

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0255629
APS ID 1007174
Authorization ID 1297919

Applicant, Facility and Project Information

Applicant Name	<u>CM Holding Co. Inc.</u>	Facility Name	<u>CM Holding SRSTP</u>
Applicant Address	<u>2059 Henderson Avenue</u> <u>Washington, PA 15301</u>	Facility Address	<u>2067 Henderson Avenue</u> <u>Washington, PA 15301</u>
Applicant Contact	<u>Chuck Morgan</u>	Facility Contact	<u>Same as Applicant</u>
Applicant Phone	<u>(724) 350-4213</u>	Facility Phone	<u>Same as Applicant</u>
Client ID	<u>353978</u>	Site ID	<u>840376</u>
SIC Code	<u>8800</u>	Municipality	<u>Chartiers Township</u>
SIC Description	<u>Private Households</u>	County	<u>Washington</u>
Date Application Received	<u>December 5, 2019</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>December 5, 2019</u>	WQM App. No.	<u>6319412</u>
Project Description	<u>Application for a new NPDES permit for the discharge of treated sewage.</u>		

Summary of Review

The applicant proposes to construct a 400 GPD single residence sewage treatment plant (SRSTP) to serve an existing 3-bedroom home in Chartiers Township, Washington County. The treated effluent will discharge to Georges Run, which is classified as WWF and located in State Watershed 20-F.

Per the current standard operating procedure (SOP), the following effluent limitations and monitoring requirements (shown on page 4 of the Fact Sheet), at a minimum, will be established for the new individual SRSTP permit. The use of eDMR is not required for SRSTPs.

Sewage facilities with design flow < 2,000 GPD are exempt from monitoring Total Nitrogen and Total Phosphorus in new and renewal permits.

WQM Permit 6319412 will be issued concurrently with this NPDES permit. The WQM Permit application is requesting construction of sewage facilities consisting of:

- A 1500 gallon three-compartment septic tank
- A Premier Tech ECOFLO ECC-500 coco filter
- A tablet chlorinator with a 300-gallon contact tank

Act 537 Planning for the proposed project was approved by PA DEP on November 13, 2019.

The Act 14 notification letters were provided by November 17, 2019, and no comments were received.

Approve	Deny	Signatures	Date
X		/s/ Yingmin Xue / Environmental Engineering Specialist	01/24/2020
X		/s/ Donald J. Leone, P.E. / Environmental Engineer Manager	01/28/2020

Summary of Review

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 14' 33.00"</u>	Longitude	<u>-80° 18' 6.00"</u>
Quad Name	<u>WASHINGTON WEST</u>	Quad Code	<u>1703</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Georges Run (WWF)</u>	Stream Code	<u>37111</u>
NHD Com ID	<u>99694114</u>	RMI	<u>3.89</u>
Drainage Area	<u>1.19 sq mi</u>	Yield (cfs/mi ²)	<u>0.0087</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0104</u>	Q ₇₋₁₀ Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1107</u>	Slope (ft/ft)	<u>0.0093</u>
Watershed No.	<u>20F</u>	Chapter 93 Class.	<u>Warm Water Fishes</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>PATHOGENS</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final, Final</u>	Name	<u>Chartiers Creek, Chartiers Creek Watershed</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>West View Water Authority</u>		
PWS Waters	<u>Ohio River</u>	Flow at Intake (cfs)	<u>61.89</u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Other Comments:

The discharge is to Georges Run which flows into Chartiers Creek that has a Final TMDL and is impaired by PCB and Chlordane. No WLAs have been developed for this sewage discharge and they are not expected to contribute to the stream impairment for these pollutants.

The discharge is to Georges Run which flows into the Chartiers Creek Watershed that has a Final TMDL and is impaired by metals and pH. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such impairment. No WLAs have been developed for this sewage discharge and they are not expected to contribute to the stream impairment for these pollutants.

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
TRC	XXX	XXX	Report Avg Mo	XXX	XXX	XXX	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None

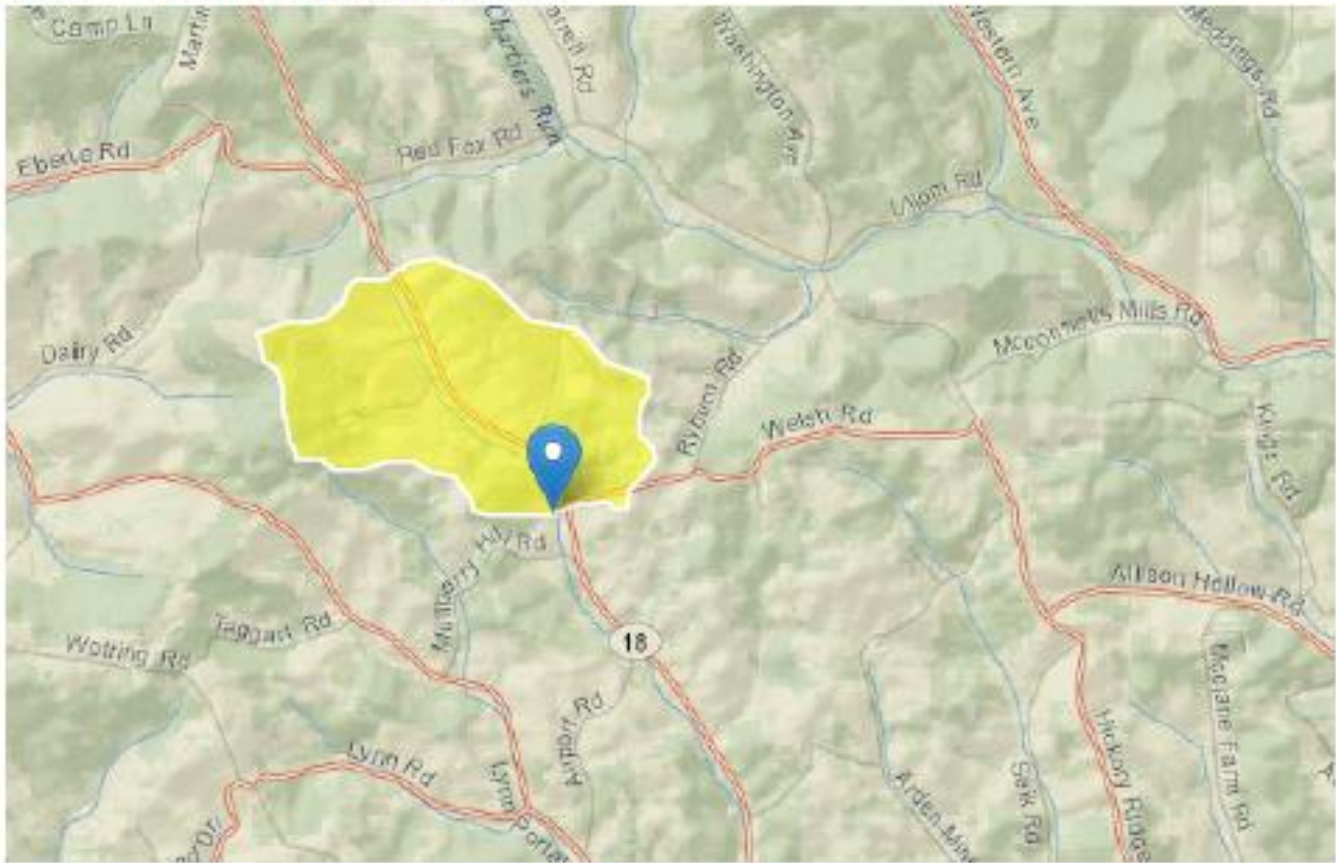
StreamStats Report

Region ID: PA

Workspace ID: PA20200113165039371000

Clicked Point (Latitude, Longitude): 40.24254, -80.30171

Time: 2020-01-13 11:50:56 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	1.19	square miles
ELEV	Mean Basin Elevation	1253.1	feet

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.19	square miles	2.26	1400
ELEV	Mean Basin Elevation	1253.1	feet	1050	2580

Low-Flow Statistics Disclaimers_(Low Flow Region 4)

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report_(Low Flow Region 4)

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0355	ft ³ /s
30 Day 2 Year Low Flow	0.0681	ft ³ /s
7 Day 10 Year Low Flow	0.0104	ft ³ /s
30 Day 10 Year Low Flow	0.0221	ft ³ /s
90 Day 10 Year Low Flow	0.0453	ft ³ /s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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Application Version: 4.3.11