

Application Type Amendment, Major
Facility Type Municipal
Major / Minor Major

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0028487 A-1
APS ID 1126192
Authorization ID 1507342

Applicant and Facility Information

Applicant Name	<u>Hermitage Municipal Authority</u>	Facility Name	<u>Hermitage Municipal Authority STP</u>
Applicant Address	<u>800 North Hermitage Road</u> <u>Hermitage, PA 16148</u>	Facility Address	<u>2133 Broadway Road</u> <u>Hermitage, PA 16148-9009</u>
Applicant Contact	<u>Wayne Covert (wcovert@hermitage.net)</u>	Facility Contact	<u>Wayne Covert (wcovert@hermitage.net)</u>
Applicant Phone	<u>(724) 347-4941</u>	Facility Phone	<u>(724) 347-4941</u>
Client ID	<u>62690</u>	Site ID	<u>263151</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Hermitage City</u>
Connection Status	<u>Dept. Imposed Connection Prohibitions</u>	County	<u>Mercer</u>
Date Application Received	<u>November 18, 2024</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>November 21, 2024</u>	If No, Reason	<u>Major Facility, Pretreatment</u>
Purpose of Application	<u>Amendment of an existing NPDES Permit to remove permit limits based on new sampling data.</u>		

Summary of Review

Act 14 - Proof of Notification was submitted and received.
A Part II Water Quality Management permit is not required at this time.
The applicant should be able to meet the limits of this permit, which will continue to protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:	SPECIAL CONDITIONS:
A. Stormwater into sewers	II. POTW Pretreatment Program Implementation
B. Right of way	III. Solids Management
C. Solids handling	IV. Whole Effluent Toxicity (WET)
D. Effluent Chlorine Optimization and Minimization	V. Requirements Applicable to Stormwater Outfalls
E. Batch discharges	
F. Ultraviolet (UV) Light Disinfection Reporting	

There are 7 open violations in efacts associated with the subject Client ID 62690 as of 6/5/2025 (see Attachment 1).

Approve	Deny	Signatures	Date
X		Stephen A. McCauley	6/5/2025
		Stephen A. McCauley, E.I.T. / Project Manager	
X		Adam Olesnanik	6/6/2025
		Adam Olesnanik, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>7.7</u>
Latitude	<u>41° 11' 31.05"</u>	Longitude	<u>-80° 28' 10.92"</u>
Quad Name	<u>-</u>	Quad Code	<u>-</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Shenango River (WWF)</u>	Stream Code	<u>35482</u>
NHD Com ID	<u>130033642</u>	RMI	<u>23.4</u>
Drainage Area	<u>710</u>	Yield (cfs/mi ²)	<u>0.16 (Sharpsville 03103500)</u>
Q ₇₋₁₀ Flow (cfs)	<u>113.6</u>	Q ₇₋₁₀ Basis	<u>Calculated</u>
Elevation (ft)	<u>836</u>	Slope (ft/ft)	<u>0.000076</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>Metals and Polychlorinated Biphenyls (PCBs)</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status	<u>PCBs - Final (4/9/2001)</u> <u>Metals - Pending</u>	Name	<u>Shenango River</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>116.1</u>		<u>Shenango River TMDL</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Pennsylvania American Water Company - New Castle</u>		
PWS Waters	<u>Shenango River</u>	Flow at Intake (cfs)	<u>100</u>
PWS RMI	<u>5.1</u>	Distance from Outfall (mi)	<u>18.0</u>

Based on the sampling data submitted by the Permittee (see Attachment 2), and a Reasonable Potential Analysis using the Department's Toxics Management Spreadsheet (see Attachment 3), there is no reasonable potential for Total Cadmium, Total Mercury, 4,4-DDD, 4,4-DDT, or 4,4-DDE. Therefore, the limitations previously set for those parameters will be removed with this amendment. Based on 40 CFR §122.44(l)(i)(B)(1), this amendment is exempt from Anti-backsliding.

In addition, since the final limits for Dissolved Oxygen have already become effective, the interim limits and the special condition for Dissolved Oxygen is being removed with this amendment.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the Pennsylvania Bulletin in accordance with 25 Pa. Code § 92a.82. Upon publication in the Pennsylvania Bulletin, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the Pennsylvania Bulletin at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Compliance History

DMR Data for Outfall 001 (from April 1, 2024 to March 31, 2025)

Parameter	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24
Flow (MGD) Average Monthly	3.62	4.89	3.54	4.35	3.28	2.72	3.04	3.22	2.79	2.90	3.74	5.97
Flow (MGD) Weekly Average	4.46	5.52	5.56	5.25	4.19	3.46	4.79	5.10	3.07	3.05	4.07	8.48
pH (S.U.) Instantaneous Minimum	6.70	6.71	6.81	6.63	6.76	6.81	6.61	6.72	6.68	6.70	6.61	6.62
pH (S.U.) Instantaneous Maximum	7.16	7.40	7.35	7.40	7.48	7.44	7.44	7.35	7.61	7.09	7.06	7.08
DO (mg/L) Instantaneous Minimum	4.50	6.21	8.02	4.49	4.30	5.23	4.19	4.31	5.24	5.49	4.81	4.07
CBOD5 (lbs/day) Average Monthly	< 96.0	< 125	< 93.0	< 232	< 82	< 68	< 84.0	< 85.0	< 88.0	< 77.0	< 107	< 199
CBOD5 (lbs/day) Weekly Average	< 113.0	< 146	< 151	587	< 105	< 87	< 139.0	< 148.0	< 156.0	< 91.0	< 123	< 294
CBOD5 (mg/L) Average Monthly	< 3.0	< 3.0	< 3.0	< 6.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 4.0
CBOD5 (mg/L) Weekly Average	< 4.0	< 3.0	< 3.0	< 13.0	< 3.0	< 3.0	< 4.0	< 4.0	< 5.0	< 4.0	< 4.0	< 5.0
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	3479	3510	3541	3824	3507	3436	4073	5292	3805	5156	4957	4945
BOD5 (mg/L) Raw Sewage Influent Average Monthly	119	89.0	126.0	110.0	137	150	184.0	205	164.0	215.0	163.0	121.0
TSS (lbs/day) Average Monthly	96.0	136	77	300	63	41.0	68.0	71.0	158	60.0	83	253
TSS (lbs/day) Raw Sewage Influent Average Monthly	4207	4212	4351	4193	4372	3474	4733	5612	4355	5555	5725	6557
TSS (lbs/day) Weekly Average	158.0	196	165	808	76	55.0	136.0	137.0	538	69.0	100	429
TSS (mg/L) Average Monthly	3.0	3.0	3.0	8.0	2.0	2.0	3.0	3.0	5.0	3.0	3.0	5.0
TSS (mg/L) Raw Sewage Influent Average Monthly	146.0	104	154	123	168	147.0	210.0	218	188	232.0	188	163.0
TSS (mg/L) Weekly Average	4.0	4.0	4.0	18.0	3.0	2.0	4.0	3.0	14.0	3.0	3.0	7.0

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Fecal Coliform (No./100 ml) Geometric Mean	< 2.0	< 2.0	< 3.0	< 2.0	< 2.0	< 2.0	< 4.0	< 6.0	< 4.0	< 6.0	< 7.0	< 26.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	90.8	146.4	14.5	135.5	135.5	17.1	275.5	136.0	62.0	135.5	488.4	2419.6
UV Intensity ($\mu\text{w}/\text{cm}^2$) Average Monthly	37.2	38.92	41.7	39.1	42.0	35.78	40.8	37.9	37.84	39.52	36.9	35.22
Total Nitrogen (mg/L) Average Quarterly	7.85			3.04			5.78			8.36		
Ammonia (lbs/day) Average Monthly	138	194	< 97.0	86.0	< 10.0	< 9.0	< 40.0	< 19.0	< 9.0	12.0	86.0	308
Ammonia (mg/L) Average Monthly	4.77	4.75	< 3.39	2.60	< 0.39	< 0.39	< 1.43	< 0.63	< 0.38	0.48	2.93	6.90
Total Phosphorus (mg/L) Average Quarterly	< 0.150			< 0.100			0.21			0.16		
Total Cadmium (lbs/day) Average Monthly	< 0.035	< 0.004	< 0.032	< 0.0123	< 0.0190	< 0.0029	< 0.021	< 0.0884	< 0.0022	< 0.025	< 0.034	< 0.003
Total Cadmium (ug/L) Average Monthly	< 1.0	< 0.1	< 1.0	< 0.50	< 1.0	< 0.1	< 1.0	< 1.0	< 0.1	< 1.0	< 1.0	< 0.1
Total Mercury (lbs/day) Average Monthly	< 0.0035	< 0.004	< 0.0032	< 0.0049	< 0.0019	< 0.0029	0.0084	< 0.0088	0.0022	< 0.003	< 0.003	< 0.003
Total Mercury (ug/L) Average Monthly	< 0.1	< 0.1	< 0.1	< 0.20	< 0.1	< 0.1	0.40	< 0.1	0.1	< 0.1	< 0.1	< 0.1
4,4-DDD (lbs/day) Average Monthly	0.0001	0.00007	0.00001	0.00005	0.00004	0.00004	0.00004	< 0.0018	< 0.0004	< 0.0005	< 0.0007	< 0.0001
4,4-DDD (ug/L) Average Monthly	0.00198	0.00198	0.00200	0.00200	0.00198	0.00198	0.0020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
4,4-DDT (lbs/day) Average Monthly	0.0001	0.00007	0.00001	0.00005	0.00004	0.00004	0.00004	< 0.0018	< 0.0004	< 0.0005	< 0.0007	< 0.0001
4,4-DDT (ug/L) Average Monthly	0.00198	0.00198	0.00200	0.00200	0.00198	0.00198	0.0020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
4,4-DDE (lbs/day) Average Monthly	0.0001	0.00007	0.00001	0.00005	0.00004	0.00004	0.00004	< 0.0044	< 0.0001	< 0.0001	< 0.0002	< 0.0001
4,4-DDE (ug/L) Average Monthly	0.00198	0.00198	0.00200	0.00200	0.00198	0.00198	0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5	1605	2569	XXX	25.0	40.0	50	1/day	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
TSS	1927	2890	XXX	30.0	45.0	60	1/day	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/day	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab
UV Intensity (µw/cm²)	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Ammonia Nov 1 - Apr 30	Report	XXX	XXX	Report	XXX	XXX	1/day	24-Hr Composite
Ammonia May 1 - Oct 31	706	XXX	XXX	11.0	XXX	22	1/day	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

Compliance Sampling Location: Outfall 001, after Ultraviolet (UV) light disinfection.

Flow, Dissolved Oxygen, UV Intensity, and Ammonia-Nitrogen are monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for CBOD₅, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47. Monitoring for influent BOD5 and influent Total Suspended Solids is based on Chapter 92a.61. Monitoring for effluent Total Nitrogen and Total Phosphorus is based on Chapter 92a.61.

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Attachment 1



WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

Client ID: 62690

Client: All

Open Violations: 7

	CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID
1	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	2987277	877581
2	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	2987277	880432
3	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	2987277	880433
4	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	3726617	8185199
5	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	3762807	8187352
6	62690	HERMITAGE MUNI AUTH MERCER CNTY	733919	HERMITAGE MUNI AUTH/HERMITAGE WPCP		Active	Air Quality	25-1662167-1	3762807	8187353
7	62690	HERMITAGE MUNI AUTH MERCER CNTY	282209	HERMITAGE MUNI AUTH STP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA0028487	3801671	8195232

	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
1	PF	01/14/2020	127.444	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, Compliance requirements. A person may not cause or permit the operation of a source subject to this article unless the source and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the application and conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.		NWRO
2	PF	01/14/2020	127.11	Construction, Modification, Reactivation and Operation of Sources, Plan Approval Requirements. Failure to obtain a plan approval for the construction, modification, reactivation of source(s) and/or cleaning device.		NWRO
3	PF	01/14/2020	127.402	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, General provisions. Violation for operating an air contaminant source(s) or cleaning device without an operating permit.		NWRO
4	PF	08/12/2022	40CFR60.4230	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines		NWRO
5	PF	04/11/2024	127.444	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, Compliance requirements. A person may not cause or permit the operation of a source subject to this article unless the source and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the application and conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.		NWRO
6	PF	04/11/2024	127.444	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, Compliance requirements. A person may not cause or permit the operation of a source subject to this article unless the source and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the application and conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.		NWRO
7	PF	07/22/2024	92A.44	NPDES - Violation of effluent limits in Part A of permit	PUDICK,DAN	NWRO

Attachment 2

RETTEW Associates, Inc.

Hermitage NPDES Amendment - Testing Results Summary

Project Number: 1010900320

	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sept 2024	Oct 2024
Cadmium	< 0.0001 mg/L	< 1 ug/L	< 1 ug/L	< 1 ug/L	< 1 ug/L	< 1 ug/L	< 1 ug/L	< 0.0001 mg/L	< 1 ug/L	< 0.0001 mg/L	< 1 ug/L	-	< 0.0001 mg/L
Mercury	< 0.0001 mg/L	< 0.1 ug/L	< 0.1 ug/L	< 0.1 ug/L	< 0.1 ug/L	< 0.1 ug/L	< 0.2 ug/L	< 0.0001 mg/L	< 0.1 ug/L	0.0001 mg/L	< 0.1 ug/L	-	< 0.0001 mg/L
4,4'-DDE	0.050 U ug/L	0.057 U ug/L	0.049 U ug/L	ND	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	0.00198 U ug/L	0.00198 U ug/L
4,4'-DDD	0.050 U ug/L	0.057 U ug/L	0.049 U ug/L	ND	< 0.01 ug/L	< 0.005 ug/L	< 0.005 ug/L	< 0.005 ug/L	< 0.005 ug/L	< 0.005 ug/L	< 0.005 ug/L	0.00198 U ug/L	0.00198 U ug/L
4,4'-DDT	0.050 U ug/L	0.057 U ug/L	0.049 U ug/L	ND	< 0.01 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	< 0.02 ug/L	0.00198 U ug/L	0.00198 U ug/L

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1803 Philadelphia Street
 Indiana, PA 15701
 P: (724) 463-8378
 F: (724) 465-4209
 PADEP: 32-00382

1276 Bentleyville Road
 Van Voorhis, PA 15366
 P: (724) 258-8378
 F: (724) 258-8376
 PADEP: 63-04247

435 Broad Street
 Montoursville, PA 17754
 P: (570) 321-9002
 F: (570) 321-1957
 PADEP: 41-04880

950 West Main Street
 Sharpstown, PA 16150
 P: (724) 463-8378 x 500
 F: (724) 465-4209
 PADEP: 43-04934

Hermitage WPC
 2133 Broadway Road
 Hermitage, PA 16148

$$Flow = 2.14 \times 8.34 \times 40.1 = 71.79$$

Reported: 10/17/2023 08:28

Lab Sample ID#: 23J0216-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 10/02/2023 07:00
Sample End Date: 10/03/2023 07:00
Receipt Date: 10/03/2023 16:05

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
General Chemistry								
Analytical Method: *** DEFAULT SPECIFIC METHOD			Prep Method: [CALC]					
Total Nitrogen	2.22	mg/L			0.729	AW	10/11/23 08:22	10/11/23 08:22
General Chemistry								
Analytical Method: ASTM6919-17			Prep Method: No Prep - WetChem					
Ammonia as N	<0.165	mg/L		0.165	0.400	DAA	10/05/23 20:07	10/05/23 20:07
General Chemistry								
Analytical Method: EPA 351.2 2.0			Prep Method: SM 4500-Norg B					
Total Kjeldahl Nitrogen	1.44	mg/L		0.387	0.625	AW	10/11/23 08:22	10/11/23 08:22
General Chemistry								
Analytical Method: SM2540 D-15			Prep Method: No Prep - WetChem					
Total Suspended Solids	77	mg/L		5	5	MM	10/04/23 15:10	10/04/23 15:10
General Chemistry								
Analytical Method: SM4500-NO3 E-16 (discrete)			Prep Method: No Prep - WetChem					
Nitrate/Nitrite	0.776	mg/L			0.104	AW	10/06/23 13:38	10/06/23 13:38
General Chemistry								
Analytical Method: SM4500-P E-11			Prep Method: SM 4500 P B					
Phosphorus	0.17	mg/L		0.046	0.10	JMS	10/10/23 18:33	10/10/23 18:33
General Chemistry								
Analytical Method: SM5210 B-16			Prep Method: No Prep - WetChem					
Biochemical Oxygen Demand	1.85	mg/L	BB		2.00	ALB	10/04/23 15:36	10/09/23 10:01
General Chemistry								
Analytical Method: SM5220 D-11			Prep Method: No Prep - WetChem					
Chemical Oxygen Demand	52.4	mg O2/L		9.85	15.0	TLL	10/09/23 13:00	10/09/23 16:30
Total Metals								
Analytical Method: EPA200.7 4.4			Prep Method: EPA 200.7 4.4					
Arsenic	0.001	mg/L		0.0002	0.001	ANO	10/04/23 12:52	10/09/23 07:23
Cadmium	<0.0001	mg/L		0.0001	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Chromium	0.0007	mg/L	Q	0.0001	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Copper	0.003	mg/L	Q	0.0004	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Lead	0.0004	mg/L		0.0004	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Molybdenum	0.001	mg/L		0.0004	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Nickel	0.002	mg/L		0.0001	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Selenium	0.0008	mg/L		0.0008	0.002	ANO	10/04/23 12:52	10/09/23 07:23
Silver	<0.0001	mg/L		0.0001	0.0005	ANO	10/04/23 12:52	10/09/23 07:23
Zinc	0.037	mg/L	Q	0.0004	0.001	ANO	10/04/23 12:52	10/09/23 07:23

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Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 10/17/2023 08:28

Lab Sample ID#: 23J0216-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 10/02/2023 07:00
Sample End Date: 10/03/2023 07:00
Receipt Date: 10/03/2023 16:05

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
Total Metals								
			Analytical Method: EPA245.1 3.0			Prep Method: EPA 245.1 3.0		
Mercury	<0.1	<0.0001	mg/L	0.0001	0.0002	BJL	10/04/23 13:34	10/09/23 13:34

Lab Sample ID#: 23J0216-02
Sample Type: Waste Water
Sample Source: Grab
Sampler: Client
Client Sample ID: Quarterly Effluent Grab

Sample Date: 10/03/2023 08:15
Receipt Date: 10/03/2023 16:05

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
General Chemistry								
			Analytical Method: EPA 1664B			Prep Method: EPA 1664B		
Oil & Grease (HEM)	<1.4	mg/L		1.4	5.0	JK	10/10/23 11:00	10/10/23 17:33
General Chemistry								
			Analytical Method: SM4500-CN E-16			Prep Method: SM 4500-CN C		
Cyanide (Total)	<0.003	mg/L		0.003	0.005	AW	10/12/23 11:35	10/12/23 11:35
General Chemistry								
			Analytical Method: SM4500-H+ B-11			Prep Method: No Prep - WetChem		
pH	7.14	S.U.	H.R			AW	10/04/23 13:55	10/04/23 13:55
Temp at time of pH, °C	10.3		H.R			AW	10/04/23 13:55	10/04/23 13:55



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ANALYTICAL RESULTS

Project: 23J0217
Pace Project No.: 30628223

Sample: 23J0217-01 Lab ID: 30628223001 Collected: 10/03/23 07:00 Received: 10/04/23 17:10 Matrix: Water
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B OC Pest. Reduced Volume Analytical Method: EPA 8081B Preparation Method: EPA 3510C Pace Analytical Services - Greensburg									
4,4'-DDD	0.050 U	ug/L	0.050	0.012	1	10/09/23 10:00	10/13/23 14:05	72-54-8	1c
4,4'-DDE	0.050 U	ug/L	0.050	0.018	1	10/09/23 10:00	10/13/23 14:05	72-55-9	1c
4,4'-DDT	0.050 U	ug/L	0.050	0.049	1	10/09/23 10:00	10/13/23 14:05	50-29-3	1c
Surrogates									
Tetrachloro-m-xylene (S)	62	%	26-111		1	10/09/23 10:00	10/13/23 14:05	877-09-8	
Decachlorobiphenyl (S)	69	%	10-138		1	10/09/23 10:00	10/13/23 14:05	2051-24-3	

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QUALITY CONTROL DATA

Project: 23J0217
Pace Project No.: 30628223

QC Batch: 620940 Analysis Method: EPA 8081B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS RV Pesticides
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30628223001

METHOD BLANK: 3026114

Matrix: Water

Associated Lab Samples: 30628223001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.050 U	0.050	0.012	10/13/23 16:11	
4,4'-DDE	ug/L	0.050 U	0.050	0.018	10/13/23 16:11	
4,4'-DDT	ug/L	0.050 U	0.050	0.050	10/13/23 16:11	
Decachlorobiphenyl (S)	%	58	10-138		10/13/23 16:11	
Tetrachloro-m-xylene (S)	%	77	26-111		10/13/23 16:11	

LABORATORY CONTROL SAMPLE: 3026115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.36	90	51-110	
4,4'-DDE	ug/L	0.4	0.32	81	50-104	
4,4'-DDT	ug/L	0.4	0.31	77	43-119	
Decachlorobiphenyl (S)	%			52	10-138	
Tetrachloro-m-xylene (S)	%			71	26-111	

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Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 11/22/2023 13:55

Lab Sample ID#: 23K0746-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 11/06/2023 07:15
Sample End Date: 11/07/2023 07:45
Receipt Date: 11/07/2023 15:50

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L	I		5	ANO	11/08/23 05:53	11/08/23 09:00
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	11/16/23 14:10	11/17/23 12:43

$$2.51 \times 8.34 \times <1 = <2.10$$

$$2.51 \times 8.34 \times <0.1 = <2.10$$



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ANALYTICAL RESULTS

Project: 23K0746
Pace Project No.: 30637380

Sample: 23K0746-01 Lab ID: 30637380001 Collected: 11/07/23 07:45 Received: 11/08/23 09:25 Matrix: Water
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B OC Pest. Reduced Volume Analytical Method: EPA 8081B Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
4,4'-DDD	0.057 U	ug/L	0.057	1	11/09/23 10:10	11/10/23 14:36	72-54-8	
4,4'-DDE	0.057 U	ug/L	0.057	1	11/09/23 10:10	11/10/23 14:36	72-55-9	
4,4'-DDT	0.057 U	ug/L	0.057	1	11/09/23 10:10	11/10/23 14:36	50-29-3	
Surrogates								
Tetrachloro-m-xylene (S)	69	%	26-111	1	11/09/23 10:10	11/10/23 14:36	877-09-8	
Decachlorobiphenyl (S)	77	%	10-138	1	11/09/23 10:10	11/10/23 14:36	2051-24-3	

$$2.51 \times 8.34 \times 0.057 = 1.19$$

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QUALITY CONTROL DATA

Project: 23K0746
Pace Project No.: 30637380

QC Batch: 628412 Analysis Method: EPA8081B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS RV Pesticides
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30637380001

METHOD BLANK: 3063509 Matrix: Water

Associated Lab Samples: 30637380001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.050 U	0.050	11/10/23 11:02	
4,4'-DDE	ug/L	0.050 U	0.050	11/10/23 11:02	
4,4'-DDT	ug/L	0.050 U	0.050	11/10/23 11:02	
Decachlorobiphenyl (S)	%	55	10-138	11/10/23 11:02	
Tetrachloro-m-xylene (S)	%	65	26-111	11/10/23 11:02	

LABORATORY CONTROL SAMPLE: 3063510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.31	77	51-110	
4,4'-DDE	ug/L	0.4	0.29	74	50-104	
4,4'-DDT	ug/L	0.4	0.30	75	43-119	
Decachlorobiphenyl (S)	%			46	10-138	
Tetrachloro-m-xylene (S)	%			63	26-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3063511 3063512

Parameter	Units	30637206004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	ug/L	0.053 U	0.43	0.43	0.071	0.22	17	52	70-125	102	25	ML,R1
4,4'-DDE	ug/L	0.053 U	0.43	0.43	0.063	0.21	15	48	55-125	108	25	ML,R1
4,4'-DDT	ug/L	0.053 U	0.43	0.43	0.069	0.22	16	51	56-101	104	25	ML,R1
Decachlorobiphenyl (S)	%						22	31	10-138			
Tetrachloro-m-xylene (S)	%						15	35	26-111			SR

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Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 12/18/2023 15:55

Lab Sample ID#: 23L0411-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 12/03/2023 07:25
Sample End Date: 12/04/2023 08:10
Receipt Date: 12/05/2023 15:40

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
---------	---------------	-------	----------------	-----	----	-----------------------	----------------	--------------------

Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L		1	5	ANO	12/06/23 05:05	12/06/23 11:33

Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	12/14/23 16:10	12/15/23 15:21

$$2.98 \times 8.34 \times <1 = <24.9$$

$$2.98 \times 8.34 \times <0.1 = <2.49$$

$$0.00249 \text{ mg/L}$$

$$Q = 2.98$$

$$2.98 \times 8.34 \times <1$$

$$\div 1000$$



ANALYTICAL RESULTS

Project: 23L0411
Pace Project No.: 30644862

Sample: 23L0411-01 Lab ID: 30644862001 Collected: 12/04/23 08:10 Received: 12/06/23 16:15 Matrix: Water
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B OC Pest. Reduced Volume Analytical Method: EPA 8081B Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
4,4'-DDD	0.049 U	ug/L	0.049	1	12/11/23 10:00	12/12/23 16:44	72-54-8	1c, CH
4,4'-DDE	0.049 U	ug/L	0.049	1	12/11/23 10:00	12/12/23 16:44	72-55-9	1c
4,4'-DDT	0.049 U	ug/L	0.049	1	12/11/23 10:00	12/12/23 16:44	50-29-3	1c
Surrogates								
Tetrachloro-m-xylene (S)	64	%	26-111	1	12/11/23 10:00	12/12/23 16:44	877-09-8	
Decachlorobiphenyl (S)	71	%	10-138	1	12/11/23 10:00	12/12/23 16:44	2051-24-3	

U = Not detected

lbs

$$\text{Flow} \quad \text{lbx} \quad \text{C} \quad \square$$

$$2.98 \times 8.34 \times 0.049 = 1.22$$

0.00122 mg/L

Permit says...
Report in
ug/L or mg/L

No Detection
Report Not detected
Comments write
what lab says in
qualifier

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QUALITY CONTROL DATA

Project: 23L0411
Pace Project No.: 30644862

QC Batch: 635056 Analysis Method: EPA 8081B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS RV Pesticides
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30644862001

METHOD BLANK: 3096785 Matrix: Water
Associated Lab Samples: 30644862001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	0.050 U	0.050	12/12/23 12:19	
4,4'-DDE	ug/L	0.050 U	0.050	12/12/23 12:19	
4,4'-DDT	ug/L	0.050 U	0.050	12/12/23 12:19	
Decachlorobiphenyl (S)	%	54	10-138	12/12/23 12:19	
Tetrachloro-m-xylene (S)	%	61	26-111	12/12/23 12:19	

0.008 Limit

LABORATORY CONTROL SAMPLE: 3096786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.29	72	51-110	
4,4'-DDE	ug/L	0.4	0.29	73	50-104	
4,4'-DDT	ug/L	0.4	0.28	69	43-119	
Decachlorobiphenyl (S)	%			49	10-138	
Tetrachloro-m-xylene (S)	%			58	26-111	

2.98 0.050
2.98 x 0.00005 x 8.34

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PADEP: 43-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 01/16/2024 12:08

Lab Sample ID#: 24A0118-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 12/31/2023 07:30
Sample End Date: 01/01/2024 08:15
Receipt Date: 01/02/2024 16:20

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L		I	5	ANQ	01/03/24 04:42	01/03/24 08:43
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	01/05/24 17:07	01/09/24 13:42

$$2.93 \times 8.34 \times < 1.0 = 24.4 \quad 0.024$$

$$2.93 \times 8.34 \times < 0.1 = 2.44 \quad 0.002$$



ANALYTICAL RESULTS

Project: 24A0118
Pace Project No.: 30651107

Sample: 24A0118-01 Lab ID: 30651107001 Collected: 01/01/24 08:15 Received: 01/03/24 16:11 Matrix: Water
Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081B OC Pest. Reduced Volume Analytical Method: EPA 8081B Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
4,4'-DDD	ND	ug/L	0.049	1	01/08/24 10:44	01/09/24 13:56	72-54-8	
4,4'-DDE	ND	ug/L	0.049	1	01/08/24 10:44	01/09/24 13:56	72-55-9	
4,4'-DDT	ND	ug/L	0.049	1	01/08/24 10:44	01/09/24 13:56	50-29-3	
Surrogates								
Tetrachloro-m-xylene (S)	62	%	26-111	1	01/08/24 10:44	01/09/24 13:56	877-09-8	
Decachlorobiphenyl (S)	77	%	10-138	1	01/08/24 10:44	01/09/24 13:56	2051-24-3	

$$0.049 \times 8.34 \times 2.93 = 1.20 / 0.0012$$

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QUALITY CONTROL DATA

Project: 24A0118
Pace Project No.: 30651107

QC Batch: 640655 Analysis Method: EPA 8061B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS RV Pesticides
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30651107001

METHOD BLANK: 3123726 Matrix: Water
Associated Lab Samples: 30651107001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	01/09/24 09:44	
4,4'-DDE	ug/L	ND	0.050	01/09/24 09:44	
4,4'-DDT	ug/L	ND	0.050	01/09/24 09:44	
Decachlorobiphenyl (S)	%	45	10-138	01/09/24 09:44	
Tetrachloro-m-xylene (S)	%	55	26-111	01/09/24 09:44	

LABORATORY CONTROL SAMPLE: 3123727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.28	69	51-110	
4,4'-DDE	ug/L	0.4	0.25	62	50-104	
4,4'-DDT	ug/L	0.4	0.26	66	43-119	
Decachlorobiphenyl (S)	%			33	10-138	
Tetrachloro-m-xylene (S)	%			51	26-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123728 3123729

Parameter	Units	30651107001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result								
4,4'-DDD	ug/L	ND	0.39	0.41	0.34	0.36	87	86	70-125	5	25		
4,4'-DDE	ug/L	ND	0.39	0.41	0.31	0.34	80	82	55-125	7	25		
4,4'-DDT	ug/L	ND	0.39	0.41	0.33	0.33	84	81	56-101	1	25		
Decachlorobiphenyl (S)	%						77	79	10-138				
Tetrachloro-m-xylene (S)	%						71	71	26-111				

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 PADEP: 41-04880

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 P: (724) 463-8378 x 500
 F: (724) 465-4209
 PADEP: 43-04934

Hermitage WPC
 2133 Broadway Road
 Hermitage, PA 16148

Reported: 02/28/2024 08:34

Lab Sample ID#: 24B0601-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 02/04/2024 07:15
Sample End Date: 02/05/2024 07:20
Receipt Date: 02/06/2024 15:45

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L	I		5	ANO	02/07/24 04:40	02/07/24 08:23
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	02/07/24 17:25	02/08/24 15:49



SUBURBAN
TESTING LABS

Results Report

Order ID: 4802990

Environmental Service Laboratories, Inc. 1803 Philadelphia Street Indiana, PA 15701	Project: 24B0601
Attn: Carrie Sutton-White	Regulatory ID:

Sample Number: 4802990-01 Collector: Client	Site: 24B0601-01 Collect Date: 02/05/2024 7:20 am	Sample ID: Effluent Composite Sample Type: Composite
--	--	---

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Pesticide/PCB									
<i>Pesticides, 608, PPL</i>									
4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02	5	02/12/24	HJM	02/14/24 20:16	SCD
4,4'-DDE	< 0.01	µg/L	EPA 608.3	0.01	5	02/12/24	HJM	02/14/24 20:16	SCD
4,4'-DDT	< 0.01	µg/L	EPA 608.3	0.01	5	02/12/24	HJM	02/14/24 20:16	SCD
Surrogate Recoveries									
Surrogate: Tetrachloro-m-xylene	0.485	µg/L	EPA 608.3	97%	5	40-104		02/14/24 20:16	
Surrogate: Decachlorobiphenyl	0.291	µg/L	EPA 608.3	58%	5	28-130		02/14/24 20:16	

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH_i Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH_f Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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Reviewed and Released By:

Lauren Uille
Project Manager I

Report Generated On: 02/27/2024 9:15 pm 4802990
STL_Results Revision #2.2 Effective: 01/19/2024

SUBURBAN TESTING LABS

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NJDEP# PA081



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F: (724) 465-4209
PADEP: 43-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 03/22/2024 08:56

Lab Sample ID#: 24C0374-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 03/03/2024 07:50
Sample End Date: 03/04/2024 07:50
Receipt Date: 03/05/2024 16:30

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L		1	5	ANO	03/06/24 06:35	03/06/24 10:58
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	03/13/24 14:10	03/14/24 17:14

$$\begin{aligned}
 3.91 \times 8.34 \times <1 &= \div 1000 = 0.033 \\
 3.91 \times 8.34 \times <0.1 &= \div 1000 = 0.0033
 \end{aligned}$$



SUBURBAN
TESTING LABS

Results Report

Order ID: 4C02747

Environmental Service Laboratories, Inc. 1803 Philadelphia Street Indiana, PA 15701	Project: 24C0374
Attn: Accounts Payable	Regulatory ID:

Sample Number: 4C02747-01 Collector: Client	Site: 24C0374-01 Collect Date: 03/04/2024 7:50 am	Sample ID: Effluent Composite Sample Type: Composite
--	--	---

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Pesticide/PCB									
<i>Pesticides, 608, PPL</i>									
4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02	1	03/11/24	SCD	03/14/24 12:04	SCD
4,4'-DDE	< 0.005	µg/L	EPA 608.3	0.005	1	03/11/24	SCD	03/14/24 12:04	SCD
4,4'-DDT	< 0.02	µg/L	EPA 608.3	0.02	1	03/11/24	SCD	03/14/24 12:04	SCD
Surrogate Recoveries									
Surrogate: Tetrachloro-m-xylene	0.429	µg/L	EPA 608.3	90%	1	40-104		03/14/24 12:04	
Surrogate: Decachlorobiphenyl	0.282	µg/L	EPA 608.3	59%	1	28-130		03/14/24 12:04	

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH_i Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH_i Final* for ASTM leachate is performed by method SM 4500-H-8.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP 5L0015.

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Reviewed and Released By:

Lauren Ullé
Project Manager I

Lauren Ullé

$$\begin{aligned}
 & \text{DDD } 3.91 \times 8.34 \times < 0.62 = \frac{0.0007}{1.006} \\
 & \text{DDE } 3.91 \times 8.34 \times < 0.005 = \frac{0.0002}{1.000} \\
 & \text{DDT } 3.91 \times 8.34 \times < 0.02 = \frac{0.0007}{1.000}
 \end{aligned}$$

Report Generated On: 03/21/2024 1:21 pm 4C02747
STL_Results Revision #2.2 Effective: 01/19/2024

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NPDES Permit Fact Sheet
Hermitage Municipal Authority STP

NPDES Permit No. PA0028487 A-1

Page 2 of 7



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Hermitage WPC
2133 Broadway Road
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Reported: 05/14/2024 14:55

Lab Sample ID#: 24D3403-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 04/25/2024 07:15
Sample End Date: 04/26/2024 07:15
Receipt Date: 04/26/2024 12:40

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
General Chemistry								
			Analytical Method: *** DEFAULT SPECIFIC METHOD			Prep Method: [CALC]		
Total Nitrogen	12.2	mg/L			1.35	AW	05/03/24 14:57	05/06/24 13:23
General Chemistry								
			Analytical Method: EPA 351.2 2.0			Prep Method: SM 4500-Norg B		
Total Kjeldahl Nitrogen	11.2	mg/L			1.25	AW	05/03/24 14:57	05/03/24 14:57
General Chemistry								
			Analytical Method: EPA 365.1			Prep Method: No Prep - WetChem		
Phosphorus	3.76	mg/L			0.500	DAA	05/02/24 06:56	05/02/24 18:41
General Chemistry								
			Analytical Method: SM4500-NO3 E-16 (discrete)			Prep Method: No Prep - WetChem		
Nitrate/Nitrite	1.07	mg/L			0.104	DAA	05/03/24 11:19	05/06/24 13:23
Total Metals								
			Analytical Method: EPA200.7 4.4			Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L			5	ANO	04/29/24 04:46	04/29/24 07:45
Total Metals								
			Analytical Method: EPA245.1 3.0			Prep Method: EPA 245.1 3.0		
Mercury	<0.2	ug/L			0.2	BJL	05/02/24 16:24	05/03/24 16:22



Results Report

Order ID: 4D06258

Environmental Service Laboratories, Inc. 1803 Philadelphia Street Indiana, PA 15701	Project: 24D2827
Attn: Carrie Sutton-White	Regulatory ID:

Sample Number: 4D06258-01	Site: 24D2827-01	Sample ID: Effluent Composite
Collector: Client	Collect Date: 04/22/2024 7:30 am	Sample Type: Composite

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Pesticide/PCB

Pesticides, 608, PPL

4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02	1	04/29/24	AMAA	04/30/24 16:22	SCD
4,4'-DDE	< 0.005	µg/L	EPA 608.3	0.005	1	04/29/24	AMAA	04/30/24 16:22	SCD
4,4'-DDT	< 0.02	µg/L	EPA 608.3	0.02	1	04/29/24	AMAA	04/30/24 16:22	SCD

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Tetrachloro-m-xylene	0.413	µg/L	EPA 608.3	87%	1	40-104	04/30/24 16:22
Surrogate: Decachlorobiphenyl	0.292	µg/L	EPA 608.3	61%	1	28-130	04/30/24 16:22

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-8.

All results meet the requirements of STL's TNI (NELAP) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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Reviewed and Released By:

Abigail Cunningham
Associate Project Manager

Report Generated On: 05/07/2024 12:58 pm 4D06258
STL_Results Revision #2.2 Effective: 01/19/2024

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SUBURBAN TESTING LABS



PA DEP # 06-00208
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NPDES Permit Fact Sheet
Hermitage Municipal Authority STP

NPDES Permit No. PA0028487 A-1

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 PADEP: 43-04934

Hermitage WPC
 2133 Broadway Road
 Hermitage, PA 16148

Reported: 05/03/2024 16:25

Lab Sample ID#: 24D2826-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 04/21/2024 07:30
Sample End Date: 04/22/2024 07:30
Receipt Date: 04/22/2024 14:10

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
General Chemistry	Analytical Method: *** DEFAULT SPECIFIC METHOD					Prep Method: [CALC]		
Total Nitrogen	8.36	mg/L			0.729	AW	05/01/24 12:09	05/01/24 12:09
General Chemistry	Analytical Method: ASTM D6919-17					Prep Method: No Prep - WetChem		
Ammonia as N	5.74	mg/L		0.165	0.400	DAA	04/25/24 05:49	04/25/24 21:12
General Chemistry	Analytical Method: EPA 351.2 2.0					Prep Method: SM 4500-Norg B		
Total Kjeldahl Nitrogen	7.22	mg/L		0.387	0.625	AW	05/01/24 12:09	05/01/24 12:09
General Chemistry	Analytical Method: EPA 365.1					Prep Method: No Prep - WetChem		
Phosphorus	0.163	mg/L			0.100	DAA	04/29/24 06:34	04/29/24 22:15
General Chemistry	Analytical Method: SM 2540 D-15					Prep Method: No Prep - WetChem		
Total Suspended Solids	5	mg/L		5	5	MM	04/25/24 08:39	04/25/24 14:30
General Chemistry	Analytical Method: SM 4500-NO3 E-16 (discrete)					Prep Method: No Prep - WetChem		
Nitrate/Nitrite	1.14	mg/L			0.104	AW	04/29/24 13:31	04/29/24 13:31
General Chemistry	Analytical Method: SM 5210 B-16					Prep Method: No Prep - WetChem		
Biochemical Oxygen Demand	12.1	mg/L			2.00	ATJ	04/22/24 16:20	04/27/24 14:28
General Chemistry	Analytical Method: SM 5220 D-11					Prep Method: No Prep - WetChem		
Chemical Oxygen Demand	31.0	mg O2/L		9.85	15.0	TLA	04/26/24 12:55	04/26/24 12:55
Total Metals	Analytical Method: EPA 200.7 4.4					Prep Method: EPA 200.7 4.4		
Arsenic	<0.0002	mg/L		0.0002	0.001	ANO	05/01/24 18:26	05/03/24 05:59
Cadmium	<0.0001	mg/L		0.0001	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Chromium	0.0006	mg/L		0.0001	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Copper	0.002	mg/L		0.0004	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Lead	0.0004	mg/L		0.0004	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Molybdenum	0.0005	mg/L		0.0004	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Nickel	0.001	mg/L		0.0001	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Selenium	0.0008	mg/L		0.0008	0.002	ANO	05/01/24 18:26	05/03/24 05:59
Silver	<0.0001	mg/L		0.0001	0.0005	ANO	05/01/24 18:26	05/03/24 05:59
Zinc	0.009	mg/L		0.0004	0.001	ANO	05/01/24 18:26	05/03/24 05:59

NPDES Permit Fact Sheet
Hermitage Municipal Authority STP

NPDES Permit No. PA0028487 A-1

Page 3 of 5



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Hermitage WPC
 2133 Broadway Road
 Hermitage, PA 16148

Reported: 05/03/2024 16:25

Lab Sample ID#: 24D2826-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 04/21/2024 07:30
Sample End Date: 04/22/2024 07:30
Receipt Date: 04/22/2024 14:10

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals		Analytical Method: EPA245.1 3.0				Prep Method: EPA 245.1 3.0		
Mercury	<0.0001	mg/L		0.0001	0.0002	BJL	05/01/24 19:00	05/02/24 13:13

Lab Sample ID#: 24D2826-02
Sample Type: Waste Water
Sample Source: Grab
Sampler: Client
Client Sample ID: Quarterly Effluent Grab

Sample Date: 04/22/2024 07:26
Receipt Date: 04/22/2024 14:10

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
General Chemistry		Analytical Method: EPA 1664B				Prep Method: EPA 1664B		
Oil & Grease (HEM)	<1.4	mg/L		1.4	5.0	JK	05/01/24 11:50	05/01/24 19:35
General Chemistry		Analytical Method: SM4500-CN E-16				Prep Method: SM 4500-CN C		
Cyanide (Total)	<0.003	mg/L		0.003	0.005	AW	04/26/24 13:07	04/26/24 13:07
General Chemistry		Analytical Method: SM4500-II+ B-11				Prep Method: No Prep - WetChem		
pH	6.93	S.U.	H,R			AW	04/24/24 10:55	04/24/24 10:55
Temp at time of pH, °C	18.1		H,R			AW	04/24/24 10:55	04/24/24 10:55



Results Report

Order ID: 4D06258

Environmental Service Laboratories, Inc. 1803 Philadelphia Street Indiana, PA 15701	Project: 24D2827
Attn: Carrie Sutton-White	Regulatory ID:

Sample Number: 4D06258-01	Site: 24D2827-01	Sample ID: Effluent Composite
Collector: Client	Collect Date: 04/22/2024 7:30 am	Sample Type: Composite

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Pesticide/PCB

Pesticides, 608, PPL

4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02	1	04/29/24	AMAA	04/30/24 16:22	SCD
4,4'-DDE	< 0.005	µg/L	EPA 608.3	0.005	1	04/29/24	AMAA	04/30/24 16:22	SCD
4,4'-DDT	< 0.02	µg/L	EPA 608.3	0.02	1	04/29/24	AMAA	04/30/24 16:22	SCD

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Tetrachloro-m-xylene	0.413	µg/L	EPA 608.3	87%	1	40-104	04/30/24 16:22
Surrogate: Decachlorobiphenyl	0.292	µg/L	EPA 608.3	61%	1	28-130	04/30/24 16:22

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-8.

All results meet the requirements of STL's TNI (NELAP) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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Reviewed and Released By:

Abigail Cunningham
Associate Project Manager

Report Generated On: 05/07/2024 12:58 pm 4D06258
STL_Results Revision #2.2 Effective: 01/19/2024

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Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 06/18/2024 16:24

Lab Sample ID#: 24F0044-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 06/02/2024 07:30
Sample End Date: 06/03/2024 07:30
Receipt Date: 06/03/2024 14:30

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L	I		5	ANO	06/05/24 03:51	06/05/24 08:13
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BJL	06/08/24 13:10	06/11/24 14:37



Results Report

Order ID: 4F02296

Environmental Service Laboratories, Inc.
1803 Philadelphia Street
Indiana, PA 15701

Project: 24F0044

Attn: Accounts Payable

Regulatory ID:

Sample Number: 4F02296-01	Site: 24F0044-01	Sample ID: Effluent Composite
Collector: Client	Collect Date: 06/03/2024 7:30 am	Sample Type: Composite

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	-----	-----	----	-----------	----	---------------	----

Pesticide/PCB

Pesticides, 608, PPL

4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02		1	06/07/24	NDK	06/10/24 16:54	SCD
4,4'-DDE [2C]	< 0.005	µg/L	EPA 608.3	0.005		1	06/07/24	NDK	06/10/24 16:54	SCD
4,4'-DDT	< 0.02	C5 µg/L	EPA 608.3	0.02		1	06/07/24	NDK	06/10/24 16:54	SCD

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Tetrachloro-m-xylene	0.378	µg/L	EPA 608.3	79%	1	40-104	06/10/24 16:54
Surrogate: Decachlorobiphenyl	0.247	µg/L	EPA 608.3	52%	1	28-130	06/10/24 16:54

Data Qualifiers:

C5 The CCV was below minimum acceptance limits. A low-level standard was analyzed to confirm instrument sensitivity and the ability to detect target analytes. The reported analyte concentration was below the measure concentration of the low-level standard.

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 06/18/2024 9:21 am 4F02296
STL_Results Revision #3.0 Effective: 05/29/2024

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PA DEP # 06-00268
NJDEP# PA081



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F: (724) 485-4209
PADEP: 32-00382

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PADEP: 63-04247

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F: (570) 321-1957
PADEP: 41-04860

950 West Main Street
Sharpsville, PA 15150
P: (724) 483-8376 x500
F: (724) 485-4209
PADEP: 43-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 07/31/2024 10:26

Lab Sample ID#: 24G0700-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 07/01/2024 07:45
Sample End Date: 07/02/2024 07:15
Receipt Date: 07/02/2024 17:00

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
General Chemistry								
Analytical Method: *** DEFAULT SPECIFIC METHOD			Prep Method: [CALC]					
Total Nitrogen	5.78	mg/L			1.14	DAA	07/15/24 15:03	07/17/24 14:55
General Chemistry								
Analytical Method: ASTM D6919-17			Prep Method: No Prep - WetChem					
Ammonia as N	0.566	mg/L		0.165	0.400	DAA	07/12/24 11:30	07/13/24 18:32
General Chemistry								
Analytical Method: EPA 351.2 2.0			Prep Method: SM 4500-Norg B					
Total Kjeldahl Nitrogen	0.838	mg/L		0.387	0.625	DAA	07/11/24 09:51	07/16/24 14:20
General Chemistry								
Analytical Method: SM 2540 D-15			Prep Method: No Prep - WetChem					
Total Suspended Solids	<5	mg/L		5	5	TLA	07/04/24 13:55	07/06/24 08:45
General Chemistry								
Analytical Method: SM 4500-NO3 E-16 (discrete)			Prep Method: No Prep - WetChem					
Nitrate/Nitrite	4.94	mg/L			0.520	DAA	07/15/24 15:03	07/17/24 14:55
General Chemistry								
Analytical Method: SM 4500-P E-11			Prep Method: SM 4500 P B					
Phosphorus	0.21	mg/L		0.046	0.10	DAA	07/22/24 16:30	07/22/24 18:45
General Chemistry								
Analytical Method: SM 5210 B-16			Prep Method: No Prep - WetChem					
Biochemical Oxygen Demand	0.760	mg/L			2.00	RLN	07/03/24 21:50	07/08/24 18:23
General Chemistry								
Analytical Method: SM 5220 D-11			Prep Method: No Prep - WetChem					
Chemical Oxygen Demand	26.8	mg O2/L		9.85	15.0	MTA	07/05/24 16:19	07/05/24 16:19
Total Metals								
Analytical Method: EPA 200.7 4.4			Prep Method: EPA 200.7 4.4					
Arsenic	0.001	mg/L		0.0002	0.001	ANO	07/09/24 12:46	07/10/24 09:45
Cadmium	<0.0001	mg/L		0.0001	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Chromium	0.0005	mg/L		0.0001	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Copper	0.003	mg/L		0.0004	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Lead	0.0004	mg/L		0.0004	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Molybdenum	0.001	mg/L		0.0004	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Nickel	0.002	mg/L		0.0001	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Selenium	<0.0008	mg/L		0.0008	0.002	ANO	07/09/24 12:46	07/10/24 09:45
Silver	<0.0001	mg/L		0.0001	0.0005	ANO	07/09/24 12:46	07/10/24 09:45
Zinc	0.023	mg/L		0.0004	0.001	ANO	07/09/24 12:46	07/10/24 09:45

NPDES Permit Fact Sheet
Hermitage Municipal Authority STP

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P: (724) 463-8378 x.500
F: (724) 465-4209
PADEP: 43-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 07/31/2024 10:26

Lab Sample ID#: 24G0700-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Quarterly Effluent Composite

Sample Begin Date: 07/01/2024 07:45
Sample End Date: 07/02/2024 07:15
Receipt Date: 07/02/2024 17:00

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
Total Metals		Analytical Method: EPA245.1 3.0			Prep Method: EPA 245.1 3.0			
Mercury	0.0001	mg/L		0.0001	0.0002	BJL	07/09/24 12:39	07/10/24 12:18

Lab Sample ID#: 24G0700-02
Sample Type: Waste Water
Sample Source: Grab
Sampler: Client
Client Sample ID: Quarterly Effluent Grab

Sample Date: 07/02/2024 08:26
Receipt Date: 07/02/2024 17:00

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/Certification	Prep Date/Time	Analysis Date/Time
General Chemistry		Analytical Method: EPA 1664B			Prep Method: EPA 1664B			
Oil & Grease (HEM)	<1.4	mg/L		1.4	5.0	JK	07/12/24 11:39	07/12/24 19:52
General Chemistry		Analytical Method: SM4500-CN E-16			Prep Method: SM 4500-CN C			
Cyanide (Total)	<0.003	mg/L		0.003	0.005	DAA	07/03/24 09:54	07/04/24 07:56
General Chemistry		Analytical Method: SM4500-H+ B-11			Prep Method: No Prep - WetChem			
pH	7.11	S.U.	H,R			MTA	07/16/24 10:05	07/16/24 10:05
Temp at time of pH, °C	20.9		H,R			MTA	07/16/24 10:05	07/16/24 10:05



Results Report

Order ID: 4G03420

Environmental Service Laboratories, Inc.
1803 Philadelphia Street
Indiana, PA 15701

Project: 24G0486

Attn: Accounts Payable

Regulatory ID:

Sample Number: 4G03420-01		Site: 24G0486-01		Sample ID: Effluent Composite							
Collector: Client		Collect Date: 07/02/2024 7:15 am		Sample Type: Composite							
Department / Test / Parameter		Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By

Pesticide/PCB

Pesticides, 608, PPL

4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02		1	07/09/24	SCD	07/12/24 16:36	LEB
4,4'-DDE	< 0.005	µg/L	EPA 608.3	0.005		1	07/09/24	SCD	07/12/24 16:36	LEB
4,4'-DDT	< 0.02	µg/L	EPA 608.3	0.02		1	07/09/24	SCD	07/12/24 16:36	LEB

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Tetrachloro-m-xylene	0.354	µg/L	EPA 608.3	74%	1	40-104	07/12/24 16:36
Surrogate: Decachlorobiphenyl [ZC]	0.224	µg/L	EPA 608.3	47%	1	28-130	07/12/24 16:36

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH_i Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH_i Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's NELAP Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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Results are considered Preliminary unless report is signed by authorized representative of STL.

Report Generated On: 07/16/2024 11:07 am 4G03420
STL_Results Revision #3.0 Effective: 05/29/2024

SUBURBAN TESTING LABS

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PA DEP # 06-00208
NJDEP# PA061

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Hermitage Municipal Authority STP

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F: (724) 465-4209
PADEP: 41-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 08/20/2024 19:31

Lab Sample ID#: 24H0631-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 08/05/2024 07:15
Sample End Date: 08/06/2024 07:40
Receipt Date: 08/06/2024 15:00

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L	I		5	ANO	08/07/24 04:38	08/08/24 05:56
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	<0.1	ug/L		0.1	0.2	BIL	08/14/24 15:20	08/19/24 13:38



SUBURBAN
TESTING LABS

Results Report

Order ID: 4H03032

Environmental Service Laboratories, Inc. 1803 Philadelphia Street Indiana, PA 15701	Project: 24H0631
Attn: Accounts Payable	Regulatory ID:

Sample Number: 4H03032-01	Site: 24H0631-01	Sample ID: 24H0631
Collector: Client	Collect Date: 08/06/2024 7:40 am	Sample Type: Composite

Department / Test / Parameter	Result	Units	Method	MRL	MDL	DF	Prep Date	By	Analysis Date	By
-------------------------------	--------	-------	--------	-----	-----	----	-----------	----	---------------	----

Pesticide/PCB

Pesticides, 606, PPL

4,4'-DDD	< 0.02	µg/L	EPA 608.3	0.02		1	08/12/24	SCD	08/14/24 18:13	LEB
4,4'-DDE	< 0.005	µg/L	EPA 608.3	0.005		1	08/12/24	SCD	08/14/24 18:13	LEB
4,4'-DDT	< 0.02	µg/L	EPA 608.3	0.02		1	08/12/24	SCD	08/14/24 18:13	LEB

Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recovery)	Analysis Date
Surrogate: Tetrachloro-m-xylene	0.355	µg/L	EPA 608.3	75%	1	40-104	08/14/24 18:13
Surrogate: Decachlorobiphenyl	0.282	µg/L	EPA 608.3	55%	1	28-130	08/14/24 18:13

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

The test *pH_i Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH_i Final* for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's NELAP Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate usability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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STL_Results Revision #3.0 Effective: 05/29/2024

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PA DEP # 06-00208
NJDEP# PA001



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P: (724) 463-8378 X 500
F: (724) 465-4209
PADEP: 41-04934

Hermitage WPC
2133 Broadway Road
Hermitage, PA 16148

Reported: 09/24/2024 08:20

Lab Sample ID#: 24I0101-01
Sample Type: Waste Water
Sample Source: Composite
Sampler: Client
Client Sample ID: Effluent Composite

Sample Begin Date: 09/02/2024 07:15
Sample End Date: 09/03/2024 08:00
Receipt Date: 09/03/2024 16:00

Analyte	Sample Result	Units	Data Qualifier	MDL	RL	Analyst/ Certification	Prep Date/Time	Analysis Date/Time
Total Metals	Analytical Method: EPA200.7 4.4					Prep Method: EPA 200.7 4.4		
Cadmium	<1	ug/L	I		5	ANO	09/04/24 04:36	09/04/24 10:31
Total Metals	Analytical Method: EPA245.1 3.0					Prep Method: EPA 245.1 3.0		
Mercury	0.4	ug/L		0.1	0.2	BJL	09/04/24 14:56	09/05/24 14:44



Discharge Information

Instructions Discharge Stream

Facility: **Hermitage Municipal Authority STP** NPDES Permit No.: **PA0028487** Outfall No.: **001**

Evaluation Type: **Major Sewage / Industrial Waste** Wastewater Description: **Major Sewage**

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q ₇₋₁₀	Q _n
7.7	215	6.9						

				0 if left blank		0.5 if left blank		0 if left blank			1 if left blank	
	Discharge Pollutant	Units	Max Discharge Conc	Trib Conc	Stream Conc	Daily CV	Hourly CV	Strea m CV	Fate Coeff	FOS	Criteri a Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L										
	Chloride (PWS)	mg/L										
	Bromide	mg/L										
	Sulfate (PWS)	mg/L										
	Fluoride (PWS)	mg/L										
Group 2	Total Aluminum	µg/L										
	Total Antimony	µg/L	<									
	Total Arsenic	µg/L										
	Total Barium	µg/L										
	Total Beryllium	µg/L	<									
	Total Boron	µg/L										
	Total Cadmium	µg/L	<	0.1								
	Total Chromium (III)	µg/L	<									
	Hexavalent Chromium	µg/L										
	Total Cobalt	µg/L										
	Total Copper	µg/L										
	Free Cyanide	µg/L	<									
	Total Cyanide	µg/L	<									
	Dissolved Iron	µg/L										
	Total Iron	µg/L										
	Total Lead	µg/L	<									
	Total Manganese	µg/L										
	Total Mercury	µg/L	<	0.2								
	Total Nickel	µg/L										
	Total Phenols (Phenolics) (PWS)	µg/L										
	Total Selenium	µg/L	<									
	Total Silver	µg/L	<									
	Total Thallium	µg/L	<									
	Total Zinc	µg/L										
	Total Molybdenum	µg/L	<									
	Acrolein	µg/L	<									
	Acrylamide	µg/L	<									
	Acrylonitrile	µg/L	<									
	Benzene	µg/L	<									
	Bromoform	µg/L	<									

Group 3	Carbon Tetrachloride	µg/L	<																	
	Chlorobenzene	µg/L	<																	
	Chlorodibromomethane	µg/L	<																	
	Chloroethane	µg/L	<																	
	2-Chloroethyl Vinyl Ether	µg/L	<																	
	Chloroform	µg/L	<																	
	Dichlorobromomethane	µg/L	<																	
	1,1-Dichloroethane	µg/L	<																	
	1,2-Dichloroethane	µg/L	<																	
	1,1-Dichloroethylene	µg/L	<																	
	1,2-Dichloropropane	µg/L	<																	
	1,3-Dichloropropylene	µg/L	<																	
	1,4-Dioxane	µg/L	<																	
	Ethylbenzene	µg/L	<																	
	Methyl Bromide	µg/L	<																	
	Methyl Chloride	µg/L	<																	
	Methylene Chloride	µg/L	<																	
	1,1,2,2-Tetrachloroethane	µg/L	<																	
	Tetrachloroethylene	µg/L	<																	
	Toluene	µg/L	<																	
	1,2-trans-Dichloroethylene	µg/L	<																	
Group 4	1,1,1-Trichloroethane	µg/L	<																	
	1,1,2-Trichloroethane	µg/L	<																	
	Trichloroethylene	µg/L	<																	
	Vinyl Chloride	µg/L	<																	
	2-Chlorophenol	µg/L	<																	
	2,4-Dichlorophenol	µg/L	<																	
	2,4-Dimethylphenol	µg/L	<																	
	4,6-Dinitro-o-Cresol	µg/L	<																	
	2,4-Dinitrophenol	µg/L	<																	
	2-Nitrophenol	µg/L	<																	
	4-Nitrophenol	µg/L	<																	
	p-Chloro-m-Cresol	µg/L	<																	
Group 5	Pentachlorophenol	µg/L	<																	
	Phenol	µg/L	<																	
	2,4,6-Trichlorophenol	µg/L	<																	
	Acenaphthene	µg/L	<																	
	Acenaphthylene	µg/L	<																	
	Anthracene	µg/L	<																	
	Benzidine	µg/L	<																	
	Benzo(a)Anthracene	µg/L	<																	
	Benzo(a)Pyrene	µg/L	<																	
	3,4-Benzofluoranthene	µg/L	<																	
	Benzo(ghi)Perylene	µg/L	<																	
	Benzo(k)Fluoranthene	µg/L	<																	
	Bis(2-Chloroethoxy)Methane	µg/L	<																	
	Bis(2-Chloroethyl)Ether	µg/L	<																	
	Bis(2-Chloroisopropyl)Ether	µg/L	<																	
	Bis(2-Ethylhexyl)Phthalate	µg/L	<																	
	4-Bromophenyl Phenyl Ether	µg/L	<																	
	Butyl Benzyl Phthalate	µg/L	<																	
	2-Chloronaphthalene	µg/L	<																	
	4-Chlorophenyl Phenyl Ether	µg/L	<																	
	Chrysene	µg/L	<																	
	Dibenzo(a,h)Anthracene	µg/L	<																	
	1,2-Dichlorobenzene	µg/L	<																	
	1,3-Dichlorobenzene	µg/L	<																	
	1,4-Dichlorobenzene	µg/L	<																	
	3,3-Dichlorobenzidine	µg/L	<																	
	Diethyl Phthalate	µg/L	<																	
	Dimethyl Phthalate	µg/L	<																	
	Di-n-Butyl Phthalate	µg/L	<																	
	2,4-Dinitrotoluene	µg/L	<																	

NPDES Permit Fact Sheet

Hermitage Municipal Authority STP

NPDES Permit No. PA0028487 A-1

[illegible]



Stream / Surface Water Information

Hermitage Municipal Authority STP, NPDES Permit No. PA0028487, Outfall 001

Instructions Discharge **Stream**

Receiving Surface Water Name: **Shenango River**

No. Reaches to Model: **1**

- ☒ Statewide Criteria
☐ Great Lakes Criteria
☐ ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	035482	23.4	836	710			Yes
End of Reach 1	035482	16	833	743			Yes

Q₇₋₁₀

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	23.4	0.24										116.1	7		
End of Reach 1	16	0.24													

Q_n

Location	RMI	LFY (cfs/mi ²)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	23.4														
End of Reach 1	16														



Hermitage Municipal Authority STP, NPDES Permit No. PA0028487, Outfall 001

☐ Limits

Analysis pH: 6.94

[illegible]

NPDES Permit No. PA0028487 A-1

[illegible]

[illegible]

Analysis pH: N/A

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.050	0.05	0.3	
4,4-DDT	0	0		0	N/A	N/A	N/A	

NPDES Permit No. PA0028487 A-1

[illegible]

[illegible]

Analysis pH: N/A

[illegible]

[illegible]

No. Samples/Month: 4

[illegible]

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., < Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Cadmium	N/A	N/A	Discharge Conc < TQL
Total Mercury	N/A	N/A	Discharge Conc < TQL
4,4-DDT	N/A	N/A	Discharge Conc < TQL
4,4-DDE	N/A	N/A	Discharge Conc < TQL
4,4-DDD	N/A	N/A	Discharge Conc < TQL