



Environmental
Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director



11J0002220080814

GREENE

MARTIN MARIETTA AGGREGATES CEDARVILLE
LIMESTONE PLT

ZIMMERMAN, MICH | 2008/08/14



State of Ohio Environmental Protection Agency

Southwest District Office

401 E. Fifth St.
Dayton, Ohio 45402

TELE: (937) 285-6357 FAX: (937) 285-6249
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

August 14, 2008

Patrick Montgomery
Martin Marietta Aggregates
4770 Duke Drive, Suite 200
Mason, Ohio 45040

**Re: Martin Marietta Aggregates, Cedarville Limestone
NPDES Permit No. 1IJ00022*ED; OH0047911
NPDES Compliance Inspection and Notice of Violation**

Dear Mr. Montgomery:

On July 24, 2008 Laura Pohlman and I conducted a National Pollutant Discharge Elimination System (NPDES) permit compliance inspection at the above referenced facility. Richard Cameron, Plant Manager, Ian Trefz, Assistant Plant Manager, and you represented the company during the inspection. The purpose of the inspection was to evaluate the operation and performance of the quarry's wastewater treatment system and to determine compliance with the NPDES permit.

Sources of wastewater at the quarry include storm water, ground water, and limestone processing (wash) water. Water flows to a settling pit where it is treated and subsequently discharged (pumped) to the South Branch of Massie Creek. In 2007, Martin Marietta expanded its quarrying operations north of the creek to land adjacent Barber Road. A tunnel was constructed at the bottom of the quarry (under the creek) connecting the two areas of the quarry.

Review of the electronic Discharge Monitoring Reports for the period January, 2006 through June, 2008, revealed several final effluent limit violations for total suspended solids (refer to the attached Table 1). These violations resulted in a marginal rating for "Effluent/Receiving Waters" (refer to Section C of the attached Compliance Inspection Report). As you are aware, failure to comply with the effluent limits, or to satisfy monitoring or reporting requirements of your NPDES permit, may be cause for enforcement action pursuant to the Ohio Revised Code Chapter 6111. Please provide this office a written response by September 15, 2008 indicating the steps you intend to take to reduce and/or eliminate these violations. The March, 2007 violations had previously been reported and attributed to the quarry flooding and dewatering. No additional explanation is needed for these violations.

Inspection of the discharge to the creek revealed a significant increase in turbidity below the outfall. This turbidity produced a dilute, milky water color. Ohio EPA considers this a violation of Ohio Water Quality Standards (Ohio Administrative Code 3745-1-04: Criteria applicable to all waters). Specifically, one of these criteria states "To every extent practical and possible as determined by the director, these waters shall be free from materials entering the waters as a result of human activity producing color, odor, or other conditions in such a degree as to create a nuisance." You indicated Martin Marietta was planning to install a second sedimentation basin in the new mining area. We recommend you consider expansion of the existing sedimentation basin in order to reduce turbidity in the discharge. An Ohio EPA Permit to Install would be required prior to any construction activity.

The NPDES permit for this facility expired on May 31, 2007. The permit requires that a renewal application be submitted 180 days prior to expiration. However, Martin Marietta submitted the application late, on May 4, 2007. For this reason, the compliance area "Permit" was rated Marginal. Ohio EPA is in the process of renewing the permit.

If you have any questions, don't hesitate to contact me at (937) 285-6102.

Sincerely,



Michael W. Zimmerman
Permits Group
Division of Surface Water

Copy: John Tiberi, Martin Marietta, Mideast Division
Richard Cameron/ Ian Trefz, Martin Marietta Cedarville

Enclosure



State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
11J00022*ED	OH0047911	7/24/2008	C	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Martin Marietta Aggregates, Cedarville Limestone 3744 Turnbull Road Cedarville, Ohio 45314 Mailing: 4770 Duke Drive, Suite 200 Mason, Ohio 45040	11:00 am	6/1/2002
	Exit Time	Permit Expiration Date
	12:30 pm	5/31/2007
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Patrick Montgomery, Senior Environmental Engineer	(513) 701-1140	
Richard Cameron, Plant Manager	(937) 766-2351	
Ian Trefz, Asst. Plant Manager	(937) 766-2351	
Name, Address and Title of Responsible Official	Phone Number	
John J. Tiberi, President, Mideast Division	(317) 573-4460	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
M	Permit	S	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	M	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
<p>The quarry is in full operation. Active mining is occurring on the north side of the creek (property on Barber Road). Limestone is removed from this newer area and transported through the tunnel to the main quarry for processing. Storm and ground water from the newer quarry area flows into a trench through the tunnel and into the existing sump pit. Water from the older main quarry area, including wash water from the crushing operation, also flows into the sump pit from the west side. A new pump platform is being installed in the existing settling pit.</p> <p>Martin Marietta is proposing to install a new collection/settling pit in the active area and create a second discharge to the creek. This would require a Permit to Install from the Ohio EPA.</p>	
Inspector	Reviewer
 Michael W. Zimmerman Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
Aug. 14, 2008 Date	8/14/08 Date

Section J: Effluent/Receiving Water Observations

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Other
001	None	None	Moderate turbidity	None	Slight	Cloudy/milky	-

Comments/Status:

The final effluent discharges to the South Fork of Massies Creek. During the inspection, the discharge was moderately turbid, resulting in increased turbidity in the stream. The turbidity decreased as the flow moved downstream. The stream was checked approx. 0.6 miles downstream adjacent property on Winchester Court and it was relatively clear.

Section K: Multimedia Observations

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

If any of the above are observed, ask the following questions:

- (1) What is the cause of the condition?
- (2) Is the observed condition or source a waste product?
- (3) Where is the suspected contaminant normally disposed?
- (4) Is this disposal permitted?
- (5) How long has the condition existed and when did it begin?

Comments/Status:

Inspection Observations and Findings (con't):

1. The discharge from the quarry is generally in compliance with the NPDES permit limits for TSS. However, the moderate turbidity of the discharge is resulting in increased turbidity and color in the creek. Expanding the size of the existing settling pit would reduce allow more settling time and reduce turbidity. Installation of a second settling pit in the active quarry area would reduce the flow volume to the existing pit and also help reduce turbidity.

2. Effluent flow volume is measured using the pumping capacity and time. Flow rates reported from March, 2008 to the present have been either 1.728 or 3.456 MGD. Provide additional information on how these flow values are derived.

3. Review of the eDMR's submitted by Martin Marietta from January, 2006 through June, 2008 indicated there were several TSS limitation violations. These are listed in the following table:

Table 1. Final Effluent Limit Violations

(Period of Review: January 1, 2006 – June 30, 2008)

		30D = Monthly	1D = Daily	Conc = Concentration (mg/l)			
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date	
January 2007	001	Total Suspended Solids	30D Conc	30.0	30.5	1/1/2007	
March 2007	001	Total Suspended Solids	1D Conc	45.0	64.3	3/7/2007	
March 2007	001	Total Suspended Solids	1D Conc	45.0	47.	3/27/2007	
March 2007	001	Total Suspended Solids	1D Conc	45.0	108.	3/29/2007	
March 2007	001	Total Suspended Solids	30D Conc	30.0	43.0	3/1/2007	
December 2006	001	Total Suspended Solids	30D Conc	30.0	34.5	12/1/2006	
March 2006	001	Total Suspended Solids	1D Conc	45.0	49.2	3/17/2006	
March 2006	001	Total Suspended Solids	30D Conc	30.0	49.2	3/1/2006	

