

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0289442
APS ID 1038320
Authorization ID 1353867

Applicant, Facility and Project Information

| | | | |
|---------------------------|---|------------------|--|
| Applicant Name | <u>Gordon Long</u> | Facility Name | <u>Gordon Long SRSTP</u> |
| Applicant Address | <u>8881 Old Waterford Road</u> <u>Erie, PA 16509-5647</u> | Facility Address | <u>8881 Old Waterford Road</u> <u>Erie, PA 16509-5647</u> |
| Applicant Contact | <u>Gordon Long</u> | Facility Contact | <u>Gordon Long</u> |
| Applicant Phone | <u>814-873-2533</u> | Facility Phone | <u>814-873-2533</u> |
| Applicant Email | <u>Gblong10@gmail.com</u> | | |
| Client ID | <u>362832</u> | Site ID | <u>847710</u> |
| SIC Code | <u>8800</u> | Municipality | <u>Greene Township</u> |
| SIC Description | <u>Private Households</u> | County | <u>Erie</u> |
| Date Application Received | <u>April 26, 2021</u> | WQM Required | <u>Yes</u> |
| Date Application Accepted | <u>May 14, 2021</u> | WQM App. No. | <u>2521413</u> |
| Project Description | <u>Discharge associated with a single residence sewage treatment plant (SRSTP).</u> | | |

Summary of Review

This is a new discharge of a single residence sewage treatment plant (SRSTP) that will replace a malfunctioning on-lot system located at 8881 Old Waterford Road, Erie, PA 16509.

Act 14 – Proof of Notification was submitted and received.

Proposed treatment will consist of (WQM Permit No. 2521413): A Norweco Singlair Bio-Kinetic Model 960-500 treatment unit followed by a Hydro-Kinetic Bio-Film Reactor with integrated UV disinfection.

The EPA Waiver is in effect.

Planning approval is dated April 6, 2021 for a 400-GPD SRSTP.

There are no open violations in WMS for the subject Client ID (362832) as of May 14, 2021.

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.

| Approve | Deny | Signatures | Date |
|---------|------|---|--------------|
| X | | Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager | May 14, 2021 |

Discharge and Stream Data – 2 - Receiving Waters and PWS

| Discharge, Receiving Waters and Water Supply Information | | | |
|--|--|------------------------------|---------------------|
| Outfall No. | <u>001</u> | Design Flow (MGD) | <u>.0004</u> |
| Latitude | <u>42° 3' 45.7"</u> | Longitude | <u>-80° 0' 6.0"</u> |
| Quad Name | <u>Erie South</u> | Quad Code | <u>42080</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Unnamed Tributary to Walnut Creek (CWF, MF)</u> | Stream Code | <u>62470</u> |
| NHD Com ID | <u>123922850</u> | RMI | <u>1.52</u> |
| Drainage Area | <u>---</u> | Yield (cfs/mi ²) | <u>---</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>---</u> | Q ₇₋₁₀ Basis | <u>---</u> |
| Elevation (ft) | <u>---</u> | Slope (ft/ft) | <u>---</u> |
| Watershed No. | <u>15-A</u> | Chapter 93 Class. | <u>CWF, MF</u> |
| Existing Use | <u>---</u> | Existing Use Qualifier | <u>---</u> |
| Exceptions to Use | <u>---</u> | Exceptions to Criteria | <u>---</u> |
| Assessment Status | <u>Attaining Use(s)</u> | | |
| Cause(s) of Impairment | <u>---</u> | | |
| Source(s) of Impairment | <u>---</u> | | |
| TMDL Status | <u>---</u> | Name | <u>---</u> |
| Background/Ambient Data | | Data Source | |
| pH (SU) | <u>---</u> | | <u>---</u> |
| Temperature (°F) | <u>---</u> | | <u>---</u> |
| Hardness (mg/L) | <u>---</u> | | <u>---</u> |
| Other: | <u>---</u> | | <u>---</u> |
| Nearest Downstream Public Water Supply Intake | <u>Lake Erie – International Border</u> | | |
| PWS Waters | <u>Lake Erie</u> | Flow at Intake (cfs) | <u>---</u> |
| PWS RMI | <u>---</u> | Distance from Outfall (mi) | <u>---</u> |

Changes Since Last Permit Issuance: N/A – This is a proposed facility.

Other Comments: This SRSTP was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of a Ecoflo Coco filter unit.

The Norweco Singlair Bio-Kinetic Model 960-500 treatment unit with a Hydro-Kinetic Bio-Film Reactor unit is reportedly capable of meeting CBOD₅ averages of 10 mg/l and TSS averages of 10 mg/l.

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" (362-0400-001), SOPs and/or BPJ.

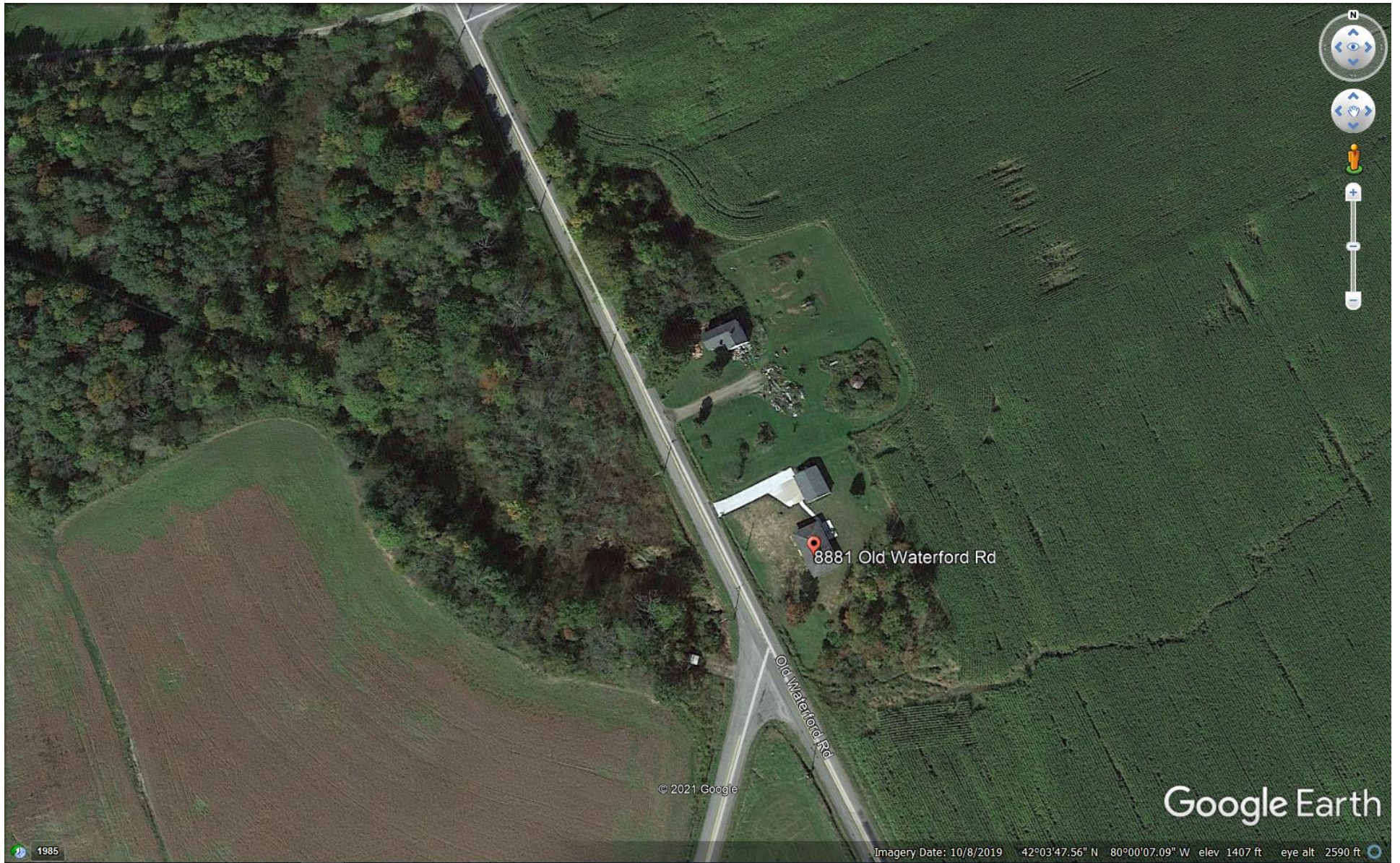
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

| Parameter | Effluent Limitations | | | | | | Monitoring Requirements | |
|-----------------------------|-------------------------------------|-------------------|-----------------------|-------------------|---------|---------------------|--|----------------------------|
| | Mass Units (lbs/day) ⁽¹⁾ | | Concentrations (mg/L) | | | | Minimum ⁽²⁾ Measurement Frequency | Required Sample Type |
| | Average Monthly | Average Weekly | Minimum | Annual Average | Maximum | Instant. Maximum | | |
| Flow (GPD) | Report Annl Avg | XXX | XXX | XXX | XXX | XXX | 1/year | Estimate |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | Upon Request | Grab |
| BOD5 | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/year | Grab |
| TSS | XXX | XXX | XXX | 10.0 | XXX | 20 | 1/year | Grab |
| Fecal Coliform (No./100 ml) | XXX | XXX | XXX | 200 | XXX | XXX | 1/year | Grab |

Compliance Sampling Location: Outfall 001 after disinfection

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD₅, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Google Earth – Aerial Imagery of Project Location



eMAP – Discharge Location with Stream Designation

The screenshot displays the Pennsylvania eMapPA web application interface. At the top, the Pennsylvania Department of Environmental Protection logo is visible, along with the names of the Governor (Tom Wolf) and Secretary (Patrick McDonnell). The main map area shows an aerial view with a cyan line representing a stream. A popup window titled "Designated Use Streams (1 of 3)" provides the following details:

- Designated Use Gen ID: 94290
- GNIS Name:
- Reach Code: 04120101000383
- COMID: 123922850
- Length Miles: 1.524
- Map Symbology: CWF
- Length Miles: 1.524
- Designated Use: 2
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory_Fish: Y
- HUC: 04120101
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Edit Date: Null
- Zoom to

To the right of the map is a "Locate Latitude and Longitude" tool with input fields for Degrees, Minutes, and Seconds for both Latitude and Longitude. The current values are Latitude: 42, 3, 45.7 and Longitude: -80, 0, 6. A "Locate" button is present below the fields. The map also includes a legend on the left side, a scale bar (0 to 600ft), and a footer with imagery source information.