pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0232912**
Facility Type	**Storm Water**	APS ID	**1062552**
Major / Minor	**Minor**	Authorization ID	**1394959**

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

Applicant and Facility Information

Applicant Name	**Key Energy Services, LLC**	Facility Name	**Mill Hall Yard**
Applicant Address	1500 Citywest Boulevard Suite 800	Facility Address	28 Karls Lane
	Houston, TX 77042-2380		Mill Hall, PA 17751
Applicant Contact	Jill Best	Facility Contact	Nathan Grimes
Applicant Phone	(713) 651-4442	Facility Phone	(304) 904-3414
Client ID	135643	Site ID	822738
SIC Code	1389	Municipality	Porter Township
SIC Description	Mining - Oil And Gas Field Services, NEC	County	Clinton
Date Application Received	April 29, 2022	EPA Waived?	Yes
Date Application Accepted	May 9, 2022	If No, Reason	
Purpose of Application	Renewal of an existing NPDES permit for the discharge of industrial stormwater.		

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		*Derek S. Garner* Derek S. Garner / Project Manager	May 4, 2023
X		*Nicholas W. Hartranft* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	May 5, 2023

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	n/a - stormwater
Latitude	41º 2' 58.85"	Longitude	-77º 30' 9.47"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Stormwater		

Receiving Waters	Unnamed Tributary of Cedar Run	Stream Code	22449
NHD Com ID	67176676	RMI	0.8
Drainage Area	n/a	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	n/a	Q_{7-10} Basis	n/a
Elevation (ft)	n/a	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	n/a	Name	n/a

Nearest Downstream Public Water Supply Intake	PA American Water Company		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	741.48
PWS RMI	10.6	Distance from Outfall (mi)	~75 miles

Outfall No.	002	Design Flow (MGD)	n/a - stormwater
Latitude	41º 2' 50.61"	Longitude	-77º 30' 1.76"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Stormwater		

Receiving Waters	Unnamed Tributary of Cedar Run	Stream Code	22449
NHD Com ID	67176676	RMI	0.84
Drainage Area	n/a	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	n/a	Q_{7-10} Basis	n/a
Elevation (ft)	n/a	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	n/a	Name	n/a

Nearest Downstream Public Water Supply Intake	PA American Water Company		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	741.48
PWS RMI	10.6	Distance from Outfall (mi)	~75 miles

Outfall No.	003	Design Flow (MGD)	n/a - stormwater
Latitude	41º 2' 45.53"	Longitude	-77º 30' 8.09"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Stormwater		

Receiving Waters	Unnamed Tributary of Cedar Run	Stream Code	22449
NHD Com ID	67176676	RMI	0.72
Drainage Area	n/a	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	n/a	Q_{7-10} Basis	n/a
Elevation (ft)	n/a	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	**n/a**	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	n/a	Name	n/a

Nearest Downstream Public Water Supply Intake	PA American Water Company		
PWS Waters	West Branch Susquehanna River	Flow at Intake (cfs)	741.48
PWS RMI	10.6	Distance from Outfall (mi)	~75 miles

Facility Summary

Key Energy Services, LLC is an oil and gas service company that owns and operates the Mill Hall Yard; which includes office space, a service garage, and equipment storage. The service garage includes a wash bay which drains to an oil water separator that discharges to the sanitary sewer system. The site surface is generally gravel with vegetation along the perimeter of the property. Storage onsite includes empty frac tank trailers and empty oil tank trucks.

Onsite stormwater runoff is discharged from the site via Outfalls 001, 002, and 003. Outfall 001 is located along the northern edge of the property, Outfall 002 is located on the eastern edge of the property, and Outfall 003 is located along the southern edge of the property. All three outfalls potentially discharge stormwater runoff from gravel parking lots; however, the permittee states no discharge has occurred from Outfalls 002 and 003.

The facility's PPC Plan was most recently updated August 2022.

Compliance History

Three violations occurred during the existing permit's term:

1) Late DMR submission for monitoring period end date June 30, 2021.
2) Failure to sample for oil and grease for monitoring period end date June 30, 2022.
3) Late DMR submission for monitoring period end date December 31, 2022.

Operations Section is aware of the above noncompliance.

The facility was most recently inspected by DEP on August 31, 2022. All three outfalls were observed, and no impacts were noted.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** n/a – stormwater discharge
Latitude 41º 2' 58.85" **Longitude** -77º 30' 9.47"
Wastewater Description: Stormwater

Technology-Based Limitations

There are no applicable technology-based effluent limitations for this stormwater discharge.

Water Quality-Based Limitations

It is generally not appropriate to assign water quality-based effluent limitations to a discharge of stormwater due to variability in discharge rates and lack of discharge during critical flows. Water quality of stormwater is typically controlled through implementation of best management practices (BMPs). Monitoring requirements are used to indicate if BMP controls are working as expected.

Best Professional Judgment (BPJ) Limitations

The existing monitoring requirements are based off the PAG-03 Appendix J requirements for facilities classified under SIC Code 1389. Since issuance of the previous permit, the PAG-03 has been modified and Appendix J now includes several other pollutants. To ensure this permit is at least as stringent as the general permit, DEP proposes the following:

Pollutant	Monitoring Requirements		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Nitrogen (mg/L)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Oil and Grease (mg/L)	1 / 6 months	Grab	30
pH (S.U.)	1 / 6 months	Grab	9.0
Chemical Oxygen Demand (COD) (mg/L)	1 / 6 months	Grab	120

Anti-Backsliding

No reporting requirements are proposed to be made less stringent than the existing permit.

Outfall No.	002	**Design Flow (MGD)**	n/a
Latitude	41º 2' 50.61"	**Longitude**	-77º 30' 1.76"
Wastewater Description:	Stormwater		

Technology-Based Limitations

There are no applicable technology-based effluent limitations for this stormwater discharge.

Water Quality-Based Limitations

It is generally not appropriate to assign water quality-based effluent limitations to a discharge of stormwater due to variability in discharge rates and lack of discharge during critical flows. Water quality of stormwater is typically controlled through implementation of best management practices (BMPs). Monitoring requirements are used to indicate if BMP controls are working as expected.

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Pollutant	Monitoring Requirements		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Nitrogen (mg/L)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Oil and Grease (mg/L)	1 / 6 months	Grab	30
pH (S.U.)	1 / 6 months	Grab	9.0
Chemical Oxygen Demand (COD) (mg/L)	1 / 6 months	Grab	120

Anti-Backsliding

No reporting requirements are proposed to be made less stringent than the existing permit.

Outfall No.	003	**Design Flow (MGD)**	n/a
Latitude	41º 2' 45.53"	**Longitude**	-77º 30' 8.09"
Wastewater Description:	Stormwater		

Technology-Based Limitations

There are no applicable technology-based effluent limitations for this stormwater discharge.

Water Quality-Based Limitations

It is generally not appropriate to assign water quality-based effluent limitations to a discharge of stormwater due to variability in discharge rates and lack of discharge during critical flows. Water quality of stormwater is typically controlled through implementation of best management practices (BMPs). Monitoring requirements are used to indicate if BMP controls are working as expected.

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Pollutant	Monitoring Requirements		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Nitrogen (mg/L)	1 / 6 months	Calculation	XXX
Total Phosphorus (mg/L)	1 / 6 months	Grab	XXX
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Oil and Grease (mg/L)	1 / 6 months	Grab	30
pH (S.U.)	1 / 6 months	Grab	9.0
Chemical Oxygen Demand (COD) (mg/L)	1 / 6 months	Grab	120

Anti-Backsliding

No reporting requirements are proposed to be made less stringent than the existing permit.

Existing Effluent Limitations and Monitoring Requirements

The existing effluent limitations and monitoring requirements are as follows:

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 001

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 002

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 003