pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0221775**
Facility Type	**Industrial**	APS ID	**1082855**
Major / Minor	**Minor**	Authorization ID	**1430066**

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

Applicant and Facility Information

Applicant Name	**HRI Inc.**	Facility Name	**HRI Brookville Asphalt Plant**
Applicant Address	1750 West College Avenue	Facility Address	643 Route 1830
	State College, PA 16801-2719		Brookville, PA 15825
Applicant Contact	Mary Jo Miller	Facility Contact	Rick Buffington
Applicant Phone	(814) 360-5727	Facility Phone	(814) 360-5729
Applicant E Mail	mmiller@hriinc.com	Facility E Mail	HRI@HRIINC/com
Client ID	172681	Site ID	466335
County	Jefferson	Municipality	Pine Creek Township
SIC Code	2951	SIC Code	
SIC Description	Mfg - Asphalt Paving Mixtures And Blocks	SIC Description	
Date Application Received	March 1, 2023	EPA Waived?	Yes
Date Application Accepted	March 15, 2023	If No, Reason	

Purpose of Application .NPDES Permit trnewal

Summary of Review

No current open violations listed

The facility has plugged the floor drains and there is no discharge from the oil/water separator (OWS). However, they would still like to maintain an individual permit in the event that the future facility use prompts the need for opening the floor drains and using the OWS. JCD

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		*William H. Mentzer* William H. Mentzer, P.E. Environmental Engineering Specialist	May 8, 2023
X		*(Vacant)* Environmental Engineer Manager	Okay to Draft JCD 3/25/2024

Discharge, Receiving Waters and Water Supply Information

Outfall No.	101	Design Flow (MGD)	.00015
Latitude	41º 8' 12.65"	Longitude	-78º 58' 9.36"
Quad Name	Hazen	Quad Code	0914
Wastewater Description:	Washing/Cleaning Wastewater		

Receiving Waters	Outfall 001	Stream Code	NA
NHD Com ID	123859726	RMI	
Watershed No.	17-C	Chapter 93 Class.	CWF
Comments	Maintenance shop floor drains with vehicle steam cleaning wash water.		

Parameter	Grab Mean	Comp Mean	Grab Max	Comp Max	#	QL	Comments
Oil & Grease	5.48		5.60		3	5.0	
BOD5*	40				1	10.0	Organic enrichment
COD	47.8				1	30.0	
TSS##	59.33				3	152.0	
Total N*	1.0				1	2.0	Nutrient impairment
Total P*	0.07				1	1.0	Nutrient impairment
pH	8.23		8.43		3		
Total Aluminum#							Metals impairment
Total Antimony							Metals impairment
Total Arsenic							Metals impairment
Total Barium							Metals impairment
Total Berylium							Metals impairment
Total Boron							Metals impairment
Total Cadmium							Metals impairment
Total Chromium							Metals impairment
Hex Chromium							Metals impairment
Total Cobalt							Metals impairment
Total Copper							Metals impairment
Total Cyanide							Metals impairment
Total Iron#							Metals impairment
Dissolved Iron							Metals impairment
Total Lead							Metals impairment
Total Manganese#							Metals impairment
Total Mercury							Metals impairment
Molybdenum							Metals impairment
Total Nickel							Metals impairment
Total Selenium							Metals impairment
Total Silver							Metals impairment
Total Thallium							Metals impairment
Total Zinc							Metals impairment

Comments # Redbank Creek TMDL parameters; *Nutrient impairment ## Siltation
The Redbank Creek TMDL is a downstream mining initiative.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	41º 8' 12.65"	Longitude	-78º 58' 9.36"
Quad Name	Hazen	Quad Code	0914
Wastewater Description:	Stormwater, Washing/Cleaning Wastewater		

Receiving Waters	Fivemile Run (CWF)	Stream Code	48585
NHD Com ID	123859726	RMI	2.84
Drainage Area	3.98	Yield (cfs/mi^2)	0.04598
Q_{7-10} Flow (cfs)	0.183	Q_{7-10} Basis	Stream stats
Elevation (ft)	1465.40	Slope (ft/ft)	0.00802
Watershed No.	17-C	Chapter 93 Class.	CWF
Existing Use	**statewide**	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none
Comments	The outfall is 0.48 mile above tributary 48586		

Assessment Status	Impaired
Cause(s) of Impairment	metals, nutrients, organic enrichment, siltation
Source(s) of Impairment	habitat modification - other than hydromodification, on-site treatment systems (septic systems and similar decentralized systems), package plant or other permitted small flows discharges, package plant or other permitted small flows discharges
TMDL Status	Name

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Hawthorn Water Co/ Hawthorn Redbank MA		
PWS Waters	Redbank Creek	Flow at Intake (cfs)	NA
PWS RMI	28	Distance from Outfall (mi)	31.8

Changes Since Last Permit Issuance: none

Treatment Facility Summary				
Treatment Facility Name: HRI Brookville Asphalt Plant				
WQM Permit No.	**Issuance Date**			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Industrial	Other Processes (Industrial Waste)	Oil and Grease Removal (Skim/Septr)	No Disinfection	0.00015
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.00015			Anaerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments:

The permittee wants to retain Outfall 101 and be able to use the installed oil/water separator.

Total stream flow to waste flow ratio = (0.183-cfs*0.646317-MGD/cfs)/0.000150-MGD=1221:1 at this ratio water quality limitations should not be necessary.

The oil/water separator discharges through Monitoring Point/Outfall 101 to Outfall 001 where it mixes with storm water. The receiving waters is Fivemile Run that has been listed as impaired since 2016 and is classified as a cold water fishery, The original impairment were mine drainage, aquatic life, organic enrichment, habitat modification and small flow sewage treatment facilities (including surface and groundwater discharges).

The stream metals impairment generates an extensive parameters list for review that may be modified existing stream assessments.

Fivemile Run tributary to Mill Creek is part of the Redbank Creek water shed and is not directly addressed in the Mining developed and downstream Redbank Creek TMDL. The TMDL does reference Fivemile Creek 48528 tributary to Sandy Lick Creek tributaries 48545 and 48546. The TMDL addressed aluminum, iron, manganese, alkalinity, and acidity. Alkalinity and acidity were reviewed instead of pH. Ambient Aluminum was a constant 0.5-mg/L, Iron averaged 0.71 mg/L with a < 0.3 to 1.746-mg/L and manganese averaged 0.3185-mg/L with a 0.092 to 0.546-mg/L range.

The main waste source is external vehicle washing estimated a 150-gallons per day. The discharge is occasional and sometimes described as an emergency discharge. It is a minor discharge from an EPA listed primary industry Auto and Other Laundries for which best management practices such as recycle were adequate and did not propose regulation. Effluent standards were proposed for TSS, BOD, oil & grease, chromium, copper, lead, and zinc.

As antimony, arsenic, barium, beryllium, boron, cadmium, chromium, hexavalent chromium, cobalt, copper, cyanide, mercury, molybdenum, nickel, selenium, thallium, and zinc are not listed in impaired waters reports or TMDL they should not be a significant part of the stream impairment and need no monitoring according to the general storm water guidance.

Oil & grease, TSS and pH should remain as indicator parameters.

Compliance History

DMR Data for Outfall 001 (from February 1, 2022 to January 31, 2023)

Parameter	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22
Flow (MGD) Daily Maximum		0.0014						0.0014				
pH (S.U.) Instantaneous Minimum		7.0						8.43				
pH (S.U.) Instantaneous Maximum		8.11						8.43				
TSS (mg/L) Daily Maximum		< 8.00						152				
Oil and Grease (mg/L) Daily Maximum		< 5.55						< 5.60				

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	Daily Maximum	Instant. Maximum		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	1/6 months	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	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

Compliance Sampling Location Outfall 001

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 101, 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	Daily Maximum	Instant. Maximum		
Flow (MGD)	XXX	Report Daily Max	XXX	XXX	XXX	XXX	Monthly When Discharging	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Monthly When Discharging	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	Monthly When Discharging	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	Monthly When Discharging	Grab

Compliance Sampling Location: Outfall 101 prior to mixing with other wastes.