Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0221686**
Facility Type	**Storm Water**	APS ID	**1142510**
Major / Minor	**Minor**	Authorization ID	**1535888**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Macdonald & Owen Veneer and Lumber Co. Inc.**	Facility Name	**Macdonald & Owen Lumber**
Applicant Address	11424 Route 36	Facility Address	11424 Route 36
	Brookville, PA 15825-8656		Brookville, PA 15825-8656
Applicant Contact	Terry Hockinson	Facility Contact	Terry Hockinson
Applicant Phone	(800) 657-6990	Facility Phone	(800) 657-6990
Client ID	281290	Site ID	258580
SIC Code	2421	Municipality	Oliver Township
SIC Description	Manufacturing - Sawmills and Planing Mills, General	County	Jefferson
Date Application Received	August 1, 2025	EPA Waived?	Yes
Date Application Accepted		If No, Reason	---

Purpose of Application: Renewal application for an Individual Stormwater Permit for a Lumber Mill

Summary of Review

On August 1, 2025, the Department received a renewal application for Individual Permit No. PA0111686 which is set to expire on February 28, 2026. On October 31, a modified application package was received which proposed 2 additional outfalls (Outfall 009 & Outfall 010) which are to be represented by Outfall 002. This facility is a dry kiln concentration yard for hardwood lumber with the SIC Code 2421.

This permit does not qualify for a general PAG-03 permit because it discharges to Beaver Run, which has an HQ-CWF stream designation.

Act 14 notifications were submitted and received.

The permittee is currently using the Departments eDMR system for reporting.

There are no open violations in WMS for the subject Client ID (281290) as of September 18, 2025.

Proposed Changes:

- Addition of Total Nitrogen monitoring
- Addition of Total Phosphorous monitoring
- 2 new additional outfalls have been linked the facility. These outfalls are represented by Outfall 002 but are still included in the stormwater outfall table in Part C of the permit.

Approve	Deny	Signatures	Date
X		Carlee Wilson Carlee Wilson / Environmental Engineering Trainee	November 4, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	November 12, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002, 004, 006, 007, and 008	Design Flow (MGD)	0.0
	41° 4' 20.93"		-79° 7' 8.68"
	41° 4' 19.44"		-79° 7' 2.88"
	41° 4' 16.01"		-79° 6' 58.34"
	41° 4' 15.88"		-79° 6' 57.41"
	41° 4' 14.11"		-79° 7' 55.38"
Latitude		Longitude	
Quad Name	Coolspring	Quad Code	1013
Wastewater Description:	Stormwater		

Receiving Waters	Beaver Run (HQ-CWF)	Stream Code	48447
NHD Com ID	123855528	RMI	4.74 - 5.06
Drainage Area	-	Yield (cfs/mi^2)	-
Q_{7-10} Flow (cfs)	-	Q_{7-10} Basis	-
Elevation (ft)	1375	Slope (ft/ft)	-
Watershed No.	17-C	Chapter 93 Class.	HQ-CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	METALS		
Source(s) of Impairment	ACID MINE DRAINAGE		
TMDL Status	Final	Name	Beaver Run

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Hawthorn Area Water Authority		
PWS Waters	Redbank Creek	Flow at Intake (cfs)	30.5
PWS RMI	29	Distance from Outfall (mi)	12.8

Changes Since Last Permit Issuance: None

Other Comments: Beaver Run is a TMDL stream for metals, pH, iron, manganese, and aluminum. This TMDL is due to acid mine drainage. This facility does not have an assigned waste load allocation.

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 002 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Semi-Annual Average		0.00021						0.0015				
pH (S.U.) Instantaneous Minimum		7.89						7.97				
pH (S.U.) Instantaneous Maximum		7.89						7.97				
COD (mg/L) Semi-Annual Average		168						< 25.0				
TSS (mg/L) Semi-Annual Average		30.0						< 4.0				
Oil and Grease (mg/L) Semi-Annual Average		< 5.0						< 5.0				
Total Aluminum (mg/L) Semi-Annual Average		6.1						0.36				
Total Arsenic (mg/L) Semi-Annual Average		GG						GG				
Total Chromium (mg/L) Semi-Annual Average		GG						GG				
Total Copper (mg/L) Semi-Annual Average		GG						GG				
Total Iron (mg/L) Semi-Annual Average		13.2						0.38				
Total Manganese (mg/L) Semi-Annual Average		4.0						0.037				
Pentachloro-phenol (mg/L) Semi-Annual Average		GG						GG				

DMR Data for Outfall 004 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Semi-Annual Average		0.00021						0.0015				
pH (S.U.) Instantaneous Minimum		7.91						8.20				
pH (S.U.) Instantaneous Maximum		7.91						8.20				
COD (mg/L) Semi-Annual Average		36.1						40.1				
TSS (mg/L) Semi-Annual Average		106						5.0				
Oil and Grease (mg/L) Semi-Annual Average		< 5.0						< 5.0				
Total Aluminum (mg/L) Semi-Annual Average		0.20						0.95				
Total Arsenic (mg/L) Semi-Annual Average		GG						GG				
Total Chromium (mg/L) Semi-Annual Average		GG						GG				
Total Copper (mg/L) Semi-Annual Average		GG						GG				
Total Iron (mg/L) Semi-Annual Average		1.1						2.3				
Total Manganese (mg/L) Semi-Annual Average		0.094						0.21				
Pentachloro-phenol (mg/L) Semi-Annual Average		GG						GG				

DMR Data for Outfall 006 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Semi-Annual Average		0.00021						0.0015				
pH (S.U.) Instantaneous Minimum		8.10						8.54				
pH (S.U.) Instantaneous Maximum		8.10						8.54				
COD (mg/L) Semi-Annual Average		66.7						< 25.0				
TSS (mg/L) Semi-Annual Average		65.0						5.0				
Oil and Grease (mg/L) Semi-Annual Average		< 5.0						< 5.0				
Total Aluminum (mg/L) Semi-Annual Average		1.9						0.38				
Total Arsenic (mg/L) Semi-Annual Average		GG						GG				
Total Chromium (mg/L) Semi-Annual Average		GG						GG				
Total Copper (mg/L) Semi-Annual Average		GG						GG				
Total Iron (mg/L) Semi-Annual Average		3.9						0.95				
Total Manganese (mg/L) Semi-Annual Average		0.79						0.079				
Pentachloro-phenol (mg/L) Semi-Annual Average		GG						GG				

DMR Data for Outfall 007 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Semi-Annual Average		0.00021						0.0015				
pH (S.U.) Instantaneous Minimum		8.17						8.31				
pH (S.U.) Instantaneous Maximum		8.17						8.31				
COD (mg/L) Semi-Annual Average		43.1						33.1				
TSS (mg/L) Semi-Annual Average		62.0						< 4.0				
Oil and Grease (mg/L) Semi-Annual Average		< 5.0						< 5.0				
Total Aluminum (mg/L) Semi-Annual Average		0.19						0.37				
Total Arsenic (mg/L) Semi-Annual Average		GG						GG				
Total Chromium (mg/L) Semi-Annual Average		GG						GG				
Total Copper (mg/L) Semi-Annual Average		GG						GG				
Total Iron (mg/L) Semi-Annual Average		1.2						1.1				
Total Manganese (mg/L) Semi-Annual Average		0.12						0.15				
Pentachloro-phenol (mg/L) Semi-Annual Average		GG						GG				

DMR Data for Outfall 008 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Semi-Annual Average		0.00021						0.0015				
pH (S.U.) Instantaneous Minimum		8.47						8.60				
pH (S.U.) Instantaneous Maximum		8.47						8.60				
COD (mg/L) Semi-Annual Average		40.8						< 25.0				
TSS (mg/L) Semi-Annual Average		11.0						< 4.0				
Oil and Grease (mg/L) Semi-Annual Average		< 5.0						< 5.0				
Total Aluminum (mg/L) Semi-Annual Average		0.39						0.043				
Total Arsenic (mg/L) Semi-Annual Average		GG						GG				
Total Chromium (mg/L) Semi-Annual Average		GG						GG				
Total Copper (mg/L) Semi-Annual Average		GG						GG				
Total Iron (mg/L) Semi-Annual Average		1.4						< 0.050				
Total Manganese (mg/L) Semi-Annual Average		0.11						< 0.0050				
Pentachloro-phenol (mg/L) Semi-Annual Average		GG						GG				

Compliance History

Summary of DMRs:	Semi-Annual Reports are completed and submitted on time. There have been no effluent violations in the last year.
Summary of Inspections:	The last inspection was conducted on February 1, 2023, by Brian Tollini. No violations were noted.

Notes from previous fact sheet:

A 2009 site visit revealed signs of mine seepage along the naturally occurring stormwater ditches, and along the riverbanks upstream and downstream from the discharge. The cause of stormwater pollution was determined to be from past mining activities in the area, which results in high levels of iron being reported.

BMPs at the site include a lot sweeper, catch basins, and sediment traps, which when properly maintained show a significant reduction in pollutant concentrations being reported.

Development of Effluent Limitations

Outfall No.	002	**Design Flow (MGD)**	0.0
Latitude	41° 4’ 20.93”	**Longitude**	-79° 7’ 8.68”
Outfall No.	004	**Design Flow (MGD)**	0.0
Latitude	41° 4’ 19.44”	**Longitude**	-79° 7’ 8.68”
Outfall No.	006	**Design Flow (MGD)**	0.0
Latitude	41° 4’ 16.01”	**Longitude**	-79° 6’ 58.34”
Outfall No.	007	**Design Flow (MGD)**	0.0
Latitude	41° 4’ 15.88”	**Longitude**	-79° 6’ 57.41”
Outfall No.	008	**Design Flow (MGD)**	0.0
Latitude	41° 4’ 14.11”	**Longitude**	-79° 7’ 55.38”

Technology-Based Limitations

Outfalls 002, 004, 006, 007, and 008 are subject to PAG-03 General Stormwater Permit conditions as a minimum requirement because the outfalls receive stormwater. The SIC code for the site is 2421 and the corresponding appendix of the PAG-03 applied to the facility is Appendix D. The reporting requirements applicable to stormwater discharges are shown in Table 2 below.

Table 1. Tech-Based Limits and Monitoring Requirements for Outfalls 002, 004, 006, 007, and 008

Parameter	*Limit (mg/l)*	*SBC*	*Measurement Frequency*	*Sample Type*
Flow	Report	Semi-Annual Average	1/ 6 months	Estimate
Total Nitrogen	Report	Semi-Annual Average	1/6 months	Grab
Total Phosphorus	Report	Semi-Annual Average	1/6 months	Grab
pH	Report	Semi-Annual Average	1/6 months	Grab
Chemical Oxygen Demand	Report	Semi-Annual Average	1/6 months	Grab
Total Suspended Solids	Report	Semi-Annual Average	1/6 months	Grab
Pentachlorophenol	Report	Semi-Annual Average	1/6 months	Grab
Total Arsenic	Report	Semi-Annual Average	1/6 months	Grab
Total Chromium	Report	Semi-Annual Average	1/6 months	Grab
Total Copper	Report	Semi-Annual Average	1/6 months	Grab
Oil and Grease	15	Semi-Annual Average	1/6 months	Grab
	30	IMAX		

Comments: Monitoring limits for Total Nitrogen and Total Phosphorus are proposed based on the stormwater requirements for Appendix D facilities from the PAG-03 General Permit. In the previous permit renewal, Oil & Grease occasionally reached levels exceeding 8 mg/L; therefore, it was re-instated as a technology limit into the permit limitations. The Oil and Grease limitations will be retained into this permit renewal.

Best Professional Judgment (BPJ) Limitations

In the previous permit renewal, Total Iron, Total Aluminum, and Total Manganese occasionally reached concentrations exceeding water quality criteria, therefore were carried over in order to continue collecting data since the discharges are to a watercourse with an approved TMDL, but with no waste load allocations assigned to the facility. Monitoring requirements for Total Iron, Total Aluminum, and Total Manganese will be retained into this permit renewal as well.

Water Quality-Based Limitations

Stormwater WQBELS

Water Quality Modeling for stormwater is not currently conducted under current DEP water quality review practices. Water quality criteria compliance is determined under low flow (Q_{7-10} Flow) conditions, where stormwater influences would not be accurate since stormwater runoff occurs at variable rates and frequencies, but not however during Q_{7-10} conditions.

Anti-Backsliding

Table 2. Current Permit Limits for Outfalls 002, 004, 006, 007, and 008

Parameter	*Limit (mg/l)*	*SBC*	*Measurement Frequency*	*Sample Type*
Flow	Report	Semi-Annual Average	1/ 6 months	Estimate
pH	Report	Minimum/Maximum	1/ 6 months	Grab
Chemical Oxygen Demand	Report	Semi-Annual Average	1/ 6 months	Grab
Total Suspended Solids	Report	Semi-Annual Average	1/ 6 months	Grab
Pentachlorophenol	Report	Semi-Annual Average	1/ 6 months	Grab
Total Arsenic	Report	Semi-Annual Average	1/ 6 months	Grab
Total Chromium	Report	Semi-Annual Average	1/ 6 months	Grab
Total Copper	Report	Semi-Annual Average	1/ 6 months	Grab
Oil and Grease	15	Semi-Annual Average	1/ 6 months	Grab
	30	IMAX		
Total Aluminum	Report	Semi-Annual Average	1/ 6 months	Grab
Total Iron	Report	Semi-Annual Average	1/ 6 months	Grab
Total Manganese	Report	Semi-Annual Average	1/ 6 months	Grab
Pentachloro-phenol	Report	Semi-Annual Average	1/ 6 months	Grab

Comments: The previous permit limitations, monitoring requirements, and conditions will be retained with the addition of monitoring for Total Nitrogen and Total Phosphorus.

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.

Outfalls 002, 004, 006, 007, and 008 Effective Period: Permit Effective Date through Permit Expiration Date.

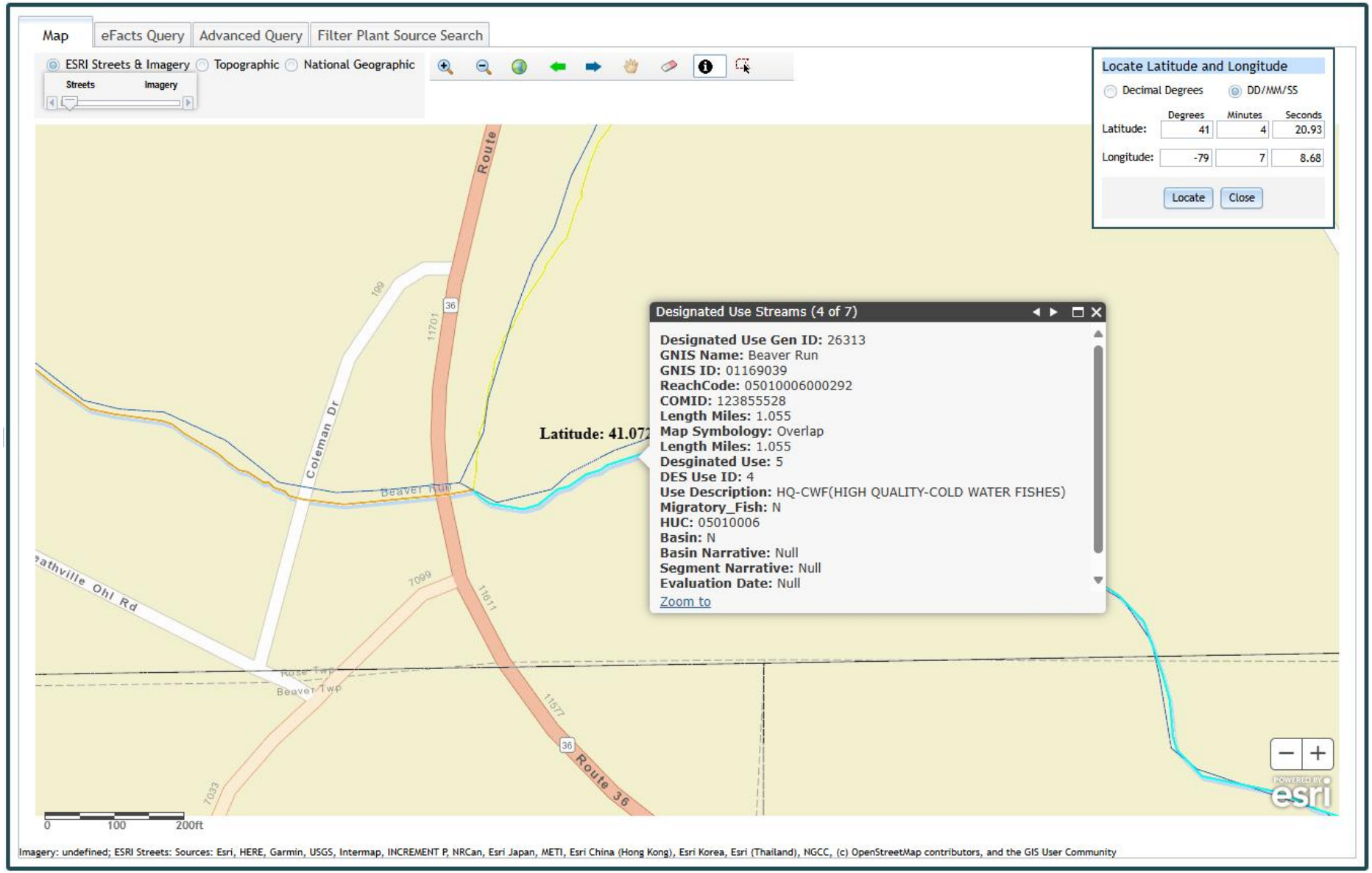
Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Semi-Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report SEMI AVG	XXX	XXX	XXX	XXX	XXX	1/6 months	Estimate
pH (S.U.)	XXX	XXX	Report Inst Min	XXX	XXX	Report	1/6 months	Grab
COD	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30.0	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Manganese	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Pentachloro-phenol	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab
Total Phosphorous	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab

Compliance Sampling Location: Outfalls 002, 004, 006, 007, and 008

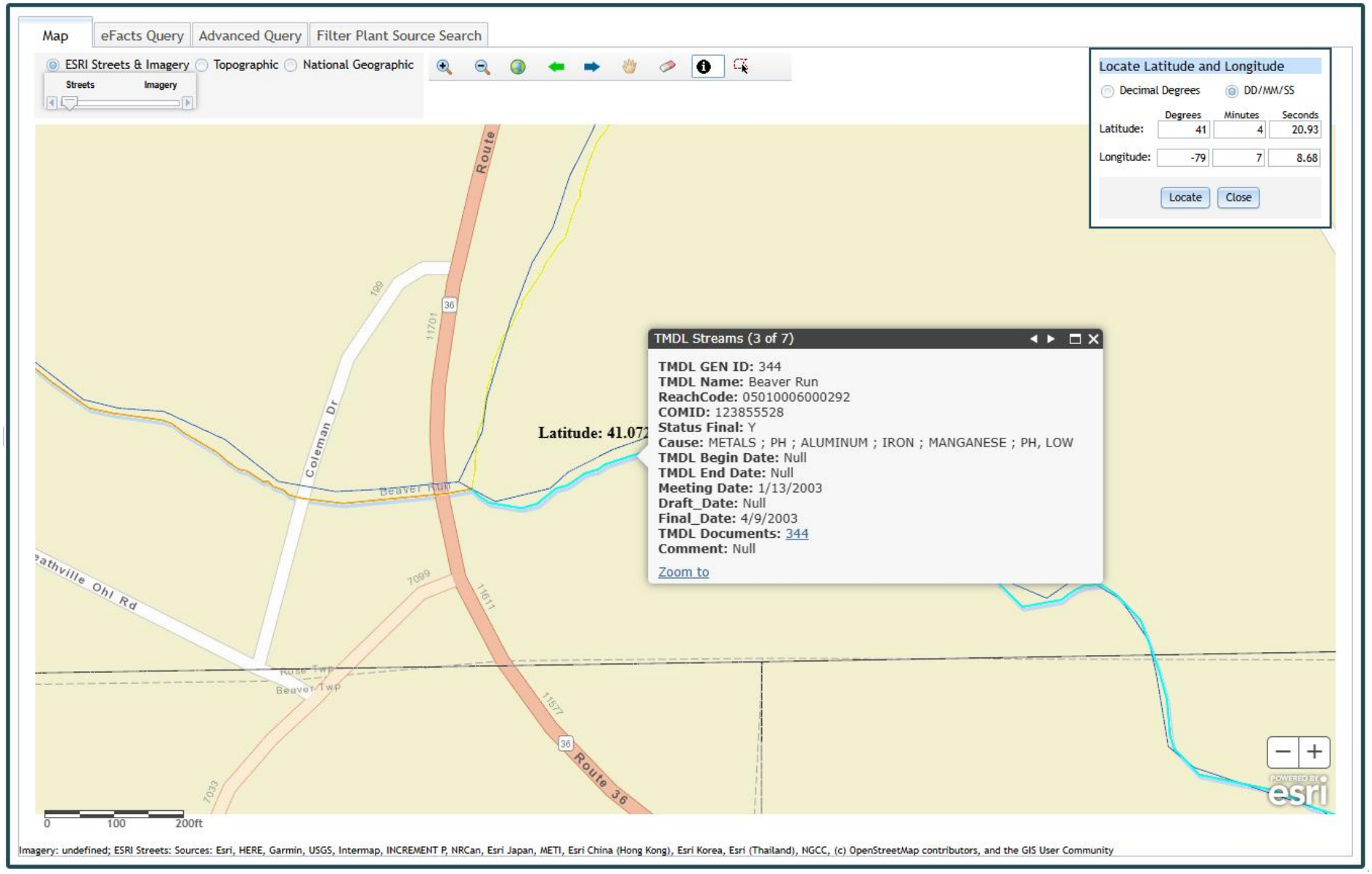
(1) Facilities that use chlorophenolic formulations must monitor for Pentachlorophenol. For all other facilities, monitoring for Pentachlorophenol is optional. If monitoring is not conducted, the permittee shall use a No Data Indicator (NODI) code on the DMR in lieu of sample data.

(2) Facilities that use chromium/copper/arsenic formulations must monitor for Total Arsenic, Total Chromium and Total Copper. For all other facilities, monitoring for Total Arsenic, Total Chromium and Total Copper is optional. If monitoring is not conducted, the permittee shall use a No Data Indicator (NODI) code on the DMR in lieu of sample data.

Attachment 1
eMapPA – Designated Use of Receiving Stream



Attachment 2
eMapPA – TDMLs of Receiving Stream



Attachment 3
Google Earth – Aerial Site View