

Application Type Amendment  
Coal Refuse  
Disposal  
Area

Facility Type \_\_\_\_\_

Site ID 777061

**FACT SHEET ADDENDUM INDIVIDUAL  
NPDES PERMIT ASSOCIATED  
WITH MINING ACTIVITIES**

Application No. PA0236268

APS ID 875171

Authorization ID 1080955

**Applicant and Facility Information**

Applicant Name	<u>Consol Pennsylvania Coal Company LLC</u>	Facility Name	<u>Bailey Coal Refuse Areas 7 &amp; 8</u>
Applicant Address	<u>1000 CONSOL Energy Drive Canonsburg, PA 15317</u>	Main Portal Location	<u>Latitude: 39° 59' 00"</u> <u>Longitude: -80° 22' 18"</u>
Applicant Contact	<u>Jaculyn Duke jaculynduke@consolenergy.com</u>	Facility Contact	<u>Cody Earnest codyearnest@consolenergy.com</u>
Applicant Phone/Email	<u>724-663-3059</u>	Facility Phone	<u>724-663-3037</u>
Client ID	<u>259457</u>	CMAP No.	<u>30130701</u>
SIC Code/Description	<u>1222- Bituminous Coal Underground Mining</u>	Municipality	<u>Morris</u>
Type of Mining Activity	<u>Coal Refuse Disposal Area</u>	County	<u>Greene</u>
Date Application Received	<u>June 18, 2015</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>July 22, 2015</u>	If No, Reason	<u>Mining discharge to Monongahela River watershed.</u>
Purpose of Application	<u>New permit.</u>		



**Summary of Review**

Consol Pennsylvania Coal Company ("Consol") has constructed refuse disposal area 8 for coarse coal refuse disposal and is proposing to construct coal refuse disposal area 7 for fine coal refuse disposal. Both refuse disposal areas are associated with the Bailey Mine. The main portal is in Richhill Township but the coal refuse disposal facility will be located in in Morris Township in Greene County.

Consol has applied for an amendment to the NPDES permit for two additional outfalls to be associated with refuse disposal area 7. Outfalls 702 to be used during refuse placement and Outfall 701 to be used during construction. Outfall 701 received effluent limitations for both TDS and osmotic pressure. This facility is associated with the larger Bailey Mine complex, discharges to an impaired stream and is also 12.59 miles upstream of the West Virginia state border. Therefore, the EPA waiver is not in effect.

On April 5<sup>th</sup> the draft NPDES permit was conveyed to the company and EPA. On April 13<sup>th</sup> the draft effluent limitations appeared in the Pennsylvania Bulletin. Ms. Jaculyn Duke of Consol submitted a comment on April 12<sup>th</sup> that the effluent limitation on osmotic pressure is redundant because the effluent limitation for Total Dissolved Solids (the effluent standard from 25 Pa Code §95.10) will control for osmotic pressure. Osmotic pressure and TDS are both different ways to measure the concentration of dissolved constituents in the water; they are different measures of the same thing.

The average monthly limit for TDS is 2,000 mg/L. To achieve the effluent limitation for TDS the osmotic pressure will be, at most, 60 mOs/kg. The required average monthly effluent limitation for osmotic pressure is 79 mOs/kg. Therefore, if the permittee complies with the effluent limitation for TDS then the required effluent limitation for osmotic pressure will be achieved. DEP concurs with this comment and is amending the draft to remove the effluent limitation for osmotic pressure. The permittee will still be required to report the osmotic pressure of the discharge. The effluent limitations are being republished as they are becoming less stringent.

Approve	Deny	Signatures	Date
X		 Elizabeth Farley, P.E. / Hydraulic Engineer	4-19-19
X		 Troy Williams, P.E. / Environmental Engineer Manager	4.19.19

Fri 4/12/2019 10:16 AM

Duke, Jaculyn <JaculynDuke@consolenergy.com>

[External] RE: Refuse Area 7

To Farley, Elizabeth

Cc Baldwin, Robert; Goodballet, Kerry (Kampfer)

You forwarded this message on 4/12/2019 11:06 AM.

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Hi Beth,

Thanks for the info. We would like you to re-advertise to monitor and report only OP for outfall 701.

*Jaculyn Duke*

Supervisor Permitting – Coal

\*\*\* Please note that my phone number has changed\*\*\*



1000 CONSOL Energy Drive

Canonsburg, PA 15317

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[JaculynDuke@consolenergy.com](mailto:JaculynDuke@consolenergy.com)

**From:** Farley, Elizabeth <elfarley@pa.gov>  
**Sent:** Friday, April 12, 2019 9:51 AM  
**To:** Duke, Jaculyn <JaculynDuke@consolenergy.com>  
**Cc:** Williams, Troy <troawillia@pa.gov>  
**Subject:** Refuse Area 7

Hi Jaculyn,

I checked on the pa bull schedule- if we need to make changes and I get it in by COB Monday it could still be issued in May and have a June 1 effective date. The aluminum and iron limits are at criteria during construction and operation because you reported the instream concentration of those parameters to be above the criterion therefore there's no assimilative capacity.

The limit on TDS comes from 25 Pa Code Chapter 95.10 (c) and you can find that regulation here:

<https://www.pacode.com/secure/data/025/chapter95/s95.10.html>

This is the link to the implementation guidance. As I mentioned I implemented it incorrectly at CRDA 8 so that may need to be corrected when the permit is renewed. Your scenario is described in the second paragraph on page 4:

[http://www.dep.greenport.state.pa.us/elibrary/GetDocument?docId=7836&DocName=385-2100-002\\_tech\\_guidance.pdf](http://www.dep.greenport.state.pa.us/elibrary/GetDocument?docId=7836&DocName=385-2100-002_tech_guidance.pdf)

If Rob would prefer a monitor and report for osmotic pressure that would be fine with me- obviously if you're meeting your TDS limit then OP will not be a problem. That's less stringent though so I'd still need to republish- please send me a comment on the draft to prompt me to make the change if you'd like that done. We can also always take the OP limit out at the renewal too if we know it is unnecessary and you're concerned about timing now. The public comment period can be extended by 15 days by public request so you'd be taking out that buffer by republishing- I haven't had any other public interest though.

Thanks,  
Beth

**Elizabeth A. Farley, P.E.** | Underground Mine Permit Section  
Department of Environmental Protection | District Mining Operations  
California District Mining Office  
25 Technology Drive | Coal Center, PA 15423  
Phone: 724.769.1064 | Fax: 724.769.1102  
[www.dep.pa.gov](http://www.dep.pa.gov)

**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) and/or BPJ.

(1) These effluent limitations are based on discharges during dry weather and may not be applicable during storm events. Please reference the narrative above and the NPDES permit.

**Outfall 701, Effective Period: Permit Amendment Issuance to Permit Expiration**

Parameter	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	XXX	XXX	XXX	Report	2/month	Measured
pH (S.U.)	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids (mg/L)	XXX	35.0	70.0	90.0	2/month	Grab
Total Dissolved Solids (mg/L)	XXX	2000	4000	5000	2/month	Grab
Sulfate (mg/L)	XXX	XXX	XXX	Report	2/month	Grab
Chloride (mg/L)	XXX	XXX	XXX	Report	2/month	Grab
Bromide (mg/L)	XXX	XXX	XXX	Report	2/month	Grab
Osmotic Pressure (mOs/kg)	XXX	XXX	XXX	Report	2/month	Grab
Acidity, Total (mg/L as CaCO3)	XXX	XXX	XXX	Report	2/month	Grab
Alkalinity, Total (as CaCO3)	XXX	XXX	XXX	Report	2/month	Grab
Alkalinity Net, Total (as CaCO3)	0.0	XXX	XXX	XXX	XXX	Calculation
Iron, Total (mg/L)	XXX	1.5	3.0	3.8	2/month	Grab
Aluminum, Total (mg/L)	XXX	0.75	0.75	0.75	2/month	Grab
Manganese, Total(mg/L)	XXX	2.0	4.0	5.0	2/month	Grab

Compliance Sampling Location: Outfall 701  
**Outfall 702, Effective Period: Permit Amendment Issuance to Permit Expiration**

Parameter	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
Flow (MGD)	XXX	XXX	XXX	Report	2/month	Measured
pH (S.U.)	6.0	XXX	XXX	9.0	2/month	Grab
Total Suspended Solids (mg/L)	XXX	35.0	70.0	90.0	2/month	Grab
Total Dissolved Solids (mg/L)	XXX	XXX	XXX	Report	2/month	Grab
Sulfate (mg/L)	XXX	XXX	XXX	Report	2/month	Grab
Acidity, Total (mg/L as CaCO3)	XXX	XXX	XXX	Report	2/month	Grab
Alkalinity, Total (as CaCO3)	XXX	XXX	XXX	Report	2/month	Grab
Alkalinity Net, Total (as CaCO3)	0.0	XXX	XXX	XXX	XXX	Calculation
Iron, Total (mg/L)	XXX	1.5	3.0	3.8	2/month	Grab
Aluminum, Total (mg/L)	XXX	0.75	0.75	0.75	2/month	Grab
Manganese, Total(mg/L)	XXX	2.0	4.0	5.0	2/month	Grab

Compliance Sampling Location: Outfall 702