BX		THE REPORT OF THE PARTY OF THE	ALC: SECTION
Plant Effluent	1000	Ť							-				
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											Samples received via:	analay I Correc	Corr. Factored.
			Radchem :	sample(s)	screened (TO SHADOWS AND	NAME OF TAXABLE PARTY.	- Contract of the Contract of			PEDEX CPS Client Co.	MTH LAB USE ONLY	7
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Mily Min	<u></u>		2/17/2025	7 00	7	U.	2 ISion	aturel	100		Date/Time: [0]5		eceived Y N NA
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Relinquished by/Company: (Sign	incore)	-	46-15	10:15	M	110	en a		-		2-18-25	relogin:	efsi: Page:
Relinquished by/Company: (Sign			2-16-25 pate/Time:	10:15	Raceipar	by/Compa	ny: (Sign	ature)	F		Date/Time:	relegin: M: Non Conformanc B: YES / NO	e(s): Page:

-IN-O-290-rev.29, 4Oct2024

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ate/Time and initials of person examining conte	ents: RC	2-18-2	25 12:17	☑ Bubble Wrap	Bubble	Rags	
<u>Thermometer:</u> 1 2 3 4 6 6 7 8 9 A Cooler Temperature(s): 12-7/12-9	_	HI		5. Packing Material:	☐ Other		
(Initial/Corrected) RECORD TEMPS OF ALL COOLER		omments be	elow to add more)	6. Ice Type: Wet Blue No	ne		
Courier: Fed Ex Client Paircle One Custody Seal on Cooler/Box Present:	Yes Mow/Jett	Other		7. Was the PM notified of out of temp cool Cooler temp should be above freezing to 6°C If the PM was contacted in the comments below please w			oject to proces
f yes)Seals Intact:	ve blank if no sea	ls were pre	esent) Il be written out in the commen	ts section below.			
	Yes Yes	No No			Yes	No	N/A
SDA Regulated Solle? (HI, ID, NY, WA, OR,CA, NM, T K, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Ricc	TX,	/	All containers needing acid/base CHECKED?: Exceptions: VOA, container with a septum cap or p				
hort Hold Time Analysis (48 hours or less)? nalysis:		1	HINDS (42) HISBOY (42) NACH	(>10) NaOH/ZnAc (>9) mendations will be noted on the container count fo			/
ime 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC	Present	Absent	N/A	
ush TAT Requested (4 days or less):			Residual Chlorine Check (Total/	/Amenable/Free Cyanide)			
ustody Signatures Present?	1		Headspace in VOA Vials (>6mm See Containter Count form for o		Present	Absent	No VOA Vials S
containers Intact?:	1		Trip Blank Present?			/	
ample Label (IDs/Dates/Times) Match COC?: xcept TCs, which only require sample ID	1		Trip Blank Custody Seals?:				
xtra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if app	olicable:			
OMMENTS:							
							Page 13





May 07, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50399627

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmis

(317)228-3125 Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen





SUMMARY OF DETECTION

Project:

LL Mercury

Pace Project No.: 50399627

Pace Project No.:						
Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50399627002 EPA 1631E	Plant influent Mercury	14.8	ng/L	1.0	05/07/25 12:24	
50399627003 EPA 1631E	Plant Effluent Mercury	2.23	ng/L	0.52	05/07/25 11:47	
50399627004 EPA 1631E	Grant Street Mercury	14.9	ng/L	1.0	05/07/25 12:32	
50399627005 EPA 1631E	Midway L.S. Mercury	60.2	ng/L	1.0	05/07/25 12:39	
50399627006 EPA 1631E	Green & Lincoln Mercury	588	ng/L	10.4	05/07/25 13:32	

REPORT OF LABORATORY ANALYSIS

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Company: City Of Goshen			Billing Ir	nformati		n: Tracie He	rshberg	er									E ONLY
Address: 1000 West Wilden Ave.			1		0 West Wil Goshen, IN					20000000	SEC 3-00200	T 503			1 8 818		r
Report To: jimkerezman@goshenci	ty.com		Email To: trac	ieherso	hberger@	goshencit	y.com	Ì									d, (4) sodium hydroxide, (5) zinc acetate,
Copy To: mickreese@goshencity.co	om		Site Collection	Info/Ac	ddress: Var	rious City	sites						bisulfate, (8) so e, (D) TSP, (U) U				ascorbic acid, (B) ammonium sulfate,
Customer Project Name/Number: L	L Mercury 973	3/1		inty/City		e Zone Colle				21353	_	7.1387	Analyses	17.7864		L	ab Profile/Line: ab Sample Receipt Checklist:
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Phone: 574-534-4102	Site/Facility ID	#:			[X] Yes	[] No	_	is .		200		1864				C	ollector Signature Present Y N NA
Email:goshenwastewater@goshencity.com Collected By (print):	Purchase Orde	er#:			DW PWS I		-		1		1						ottles Intact Y N NA orrect Bottles Y N NA
Micky Reese	Quote #:				DW Locati	ion Code:		- 1	1								afficient Volume Y N NA amples Received on Ice Y N NA
Collected By (signature):	Turnaround D	ate Requi	ed: Standard		Immediate	ely Packed ([X] No	on Ice:		Glass (G)							Vi US	DA - Headspace Acceptable Y N NA SDA Regulated Soils Y N NA
Sample Disposal:	Rush: (Expedi	-				red (if appli	cable):	1			1						amples in Holding Time Y N NA esidual Chlorine Present Y N NA
[X] Dispose as appropriate	[] Same D		ext Day		[] Yes	[X] No			0				200			Q.	l Strips:
[] Return [] Archive:	[] 2 Day				Analysis:			-	ic P				10 T	150			ample pH Acceptable Y N NA
[] Hold:								_ (Jast							Si	ilfide Present Y N NA
 Matrix Codes (Insert in Matrix box Product (P), Soil/Solid (SL), Oil (OL 	x below): Drinki L), Wipe (WP), A	ir (AR), Tis	sue (TS), Bioass	ay (B), V	W), Wastev apor (V), O	vater (WW) ther (OT)			Container Type: Plastic (P)	LL Mercury				1940			ab USE ONLY:
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Grant Street	ww	G	4/23/2024	9:30 AM				1	G	X			CASPS		45.0		
Midway L.S.	ww	G	4/23/2024 1	0:05 AM				1	G	X							
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			Packing Mater	rial Used	t ·				10 C-14		Lab	Tracking #					Therm ID#: 4 Cooler 1 Temp Upon Receipt:/1.9C
			Radchem sam	ple(s) sc	creened (<5	600 cpm):	Y N	I NA			100	EDEX U		Courier	Pace Co	urler	Cooler 1 Therm Corr. Factor 0.00 Cooler 1 Corrected Temp: 149 oC Comments:
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Relinquished by/Company: (Signat	ture)	Dat	e/Time:		Received b	y/Company	: (Signa	ture)				Date/Time	2:	PM: PB:			Non Conformance(s): Page: YES / NO of:



SAMPLE CONDITION UPON RECEIPT FORM

AT ALSO			i i i i i i i i i i i i i i i i i i i
Date/Time and initials of person examining content	s: 1S	:05	4/23/25 1
1. Thermometer: 1 2 3 4 5 6 7 8 9 A B 2. Cooler Temperature(s): (Initial/Corrected) RECORD TEMPS OF ALL COOLERS R	CDEF		3. Packing Material: Bubble Wrap Bubble Bags
3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes		LLHg	5. Courier: Fed Ex UPS Client Pace Now/Jett Other
Cooler temp should be above freezing to 6°C If the PM was contacted in the comments below please write how they instructe	d the project to	proceed	6. Custody Seal on Cooler/Box Present: (If yes)Seals Intact: Yes No (leave blank if no seals were present)
	All discr	epancies v	vill be written out in the comments section below.
THE REPORT OF THE PARKETS.	Yes	No	Yes No N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH <u>CHECKED</u> ?: Exceptions: VOA, colliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCI. Circle:
Short Hold Time Analysis (48 hours or less)? Analysis:	. '	/	HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608) Present Absent N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm): See Containter Count form for details
Containers Intact?:	1/		Trip Blank Present?
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	V		Trip Blank Custody Seals?:
Comments:			Extra labels on Terracore Vials? (soils only)
			
2.3			Page 16 of 17





June 26, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50404592

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gones

(317)228-3125

Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen





SUMMARY OF DETECTION

Project: Pace Project No.: 50404592

LL Mercury

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50404592001	Effluent					
EPA 1631E	Mercury	0.585	ng/L	0.50	06/26/25 11:52	
50404592003	Influent					
EPA 1631E	Mercury	11.0	ng/L	0.52	06/26/25 12:36	
50404592004	Grant Dr					
EPA 1631E	Mercury	18.0	ng/L	0.52	06/26/25 12:44	
50404592006	CR 38 LS					
EPA 1631E	Mercury	12.8	ng/L	0.52	06/26/25 12:51	
50404592007	CR 27&Karisa					
EPA 1631E	Mercury	14.4	ng/L	0.52	06/26/25 12:59	
50404592008	Shasta Dr					
EPA 1631E	Mercury	126	ng/L	5.2	06/26/25 13:17	
50404592009	Mill Street					
EPA 1631E	Mercury	35.6	ng/L	0.52	06/26/25 13:28	
50404592010	Bashor LS					
EPA 1631E	Mercury	8.53	ng/L	0.52	06/26/25 13:36	
	•					

REPORT OF LABORATORY ANALYSIS

Pace Analytical		sample vu ti Conditio	F-CUSTOD is chain of custody is found at https: Custody is a LET Billing Inforce	constitutes ack //info pacelabs.i SAL DOCUME	nowledgment com/hubfs/pas	and acceptance standard-territe all relevan	e of the Pa ns.pdf nt fields				LA				N	ITJL Log	-in Num	iber Ho			
Company: City Of Goshen			West Wilde		ittii. Hatie	nershberg		nen, IN									REAS	are	for LAB USE ON	LY	
Address: 1000 West Wilden Ave.	_				46528							Contain	er Pres	ervative	Туре	**	_	Lab	Project Manager:		
Report To: jirnkerezman@goshencit			Email To: tra			-													(4) sodium hydroxide, (5) z corbic acid, (8) ammonium		
Copy To: mickreese@goshencity.co	m		Site Collection	n Info/Addr	ess: Vario	us City si	tes				nonium h		(D) TSP	(U) Unpr				-			
Customer Project Name/Number: Li	Mercury 973	3/1		unty/City: art / Gosher		one Collect	ed: JMT [JCT (\vdash	Т	\top	Ana	lyses	Т	Т	\top	Lab	Profile/Line: Sample Receipt Ch tody Seals Present		N NA
Phone: 574-534-4102	Site/Facility ID	#:				e Monitori					104	. E	01	04		00			ody Signatures Pr	esent Y	N NA
Email:goshenwastewater@goshencity.com					[X] Yes	[] No	[X]Varie	5	-	IA	0#	. 5	UE	JU4	(H	34			ector Signature P les Intact		N NA
Collected By (print)	Purchase Orde	r#:			DW PWS I					81		11 183							ect Bottles	-	N NA
Mick Reese	Quote #:	na Danisla	ad: Ctandard		DW Locati	on Code:	on Ice:					Ш							icient Volume les Received on I		N NA
Collected By (signature):	Turnaround Da	ate kequir	ea: Standard		[] Yes	[X] No	on ice:		Glass (G)	50 50	40458			119 911					- Headspace Accep Regulated Soils	table Y	N NA N NA
Sample Disposal:	Rush: (Expedit	te Charges	Apply)		Field Filter	ed (if appli	cable):		1 8		DIVER NEED								les in Holding Ti		N NA
[X] Dispose as appropriate	[] Same D	ay [] N	ext Day		[] Yes	[X] No			6								T		dual Chlorine Pre	sent Y	N NA
[] Return	[] 2 Day [] 3 Day							<u>a</u>				1	1 1		- 1			Strips: ole pH Acceptable		N NA
[] Archive:	[]4 Day [] 5 Day			Analysis: _			_	Plastic (P)				1	1 1		- 1		pH S	Strips:		
Matrix Codes (Insert in Matrix box	halowi Drinkir	ag Water I	DW) Ground	Water (GW)	Wastewat	er (WW)						1		1 1		- 1			ide Present Acetate Strips:	Y	N NA
Product (P), Soil/Solid (SL), Oil (OL)	Wine (WP) Ai	r (AR). Ties	use (TS). Binas	sav (B). Van	or (V). Othe	r (OT)			Type	2			1	1 1	- 1			read	Acetate Strips:		- American
Product (P), Sony Sona (Sc), On (Oc	T T	Comp/	Collect		. (-),	. (0.)	Res	# of		Mercury				1 1					USE ONLY:		
Contract Sample ID	Matrix *	Grab	Composi		Compo	site End	CI	Ctns	ine	2	- 1			1 1	- 1			Lab	Sample # / Comment	.5:	
Customer Sample ID	1	0.00	Date	Time	Date	Time	1	1	Container	=		1		1 1					C		
		-	5/11/75	8:46 AM	r		+	-	-		+	+	-	\vdash	-	\rightarrow	+	_	See S	MA	-
Effluent	ww	G	6/11/25				-	-	G	X	-	_	-	\vdash	_	\perp	_	00	1		
Blank 1	ww	G	6/11/25	8:47 AM			-		G	X		_	_		_			00	2	,	
Influent	ww	G	6/11/25	8:55 AM					G	X								00	3	1	- 14
Grant Dr.	WW	G	6/11/25	9:10 AM					G	X							T	0	64	6,00	
Blank 2 Karisa	ww	G	6/11/25	9:50 AM					G	X							T	a	35		
CR 38 LS	ww	G	6/11/25	9:40 AM					G	X					\Box			00	26		
CR 27&Karisa	ww	G	6/11/25	9:50 AM					G	X					\Box			O	57		
Shasta Dr.	ww	G	6/11/25	10:00 AM					G	X								0	38		
Mill Street	ww	G	6/11/25	10:10 AM					G	X	1.6							O	09		
Bashor LS	ww	G	6/11/25	9:17 AM					G	X								0	10		
Customer Remarks / Special Condit	ions / Possible I	Hazards:	Type of Ice L	sed:	Wet Bi	ue Dry	Nor		Company State	Aniceting in the	SHORT H	IOLDS P	RESENT	(<72 hor	ursi :	Y N	N/A	_	LAB Sample Temperatu	re info:	No. of Concession,
			Packing Mat	erial Used:				1			Lab Trac	-		(7	Temp Blank Receive Therm ID#:	d: ON	_
				-				K .			Samples	receive	d via:			-			Cooler 1 Temp Upon Cooler 1 Therm Cor		
			Radchem sar	nple(s) scree	ened (<500	cpm): Y	N	NA			FEDEX			ent Co	urier	Pace Co	urier		Cooler 1 Corrected	Temp:	oC
Relinguished by/Company: (Signatu	ure)	Dat	e/Time: 6/1:	/25	Received b	y/Compan	y: (Signa	ture)	Name of Street	DESCRIPTION	Date	/Time:		-	MT	L LAB U	SE ONLY	The state of the s	Comments:		
Muchy Pu		-	12:00 PM	-		Tie	do	,						-	able #		- while				
Relinquished by/Company: (Signatu	ire)	Date		7.5	Received b	W/Company	y: (Signa	ture)			Date	/Time:	111	-	ectnu	Contract of the last		=	Trip Blank Receiv	ed: Y N N	A
Fider		61	14/23	w		lm f	tunt	Pa	re		61	14/2	35	40 F	empla	ite:			HCL MeOH		
Relinquished by/Company: (Signatu	sre)	Date	/Time:		Received b	y/Compan	y: (Signat	ture)			Date	/Time:	-		M: B:				Non Conformance(s): YES / NO	Page:	-

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1-1	act

SAMPLE CONDITION UPON RECEIPT FORM

	/ /	1010	0 17.00	1 (2)						
Date/Time and Initials of person examining contents	:01	1716	010:10	1124						
1. <u>Thermometer:</u> 123456789 (A)B	DEF	3 H I		3. Packing M	aterial:	Bubble	Wrap	Bubb	e Bags	
2. Cooler Temperature(s): [4.3/14.8]						None		Other		
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RE	CEIVED (use	Comments be	elow to add more)	4. ice Type:	Wet	Blue	None)		
Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes	No		5. Courier	Eed Ex	UPS	Client	Pace	Now/Jet	t Other	
Cooler temp should be above freezing to 6°C			6. Custody Seal on Cooler/I	Box Present:		Yes	No			
If the PM was contacted in the comments below please write how they instructed	the project to p	proceed	(if yes)Seals Intact	Yes	No	(leave blan	k if no se	als were p	resent)	
	All discr	epancies w	ill be written out in the comment	s section below.						
	Yes	No	A STATE OF THE PARTY OF THE PAR	建物温度				Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			All containers needing acid/base p CHECKED?: Exceptions: VOA, c	oliform, LLHg, O&						
Short Hold Time Analysis (48 hours or less)? Analysis:			container with a septum cap or pre HNO3 (<2) H2SO4 (<2) NaOH (> Any non-conformance to pH recomm	10) NaOH/ZnAc		Circle container cou				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC	325 Pest/PCB 608	3)			Present	Absent	N/A
Rush TAT Requested (4 days or less):			Residual Chlorine Check (Total/Ar	menable/Free Cya	anide)					
Custody Signatures Present?	/		Headspace in VOA Vials (>6mm): See Containter Count form for de					Present	Absent	No VOA Viais Sens
Containers Intact?:			Trip Blank Present?						/	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			Trip Blank Custody Seals?:							
Comments:			Extra labels on Terracore Vials? (s	soils only)						





August 28, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.: 50410750

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gones

(317)228-3125 Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen





SUMMARY OF DETECTION

Project:

LL Mercury

Pace Project No.: 50410750

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50410750001 EPA 1631E	Effluent Mercury	0.950	ng/L	0.50	08/27/25 16:30	
50410750003 EPA 1631E	Influent Mercury	14.6	ng/L	0.52	08/27/25 18:01	
50410750004 EPA 1631E	Grant Dr. Mercury	143	ng/L	26.0	08/27/25 18:21	

Pace Analytical	CH Submitting a s	sample via this	chain of custody of s found at: https://custody is a LEG/	constitutes ackno l'info.pacelabs.co AL DOCUMEN	owledgment at om/hubfs/pas- T - Complete	nd acceptance standard-terms ail relevant	of the Pace s.pdf fields	t Terms and	d		ı		NLY-Affix V		MC)# 	:5	0410750
Company: City Of Goshen			Billing Inform West Wilden		tn: Tracie i	Hershberge	r Goshi	4		-		HARACE TO SERVICE STATE OF THE		SALES SE	504	107	50	MININA BULL FAR RESERVE
Address: 1000 West Wilden Ave.			West Wilden	Ave.	46528					000200	100	NAME OF	er Preserva	1000		Į.	Personal I	
Report To: jimkerezman@goshenci	ty.com		Email To: trac							(6) met	hanol, (7) sodium t	isulfate, (8) s	odium thiosu	ulfate, (9)	hexane	ic acid, (4) e, (A) asco	sodium hydroxide, (5) zinc acetate, orbic acid, (8) ammonium sulfate,
Copy To: mickreese@goshencity.co	m		Site Collection	n Info/Addre	ss: Vario	us City sit	tes			(C) amr	monium	hydroxide,	(D) TSP, (U) L Analyse		(O) Othe	r	lab Pi	rofile/Line:
Customer Project Name/Number: L Phone: 574-584-4102 Email:gookenwastewstar@gookencity.com Collected by (print):Mick Reese Rodney Hahn	Site/Facility ID Purchase Orde Quote #: Turnaround Da	#: er#:	IN Elkha		Compliance [X] Yes DW PWS II DW Location]MT [ng? X]Varies		(9)								Cust Cust Coll Bott Corr Suff Samp VOA	Sample Receipt Checklist: ody Seals Present/Intact Y N NA ody Signatures Present Y N NA ector Signature Present Y N NA les Intact Y N NA ect Bottles Y N NA icient Volume les Received on Ice Y N NA - Headspace Acceptable Y N NA
Collected By (signature): Collected By (signature):	Rush: (Expedit	te Charges lay [] No [] 3 Day [] 5 Day	Apply) ext Day DW), Ground	Water (GW),	[] Yes Field Filter [] Yes Analysis: , Wastewat	[X] No red (if applie [X] No ter (WW),		_	Plastic (P) or Glass	λ							Samp Resi Cl S Samp PH S Sulf Lead	Regulated Soils Y N NA les in Holding Time Y N NA dual Chlorine Present Y N NA trips: Y N NA trips: Y N NA Trips: Y N NA I Acctate Strips:
Product (P), Soli/Solid (SL), Oil (O	L), Wipe (WP), A	Comp / Grab	Collected (or Sta	Composite	or (V), Othe	osite End	Res	# of Ctns	Container Type:	LL Mercury							Lab	USE ONLY: Sample # / Comments:
Effluent	ww	G	8/21/25	9:05 AM			_		G	X			数 。19	5000	- 1	4.0	1000	
Blank 1	ww	G	8/21/25			-	+	-	G	X	\vdash		2000 E		100		1000	Section 1
Influent	ww	G	8/21/25	9:20 AM		-	+	-	G	X	\vdash		100	1000	12		100	
Grant Dr.	ww	G	8/21/25	9:30 AM			+	-	G	X								
Customer Remarks / Special Cond	litions / Possible	Hazards:	Type of ice L	load:	Wet B	liue Dr	y No	ne			SHOP	RT HOLDS	PRESENT (72 hours) :	Y N	N/	A	AB Sample Temperature Info: Temp Blank Received: Y N NA
Please Note: The sample bott labelled Grant Place. The sam relabel the sample due to con	le for Grant Dr. pler didn't war	. is nt to	Packing Mat	erial Used:								racking a	ved via:					Therm ID#: Cooler 1 Temp Upon Receipt: of Cooler 1 Therm Corr. Factor: Cooler 1 Corrected Temp:
Grant Dr. is the correct Labeli			Radchem sa	mple(s) scre	ened (<500	3 cpm): 1	Y N	NA			FE	DEX I	JPS Clier	nt Couries	Charles of the	1001057.75	and the same of	Comments:
Religouished by/Company: (Signa			te/Time:3/2	1/25) tede	by/Compar						Date/Tim		Table	WILLIAM STATE OF THE	USE O	NLY	Trip Blank Received: Y N NA
Relinquished by/Company: (Signated Street)	ature)	Dat 8/	e/Tirpe: 22/25 (3:15		py/compa Pace						0100	ts 9	1050200	num: plate: ogin:			HCL MeOH TSP Other
Relinquished by/Company: (Signa	ature)	Dat	te/Time:		Received	by/Compa	ny: (Sign	ature)				Date/Tim	e:	PB:				YES / NO Page 13 of 15



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

8/22/25 19:09 JG			
1. Thermometer: 123456789 ABCDEFGHI			
Cooler temp should be above freezing to 6°C			\neg
2A. Cooler Temperature(s):		halaur ta ad	
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use	Comments	Delow to au	No
2B. Was the PM notified of out of temp cooler?: (leave blank if samples ar	e in temp)	Yes	LIVO
3. Packing Material: Bubble Bags Bubble Wrap None	Other:		
4. Ice Type: Wet Blue None			
5. Courier: FedEx UPS Client Pace NOW	Jett	Other	
6. Custody Seal on Cooler/Box Present: Yes No			
(If yes)Seals Intact: Yes No Leave blank			nt
All discrepancies will be written out in the comments sec	tion belo	w.	
	Yes	No	N/A
. USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL,			
MS, NC, SC, GA, FL, or Puerto Rico)			
Short Hold Time Analysis (48 hours or less)?:			
. Time 5035A TC placed in Freezer or Short Holds To Lab:	Time:		1
0. Rush TAT Requested (4 days or less):			-
1. Custody Signatures Present?	_		
2. Containers intact?			-
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID			
4. All containers needing acid/base preservation have been pH			
CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container			
vith a septum cap or preserved with HCl.			
Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
15. Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
16. Residual Chlorine Check (Total/Amenable/Free Cyanide)			
17. Headspace in VOA Vials (>6mm): See Containter Count form for details			
18. Trip Blank Present?			
19. Trip Blank Custody Seals?:			
20. Extra labels on Terracore Vials? (soils only)			
Comments: Grant Dr sample point labeled as "Grant Pla	ice! JC	\$/22	125
Client included note on chain regarding sample labeling/ 082525kj			

Pace Analytical Services, LLC 7726 Moller Road Indianapolis, IN 46268 (317)228-3100



October 23, 2025

Mick Reese City of Goshen 1000 W. Wilden Ave Goshen, IN 46528

RE:

Project: LL Mercury

Pace Project No.:

50415655

Dear Mick Reese:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kelly Jones

kelly.jones@pacelabs.com

Kelly M gmes

(317)228-3125

Project Manager

Enclosures

cc: Jim Kerezman, City of Goshen



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SUMMARY OF DETECTION

Project:

LL Mercury

Pace Project No.: 50415655

Date: 10/23/2025 09:46 PM

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50415655001 EPA 1631E	Effluent Mercury	0.680	ng/L	0.50	10/23/25 18:49	
50415655003 EPA 1631E	Influent Mercury	18.5	ng/L	0.52	10/23/25 20:33	
50415655004 EPA 1631E	Grant Dr. Mercury	8.28	ng/L	0.52	10/23/25 20:41	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.

Pace Analytical		a sample via th Conditio	F-CUSTOE his chain of custod his found at https -Custody is a LE	y constitutes acki //info pacelabs o	nowledgment com/hubfs/pa	and acceptance s-standard-tern	of the Pa		nd			LAB USE	ONLY- Affi					or List Pace Worksrder Number or 0415655
Company: City Of Goshen			Billing Infor	mation: A	ttn: Tracie	Hershberge		1000		1		AL	L BOLD	0	Ш			Service Control
Address: 1000 West Wilden Ave.			West Wilde	en Ave.	46528		Gos	hen, IN		-	ACCOUNTS N	Contai	ner Presen	vativ				I dia i a an
Report To: jimkerezman@gosher	city.com		Email To: tra	cieherschb		oshencity.	com			· · Pre	servativ				c acid, (3	3) hydrod	chloric a	cid, (4) sodium hydroxide, (5) zinc acetate,
Copy To: mickreese@goshencity.	com		Site Collectio	on Info/Addr	ess: Vario	ous City si	tes			(6) me	thanol,	(7) sodium	bisulfate, (8 , (D) TSP, (U) sodium t	hiosulfal	te, (9) he	exane, (/	A) ascorbic acid, (B) ammonium sulfate,
Customer Project Name/Number	LL Mercury 973	3/1		ounty/City:		one Collect		. ICT (-			Analy	ses	Т			Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N N
Phone: 574 534 4102	Site/Facility ID) #:	I IN EIKI			ce Monitorio	ng?		Г									Custody Signatures Present Y N N Collector Signature Present Y N N
mail goshenwastewater@goshencity.com Collected By (print).	Purchase Orde	er #			DW PWS	D#:	[X] V G I I E	-	1									Bottles Intact Y N N Correct Bottles Y N N Sufficient Volume Y N N
Collected By (signature):	- Quote #: Turnaround D	ate Requir	ed: Standard		Immediate [] Yes	ely Packed of	on ice:		s (G)									Samples Received on Ice Y N N VOA - Headspace Acceptable Y N N USDA Regulated Soils Y N N
Sample Disposal X] Dispose as appropriate	Rush: (Expedi	_				red (if applie	cable):		or Glass									Samples in Holding Time Y N N Residual Chlorine Present Y N N
Return	[] 2 Day	3 Day	LAN DOY		Analysis				ā									Cl Strips: Sample pH Acceptable Y N N pH Strips:
Matrix Codes (Insert in Matrix t Product (P), Soil/Solid (SL), Oil (ox below): Drinki	ng Water (Water (GW),	Wastewa	ter (WW),			Type: Plastic	n's								Sulfide Present Y N B Lead Acetate Strips:
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Sta Date		Compo	osite End Time	Res	# of Ctns	Container	LL Mercury								Lab Sample # / Comments:
Effluent	ww	G	10/16/25	9:25 AM				1	G	X								
Blank 1	ww	G	10/16/25	9:30 AM					G	X								
influent	ww	G	10/16/25	9:41 AM					G	X								
Grant Dr.	ww	G	10/16/25	10:15 AM					G	X					1			
									G	X					T			
									G	X								
									G	X					T	T		
									G	X								
									G	X								
									G	X			(3)					
ustomer Remarks / Special Con	ditions / Possible	Hazards	Type of ice un facking Man DWbb	erial Used:		lue Dry	No	ne)			100 (000)	racking #	PRESENT	<72 hou	rs): Y	и (N/A	Temp Blank Received: N Thems ID#: Cooler 1 Temp Upon Receipt:
				mple(s) scree	1.0	L. Control					1	DEX)	red via: IPS Clie	100				Cooler 1 Therm Corr. Factoric Cooler 1 Corrected Temp:
Relinquished by/Company Kign.	4	194	7 (00 AM	:00A	٣	by/Compan						Date/Time		i i	MTJL i	LAB US	EONLY	
Relinquished by/gompany: (Sign	eture)	Cont.	Time:		Received !	by/Compan	y: (Sign:	ature)			0	Date/Time	2:	A	ctnum	PI	The same of	Trip Blank Received: Y N. NA. HCL. MeOH TSP Other



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Consultant Name: Kiefer Consulting Date Collected:

03/07/2022

Date Received:

03/08/2022

Lab Number:

VE0308042

Location:

DIGESTER

Description:

Sub Description:

	% Dry	% Wet	Ibs/Ton	lbs/Ton	lbs/
	Basis	Basis	Dry	Wet	1000 gal
TOTAL SOLIDS	100	2.003	2000	40	

	mg/kg Dry <u>Basis</u>	mg/kg Wet <u>Basis</u>	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	11.20	0.22	0.0224	0.0004	
CADMIUM	3.40	0.07	0.0068	1.3E-4	
CHROMIUM-TOTAL (Cr)	60.60	1.21	0.1212	0.0024	
COPPER	199.10	3.99	0.3982	0.0080	
LEAD	7.10	0.14	0.0142	0.0003	
MERCURY	< 3.00	< 0.06	< 0.0060	< 1.2E-4	
MOLYBDENUM	20.10	0.40	0.0402	0.0008	
NICKEL	21.00	0.42	0.0420	0.0008	
SELENIUM	< 2.00	< 0.04	< 0.0040	< 8.0E-5	
ZINC	113.70	2.28	0.2274	0.0046	

MAXIMUM AWSAR

79.64 Dry Ton/Acre

3976.18 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Erica Huber

Environmental Laboratory Manager

Brookside LABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

CHAIN OF CUSTODY

In order for analysis to be completed correctly, please fill this out this form completely. If you have any questions please contact the laboratory or the environmental manager.

CLIENI: GOSLEN WW	ACCOUNT NO: 602/ 5	TEST METHODS: (IF SPECIFIED)	Chain of Custo	Chain of Custody Protocol is
REPORT ADDRESS:	INYOICE ADDRESS:		E Mandatory	Optional
	Grener, Hol			
	ATTN: Seve Kiefer	TESTS REQUESTED	State Samples Collected:	
ATTN: Jim Kerezman SAMPLED BY:	XX	47		
PHONE NO:	P.O. NO:		# AND TYPE OF	_
EMAIL:	QUOTE NO:	F.11	CONTAINERS	
TURNAROUND TIME (additional fees)	al fees)	820	-	
Standard (none)	3 Day (+50%)	7 / 2	нс	
☐ 5 Day (+25%)	24 hr Rush (+100%)	- (c)	1	
	Date Needed:	7.5	20°	
ATE	TIME C/G MATRIX FIELD PH		10 2H	LAB USE ONLY
Digester April	A.a. 5D	7	0001	P VE 0308042
0 6201		7	y 021	
F303				VE0,308044
F211				VE0.308045
F221				VEO30804/
F231				V£0,308047
F232				VE0308048
F242 1	-			VE0,308049
QC DELIVERABLES:	COMMENTS: Please NE	tur woly total	4	
Level 1 Level 2		11/1/	1	
Level 3 Level 4 Other	•	8/1/21/Mary 6	- Trans	
RELINQUISHED BY: A TLUE	LLLA DATE/TIME:	12:00 P.M RECEIVED BY: 41	DATE DATE	DATE/TIME: 3-8-22
RELINQUISHED BY:		: RECEIVED BY:	DATI	DATE/TIME:
MATRIX CODES: DE-drinking water SE-soil	OE-oil	IS-industrial solid IL-industrial liquid WE-groundwater UE-wastewater VE-sludge TE-tissue XE-fertilizer	stewater VE-sludge TE-tissue	XE-fertilizer



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

60213 Client Number:

Client Name: City of Goshen Consultant Name: Kiefer Consulting Date Collected: 06/22/2022

Lab Number:

VE0623005

Location:

DIGESTER

Description:

Sub Description:

Date Received: 06/23/2022					
TOTAL SOLIDS	% Dry <u>Basis</u> 100	% Wet <u>Basis</u> 2.714	Dry 2000	Ibs/Ton <u>Wet</u> 54	lbs/ 1000 gal
	mg/kg Dry Basis	mg/kg Wet Basis	lbs/Ton Dry	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	17.10	0.46	0.0342	0.0009	
CADMIUM	2.40	0.07	0.0048	1.3E-4	
CHROMIUM-TOTAL (Cr)	47.20	1.28	0.0944	0.0026	
COPPER	293.00	7.95	0.5860	0.0159	
LEAD	15.90	0.43	0.0318	0.0009	
MERCURY	< 1.97	< 0.05	< 0.0039	< 1.0E-4	
MOLYBDENUM	24.80	0.67	0.0496	0.0013	
NICKEL	22.50	0.61	0.0450	0.0012	
SELENIUM	< 2.00	< 0.05	< 0.0040	< 1.0E-4	
ZINC	618.50	16.79	1.2370	0.0336	

MAXIMUM AWSAR

52.16 Dry Ton/Acre

1922.02 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Comments: Approval:

Erica Huber

Environmental & Geotechnical Manager

Brookside LABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

CHAIN OF CUSTODY 7/1/1

In order for analysis to be completed correctly, please full this out this form completely. If you have any questions please contact the laboratory or the environmental manager.

CLIENT: Gusher	CO	ACCO	UNT	10: 61	ACCOUNT NO: 6021 3	TEST	METHO	DS: (IF S	TEST METHODS: (IF SPECIFIED)	<u></u>	L		Chain	of Cus	Chain of Custody Protocol is:	
REPORT ADDRESS:		OV.	OE AD	INVOICE ADDRESS:	72.							_	Man	-Mandatory	Optional	
		<u>a</u>	Sept	S. L.	37											
		ATTN:		Steve	15,cfer		TES	TESTS REQUESTED	ESTED		Stat	State Samples Collected:	les Col	lected:		
ATTN: I'M Kec	PECTINAN	SAMPLED BY:	LED B	 //	,	_	¥			-	_	•				
		P.O. NO:	ö				130					# AND	# AND TYPE OF	۳		
EMAIL:		QUO	QUOTE NO:			<u> </u>	<u>ን</u> !					S	CONTAINERS	S		
TURNAROUND TIME (additional fees)	(addition	al fees)					10						-	-	_	
4-Standard (none)	_	<u></u>	☐ 3 Day (+50%)	20%))				НО					
☐ 5 Day (+25%)			hr Ru	☐ 24 hr Rush (+100%)	(%(٤(احرا				εN \	٤				
		Date	Date Needed:	d:		7_	2				/ ID	ON	OS ²	oue euc		
SAMPLE ID	DATE	TIME	9/5	MATRIX	(FIELD PH	٠,	4				Н	IH		_	A LAB USE UNLY	
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d mide		_	P	_			Z	_		_					VEOGZZOO	10
70110			-	-											VE0623007	7
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RELINQUISHED BY:		-)		DATE/TIME:			RECE	RECEIVED BY:	ا				ă	DATE/TIME:	
MATRIX CODES: DE-drinking water SE-soil	nking wate	r SE-soil	OE-oil	il IS-ind	ustrial solid	L-Indust	rial liquid	WE-gre	undwate	r UE-w	astewal	er VE-s	ludge	TE-tissu	IS-industrial solid IL-industrial liquid WE-groundwater UE-wastewater VE-sludge TE-tissue XE-fertilizer	



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Date Collected:

Consultant Name: Kiefer Consulting 09/07/2022

Date Received:

09/08/2022

Lab Number

VE0908026 **BELT FILTER**

Location: Description:

COMP

Sub Description:

TOTAL SOLIDS	% Dry <u>Basis</u> 100	% Wet Basis 1.988	Ibs/Ton Dry 2000	Ibs/Ton <u>Wet</u> 40	lbs/ 1000 gal
	mg/kg Dry <u>Basis</u>	mg/kg Wet <u>Basis</u>	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	22.00	0.44	0.0440	0.0009	
CADMIUM	2.90	0.06	0.0058	1.1E-4	
CHROMIUM-TOTAL (Cr)	48.50	0.96	0.0970	0.0019	
COPPER	324.00	6.44	0.6480	0.0129	
LEAD	15.20	0.30	0.0304	0.0006	
MERCURY	< 2.82	< 0.06	< 0.0056	< 1.1E-4	
MOLYBDENUM	21.20	0.42	0.0424	0.0008	
NICKEL	12.90	0.26	0.0258	0.0005	
SELENIUM	< 2.00	< 0.04	< 0.0040	< 7.9E-5	
ZINC	664.50	13.21	1.3290	0.0264	

MAXIMUM AWSAR

40.55 Dry Ton/Acre

2039.51 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Erica Cheek

Environmental & Geotechnical Manager

Brookside LABS

Environmental Department 200 White Mountain Dr.

New Bremen, OH 45869 (419)977-2766

148

فافهها ربدالا CHAIN OF CUSTODY

If you have any questions please contact the laboratory or the environmental manager. In order for analysis to be completed correctly, please fill this out this form completely.

	1			
CLIENI: (205) WW	ACCOUNT NO: 602/ S	TEST METHODS: (IF SPECIFIED)	Chain of C	Chain of Custody Protocol is:
REPORT ADDRESS:	INVOICE ADDRESS:		El-Mandatory	y 🗀 Optional
	Bremen, IN Ubecol			
	ATTN: Steve Kiplin	TESTS REQUESTED	State Samples Collected:	[;;
ATTN: Jim Korezman	SAMPLED BY: 54	5/	R R	
PHONE NO:	P.O. NO:	ולכו	# AND TYPE OF	
EMAIL:	QUOTE NO:	ارار الحالة المارات	CONTAINERS	••
TURNAROUND TIME (additional fees)	nal fees)	1°2		Γ
Standard (none)	3 Day (+50%)		но	
☐ 5 Day (+25%)	24 hr Rush (+100%)	/×.	,	
	Date Needed:	75	os ON	e de la composition della comp
SAMPLE ID DATE	TIME C/G MATRIX FIELD PH		tH TH	Z LAB USE ONLY
13-14 Elder CL 9/2	9/2/230 C SD	7	~	1000 UF UGAROZI.
	ए	7	''	1000 VENGARAT
8073				1/E090x098
8073				Vr0908029
B 074				160908030
6.081				160908031
8032				¥10909032
B091				JF0908032
QC DELIVERABLES:	COMMENTS:			
Level 1 Level 2				
Level 3 Level 4 Other		9/2/17		
RELINQUISHED BY: XX	DATE/TIME:	רו	a of	DATE/TIME: 0-8-22
RELINQUISHED BY:	// DATE/TIME:	RECEIVED BY:	٥	DATE/TIME:
MATRIX CODES: DE-drinking water	MATRIX CODES: DE-drinking water SE-soil OE-oil IS-industrial solid IL	IL-industrial liquid WE-groundwater UE-wastewater	VE-sludge TE-ti	ue XE-fertilizer
			- 1	



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Consultant Name: Kiefer Consulting Date Collected:

12/05/2022

Date Received:

12/06/2022

Lab Number:

VE1206006

Location:

DIGESTER

Description:

Sub Description:

	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/
	Basis	Basis	Dry	Wet	1000 gal
TOTAL SOLIDS	100	1.764	2000	35	

	mg/kg Dry Basis	mg/kg Wet Basis	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	22.10	0.39	0.0442	0.0008	
CADMIUM	4.80	0.08	0.0096	1.6E-4	
CHROMIUM-TOTAL (Cr)	61.40	1.08	0.1228	0.0022	
COPPER	381.60	6.73	0.7632	0.0135	
LEAD	10.00	0.18	0.0200	0.0004	
MERCURY	< 2.98	< 0.05	< 0.0060	< 1.0E-4	
MOLYBDENUM	24.60	0.43	0.0492	0.0009	
NICKEL	9.50	0.17	0.0190	0.0003	
SELENIUM	< 2.00	< 0.04	< 0.0040	< 7.0E-5	
ZINC	715.50	12.62	1.4310	0.0252	

MAXIMUM AWSAR

40.36 Dry Ton/Acre

2288.09 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments: *Recheck requested. Report revised. 1/18/23 EC

Erica Cheek

Environmental & Geotechnical Manager

huk

▲ BrooksideLABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

In order for analysis to be completed correctly, please fill this out this form completely. If you have any questions please contact the laboratory or the environmental manager.

CHAIN OF CUSTODY

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									LAB USE ONLY	VEIROGOGO		VE 1206068	VEIDOBODA	VELADLOFO	VEIDOGOII	VEIBOLDIA	VE 1306013				DATE/TIME 3/6/DA 9:45	DATE/TIME:	VE-sludge TE-tissue XE-fertilizer
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		Colle		/PE OF	NERS			her													JAK		T agbr
		amples	7	# AND TYPE OF	CONTAINERS			20°													Ulm	- 1	- 1
		State Samples, Collected:		#		Н	OB	N / I													etty Wellman		ewater
		0,																	E	X	Sett		JE-wast
TEST METHODS: (IF SPECIFIED)		TESTS REQUESTED	<i>us</i>	9	-:11) [) 050		7	7								tun woln + lyth	Thomps, Itu	11:00 Am	1E: RECEIVED BY:	OE-oil IS-industrial solid IL-industrial liquid WE-groundwater UE-wastewater
60213	70591	Gefer						(%	FIFIDAH										ease re		DATE/TIME:	DATE/TIME:	strial solid
	INVOICE ADDRESS:	0	:. 1				.20%)	24 hr Rush (+100%) 100 Nooded: 100 Nooded:	MATRIX		-	_					_		COMMENTS: PL	2			oil IS-indu
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30			Joce Sman SAMPLED BY:			(additiona	_		DATE	17/5/2 9:30 PM C	-									vel 2 □Other	Sture		inking wate
CLIENT: GOSKER		15	ATTN: Jim Kar	NO:	EMAIL:	TURNAROUND TIME (additional fees)	Standard (none)	☐ 5 Day (+25%)	CANADIE ID	N. o. schov	D 000	RIDZ	RIDS	8109	21.8	Q 113	D114		QC DELIVERABLES:	Level 1 Level 2	RELINQUISHED BY:	RELINQUISHED BY:	MATRIX CODES: DE-drinking water SE-soil



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Consultant Name: Kiefer Consulting Date Collected:

03/08/2023

Date Received:

03/09/2023

Lab Number:

VE0309014 **DIGESTER**

Location:

Des	cription	:
Sub	Descri	ption

TOTAL SOLIDS	% Dry <u>Basis</u> 100	% Wet <u>Basis</u> 2.215	Ibs/Ton Dry 2000	Ibs/Ton <u>Wet</u> 44	lbs/ 1000 gal
	mg/kg Dry Basis	mg/kg Wet <u>Basis</u>	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	31.30	0.69	0.0626	0.0014	
CADMIUM	4.50	0.10	0.0090	1.9E-4	
CHROMIUM-TOTAL (Cr)	48.20	1.07	0.0964	0.0021	
COPPER	234.50	5.19	0.4690	0.0104	
LEAD	11.40	0.25	0.0228	0.0005	
MERCURY	< 2.30	< 0.05	< 0.0046	< 1.0E-4	
MOLYBDENUM	17.30	0.38	0.0346	0.0008	
NICKEL	16.90	0.37	0.0338	0.0007	
SELENIUM	< 2.00	< 0.04	< 0.0040	< 8.8E-5	
ZINC	499.50	11.06	0.9990	0.0221	

MAXIMUM AWSAR

28.50 Dry Ton/Acre

1286.61 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Erica Cheek

Environmental & Geotechnical Manager

180

CHAIN OF CUSTODY

Pink = Client Copy - Keep for your records White = Original - send to lab w/samples Yellow = Copy - send to lab w/samples

please fill out this form completely. Test Method

Codes are located on the back of this form.

Instructions: In order for analysis to be completed correctly,

PROOKS/O

BROOKSIDE LABORATORIES, INC. **Environmental Services Department** 200 White Mountain Drive

New Bremen, Ohio 45869 Tel. (419) 977-2766 FAX (419) 977-2767

P	State in which samples were collected: 🚄 🔏		Motor Motor	MATRIX CODES: DW = Diffinity water		WW = Wastewater	M = Manure		Γ	In a lindustrial Solid		,	THE USE ONLY	N	W VEO309014	/V VE 0309015	VE 0309016	V E 0309017	VEOSOGOIS	VE 0304019	VEO309036	V €0304031		y Protoc	Uptional		Rec Lab Temp:
ds Required)	State in which									# and type of containers	1		OS ⁵ ON	IH									-	bottle.	Then	Date/Time 34 Jas 9:45 am	Date/Time
TEST METHODS (if SpecificMethods Required)					TESTS REQUESTED	3	10-			7	<i></i>	222	2											wash T	Thorts	Rec'd By: Batta Wolfman	0
		70		fer		5	5/	3	/2	10	1	50	_ 	rield pH	7	1								or retu			Ш
Account No: 1,071 3	oice Address:	5.0 Box 372 Bremen, IN	A650C	ATTN: Steve Kiet		No.		Quote No:	Fax No:	(see)	3 Day (+ 50%)	☐ 24 Hour Rush (+ 100%)		Time Comp (C) Matrix Grab (G)	300	ර්							-	COMMENTS: DL	2/8/2	Date/Time // 204.11	
	er 80			AT	Sa)d	Kerezman	3	: Yes	(additic	Standard (none)	$\overline{}$	Date Needer	Sample ID Date	1 3/2 m		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	T	63	DIC 100	24	205		les:	Level 2 Level 3	1	By:
Client						NTTN-	WIT.NI	Phone No:	Fax Results: Yes	TURNAR	Star	☐ ☐ 2 0°		Sam	Diapel	7020	5750	N 351	0.350	0258	0 254	M 28	2	QC Deliverables:	Level 1	Relinquished Bv:	Relinquished By:



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Date Collected:

Consultant Name: Kiefer Consulting 06/28/2023

Date Received:

06/29/2023

Lab Number:

VE0629009 **DIGESTER**

Location:

Description: Sub Description:

	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/
	<u>Basis</u>	<u>Basis</u>	<u>Dry</u>	<u>Wet</u>	1000 gal
TOTAL SOLIDS	100	1 860	2000	37	

	mg/kg Dry Basis	mg/kg Wet Basis	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	38.20	0.71	0.0764	0.0014	
CADMIUM	6.90	0.13	0.0138	0.0003	
CHROMIUM-TOTAL (Cr)	61.90	1.15	0.1238	0.0023	
COPPER	308.50	5.74	0.6170	0.0115	
LEAD	11.10	0.21	0.0222	0.0004	
MERCURY	0.31	0.01	0.0006	1.1E-5	
MOLYBDENUM	31.00	0.58	0.0620	0.0012	
NICKEL	59.80	1.11	0.1196	0.0022	
SELENIUM	< 2.00	< 0.04	< 0.0040	< 7.4E-5	
ZINC	615.50	11.45	1.2310	0.0229	

MAXIMUM AWSAR

23.35 Dry Ton/Acre

1255.42 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Erica Cheek

Environmental & Geotechnical Manager

huk

-15

M Brooksĭde ∟ABS

Environmental Department New Bremen, OH 45869 200 White Mountain Dr. (419)977-2766

In order for analysis to be completed correctly, please fill this out this form completely. If you have any questions please contact the laboratory or the environmental manager.

CHAIN OF CUSTODY 1/13/

DATE/TIME: 6/24/24/29 9: 450/1 LAB USE ONLY VED634013 VED634014 VECU34DIG VE ひり 3 501 か ションマックショク VED 6 34010 VECKASOOS ントロショうココ MATRIX CODES: DE-drinking water SE-soil OE-oil IS-industrial solid IL-industrial liquid WE-groundwater UE-wastewater VE-sludge TE-tissue XE-fertilizer DATE/TIME: None State Samples Collected: # AND TYPE OF Other CONTAINERS 10:30-2 AIRECEIVED BY: VITTILLY LOUDING *OSZH FONH HCI / NªOH RECEIVED BY: TEST METHODS: (IF SPECIFIED) ESTS REQUESTED (charles, DATE/TIME: DATE/TIME: FIELD PH 下がする COMMENTS: Desore 60215 ☐ 24 hr Rush (+100%) C/G MATRIX INVOICE ADDRESS: ATTN: 2+CC □ 3 Day (+50%) ACCOUNT NO: SAMPLED BY: Date Needed: QUOTE NO: P.O. NO: TURNAROUND TIME (additional fees) TIME Kerezinan 6/25/2 ☐Level 3 ☐ Level 4 ☐Other CLIENT: CASTON WY DATE ☐ Level 1 ☐ Level 2 던 Standard (none) RELINQUISHED BY: QC DELIVERABLES: RELINQUISHED BY: REPORT ADDRESS: □ 5 Day (+25%) 3,0 PS+C 232 x 227 ATTN: 7 PY 222 X X 214 X 219 PHONE NO: x 215 x 510 SAMPLE ID EMAIL:



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Date Collected:

Consultant Name: Kiefer Consulting 09/11/2023

Date Received:

09/12/2023

Lab Number:

VE0912005

Location:

DIGESTER

Description:

Sub Description:

	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/
	Basis	Basis	Dry	Wet	1000 gal
TOTAL SOLIDS	100	2.270	2000	45	

	mg/kg Dry	mg/kg Wet	lbs/Ton	lbs/Ton	lbs/
	<u>Basis</u>	<u>Basis</u>	Dry	Wet	1000 gal
ARSENIC	16.30	0.37	0.0326	0.0007	
CADMIUM	5.60	0.13	0.0112	0.0003	
CHROMIUM-TOTAL (Cr)	44.50	1.01	0.0890	0.0020	
COPPER	229.50	5.21	0.4590	0.0104	
LEAD	11.60	0.26	0.0232	0.0005	
MERCURY	0.66	0.02	0.0013	3.0E-5	
MOLYBDENUM	19.70	0.45	0.0394	0.0009	
NICKEL	24.40	0.55	0.0488	0.0011	
SELENIUM	< 2.00	< 0.05	< 0.0040	< 9.0E-5	
ZINC	479.00	10.87	0.9580	0.0217	

MAXIMUM AWSAR

54.72 Dry Ton/Acre

2410.75 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Erica Cheek

Environmental & Geotechnical Manager

huk

. ■ Brookside

Environmental Department

200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

CHON CHAIN OF CUSTODY 4 Light

In order for analysis to be completed correctly, please fill this out this form completely. If you have any questions please contact the laboratory or the environmental manager.

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200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Date Collected: Date Received:

Consultant Name: Kiefer Consulting

12/12/2023

12/14/2023

Lab Number:

VE1214013

Location:

DIGESTER

Description:

Sub Description:

	maller Dr.	man/len Mah	Iba/Tan	lha/Tan	lla a /
TOTAL SOLIDS	<u>Basis</u> 100	<u>Basis</u> 1.453	<u>Dry</u> 2000	<u>Wet</u> 29	<u>1000 gal</u>
	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/

	mg/kg Dry <u>Basis</u>	mg/kg Wet Basis	Ibs/Ton Dry	lbs/Ton Wet	lbs/ 1000 gal
ARSENIC	< 2.00	< 0.03	< 0.0040	< 5.8E-5	
CADMIUM	< 0.50	< 0.01	< 0.0010	< 1.4E-5	
CHROMIUM-TOTAL (Cr)	23.00	0.33	0.0460	0.0007	
COPPER	243.50	3.54	0.4870	0.0071	
LEAD	11.70	0.17	0.0234	0.0003	
MERCURY	1.26	0.02	0.0025	3.6E-5	
MOLYBDENUM	21.40	0.31	0.0428	0.0006	
NICKEL	14.30	0.21	0.0286	0.0004	
SELENIUM	2.00	0.03	0.0040	5.8E-5	
ZINC	405.00	5.88	0.8100	0.0118	

MAXIMUM AWSAR

137.37 Dry Ton/Acre

9454.35 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: COPPER

who Bal

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Luke Baker CEO/President

- 153

15

M Brookside

LABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

CHAIN OF CUSTODY WELL

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If you have any questions please contact the laboratory or the environmental manager. In order for analysis to be completed correctly, please fill this out this form completely.

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MATRIX CODES: DE-drinking water SE-soil OE-oil 15-industrial solid 11-industrial liquid WE-groundwater UE-wastewater	water SE	-soil OE	oil IS-indu	strial solid II	-industr	al liquid	WE-groun	dwater	UE-wast	water		Joe TE	-tissue	VE-sludge TE-tissue XE-fertilizer	T



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name: Consultant Name: Crop Tech Inc.

City of Goshen

Date Collected: Date Received:

03/27/2024 03/28/2024

Lab Number:

VE0328004

Location:

BIOSOLIDS

Description:

Sub Description:

	% Dry Basis	% Wet <u>Basis</u>	Dry	Wet	1000 gal
TOTAL SOLIDS	100	2.809	2000	56	

	mg/kg Dry Basis	mg/kg Wet <u>Basis</u>	lbs/Ton <u>Dry</u>	lbs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	< 7.12	< 0.20	< 0.0142	< 0.0004	
CADMIUM	< 1.78	< 0.05	< 0.0036	< 1.0E-4	
CHROMIUM-TOTAL (Cr)	28.48	0.80	0.0570	0.0016	
COPPER	211.82	5.95	0.4236	0.0119	
LEAD	< 17.80	< 0.50	< 0.0356	< 0.0010	
MERCURY	< 0.05	< 0.00	< 1.0E-4	< 2.8E-6	
MOLYBDENUM	20.65	0.58	0.0413	0.0012	
NICKEL	11.75	0.33	0.0235	0.0007	
SELENIUM	< 7.12	< 0.20	< 0.0142	< 0.0004	
ZINC	359.20	10.09	0.7184	0.0202	

MAXIMUM AWSAR

157.92 Dry Ton/Acre

5621.85 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: COPPER

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Greg Meyer Ag Lab Manager Meyes

Brookside LABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

764

If you have any questions please contact the laboratory or the environmental manager. In order for analysis to be completed correctly, please fill this out this form completely.

בייייי כייייי Cray Rech CHAIN OF CUSTODY

CLIENT: City of Goshen	_	ACCO	UNT	ACCOUNT NO:60213		TEST	METH) :Sao	TEST METHODS: (IF SPECIFIED)	JIFIED		_					
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		ATTA	Cony E	ATTN:Cory Bowman			F	STS RI	TESTS REQUESTED	TED		Sta	te Sar	State Samples Collected:	ollect	ed:	
ATTN: Jim Kerezman		SAME	LED B	SAMPLED BY: Cory		S				-	_						
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EMAIL:		QUO.	QUOTE NO:			əΜ							ដ	CONTAINERS	ERS		
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MATRIX CODES: DE-drinking water SE-soil OE-oil IS-industrial solid	inking wat	er SE-so	I OE-o	il IS-indu		IL-Industrial liquid WE-groundwater UE-wastewater	trial liq	nid W	E-grour	dwate	r UE-	vastew		/E-slud	ge TE-t	issue	VE-sludge TE-tissue XE-fertilizer



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766

Fax: (419) 977-2767

Client Number

60213

Client Name:

City of Goshen

Date Collected: Date Received:

Consultant Name: Crop Tech Inc. 06/12/2024

06/13/2024

Lab Number:

VE0613003

Location:

BIOSOLIDS

Description:

Sub Description:

	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/
	Basis	Basis	Dry	Wet	1000 gal
TOTAL SOLIDS	100	2.810	2000	56	

	mg/kg Dry Basis	mg/kg Wet Basis	lbs/Ton Dry	lbs/Ton Wet	ibs/ 1000 gai
ARSENIC	16.01	0.45	0.0320	0.0009	
CADMIUM	3.20	0.09	0.0064	1.8E-4	
CHROMIUM-TOTAL (Cr)	61.21	1.72	0.1224	0.0034	
COPPER	240.21	6.75	0.4804	0.0135	
LEAD	< 17.79	< 0.50	< 0.0356	< 0.0010	
MERCURY	< 0.05	< 0.00	< 1.0E-4	< 2.8E-6	
MOLYBDENUM	21.71	0.61	0.0434	0.0012	
NICKEL	22.42	0.63	0.0448	0.0013	
SELENIUM	< 7.12	< 0.20	< 0.0142	< 0.0004	
ZINC	488.26	13.72	0.9765	0.0274	

MAXIMUM AWSAR

55.70 Dry Ton/Acre

1982.22 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Jackie Brackman Chief Operating Officer (Year Kind Results to:

Astbury Water Technology, Inc. Northeast Regional Office

GOI West 400 North * Angola, Indiana 46703
Phone (260) 668-8900 * Fax (260) 668-8900

CHAIN OF CUSTODY

Crop Tech Inc P.O. Box 365 Millers burg, IN 46543

City of Goshen	ESG Work Order # 24009936		S. 1.			FESTE	PRESERVATION CODES	
Sampling Frequency PWS ID#			79.17	Analysis Required		N = HNO3 / Nitric Acid U = S = H2SO4 / Sulturic Acid OH =	U = Unpreserved, Cooled to 4'C OH = NaCH / Sodium Hydroxide	
Sampler(s) Signature C			91			70	SO = Na2S2O3 / Sodium Th'osul	12
Sist.No DATE TIME COMP GRAB	SAMPLE-ID.	.m.	Total number of Containers			Comments		
6/12/24 7:00AM X	Biosolid	5	1 2					
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1:30 AM		1	>			Z Z / >	opida (cockata), i ji	
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Relinquished by: DATE/TIME	Storage Temp /Temp Blank	Received b	Received by: DATE/ITME	Storage Temp /Temp Blank		SAN	LS	1 1
					Ple	Please not if sample(s) suspected to be hazardous, corrosive	ardous, corrosive	
						or requires special handling for any reason.	у гевыя.	
	(If Applicable)			(If Applicable)	AV	AWT-Nem completes TSS, CBODS, BOD, NH3, TP, Ecoli	O, NH3, TP, Ecoli	
Please note Temperature of On-site Storage if used and Temperature Blank if in Transit.	erature Blank If in	Transit.				ESG performs other analysis	Bis	



200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen

Date Collected:

Consultant Name: Crop Tech Inc. 09/25/2024

Date Received:

09/27/2024

Lab Number:

VE0927001 BIOSOLIDS

Location: Description:

Sub Description:

Mg/kg Dry mg/kg Wet lbs/Ton lbs/Ton lbs/Ton ARSENIC < 1.00 < 0.02 < 0.0020 < 4.9E-5 CADMIUM < 0.25 < 0.01 < 0.0005 < 1.2E-5 CHROMIUM 1.45 0.04 0.0029 7.2E-5 COPPER 7.10 0.18 0.0142 0.0004 LEAD < 2.50 < 0.06 < 0.0050 < 1.2E-4 MERCURY < 0.50 < 0.01 < 0.0010 < 2.4E-5 MOLYBDENUM < 1.00 < 0.02 < 0.0020 < 4.9E-5 NICKEL 0.80 0.02 0.0016 3.9E-5 SELENIUM < 1.00 < 0.02 < 0.0020 < 4.9E-5 ZINC 15.20 0.38 0.0304 0.0008	al

MAXIMUM AWSAR

1274.29 Dry Ton/Acre

51279.10 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land

Approval:

Comments:

Malorie Dirksen

Ag & Environmental Lab Manager

X CROP TECH

601 West 400 North * Angola, Indiana 46703 Phone (260) 668-8900 * Fax (260) 668-8900

ASTBURY Northeast Regional Office

CHAIN OF CUSTODY

Neuse emails results to conflictop techine. Met

5741-536-4837

Sample Temp: 1 7°C Appropriate Preservation: Y / N Y / N Y / N X/N YINIY SO = Na2S2O3 / Sodium Thiosuffe OH = NaOH / Sodium Hydroxide U = Unpreserved, Cooled to 4'C Head Space Absent: AWT-Nero completes TSS, CBODS, BOD, NH3, TP, Écoli Please not if sample(s) suspected to be hazardous, corrosive PRESSERVATEON (CODES) Within Hold Time: SAMPLE CONDITION UPON RECEIPT or requires special handling for any reason Requested due Date: SAMPLE COMMENTS ESG performs other analysis Turn Around Time H = HCI / Hydrochloric Acid S = H2SO4 / Sulfuric Acld N = HNO3 / Nitric Acid Comments Rush Appropriate Containers: Adequate Volume: Received on Ice: (If Applicable) Samples Infact. Storage Temp (If Applicable) Normal Storage Temp (If Applicable) /Temp Blank Analysis Required 項人被其所不可以 /Temp Blank /Temp Blank h2/1/11 28 Received by: DATE/TIME Received by: DATE/TIME Meriwal by: DATE/TIME 8 ... Filtered (Yor N): Preserv. Code Total number of Containers 18-1-11 TRANSFER OF CUSTODY Please note Temperature of On-site Storage y used and Temperature Blank y in Transit. ESG Work Order # 1 19414 SAMPLEID (If Applicable) Storage Temp (If Applicable) (If Applicable) Uigester Storage Temp Terro Blank Temo Blank COMP GRAB MG 05:50 HZ/18/01 CHEAT NAME City of GOSHEM Relinquished by: DATE/TIME Relinquished by: DATE/TIME Relinquished by: DATE/IIME 3 month Cory Bowman 10/81/24 7:00 pm AC-1-11 Stat.No DATE Sampling Frequency Sampler(s) Signature



Brookside Laboratories, Inc. **Analysis Report**

200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen Consultant Name: Crop Tech Inc.

Date Collected:

12/18/2024

Date Received:

12/19/2024

Lab Number:

VE1219008

Location:

BIOSOLIDS

Description:

Sub Description:

	% Dry	% Wet	lbs/Ton	lbs/Ton	lbs/
	<u>Basis</u>	<u>Basis</u>	Dry	Wet	1000 gal
TOTAL SOLIDS	100	2.903	2000	58	

	mg/kg Dry <u>Basis</u>	mg/kg Wet <u>Basis</u>	lbs/Ton <u>Dry</u>	lbs/Ton Wet	lbs/ 1000 gal
ARSENIC	< 2.00	< 0.06	< 0.0040	< 1.1E-4	
CADMIUM	< 0.50	< 0.01	< 0.0010	< 2.9E-5	
CHROMIUM	2.50	0.07	0.0050	1.4E-4	
COPPER	7.60	0.22	0.0152	0.0004	
LEAD	< 5.00	< 0.15	< 0.0100	< 0.0003	
MERCURY	< 0.05	< 0.00	< 1.0E-4	< 2.9E-6	
MOLYBDENUM	< 2.00	< 0.06	< 0.0040	< 1.1E-4	
NICKEL	1.20	0.03	0.0024	6.9E-5	
SELENIUM	< 2.00	< 0.06	< 0.0040	< 1.1E-4	
ZINC	14.20	0.41	0.0284	0.0008	

MAXIMUM AWSAR

2230.00 Dry Ton/Acre

76817.09 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: ARSENIC

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval: Comments:

Malorie Dirksen

Ag & Environmental Lab Manager

Page: 1

⚠ Brookside

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

In order for analysis to be completed correctly, please fill this out this form completely. if you have any questions please contact the laboratory or the environmental manager.

CHAIN OF CUSTODY 1/15

Grad

CLIENT: (14.7)	(-c ; feet) ACCOUNT NO:	- ACCC	N TNUC	١	60213	TEST	METH	TEST METHODS: (IF SPECIFIED)	SPEC	(FIED)		L						
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RELINQUISHED BY:	-				DATE/TIME:	ůi		~	RECEIVED BY:	D BY:		7				DATE	DATE/TIME:	,
MATRIX CODES: DE-drinking water SE-soil	inking wat	ter SE-sc		upu-Si lic	OE-oil 15-industrial solid IL-industrial liquid WE-groundwater UE-wastewater	L-indus	trial liqu	aid WE	-groun(dwater	UE-W	astewa	ter V	-sludg	VE-sludge TE-tissue	issue	XE-fertilizer	



Brookside Laboratories, Inc. **Analysis Report**

200 White Mountain Drive New Bremen, OH 45869 Phone: (419) 977-2766 Fax: (419) 977-2767

Client Number:

60213

Client Name:

City of Goshen Consultant Name: Crop Tech Inc.

Date Collected: Date Received:

03/19/2025 03/25/2025 Lab Number:

VE0325005

Location:

DIGESTER

lbs/

Description:

lbs/Ton

Sub Description:

lbs/Ton

TOTAL SOLIDS	Basis 100	<u>Basis</u> 3.515	<u>Dry</u> 2000	Wet 70	1000 gal
	mg/kg Dry <u>Basis</u>	mg/kg Wet <u>Basis</u>	Ibs/Ton <u>Dry</u>	Ibs/Ton <u>Wet</u>	lbs/ 1000 gal
ARSENIC	< 0.98	< 0.03	< 0.0020	< 6.8E-5	
CADMIUM	< 0.24	< 0.01	< 0.0005	< 1.7E-5	
CHROMIUM	4.20	0.15	0.0084	0.0003	
COPPER	10.94	0.38	0.0219	0.0008	
LEAD	< 2.44	< 0.09	< 0.0049	< 1.7E-4	
MERCURY	< 1.44	< 0.05	< 0.0029	< 1.0E-4	
MOLYBDENUM	1.12	0.04	0.0022	7.8E-5	
NICKEL	2.15	0.08	0.0043	1.5E-4	
SELENIUM	< 0.98	< 0.03	< 0.0020	< 6.8E-5	
ZINC	20.31	0.71	0.0406	0.0014	

% Wet

MAXIMUM AWSAR

613.65 Dry Ton/Acre

% Dry

17457.98 Wet Ton/Acre

(BASED ON POLLUTANT LOADING) LIMITING POLLUTANT: MERCURY

July Bal

PLEASE NOTE: Maximum Annual Whole Sludge Application Rate (AWSAR) is calculated based on Part 503 regulations which were published in Fed. Reg. 2/19/93 and subsequently revised (Fed. Reg. 2/25/94). Each State where the sludge is used may have more stringent requirement based on other factors such as nutrient or hydraulic loading limits. Please use the most restrictive limit when applying sludge to crop land.

Approval:

Comments:

Luke Baker CEO/President

Brookside LABS

Environmental Department 200 White Mountain Dr. New Bremen, OH 45869 (419)977-2766

If you have any questions please contact the laboratory or the environmental manager. In order for analysis to be completed correctly, please fill this out this form completely.

CHAIN OF CUSTODY 41/

Cap Ech

DATE/TIME: 3/25/26 9:300 VE0325005 LAB USE ONLY MATRIX CODES: DE-drinking water SE-soil OE-oil IS-industrial solid IL-industrial liquid WE-groundwater UE-wastewater VE-sludge TE-tissue XE-fertilizer DATE/TIME: None State Samples Collected: IN # AND TYPE OF Other Buttalelemon CONTAINERS OSTH **FONH** HCI / NªOH RECEIVED BY: TEST METHODS: (IF SPECIFIED) RECEIVED BY: COMMENTS: Please return cooler and 1 1000 ML Bottle **TESTS REQUESTED** DATE/TIME: 5/24/25 0500 503 Metals DATE/TIME: FIELD PH ☐ 24 hr Rush (+100%) Cop Tech Inc. C/G MATRIX ACCOUNT NO:60213 INVOICE ADDRESS: KE 3 Day (+50%) Date Needed: SAMPLED BY: QUOTE NO: Q P.O. NO: ATTN: 0730 TURNAROUND TIME (additional fees) TIME RELINQUISHED BY: Cay Conned 3/19/25 ☐Level 3 ☐ Level 4 ☐Other DATE Level 1 Level 2 Standard (none) CLIENT: City of Goshen RELINQUISHED BY: ATTN: Jim Kerezman QC DELIVERABLES: REPORT ADDRESS: Digester PHONE NO: SAMPLE ID **EMAIL:**

ATTACHMENT - E

ANNUAL MERCURY REPORTS

Jim Kerezman, Superintendent WASTEWATER UTILITY, CITY OF GOSHEN

1000 West Wilden Avenue • Goshen, IN 46528-2532

Phone (574) 534-4003 • Fax (574) 534-4350 • TDD (574) 534-3185 wastewater@goshencity.com • www.goshenindiana.org

06/25/2021

IN0025755

IDEM OWQ-Mail Code 65-42 Compliance Data Section 100 North Senate Avenue Indianapolis, IN 46204-2251

RE: POLLUTION MINIMIZATION PROGRAM PLAN - ANNUAL REPORT

The City of Goshen's Annual Mercury Pollutant Minimization Program Report for 2020-2021 is submitted in accordance with 327 IAC 5-3.3-9.

Process Control

Currently, no known Mercury bearing controls or measuring equipment exist at the WWTP or sewage pump stations.

Chemicals

Bulk chemicals were analyzed for Hg in 2008 such as Ferric Chloride, Sodium Bisulfite and Sodium Hypochlorite. Low levels of mercury were found in the sodium hypochlorite and ferric chloride. The City's annual Chemical Bid packet includes language for Mercury Free or Mercury Reduced chemicals. However, some laboratories will not analyze Ferric or Hypochlorite due to the damage it may cause to the analytical equipment.

Lighting

2020 - The lighting replacement program at the wastewater treatment plant is completed. All lighting at the wwtp are LEDs.

Collection System

Sewers are televised and cleaned on a continuous basis using two Sewer Vactors and one TVI vehicle. The City has approximately 130 miles of sanitary and combined sewers to maintain.

Mercury Ordinance

On March 12, 2018, the City of Goshen passed ordinance 4941 – Regulate the Discharge of Mercury by Dental Practices, which requires all dental clinics to install and maintain amalgam separators by the end on 2018.

ALL dental clinics are in compliance with the installation of amalgam separators as of December 2018.

All dental clinics have submitted a One-Time Compliance Report to comply with 40 CFR 441.50.

Mercury Results

The following mercury samples were collected in 2016 - 2021. These sampling sites contain flows from Dental/Medical Clinics, Domestic Background and Metal Finishing.

2016

Sample Date	Results (ng/l)
	505
	16.0
	15.1
	635
	14.5
	37.6
	3150
	892
06/13/16	34.4
08/16/16	3980
08/16/16	391
08/16/16	30900
08/16/16	7020
08/16/16	4520
08/16/16	13.2
10/27/16	8.11
10/27/16	2890
	7900
	19
	53
	102000
	03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 06/13/16 08/16/16 08/16/16 08/16/16 08/16/16

	2017	
Location	Sample Date	Results (ng/l)
Aegis Dental	10/12/17	141
Barker DDS	10/12/17	4180
Keller DDS	10/12/17	191
CR 27 (Stutsman & Beachy)	10/12/17	7290

Location	Sample Date	Results (ng/l)
Goshen Family Dentistry	04/12/18	172
Judd DDS	04/12/18	100
CR 27 (Stutsman & Beachy)	04/12/18	5910
ABG Dental	08/09/18	487
Aspen Dental	08/09/18	16000
Stanley DDS	08/09/18	4530

Location	Sample Date	Results (ng/l)
Aegis Dental	04/11/19	724
Family Dentistry (Richmond)	04/11/19	4540
Judd DDS	04/11/19	532000
Keller DDS	04/11/19	301
Hospital Lift Station	06/07/19	2.76

Location	Sample Date	Results (ng/l)
Grant Street (Domestic)	08/12/2020	26
Hospital Lift Station	08/12/2020	112
12th St Lift Station (Industrial Park)	08/12/2020	21.8
Shasta Drive (Commercial/Industrial)	08/12/2020	53.8

Location	Sample Date	Results (ng/l)
Starcraft Lift Station (Industrial Park)	04/27/2021	22
CR 21 and SR 119 (Medical)	04/27/2021	50.4
Middle School and Residential	04/27/2021	524
Bashor Lift Station (Commercial/Residential)	04/27/2021	9.9
Indiana and WWDF	04/27/2021	15.3

Plant Influ	ent and Effluent	2018 - 2021
Date	Influent (ng/l)	Effluent (ng/l)
02/02/2018	206	1.06
04/12/2018	18.6	1.75
06/07/2018	42.9	1.16
08/09/2018	457	1.39
10/11/2018	24	2.28
12/13/2018	57.9	1.77
02/14/2019	35	1.2
04/11/2019	59.5	0.75
06/07/2019	12.0	0.561
08/29/2019	46.5	0.75
10/17/2019	4.74	1.3
12/11/2019	25	0.99
02/20/2020	24.4	0.949
04/14/2020	20.6	0.95
06/11/2020	23.7	2.64
08/12/2020	1150	1.51
10/15/2020	31.9	1.94
12/10/2020	296	0.88
02/23/2021	28.2	1.29
04/27/2021	100	0.86

With the dental clinics in compliance with ordinance 4941 and the One-Time Compliance Report to comply with 40 CFR 441.50, we are focusing our sampling on other areas of the city, such as, veterinary clinics, medical facilities and areas with spikes in mercury. Our goal is to sample all areas of the city in the next 5 years. We are committed on finding and reducing sources of mercury in the City of Goshen.

Respectfully submitted,

Jim Kerezman Superintendent

Jim Kerezman, Superintendent WASTEWATER UTILITY, CITY OF GOSHEN

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06/24/2022

IN0025755

IDEM OWQ-Mail Code 65-42 Compliance Data Section 100 North Senate Avenue Indianapolis, IN 46204-2251

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Mercury Results

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2018

Location	Sample Date	Results (ng/l)
Goshen Family Dentistry	04/12/18	172
Judd DDS	04/12/18	100
CR 27 (Stutsman & Beachy)	04/12/18	5910
ABG Dental	08/09/18	487
Aspen Dental	08/09/18	16000
Stanley DDS	08/09/18	4530

2019

		T
Location	Sample Date	Results (ng/l)
Aegis Dental	04/11/19	724
Family Dentistry (Richmond)	04/11/19	4540
Judd DDS	04/11/19	532000
Keller DDS	04/11/19	301
Hospital Lift Station	06/07/19	2.76

2020

Location	Sample Date	Results (ng/l)
Grant Street (Domestic)	08/12/2020	26
Hospital Lift Station	08/12/2020	112
12th St Lift Station (Industrial Park)	08/12/2020	21.8
Shasta Drive (Commercial/Industrial)	08/12/2020	53.8

Location	Sample Date	Results (ng/l)
Starcraft Lift Station (Industrial Park)	04/27/2021	22
CR 21 and SR 119 (Medical)	04/27/2021	50.4
Middle School and Residential	04/27/2021	524
Bashor Lift Station (Commercial/Residential)	04/27/2021	9.9

Indiana and WWDF	04/27/2021	15.3
CR 21 (Medical)	06/22/2021	33.8
Professional Drive (Medical)	06/22/2021	30.4
Goshen Animal Clinic	06/22/2021	326
CR 27 Roundabout (Medical)	06/22/2021	241
Plymouth/US 33	06/22/2021	10.4
Grant Street (Residential)	06/22/2021	4.21
Grant Street (Residential)	08/31/2021	4.83
Bearcat	10/13/2021	1.7
DFA	10/13/2021	146
Gleason Reynolds	10/13/2021	2.35
Gleason Monroe	10/13/2021	9.27

2022

Location	Sample Date	Results (ng/l)
Grant Street (Residential)	02/21/2022	18.6
CR 38 Lift Station (Industrial)	02/21/2022	186
Kercher Lift Station	02/21/2022	45.1
12th Street Lift Station	02/21/2022	17.4
Greencroft	02/21/2022	20.7

Plant Influent and Effluent 2018 - 2022

Date	Influent (ng/l)	Effluent (ng/l)
02/02/2018	206	1.06
04/12/2018	18.6	1.75
06/07/2018	42.9	1.16
08/09/2018	457	1.39
10/11/2018	24	2.28
12/13/2018	57.9	1.77
02/14/2019	35	1.20
04/11/2019	59.5	0.75
06/07/2019	12.0	0.561
08/29/2019	46.5	0.75
10/17/2019	4.74	1.30
12/11/2019	25	0.99
02/20/2020	24.4	0.949
04/14/2020	20.6	0.95
06/11/2020	23.7	2.64
08/12/2020	1150	1.51
10/15/2020	31.9	1.94
12/10/2020	296	0.88
02/23/2021	28.2	1.29
04/27/2021	100	0.86
06/22/2021	27.8	1.43
08/30/2021	31.8	1.30
10/13/2021	36.1	2.92
12/14/2021	46.1	1.74

02/24/2022	12.4	0.80
04/27/2022	22.4	1.34

With the dental clinics in compliance with ordinance 4941 and the One-Time Compliance Report to comply with 40 CFR 441.50, we are focusing our sampling on other areas of the city, such as, veterinary clinics, medical facilities and areas with spikes in mercury. Our goal is to sample all areas of the city in the next 5 years. We are committed on finding and reducing sources of mercury in the City of Goshen.

Respectfully submitted,

Jim Kerezman Superintendent

Jim Kerezman, Superintendent WASTEWATER UTILITY, CITY OF GOSHEN

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06/27/2023

IN0025755

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Process Control

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Chemicals

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Mercury Results

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2021

202	l .	,
Location	Sample Date	Results (ng/l)
Starcraft Lift Station (Industrial Park)	04/27/2021	22
CR 21 and SR 119 (Medical)	04/27/2021	50.4
Middle School and Residential	04/27/2021	524
Bashor Lift Station (Commercial/Residential)	04/27/2021	9.9
Indiana and WWDF	04/27/2021	15.3
CR 21 (Medical)	06/22/2021	33.8
Professional Drive (Medical)	06/22/2021	30.4
Goshen Animal Clinic	06/22/2021	326
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Plymouth/US 33	06/22/2021	10.4
Grant Road - (Residential)	06/22/2021	4.21
Grant Road - (Residential)	08/31/2021	4.83
Bearcat	10/13/2021	1.7
DFA	10/13/2021	146
Gleason Reynolds	10/13/2021	2.35
Gleason Monroe	10/13/2021	9.27

	2022	
Location	Sample Date	Results (ng/l)
Grant Road - (Residential)	02/21/2022	18.6
CR 38 Lift Station (Industrial)	02/21/2022	186
Kercher Lift Station	02/21/2022	45.1
12th Street Lift Station	02/21/2022	17.4
Greencroft	02/21/2022	20.7
Burdick Lift Station	06/23/2022	43.9
DFA	08/11/2022	143
Aegis Dental	10/24/2022	3.41
Grant Road – (Residential)	10/24/2022	39.3
Linway Plaza	10/24/2022	7
DFA	10/24/2022	145
DIA		

Berkshire & CR 27	10/24/22022	173
DFA	12/15/2022	70.7

2023

Location	Sample Date	Results (ng/l)
DFA	02/23/2023	25.8
Meijer Lift Station	02/23/2023	9.71
Bearcat	02/23/2023	1.44
Grant Road – (Residential)	02/23/2023	11.2
Johnston & Michigan	04/24/2023	8.22
DFA	04/24/2023	24.7
Bashor & CR 17	04/24/2023	42.7
CR 21 & SR 119	04/24/2023	9.33
Midway Lift Station	06/20/2023	8.24
Grant Road – (Residential)	06/20/2023	16.7
DFA – (Dairy Farmers of America)	06/20/2023	34.5
CR 38 Lift Station	06/20/2023	13.2
Century Drive Lift Station	06/20/2023	27.7

Plant Influent and Effluent 2018 - 2023

Date	Influent (ng/l)	Effluent (ng/l)
02/02/2018	206	1.06
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02/14/2019	35	1.20
04/11/2019	59.5	0.75
06/07/2019	12.0	0.561
08/29/2019	46.5	0.75
10/17/2019	4.74	1.30
12/11/2019	25	0.99
02/20/2020	24.4	0.949
04/14/2020	20.6	0.95
06/11/2020	23.7	2.64
08/12/2020	1150	1.51
10/15/2020	31.9	1.94
12/10/2020	296	0.88
02/23/2021	28.2	1.29
04/27/2021	100	0.86
06/22/2021	27.8	1.43
08/30/2021	31.8	1.30
10/13/2021	36.1	2.92
12/14/2021	46.1	1.74

02/24/2022	12.4	0.80
04/27/2022	22.4	1.34
06/23/2022	17.2	1.13
08/11/2022	20.9	3.43
10/24/2022	23.1	1.02
12/15/2022	24.5	1.55
02/23/2023	16.3	3.26
04/24/2023	19.10	1.02
06/20/2023	13.2	1.14

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06/21/2024

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IDEM OWQ-Mail Code 65-42 Compliance Data Section 100 North Senate Avenue Indianapolis, IN 46204-2251

RE: POLLUTION MINIMIZATION PROGRAM PLAN - ANNUAL REPORT

The City of Goshen's Annual Mercury Pollutant Minimization Program Report for 2023-2024 is submitted in accordance with 327 IAC 5-3.3-9.

Process Control

Currently, no known Mercury bearing controls or measuring equipment exist at the WWTP or sewage pump stations.

Chemicals

Bulk chemicals were analyzed for Hg in 2008 such as Ferric Chloride, Sodium Bisulfite and Sodium Hypochlorite. Low levels of mercury were found in the sodium hypochlorite and ferric chloride. The City's annual Chemical Bid packet includes language for Mercury Free or Mercury Reduced chemicals. However, some laboratories will not analyze Ferric or Hypochlorite due to the damage it may cause to the analytical equipment.

Lighting

2020 – The lighting replacement program at the wastewater treatment plant is completed. All lighting at the wwtp are LEDs.

Collection System

Sewers are televised and cleaned on a continuous basis using two Sewer Vactors and one TVI vehicle. The City has approximately 130 miles of sanitary and combined sewers to maintain.

Mercury Ordinance

On March 12, 2018, the City of Goshen passed ordinance 4941 – Regulate the Discharge of Mercury by Dental Practices, which requires all dental clinics to install and maintain amalgam separators by the end on 2018.

ALL dental clinics are in compliance with the installation of amalgam separators as of December 2018.

All dental clinics have submitted a One-Time Compliance Report to comply with 40 CFR 441.50.

Mercury Results

The following mercury samples were collected in 2022 - 2024. These sampling sites contain flows from Dental/Medical Clinics, Domestic Background and Metal Finishing.

2022

Location	Sample Date	Results (ng/l)
Grant Road - (Residential)	02/21/2022	18.6
CR 38 Lift Station (Industrial)	02/21/2022	186
Kercher Lift Station	02/21/2022	45.1
12 th Street Lift Station	02/21/2022	17.4
Greencroft	02/21/2022	20.7
Burdick Lift Station	06/23/2022	43.9
DFA	08/11/2022	143
Aegis Dental	10/24/2022	3.41
Grant Road – (Residential)	10/24/2022	39.3
Linway Plaza	10/24/2022	7
DFA	10/24/2022	145
Berkshire & CR 27	10/24/2022	173
DFA	12/15/2022	70.7
		·

Location	Sample Date	Results (ng/l)
DFA	02/23/2023	25.8
Meijer Lift Station	02/23/2023	9.71
Bearcat	02/23/2023	1.44
Grant Road – (Residential)	02/23/2023	11.2
Johnston & Michigan	04/24/2023	8.22
DFA	04/24/2023	24.7
Bashor & CR 17	04/24/2023	42.7
CR 21 & SR 119	04/24/2023	9.33
Midway Lift Station	06/20/2023	8.24
Grant Road – (Residential)	06/20/2023	16.7
DFA – (Dairy Farmers of America)	06/20/2023	34.5
CR 38 Lift Station	06/20/2023	13.2
Century Drive Lift Station	06/20/2023	27.7

Location	Sample Date	Results (ng/l)
Grant Drive – (Residential)	08/21/2023	21.8
Bashor Lift Station	08/21/2023	18.2
Johnston & Michigan Street	08/21/2023	29.0
DFA – (Dairy Farmers of America)	08/21/2023	21.8
Midway Lift Station	10/23/2023	27.9
Grant Drive – (Residential)	10/23/2023	33.8
DFA – (Dairy Farmers of America)	10/23/2023	264.0
Green & Lincoln	10/23/2023	346.0
Hospital Lift Station	10/23/2023	23.7
Grant Drive – (Residential)	12/14/2023	10.9
CR 21 & SR 119	12/14/2023	15.1
DFA – (Dairy Farmers of America)	12/14/2023	32.2
Gleason – Reynolds Street	12/14/2023	0.967
Gleason - Monroe Street	12/14/2023	2.33
Deirdorff Road	12/14/2023	3840.0
CR 38 Lift Station	12/14/2023	8.8

Location	Sample Date	Results (ng/l)
Grant Drive – (Residential)	02/26/2024	6.86
DFA – (Dairy Farmers of America)	02/26/2024	23.3
Johnston & Michigan Street	02/26/2024	23.8
12 th Street Lift Station	02/26/2024	18.4
Millers Poultry	02/26/2024	34.4
Millers/SR 15	02/26/2024	16.1
DFA – (Dairy Farmers of America)	04/25/2024	13.7
Grant Drive – (Residential)	04/25/2024	10.2
Ashton Pines	04/25/2024	10.6
Parker Han	04/25/2024	0.93

Plant Influent and Effluent 2022 - 2024

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Date	Influent (ng/l)	Effluent (ng/l)
02/24/2022	12.4	0.80
04/27/2022	22.4	1.34
06/23/2022	17.2	1.13
08/11/2022	20.9	3.43
10/24/2022	23.1	1.02
12/15/2022	24.5	1.55
02/23/2023	16.3	3.26
04/24/2023	19.1	1.02
06/20/2023	13.2	1.14
08/21/2023	19.0	1.86
10/23/2023	87.0	1.48
12/14/2023	21.1	0.79
02/26/2024	13.4	<mark>55.2</mark>

04/25/2024	8.3	0.66
04/25/2024	Split sample	1.46

The effluent Mercury sample collected on 02/26/2024 with a result of 55.2 ng/l cannot be explained. I contacted the laboratory for verification, and they stood by this result. We are currently splitting samples between 2 laboratories and averaging the results per IDEM's instruction. We will continue splitting the effluent samples and recording the averages on the MROs. It is interesting to see that even 2 separate laboratories can vary more than doubling the other.

With the dental clinics in compliance with Ordinance 4941 and the One-Time Compliance Report to comply with 40 CFR 441.50, we are focusing our sampling on other areas of the city, such as, veterinary clinics, medical facilities and areas with spikes in mercury. Our goal is to sample all areas of the city in the next 5 years. We are committed on finding and reducing sources of mercury in the City of Goshen.

Respectfully submitted,

Jim Kerezman Superintendent



Jim Kerezman, Superintendent WASTEWATER UTILITY, CITY OF GOSHEN

1000 West Wilden Avenue • Goshen, IN 46528-2532

Phone (574) 534-4003 • Fax (574) 534-4350 • TDD (574) 534-3185 wastewater@goshencity.com • www.goshenindiana.org

06/09/2025

IN0025755

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DFA	04/24/2023	24.7
Bashor & CR 17	04/24/2023	42.7
CR 21 & SR 119	04/24/2023	9.33
Midway Lift Station	06/20/2023	8.24
Grant Road – (Residential)	06/20/2023	16.7
DFA – (Dairy Farmers of America)	06/20/2023	34.5
CR 38 Lift Station	06/20/2023	13.2
Century Drive Lift Station	06/20/2023	27.7
Grant Drive – (Residential)	08/21/2023	21.8
Bashor Lift Station	08/21/2023	18.2
Johnston & Michigan Street	08/21/2023	29.0
DFA – (Dairy Farmers of America)	08/21/2023	21.8
Midway Lift Station	10/23/2023	27.9
Grant Drive – (Residential)	10/23/2023	33.8
DFA – (Dairy Farmers of America)	10/23/2023	264.0
Green & Lincoln	10/23/2023	346.0
Hospital Lift Station	10/23/2023	23.7
Grant Drive – (Residential)	12/14/2023	10.9
CR 21 & SR 119	12/14/2023	15.1
DFA – (Dairy Farmers of America)	12/14/2023	32.2
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Johnston & Michigan Street	02/26/2024	23.8
12th Street Lift Station	02/26/2024	18.4
Millers Poultry	02/26/2024	34.4
Millers/SR 15	02/26/2024	16.1
DFA – (Dairy Farmers of America)	04/25/2024	13.7
Grant Drive – (Residential)	04/25/2024	10.2
Ashton Pines	04/25/2024	10.6
Parker Han	04/25/2024	0.93
Grant Drive – (Residential)	08/20/2025	49.8
Bashor	08/20/2025	8.61
Middle School	08/20/2025	13.4
DFA	08/20/2025	30.2
Grant Drive – (Residential)	10/22/2024	11.5
DFA	10/22/2024	59.8
Grant Drive – (Residential)	12/17/2024	8.08
Gleason - Monroe	12/17/2024	0.68
Gleason - Reynolds	12/17/2024	1.22

Location	Sample Date	Results (ng/l)
Grant Drive – (Residential)	04/23/2025	14.9
Midway Lift Station	04/23/2025	60.2
Green and Lincoln	04/23/2025	588.0

Plant Influent and Effluent 2022 – 2025

Date	Influent (ng/l)	Effluent (ng/l)
02/24/2022	12.4	0.80
04/27/2022	22.4	1.34
06/23/2022	17.2	1.13
08/11/2022	20.9	3.43
10/24/2022	23.1	1.02
12/15/2022	24.5	1.55
02/23/2023	16.3	3.26
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06/20/2023	13.2	1.14
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12/14/2023	21.1	0.79
02/26/2024	13.4	<mark>55.2</mark>
04/25/2024	8.3	0.66
04/25/2024	Split sample	1.46
06/20/2024	25.7	1.01
06/20/2024	Split sample	1.42
08/20/2024	25.5	0.73
10/22/2024	15.2	0.73
12/17/2024	20.7	0.74
02/17/2025	9.07	0.73
02/17/2025	Split sample	2.14
04/23/2025	14.8	2.23
04/23/2025	Split sample	1.70

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Respectfully submitted,

Jim Kerezman Superintendent

ATTACHMENT - F

MERCURY ORDINANCE 4941

ORDINANCE 4941

Amend Ordinance 4625, Pretreatment Requirements and Standards, to Regulate the Discharge of Mercury by Dental Practices

WHEREAS Ordinance 4625, Pretreatment Requirements and Standards, was adopted February 23, 2011.

WHEREAS Goshen's wastewater eventually enters the Great Lakes, and the US Environmental Protection Agency and Indiana Department of Environmental Management have imposed a stringent mercury discharge limit upon all Great Lake dischargers to no more than 1.3 ng/L.

WHEREAS Goshen has been granted a temporary variance from the mercury level limit under its federal NPDES discharge permit to examine the mercury sources entering the wastewater collection system and to implement strategies in order to come into compliance with the mercury discharge limit.

WHEREAS it was discovered after sampling throughout Goshen's wastewater collection system that sewer lines from dental practices had extremely high levels of mercury ranging from 216 ng/L to 1,020,000 ng/L.

WHEREAS the EPA promulgated pre-treatment standards to reduce discharges of mercury from dental offices, but such standards do not take effect until July 14, 2020.

WHEREAS in order to reduce the amount of mercury discharged into Goshen's wastewater collection system, it is necessary for the City to implement a mercury reduction plan which will require dental practices to implement Best Management Practices (BMPs) that include inspections, compliance and enforcement procedures.

NOW, THEREFORE, BE IT ORDAINED by the Goshen Common Council that Ordinance 4625, Pretreatment Requirements and Standards, shall be amended as follows:

SECTION 1 Dental Practices

Ordinance 4625, Section 4, Pretreatment Requirements, shall be amended by adding the following new section:

4.09 Dental Practices.

- (A) For the purposes of this ordinance, any dental facility or other commercial facility performing or associated with dental work shall be referred to as a "Dental Practice."
- (B) A Dental Practice that handles mercury or products containing mercury, or otherwise removes or places amalgam fillings, shall properly install, operate, and maintain according to manufacturer's recommendations an appropriately sized amalgam separator that has an efficiency removal rate of at least ninety-nine percent (99%), certified to current, applicable standards, as well as chair-side traps to capture amalgam. Dental Practices shall provide to the Superintendent, upon request, a certification that the installation, operation, and maintenance of the amalgam separator is in accordance with the amalgam separator manufacturer's recommendations, ISO 11143, and/or Best Management Practices.

- (C) A Dental Practice that handles mercury or products containing mercury, or otherwise removes or places amalgam fillings, shall be subject to, and must comply with, monitoring, inspection, reporting, and other requirements found in Best Management Practices and City of Goshen Mercury Reduction Plan for Dental Practices as developed by the Superintendent.
- (D) A Dental Practice shall report to the Superintendent the model and size of its amalgam separator within ninety (90) days after installation of the separator.
- (E) Any new construction of a Dental Practice shall include a sampling manhole, with a sampling port to allow testing of the Dental Practice's waste discharges.
- (F) A Dental Practice shall maintain on-site records of the operation, maintenance, and recycling or disposal of amalgam waste for the previous three (3) years.
- (G) A Dental Practice that does not handle mercury or products containing mercury, or otherwise remove or place amalgam fillings, can petition the Goshen Board of Public Works and Safety for an exemption from the requirements of this section.
- (H) The following types of Dental Practice are exempt from this section 4.09, provided that removal or placement of amalgam fillings occurs at the facility no more than 3 times per year: (1) Orthodontics; (2) Periodontics; (3) Oral and maxillofacial surgery; (4) Radiology; (5) Oral pathology or oral medicine; (6) Endodontistry, and prosthodontistry.

SECTION 2. Definitions

The definition of Best Management Practices set forth in Section 15.04 of Ordinance 4625, Section 15, Definitions and Abbreviations, shall be amended to read as follows:

15.04 Best Management Practices (BMPs). Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in 40 C.F.R. § 403.5(a)(1) and (b), and sections 3 and 4 of this ordinance, except the BMPs required for Dental Practices shall include those practices set forth in City of Goshen Mercury Reduction Plan for Dental Practices. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage. BMPs also include alternative means (i.e., management plans) of complying with, or in place of certain established categorical pretreatment standards and effluent limits.

SECTION 3. Effective Date

This ordinance shall be in full force and effect from and after its passage, approval and adoption according to the laws of the State of Indiana.

PASSED by the Goshen Common Council on 1 but 6, 20

Presiding Officer

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Clerk-Treasurer

PRESENTED to the Mayor of the City of Goshen at 8:45 a.m./p.m. on Narch 12,

APPROVED and ADOPTED on March 12, 2018.

City of Goshen Mercury Reduction Plan for Dental Practices (Best Management Practices)

Prepared by the City of Goshen for the control of mercury discharged by dental offices to the sanitary collection system.

January 11, 2018

Introduction

The City of Goshen Mercury Reduction Plan for Dental Practices, Best Management Practices (BMPs) for Dental Practices are designed to comply with environmental regulations, to prevent pollution, and to assist Dental Practices in the proper management of products containing mercury and amalgam waste in their day-to-day activities. This document contains a set of required and recommended operating procedures and guidelines designed to reduce the amount of mercury discharged to the City of Goshen sanitary sewer system, a publicly owned treatment works (POTW). Proper implementation of these procedures is intended to protect Indiana's natural environment from the discharge of hazardous mercury-containing compounds.

BMP #1 - Disposal

Waste amalgam including, but not limited to, dental amalgam from chair-side traps, screens, vacuum pump filters, dental tools, cuspidors, or collection devices, must not be discharged to a POTW. Dental Practices shall designate all sinks as "Sanitary Use Only – No Chemical or Amalgam Disposal" to eliminate cleaning of amalgam-contaminated instruments in the sink. Waste amalgam shall be collected, packaged, labeled, stored, and managed in accordance with applicable law and disposed of by a licensed recycler or hauler of such materials. Dental Practices shall never discard elemental mercury or amalgam in any sink or drain, sharps container, biohazard waste bag (red bag), or trash. Each Dental Practice shall follow the requirements of a licensed amalgam handler or recycler for the storage, disinfection, labeling, packaging, and shipping of scrap amalgam.

BMP #2 - Amalgam Retention Equipment and Maintenance

Dental Practices shall maintain and clean chair-side amalgam traps, vacuum pump filter, and amalgam separators as recommended by the equipment manufacturer. No person shall rinse chairside traps, vacuum screens, or amalgam separator equipment in a sink or other connection to the sanitary sewer. Dental unit water lines, chair-side traps, vacuum lines, and amalgam separators that discharge amalgam process wastewater to the POTW must not be cleaned with oxidizing or acidic cleaners, including but not limited to bleach, chlorine, iodine and peroxide that have a pH lower than 6 or greater than 8. A malfunctioning amalgam separator must be repaired or replaced no later than ten days after the malfunction occurs. Every amalgam separator must be replaced every ten years, or at the end of the separator's life, whichever occurs first.

BMP #3 - Storage

Never store amalgam waste under any liquid. Store all amalgam waste dry in a properly labeled, air-tight container. Dispose of any liquids used to disinfect contact amalgam as hazardous. These cannot be discharged to the sewer system.

BMP #4 - Environmental Release

Plumbing Replacement and Repairs: After a Dental Practice adopts its new amalgam management practices, the Dental Practice shall clean or replace sink traps and its service lateral. Mercury from past activity often settles at low points such as sink traps and sumps. The slow dissolution of the mercury in a sink trap or sump can release mercury into the City of Goshen sanitary sewer for years after past disposal practices have been corrected. When plumbing parts are removed or cleaned, caution should be taken to avoid spilling the contents in case amalgam or mercury is present. Pour and brush out the sludge and handle it as if it were contact amalgam, or have it discarded as hazardous waste.

Spills: Do not handle mercury or mix amalgam in carpeted areas because it is very difficult to collect all of the contaminants if there is a spill. In the event of a mercury spill, put on nitrile gloves (do not use latex gloves as mercury can penetrate latex) along with other appropriate proper protective equipment and clean it up immediately using a mercury spill kit. Never clean up a mercury spill using a vacuum cleaner as this has the potential to spread mercury dust and/or vapor throughout the area in the vacuum exhaust. Train staff members in proper spill cleaning procedures.

BMP #5 - Records Requirements

Dental Practices shall maintain a written or electronic log of all of the following:

- Records that document the specifications, installation, operation, cleaning, and
 maintenance records for the amalgam separator, vacuum system, and chair-side traps
 in accordance with the manufacturer's recommendations, ISO 11143, and/or best
 management practices.
- Documentation of the initial cleaning event, including identification of who performed the cleaning, how waste was disposed, and similar information.
- Records that document the disposal or recycling of the waste amalgam, including date sent off site, the name and address of the company receiving the waste.
- Purchasing records of the non-oxidizing cleaner.
- Employee sign-in sheet and training certification letter for BMP training for all employees.

These documents must be kept on file for at least three years, and must be made available to authorized City of Goshen inspectors upon request.

BMP #6 - Training

Dental Practices shall train all staff who may handle or come into contact with mercury or mercury-containing materials on the following topics:

- o Why mercury is a pollutant of concern.
- The effects of mercury in the city collection system.
- The effects of mercury in the environment.
- The materials in the dental facility that contain mercury.
- How the amalgam separator works.
- o How to operate, maintain, and clean the amalgam separator system.
- The proper storage, handling, management, and disposal of mercury and mercurycontaining material and fixer-containing solutions.
- How to properly recycle mercury.

Proper knowledge and handling of mercury and amalgam is vital to preventing accidental exposure and release of hazardous materials into the environment. A proper training program must include all of the City of Goshen Best Management Practices. Anyone who handles or has the potential to come into contact with mercury-containing materials must be trained in these BMPs for proper mercury/amalgam waste handling requirements.