pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PAS216105**
Facility Type	**Storm Water**	APS ID	**1113179**
Major / Minor	**Minor**	Authorization ID	**1484151**

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

Applicant and Facility Information

Applicant Name	**Heidelberg Materials US Cement LLC**	Facility Name	**Aliquippa Terminal**
Applicant Address	7660 Imperial Way	Facility Address	100 Woodlawn Road
	Allentown, PA 18195-1016		Aliquippa, PA 15001-5404
Applicant Contact	Thomas Bizup	Facility Contact	Michael Pushak
Applicant Phone	(610) 366-4780	Facility Phone	(724) 378-2232
Client ID	62583	Site ID	612463
SIC Code	5032	Municipality	Aliquippa City
SIC Description	Wholesale Trade - Brick, Stone, And Related Materials	County	Beaver
Date Application Received	May 2, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	NPDES Permit coverage renewal		

Summary of Review

The Department received an NPDES permit application from Heidelberg Materials US Cement LLC on May 2, 2024 for coverage of its Bulk cement terminal in Aliquippa City, Beaver County.

The facility receives finished cement by rail car under cover. The terminal no longer receives cement by barge. The cement is unloaded and transported by conveyor to two adjacent storage silos. Cement from the silos is loaded under cover to highway transport trucks for delivery. No activities or materials are exposed to precipitation. A railroad track runs through the site and locomotive cars are parked in the southwestern area of the property near the property border with Ohio Central Railroad. The locomotive cars are leased from Ohio Central Railroad.

The facility was last inspected by Shawn Bell, on June 12, 2024, with no violations noted. There were no discharges at the time of the visit. There was no evidence of any ponding or sediment in the swale areas. There was little debris(grass) in the catch basin. It was recommended to take photos on attempted sampling rain days to show that there is no discharge occurring during a qualifying rain event

The permittee applied to change the name from Lehigh Cement Company to Heidelberg Materials US Cement LLC. The name change was effective on January 1, 2023.

Approve	Deny	Signatures	Date
X		Angela Rohrer / Environmental Engineering Specialist	July 16, 2024
X		Michael E. Fifth, P.E. / Environmental Engineer Manager	July 22, 2024

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.	001	Design Flow (MGD)	0
Latitude	40º 35' 36.00"	Longitude	-80º 14' 20.00"
Quad Name	Ambridge	Quad Code	1404
Wastewater Description:	Stormwater runoff from plant area		
Receiving Waters	Ohio River (WWF)	Stream Code	32317
NHD Com ID	99682156	RMI	963.15
Drainage Area	19,600 mi^2	Yield (cfs/mi^2)	0.2413
Q_{7-10} Flow (cfs)	4,730	Q_{7-10} Basis	US Army Corp of Engineers
Elevation (ft)	705	Slope (ft/ft)	0.0001
Watershed No.	20-G	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	Dioxin, Pathogens, Polychlorinated Biphenyls (PCBS),		
Source(s) of Impairment	Source Unknown		
TMDL Status	Final	Name	Ohio River
Nearest Downstream Public Water Supply Intake	Center Township Water Authority (3 MGD)		
PWS Waters	Ohio River	Flow at Intake (cfs)	4,730
PWS RMI	952.45	Distance from Outfall (mi)	10.7

Other Comments:

The drainage area of Outfall 001 is 108,900 square feet and is 50% impervious. Drainage area includes the paved roadway with truck traffic, vegetated swale area for storm runoff. The grassy area contains level spreaders to promote infiltration. A catch basin in the bottom of the swale is in place to convey runoff to Outfall 001.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0
Latitude 40º 35' 36.00" **Longitude** -80º 14' 20.00"
Wastewater Description: Stormwater

Technology-Based Effluent limitations:

Outfall 001 will be subject to PAG-03 General Stormwater Permit conditions as a minimum requirement because they discharge stormwater. Based on the site's SIC code, the corresponding appendix that would apply to the facility is Appendix J of the PAG-03. The proposed monitoring requirements are shown in Table 1 below. The benchmark values listed below are not effluent limitation, and exceedances so not constitutes permit violations. However, if the permittee's sampling demonstrates exceedances of benchmark values for two consecutive monitoring periods, the permit shall submit a corrective action plan. This requirement will be included in Part C of the permit.

Table 1: PAG-03 Appendix (J) Monitoring Requirements

Parameters	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

Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q7-10) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q7-10 conditions. Since the discharge from Outfall 001 is composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

Total Maximum Daily Load (TMDL)

Stormwater discharges from Aliquippa Terminal are located within the Ohio River Watershed, for which there is a final TMDL addressing PCBs and chlordane dated April 9, 2001. Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's ("EPA's") Water Quality Planning and Management Regulations (codified at Title 40 of the Code of Federal Regulations Part 130) require states to develop a TMDL for impaired water bodies. A TMDL establishes the amount of a pollutant that a water body can assimilate without exceeding its water quality standard for that pollutant. TMDLs provide the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and non-point sources to restore and maintain the quality of the state's water resources (USEPA 1991). The Ohio River Watershed TMDL does not include a waste load allocation for Aliquippa Terminal and the Facility does not discharge PCBs or Chlordane. Water quality criteria for the TMDL watershed does not apply to the stormwater discharges from Aliquippa Terminal.

Anti-Backsliding

Previous limits can be used pursuant to EPA's anti-backsliding regulation, 40 CFR 122.44(l) and are displayed below in Table 2. These limitations are currently imposed on Outfall 001. Monitoring for Aluminum, Barium, Cadmium, Copper, Iron, Lead, Manganese, Nickel, Selenium and Zinc were previously imposed because these parameters were pollutants of concern. The benchmark values were based on the 2015 Multi-Sector General Permit.

Table 2: Current Effluent Monitoring at Outfall 001

Parameters	Maximum Daily Concentration	Benchmark Values (mg/L)	Concentration (mg/L)	
			Frequency	Sample Type
Oil and Grease	Monitor and Report	15.0	1/discharge	Grab
Total Aluminum	Monitor and Report	0.75	1/discharge	Grab
Total Barium	Monitor and Report	1.0	1/discharge	Grab
Total Boron	Monitor and Report	-	1/discharge	Grab
Total Cadmium	Monitor and Report	0.0021	1/discharge	Grab
Total Copper	Monitor and Report	0.014	1/discharge	Grab
Total Iron	Monitor and Report	1.0	1/discharge	Grab
Total Lead	Monitor and Report	0.082	1/discharge	Grab
Total Manganese	Monitor and Report	4.0	1/discharge	Grab
Total Nickel	Monitor and Report	0.47	1/discharge	Grab
Total Selenium	Monitor and Report	0.005	1/discharge	Grab
Total Zinc	Monitor and Report	0.12	1/discharge	Grab

Table 3: Current Effluent Limitations at Outfall 001

Parameters	Mass (lb/day)		Concentration (mg/L)			
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60.0
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0

Proposed Final Effluent Limitations

The proposed effluent monitoring requirements for Outfall 001 is displayed in Table 4 below, they are the most stringent values from the above effluent limitation development. The Draft Permit requires a Corrective Action Plan when there are two consecutive exceedances of the benchmark values, which are also included in the Part C condition. The benchmark values are displayed below in Table 4. These values are not effluent limitations, an exceedance of the benchmark value is not a violation. As described above, if there are two consecutive exceedances of the benchmark value, a Corrective Action Plan must be conducted to evaluate site stormwater controls and BMPs. Benchmark monitoring is a feedback tool, along with routine inspections and visual assessments, for assessing the effectiveness of stormwater controls and BMPs. An exceedance of the benchmark provides permittees with an indication that the facility's controls may not be sufficiently controlling pollutants in stormwater.

The facility has reported no discharge over the past five years, and as such, no sample data is available. Based on this reported non-discharge status, a water quality analysis can't be performed. As a result, the existing monitoring and limits requirements will remain in effect.

The stormwater benchmark value for Total Suspended Solids does not apply to Outfall 001, because Outfall 001 has limitations for this parameter.

The Multi-Sector General Permit was updated in 2021 and some benchmark values were updated as well. The renewed permit will reflect these changes, ensuring alignment with the latest regulatory requirements.

Table 4: Proposed Effluent Monitoring at Outfall 001

Parameters	Maximum Daily Concentration	Benchmark Values (mg/L)	Concentration (mg/L)	
			Frequency	Sample Type
Oil and Grease	Monitor and Report	15.0	1/discharge	Grab
Total Aluminum	Monitor and Report	1.1	1/discharge	Grab
Total Barium	Monitor and Report	1.0	1/discharge	Grab
Total Boron	Monitor and Report	-	1/discharge	Grab

Parameters	Maximum Daily Concentration	Benchmark Values (mg/L)	Concentration (mg/L)	
			Frequency	Sample Type
Total Cadmium	Monitor and Report	0.0018	1/discharge	Grab
Total Copper	Monitor and Report	0.0051	1/discharge	Grab
Total Iron	Monitor and Report	-	1/discharge	Grab
Total Lead	Monitor and Report	0.082	1/discharge	Grab
Total Manganese	Monitor and Report	4.0	1/discharge	Grab
Total Nickel	Monitor and Report	0.47	1/discharge	Grab
Total Selenium	Monitor and Report	0.005	1/discharge	Grab
Total Zinc	Monitor and Report	0.12	1/discharge	Grab
Total Nitrogen	Monitor and Report	-	1/discharge	Calculation
Total Phosphorus	Monitor and Report	-	1/discharge	Grab
Chemical Oxygen Demand	Monitor and Report	120	1/discharge	Grab

Table 3: Proposed Effluent Limitations at Outfall 001

Parameters	Mass (lb/day)		Concentration (mg/L)			
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	60.0
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
☐	Pennsylvania CSO Policy, 386-2000-002, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
☐	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
☐	Design Stream Flows, 386-2000-003, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:

Attachment A: StreamStats Report

PAS216105 - Aliquippa Terminal - StreamStats Report

Region ID: PA
Workspace ID: PA20240711131030856000
Clicked Point (Latitude, Longitude): 40.59334, -80.23685
Time: 2024-07-11 09:11:07 -0400

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	19600	square miles
FOREST	Percentage of area covered by forest	72.3426	percent
PRECIP	Mean Annual Precipitation	45	inches
URBAN	Percentage of basin with urban development	4.3673	percent