

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0252816
APS ID 917199
Authorization ID 1372944

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|---|
| Applicant Name | <u>Rosebud Mining Co.</u> | Facility Name | <u>Madison Deep Mine</u> |
| Applicant Address | <u>301 Market Street</u> <u>Kittanning, PA 16201-1504</u> | Facility Address | <u>Swigle Mountain Road Sr 3043</u> <u>Mineral Point, PA 15942</u> |
| Applicant Contact | <u>Angela Lieb</u> | Facility Contact | <u>Angela Lieb</u> |
| Applicant Phone | <u>(724) 545-6222</u> | Facility Phone | <u>(724) 545-6222</u> |
| Client ID | <u>51461</u> | Site ID | <u>628282</u> |
| SIC Code | <u>1222</u> | Municipality | <u>Jackson Township</u> |
| SIC Description | <u>Mining - Bituminous Coal - Underground</u> | County | <u>Cambria</u> |
| Date Application Received | <u>October 5, 2021</u> | WQM Required | <u>No</u> |
| Date Application Accepted | <u>N/A</u> | WQM App. No. | <u>N/A</u> |
| Project Description | <u>Permit renewal.</u> | | |

Summary of Review

This application was received to renew an NPDES permit. This is a Small Flow Treatment Facility (SFTF). The permit application was evaluated and the limitations in the existing permit will be retained in this permit. The receiving water is a High Quality water but there is no new, additional or increase in flow. The monitoring frequency and sample type will also be retained in this permit renewal.

Based on the previous Fact Sheet: the existing treatment process consists of septic tank, dosing tank with alarm, subsurface sand mound, chlorinator, chlorine contact tank, de-chlorination. The previous effluent limitations (prior to the 2017 renewal) were based on the Antidegradation Implementation Guidance. Prior to discharging Saltlick Run, the effluent is combined with treated acid mine drainage, and is conveyed approximately 0.5 mile from the treatment plant before discharging into Saltlick Run. The permittee is required to sample the effluent prior to discharging into the mine treatment pond, which is located at 40° 24' 22" and 78° 48' 38". The point at which the effluent is discharged into the Saltlick Run is 40° 22' 51" and 78° 50' 09".

The facility uses the eDMR system. As of November 30, 2021, there are about 7 non-compliances in the past 2 years. An Inspection of the facility was conducted 5/22/2018, which is less than 5 years ago and no violations were noted.

An Open Violations Report was run on 11/30/2021 and there are 2 open violations by Mining, but no open violations by Clean Water.

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

| Approve | Deny | Signatures | Date |
|---------|------|--|-------------------|
| X | | Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/ | November 30, 2021 |
| X | | Pravin C. Patel, P.E. / Environmental Engineer Manager /s/ | 12/01/2021 |

Summary of Review

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.

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>.00193</u> |
| Latitude | <u>40° 22' 51.50"</u> | Longitude | <u>-78° 50' 9.02"</u> |
| Quad Name | <u>Nanty Glo</u> | Quad Code | <u>1515</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Saltlick Run (HQ-CWF)</u> | Stream Code | <u>45830</u> |
| NHD Com ID | <u>123720982</u> | RMI | <u>0.13</u> |
| Drainage Area | <u>11.9</u> | Yield (cfs/mi ²) | <u>0.0235</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.2797</u> | Q ₇₋₁₀ Basis | <u>Last Fact Sheet</u> |
| Watershed No. | <u>18-E</u> | Chapter 93 Class. | <u>HQ-CWF</u> |
| Existing Use | <u>Same as Chapter 93</u> | Existing Use Qualifier | <u>N/A</u> |
| Exceptions to Use | <u>None</u> | Exceptions to Criteria | <u>N/A</u> |
| Assessment Status | <u>Impaired</u> | | |
| Cause(s) of Impairment | <u>Metals</u> | | |
| Source(s) of Impairment | <u>Acid Mine Drainage</u> | | |
| TMDL Status | <u>Final</u> | Name | <u>Kiskiminetas-Conemaugh River Watersheds TMDL</u> |
| Nearest Downstream Public Water Supply Intake | | <u>Buffalo Township Municipal Authority - Freeport</u> | |

Changes Since Last Permit Issuance: None

Other Comments: None

| Compliance History | |
|--------------------------------|--|
| Summary of DMRs: | Minor non-compliances noted |
| Summary of Inspections: | No violations noted in the Inspection Report |

Other Comments: None

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 | Average Monthly | Maximum | Instant. Maximum | | |
| Flow (MGD) | 0.00193 | XXX | XXX | XXX | XXX | XXX | 1/month | Measured |
| pH (S.U.) | XXX | XXX | 6.0 | XXX | 9.0 | XXX | 1/month | Grab |
| DO | XXX | XXX | 6.0 | XXX | XXX | XXX | 1/month | Grab |
| TRC | XXX | XXX | XXX | 0.5 | XXX | 1.17 | 1/month | Grab |
| CBOD5 Nov 1 - Apr 30 | XXX | XXX | XXX | 20 | XXX | 40 | 1/month | Grab |
| CBOD5 May 1 - Oct 31 | XXX | XXX | XXX | 10 | XXX | 20 | 1/month | Grab |
| TSS | XXX | XXX | XXX | 20 | XXX | 40 | 1/month | Grab |
| Fecal Coliform (No./100 ml) Oct 1 - Apr 30 | XXX | XXX | XXX | 2000 Geo Mean | XXX | 10000 | 1/month | Grab |
| Fecal Coliform (No./100 ml) May 1 - Sep 30 | XXX | XXX | XXX | 200 Geo Mean | XXX | 1000 | 1/month | Grab |
| Ammonia Nov 1 - Apr 30 | XXX | XXX | XXX | 15.0 | XXX | 30.0 | 1/month | Grab |
| Ammonia May 1 - Oct 31 | XXX | XXX | XXX | 5.0 | XXX | 10.0 | 1/month | Grab |

Compliance Sampling Location: Outfall 001

Other Comments: None