



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY VALLEY REGIONAL OFFICE

P.O. Box 3000, Harrisonburg, Virginia 22801

(540) 574-7800 Fax (540) 574-7878

Located at 4411 Early Road, Harrisonburg, VA

www.deq.virginia.gov

David K. Paylor
Director

Amy Thatcher Owens
Regional Director

Matthew J. Strickler
Secretary of Natural Resources

October 9, 2018

Jason Vandermark
General Manager
251 National Avenue
Staunton, VA 24401

Re: Compliance Evaluation Inspection Report, Rockydale – Staunton Quarry, VPDES Permit Number VAG840030

Dear Mr. Vandermark:

I have enclosed a copy of the compliance evaluation inspection report for the DEQ inspection of the Rockydale – Staunton Quarry facility on September 20, 2018. Please review the enclosed report and submit in writing adequate documentation to address the requests by Friday, October 26, 2018. This letter is not intended as a case decision under the Virginia Administrative Process Act, Va. Code § 2.2-4000 *et seq.* (APA).

Please direct follow-up correspondence and any questions you may have to my attention at the Valley Regional Office (telephone: 540-574-7831, william.maddox@deq.virginia.gov). You are invited to visit our web site at <http://www.deq.virginia.gov>.

Sincerely,

A handwritten signature in cursive script that reads "William G. Maddox".

William G. Maddox
Environmental Specialist II

cc: e-File (VAG840030)

VA DEQ Wastewater Facility Inspection Report
Virginia Department of Environmental Quality

WASTEWATER FACILITY INSPECTION REPORT

FACILITY NAME: Rockydale – Staunton Quarry		INSPECTION DATE: September 20, 2018	
		INSPECTOR: William Maddox	
PERMIT No.: VAG840030		REPORT DATE: October 5, 2018	
TYPE OF FACILITY: <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Small Minor <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Federal	TIME OF INSPECTION:		Arrival 10:22 a.m.
			Departure 11:45 a.m.
		TOTAL TIME SPENT	12 hours
PHOTOGRAPHS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		UNANNOUNCED INSPECTION? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
REVIEWED BY: LMK			
PRESENT DURING INSPECTION: Sam Burks, Joy Hinkle, Troy Eppard			

TECHNICAL INSPECTION

1. Has there been any new construction? • If so, were plans and specifications approved? Comments:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Is the Operations and Maintenance Manual approved and up-to-date? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Are the Permit and/or Operation and Maintenance Manual specified licensed operator being met? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Are the Permit and/or Operation and Maintenance Manual specified operator staffing requirements being met? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Is there an established and adequate program for training personnel? Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6. Are preventive maintenance task schedules being met? Comments: As needed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7. Does the plant experience any organic or hydraulic overloading? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
8. Has there been any bypassing or overflows since the last inspection? Comments: None reported.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Is the standby generator (including power transfer switch) operational and exercised regularly? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
10. Is the plant alarm system operational and tested regularly? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No

VA DEQ Wastewater Facility Inspection Report

Permit #	VAG840030
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TECHNICAL INSPECTION

11. Is sludge disposed of in accordance with the approved sludge management plan? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. Is septage received? • If so, is septage loading controlled, and are appropriate records maintained? Comments: NA	<input type="checkbox"/> Yes <input type="checkbox"/> No
13. Are all plant records (operational logs, equipment maintenance, industrial waste contributors, sampling and testing) available for review and are records adequate? Comments: See comments in summary under records in lab section.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14. Which of the following records does the plant maintain? <input checked="" type="checkbox"/> Operational logs <input type="checkbox"/> Instrument maintenance & calibration <input type="checkbox"/> Mechanical equipment maintenance <input type="checkbox"/> Industrial waste contribution (Municipal facilities) Comments: Need to maintain pH meter calibration and analysis records copy from commercial laboratory analyst associated with each pH sample.	
15. What does the operational log contain? <input type="checkbox"/> Visual observations <input checked="" type="checkbox"/> Flow measurement <input checked="" type="checkbox"/> Laboratory results <input type="checkbox"/> Process adjustments <input type="checkbox"/> Control calculations <input type="checkbox"/> Other (specify): <u>Comments:</u>	
16. What do the mechanical equipment records contain? <input type="checkbox"/> As built plans and specs <input checked="" type="checkbox"/> Manufacturer's instructions <input type="checkbox"/> Lubrication schedules <input type="checkbox"/> Spare parts inventory <input type="checkbox"/> Equipment/parts suppliers <input type="checkbox"/> Other (specify): Comments:	
17. What do the industrial waste contribution records contain (Municipal only)? <input type="checkbox"/> Waste characteristics <input type="checkbox"/> Impact on plant <input type="checkbox"/> Locations and discharge types <input type="checkbox"/> Other (specify) Comments: NA	
18. Which of the following records are kept at the plant and available to personnel? <input type="checkbox"/> Equipment maintenance records <input checked="" type="checkbox"/> Operational log <input type="checkbox"/> Industrial contributor records <input type="checkbox"/> Instrumentation records <input checked="" type="checkbox"/> Sampling and testing records Comments:	
19. List records not normally available to plant personnel and their location: Comments: None noted.	
20. Are the records maintained for the required time period (three or five years)? Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

VA DEQ Wastewater Facility Inspection Report

Permit #	VAG840030
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UNIT PROCESS EVALUATION SUMMARY SHEET

<u>UNIT PROCESS</u>	<u>APPLICABLE</u>	<u>PROBLEMS*</u>	<u>COMMENTS</u>
Sewage Pumping			<i>Quarry dewatering pump (process wastewater)</i>
Flow Measurement (Influent)			
Screening/Comminution			
Grit Removal			
Oil/Water Separator			
Flow Equalization			
Ponds/Lagoons	✓		
Imhoff Tank			
Primary Sedimentation			
Trickling Filter			
Septic Tank and Sand Filter			
Rotating Biological Contactor			
Activated Sludge Aeration			
Biological Nutrient Removal			
Sequencing Batch Reactor			
Secondary Sedimentation			
Flocculation			
Tertiary Sedimentation			
Filtration			
Micro-Screening			
Activated Carbon Adsorption			
Chlorination			
Dechlorination			
Ozonation			
Ultraviolet Disinfection			
Post Aeration			
Flow Measurement (Effluent)			<i>Flow estimated by pump rate and pump time</i>
Land Application (Effluent)			
Plant Outfall	✓		
Sludge Pumping			
Flotation Thickening (DAF)			
Gravity Thickening			
Aerobic Digestion			
Anaerobic Digestion			
Lime Stabilization			
Centrifugation			
Sludge Press			
Vacuum Filtration			
Drying Beds			
Thermal Treatment			
Incineration			
Composting			
Land Application (Sludge)			

* Problem Codes

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Unit Needs Attention 2. Abnormal Influent/Effluent 3. Evidence of Equipment Failure | <ol style="list-style-type: none"> 4. Unapproved Modification or Temporary Repair 5. Evidence of Process Upset 6. Other (explain in comments) |
|--|--|

VA DEQ Wastewater Facility Inspection Report

Permit #

VAG840030

INSPECTION OVERVIEW AND CONDITION OF TREATMENT UNITS

The permittee has a current storm water pollution prevention plan (SWPPP) dated February 2018. It describes information primarily for the Staunton Quarry pit (“Staunton pit”) associated with outfall 002 and not for the Belmont Quarry pit (“Belmont pit”) associated with the outfall 001. The plan refers to outfall 001 as if it were the Staunton pit but the registration statement has the Staunton pit discharge as outfall 002 and the Belmont pit as 001. The Staunton pit is the active pit with discharge to outfall 002, and the Belmont quarry is inactive and is reported not to discharge. The permittee has at some point in the past reversed the outfall numbers in records.

The plan also notes the discharge flow estimation is performed using a bucket and timer when the actual method is from a pump rate and pumping time calculation.

The sedimentation pond was in good condition, with check dams in place along the ditch to the pond. The discharge outfall was also in good condition with no problems noted. The quarry dewatering pump is a Berkeley 100 HP motor and pump with a 6-inch line to the sedimentation pond. For the last month the pump has run 24 hours per day, 7 days per week.

The latest annual comprehensive site compliance evaluation (CSCE) report was present along with quarterly facility inspection and quarterly visual examination documentation. The January 25, 2018, CSCE documentation indicated on the last question of page 1 information on the new storm water devices for Belmont. This is requested to be explained further pertaining to the seemingly referenced Belmont Quarry.

VA DEQ Wastewater Facility Inspection Report

Permit #	VAG840030
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EFFLUENT FIELD DATA: Outfall 002 discharging – sample data not obtained.

Flow	MGD	Dissolved Oxygen	mg/L	TRC (Contact Tank)	mg/L
pH	S.U.	Temperature	°C	TRC (Final Effluent)	mg/L
Was a Sampling Inspection conducted? <input type="checkbox"/> Yes (see Sampling Inspection Report) <input checked="" type="checkbox"/> No No S.I.					

CONDITION OF OUTFALL AND EFFLUENT CHARACTERISTICS:

1. Type of outfall:	<input checked="" type="checkbox"/> Shore based	<input type="checkbox"/> Submerged	Diffuser?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. Are the outfall and supporting structures in good condition?	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No		
3. Final Effluent (evidence of following problems):	<input type="checkbox"/> Sludge bar <input type="checkbox"/> Grease <input type="checkbox"/> Turbid effluent <input type="checkbox"/> Visible foam <input type="checkbox"/> Unusual color <input type="checkbox"/> Oil sheen				
4. Is there a visible effluent plume in the receiving stream?	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No		
5. Receiving stream:	<input checked="" type="checkbox"/> No observed problems <input type="checkbox"/> Indication of problems (explain below)				
Comments:					

REQUEST for CORRECTIVE ACTION:

<ol style="list-style-type: none"> 1. Add outfall 001 (Belmont Quarry and pit) information to the SWPPP. Change the references to outfall 001 in the current plan to outfall 002 for the Staunton Quarry and pit. Permit Part II G. 2. Explain what is meant by the comment in the CSCE report for January 2018 concerning new storm water devices for Belmont. Permit Part III D.
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NOTES and COMMENTS:

<p>See the laboratory portion of this inspection report for further requests.</p>

**DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION
LABORATORY INSPECTION REPORT**

11/2014

PERMIT #: VAG840030	INSPECTION DATE: September 20, 2018	PREVIOUS INSP. DATE: July 9, 2013	PREVIOUS EVALUATION: --	TIME SPENT: 12 hours
NAME/ADDRESS OF FACILITY: Rockydale – Staunton Quarry 2343 Highland Farm Road, NW Roanoke, VA 24017		FACILITY CLASS: <input type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> MINOR (Small) <input type="checkbox"/> VPA	FACILITY TYPE: <input type="checkbox"/> MUNICIPAL <input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> FEDERAL	UNANNOUNCED INSPECTION? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO FFY-SCHEDULED INSPECTION? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
INSPECTOR(S): William Maddox, Troy Eppard		REVIEWER(S): LMK	PRESENT AT INSPECTION: Sam Burks, Joy Hinkle	
LABORATORY EVALUATION			DEFICIENCIES?	
			Yes	No
LABORATORY RECORDS			✓	
GENERAL SAMPLING AND ANALYSIS				✓
pH PROCEDURE – NOT EVALUATED				

VELAP CERTIFICATION (on site Environmental Laboratory)		Yes	No
Does the laboratory have VELAP certification (interim or final)?			✓
– Document the laboratory's VELAP laboratory number:			
– Document the effective date of the VELAP certification:			
– Document the expiration date of the VELAP certification:			
– List the certified parameters:			
VELAP ACCREDITATION (Commercial Environmental Laboratory)		Yes	No
IS A VELAP ACCREDITED LAB USED FOR OTHER PERMIT REQUIRED ANALYSES? VELAP#, LAB NAME, ADDRESS and LIST PARAMETERS:		Yes	
VELAP #	LAB NAME	PARAMETERS	
460032	EnviroCompliance Laboratories, Inc., Verona	Total Suspended Solids (Note: EC also analyzes pH)	
IF PERMIT REQUIRED SAMPLE ANALYSIS IS PERFORMED AT ANOTHER LOCATION, ARE SHIPPING PROCEDURES ADEQUATE?		Yes	

COPIES: (✓) DEQ - RO; (✓) Owner, () Other:

LABORATORY RECORDS SECTION

LABORATORY RECORDS INCLUDE THE FOLLOWING:

<input checked="" type="checkbox"/>	SAMPLING DATE	<input checked="" type="checkbox"/>	ANALYSIS DATE	<input type="checkbox"/>	CONT MONITORING CHART
<input checked="" type="checkbox"/>	SAMPLING TIME	<input checked="" type="checkbox"/>	ANALYSIS TIME	<input type="checkbox"/>	INSTRUMENT CALIBRATION
<input checked="" type="checkbox"/>	SAMPLE LOCATION	<input checked="" type="checkbox"/>	TEST METHOD	<input type="checkbox"/>	INSTRUMENT MAINTENANCE
				<input checked="" type="checkbox"/>	CERTIFICATE OF ANALYSIS

WRITTEN INSTRUCTIONS INCLUDE THE FOLLOWING:

<input type="checkbox"/>	SAMPLING SCHEDULES	<input type="checkbox"/>	CALCULATIONS	<input type="checkbox"/>	ANALYSIS PROCEDURES
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	YES	NO	N/A
DO ALL ANALYSTS INITIAL THEIR WORK?	<input checked="" type="checkbox"/>		
DO BENCH SHEETS (or LOG BOOK) INCLUDE ALL INFORMATION NECESSARY TO DETERMINE RESULTS?	<input checked="" type="checkbox"/>		
IS THE DMR COMPLETE AND CORRECT? LIST MONTH(S) REVIEWED: 2018		<input checked="" type="checkbox"/>	
ARE ALL MONITORING VALUES REQUIRED BY THE PERMIT REPORTED?	<input checked="" type="checkbox"/>		
DOES CHAIN OF CUSTODY DOCUMENT PROPER SAMPLE PRESERVATION WAS MET?	<input checked="" type="checkbox"/>		
WHEN THE CERTIFICATE OF ANALYSIS CONTAINS FLAGGED DATA IS THE 'FLAG' REPORTED ON THE DMR?	<input checked="" type="checkbox"/>		

GENERAL SAMPLING AND ANALYSIS SECTION

	YES	NO	N/A
ARE SAMPLE LOCATIONS ACCORDING TO PERMIT REQUIREMENTS?	<input checked="" type="checkbox"/>		
ARE PERMIT REQUIRED SAMPLE COLLECTION PROCEDURES APPROPRIATE? Not reviewed. Analyst for pH and pH meter not present.			<input checked="" type="checkbox"/>
ARE EFFLUENT SAMPLES REPRESENTATIVE OF THE MONITORED ACTIVITY?	<input checked="" type="checkbox"/>		
ARE PERMIT REQUIRED COMPOSITE SAMPLES FLOW PROPORTIONAL? NOTE: Equal volume composite aliquots are acceptable <i>if the instantaneous flow is within ± 10% of the daily average flow during the monitoring period.</i> Some permits specify how the composite is to be taken (e.g., 5G/8HC).			<input checked="" type="checkbox"/>
IS COLLECTION SAMPLE EQUIPMENT ADEQUATE? Not reviewed.			<input checked="" type="checkbox"/>
IS FLOW MEASUREMENT ACCORDING TO PERMIT REQUIREMENTS?	<input checked="" type="checkbox"/>		

**DEPARTMENT OF ENVIRONMENTAL QUALITY – WATER DIVISION
LABORATORY INSPECTION REPORT SUMMARY**

FACILITY NAME:	Rockydale – Staunton Quarry	Permit #:	VAG840030	INSPECTION DATE:	9/20/2018
LABORATORY EVALUATION			No required actions at this time		
		✓	REQUIRED CORRECTIVE ACTION(s) IDENTIFIED		
SUMMARY of REQUEST FOR CORRECTIVE ACTION					
Lab Records					
Laboratory Records section deficiency and required action:					
<ol style="list-style-type: none"> When reporting discharge data for outfall 002, use the discharge monitoring report (DMR) for outfall 002 and not for the outfall 001 that is the outfall usually not discharging (permittee has data reversed for outfalls). Use the DMR forms for the Rockydale facility (dated 2017) and not the former Staunton Lime DMR forms dated 2012. Permit Part I A. Maintain a record on site of the pH meter calibration and analysis data performed by the contract laboratory. Permit Part III A 3 and Part III B. 					
General Sampling and Analysis					
General Sampling and Analysis section deficiency and required action:					
No problems noted.					
pH Analysis					
pH deficiency and required action:					
No problems noted.					
TRC Analysis					
TRC deficiency and required action:					
NA					
D.O. Analysis					
D.O. deficiency and required action:					
NA					
Temperature Analysis					
Temperature deficiency and required action:					
NA					
OTHER – Comments or Observations					
See the technical inspection portion of this report for further requests. See the attached pH check sheet for procedural information.					

Camera Image Log
Rockydale – Staunton Quarry
VPDES Permit Number VAG840030
Inspection Date September 20, 2018
WGM

1. Quarterly facility inspection document
2. Annual comprehensive site compliance evaluation documentation
3. Same
4. Same
5. Quarterly facility inspection documentation
6. Site map
7. Discharge pipe from sediment basin (outfall 001)
8. Outfall 001 discharge
9. Sedimentation pond
10. Check dam in ditch leading to sedimentation pond
11. Quarterly visual examination documentation

ROCKYDALE - STAUNTON QUARRY
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
QUARTERLY HOUSEKEEPING AND FACILITY INSPECTION CHECKLIST

QUARTER: 3
DATE: 7-27-18
AREA INSPECTED: ABOVEGROUND STORAGE TANKS
INSPECTOR: JHSaw

1. CONDITION OF TANK: Good
2. CONDITION OF TRANSFER PIPING: Good
3. CONDITION OF CONTAINMENT PAD: Good
4. INVENTORY O.K. ON SPILL KIT SUPPLIES: YES

*LIST ANY SPECIFIC PROBLEMS NOTED DURING THE INSPECTION AND ACTION TAKEN TO CORRECT BEFORE NEXT INSPECTION:

AUG

SEP

OCT

NOV

DEC

Annual Comprehensive Site Compliance Evaluation

A. Date of Evaluation: 1/14/14
B. Person Performing Evaluation: K. J. Nelson
C. Site Evaluation Checklist: Sturdevant, Belmont

Yes Does your facility show signs of poor housekeeping? If yes, please explain.
No

Yes Does your existing security measures limit access to the facility and surrounding grounds?
No If no, please explain: Gates, lighting, cameras

Yes Are there spots, puddles, or other traces of oil, grease or other chemicals on the ground, floor, or containment structures? If yes, please explain.
No

Yes Do you see leaking equipment, pipes, containers, or tanks? If yes, please explain.
No

Yes Do storage containers show signs of corrosion or leaks? If yes, please explain.
No

Yes Are there open containers, stacked drums, shelving or pallets too small to properly handle material inventory or other indications of poor storage procedures? If yes, please explain.
No

Yes Are containers properly labeled?
No

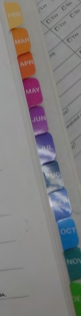
Yes Has new equipment been installed? If yes, please describe.
No N/A

Yes Have new containment structures been installed? If yes, please describe.
No N/A

Yes Have new coverings for outside storage areas been installed? If yes, please describe.
No N/A

Yes Have new storm water conveyance devices been installed? If yes, please describe.
No N/A Belmont - ramp ditch / catch basin & alcohol padlock

High Quality
-21



Yes Are existing storm water conveyance devices operating properly? If no, please explain.
No N/A

Yes Have any potential pollutant sources been identified? If yes, please describe.
No N/A No new sources

B. Evaluation

1. Evaluate the effectiveness of measures to reduce pollutant potential.
Measure are effective
2. Indicate any revisions necessary to update the plan for compliance.
No Revisions

E. Implementation

Yes Have all periodic visual inspection reports been completed?
No

Yes Have all non-structural BMPs been implemented?
No
N/A

Yes Have all structural BMPs been implemented?
No
N/A

F. Certification

Yes Have all incidents of non-compliance been documented in the Periodic Evaluation?
No

Signed: [Signature]
Title: E. BES

Printed Name: Karl H. Hill
Date: 11/25/16

Comprehensive Site Compliance Evaluation Report
Part of U.S. Environmental Site Compliance Evaluation

Facility Name: Starchel Petrol
 Permit Number: _____
 Date: 1/11/15 Time: _____ Weather: Clear Sunny
 Name of Inspector (Print/Sign): Ken H. H., Sam V. H.

Note: A lightning storm event is noted in table below as it was not possible to inspect the facility during this storm event.

Date	Rainfall (inches)	Duration of Storm Event (hours)	Number Hours between Storm Events

Storm Event Information: if available during CCEC

Previous Qualifying Storm Event
 Present Qualifying Storm Event
 Valid Storm Event for Stormwater Sampling?

Describe area inspected contributing stormwater associated with industrial activity (Part 1, G.4.9.)	Evidence of pollutants entering stormwater (Describe: oil, oil sheen, raw materials, discharges, etc.)	Controls & Measures to reduce pollutants in place and observed?	Stormwater management measures, Erosion & Sedimentation measures (separating sediment and silt) & maintenance?	Additional Pollution Prevention Controls & Measures needed?
Setling basins	No	Yes	Yes	No
Track washoff/washdown area	No			
Aggregate storage area	No			
Sludge/retention area	No			
Fueling area	No			
Spill Liquid Storage Area	No			
Production Plans	No			
Storm Water Discharge Diversion	No			
Outfall Box	No			
Storm Water Pollution Prevention Plan review: are revisions or updates needed.				

Remarks: Findings and corrective actions required by regulatory agencies, but not included in the SWPPP or in related pollution control devices or air sampling and control equipment shall be noted at this location. Initial date/completion date are used to track these activities.

Inspected by: _____
 Date: _____
 Inspector Signature: Ken H. H. Date: 1/26/15
 Title: E.A.S. Title: _____
 Name: _____



Environmental Quality
REPORT

ROCKYDALE - STAUNTON QUARRY
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
"QUARTERLY HOUSEKEEPING AND FACILITY INSPECTION CHECKLIST"

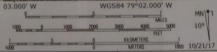
QUARTER: 3
DATE: 7-27-18
AREA INSPECTED: ABOVEGROUND STORAGE TANKS
INSPECTOR: JHSON

1. CONDITION OF TANK: Good
2. CONDITION OF TRANSFER PIPING: Good
3. CONDITION OF CONTAINMENT PAD: Good
4. INVENTORY O.K. ON SPILL KIT SUPPLIES: YES

*LIST ANY SPECIFIC PROBLEMS NOTED DURING THE INSPECTION AND ACTION TAKEN TO CORRECT BEFORE NEXT INSPECTION:

AUG
SEP
O

79°03.000' W WGS84 79°02.000' W



APPENDIX A
 APPENDIX B
 APPENDIX C

FIGURE 1				Rockydale - Staunton Quarry 251 National Avenue Staunton, Virginia
Site Location and Topography Map				
Date: February 2018	WES Project No. 17-029			Ward Environmental Services 10077 Amelia Manor Court Mechanicsville, Virginia
Drawn by: RAW	Checked by: RAW	Reviewed by: RAW	Approved by: RAW	
Scale: As Shown		File name: Figure 1 Site Location Map		

Source: USGS Quad,
 Staunton, Virginia, 1996,
 TOPOI National
 Geographic Holdings
 WWW.TOPOI.COM

10/21/17









Stormwater Sampling Documentation
Quarterly Visual Examination of Storm Water Quality

Printed Part 14 of Stormwater Pollution Prevention Requirements

Facility Name:	RECYCLAGE STATION
Permit Number:	
Outfall Number:	
Sample Location:	

Year: 2014

Note: A Qualifying Storm Event is a rainfall of 0.25 inch or greater, or a flow of 10 cubic feet from the outfall. Qualifying Storm Events that result in a discharge within 30 minutes (and no later than 120 minutes) from when the discharge begins, collect a representative sample of the stormwater discharge directly into a clean glass container and observe the water's characteristics in a well lit area.

Information and Data	1st Quarter (Jan-Mar)	2nd Quarter (Apr-Jun)	3rd Quarter (Jul-Sep)	4th Quarter (Oct-Dec)
Previous Qualifying Storm Event (Date)				
Previous Qualifying Storm Event (Rainfall amount, inches)				
Current Qualifying Storm Event (Date)	3-12-14	6-22-14	9-13-14	
Current Qualifying Storm Event (Rainfall amount, inches)	2.50" AFT 2.50" WET	RM 0"	RAIN .25"	
Time of Visual Examination	11:00	9:00 AM	5:00 PM	
Name and Signature of person conducting Examination	[Signature]	[Signature]	[Signature]	
Nature of Discharge (Rain Runoff, Storm water, or "None During Quarter")	STORMWATER	RAIN	RAIN	
Visual Quality Observations:				
1. Describe the Clarity and Color of the discharge: Clear, Slight Brown (or Gray), Light Brown (or Gray), Turbid Brown (or Gray), Muddy Brown (or Gray), etc.	CLEAR	CLEAR	CLEAR	
2. Describe any odor present: None, earthy, musty, petroleum, chemical-like, etc.	NONE	NONE	NONE	
3. Are there any floating solids present? If so describe: plastic or paper trash, wood chips, grass, etc.	NONE	NONE	NONE	
4. Are there any settled solids present after 30 minutes settling time? If so describe: 5%, 10%, 20%, 50% of sampling container full of solids.	< 1%	< 1%	< 1%	
5. Is there any foam present at the discharge outfall? If so describe color and extent of coverage.	NO	NO	NO	
6. Is there an oil sheen ("rainbow" hue) present?	NO	NO	NO	
7. Are there any other indicators of Storm Water pollution?	NO	NO	NO	

Comments and/or corrective actions taken (include):

Q1
POND
FUNCTIONS
AS DESIRED

Q2
POND
FUNCTIONS
AS DESIRED

Q3
POND
FUNCTIONS
AS DESIRED

FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING: USE ALL APPROPRIATE WASTE DISPOSAL METHODS TO PREVENT THE GENERATION OF POLLUTANTS AND TO PREVENT CONTAMINATION OF WATER. THE FOLLOWING INFORMATION IS PROVIDED FOR YOUR INFORMATION ONLY. THE INFORMATION IS NOT TO BE USED AS A BASIS FOR LIABILITY. THE INFORMATION IS NOT TO BE USED AS A BASIS FOR LIABILITY. THE INFORMATION IS NOT TO BE USED AS A BASIS FOR LIABILITY.

[Signature] [Signature] [Signature]
3/12/14 6/22/14 9/13/14

Monitoring Data

Staunton Lime Co (Appomattox Lime Co)
Water Report

Jan	2018	31	Days	24	Hours
Feb	2018	28	Days	24	Hours
March	2018	29	Days	24	Hours
		88	Days		

88 Days X 24 Hours
2112

5400	X	2112	11404800.00	
			<u>1000000.00</u>	
			11.4048	Max

5400	X	24	129600.00	
			<u>1000000.00</u>	
			0.1296	Ave

Permit Number

VAG840030

Discharge Numbers

- 1 Staunton Lime
- 2 Belmont

Water Samples Due By:

- Jan 10 2018
- April 10 2018
- July 10 2018
- Oct 10 2018

Mail To:

Valley Regional Office
 4411 Early Road
 P.O Box 3000
 Harrisonburg, Va 22811



EnviroCompliance Laboratories, Inc.
 10357 Old Keeton Road
 Ashland, Virginia 23005-8110
 (804)550-3971
 www.envirocompliance.com
 email: labdirector@envirocompliance.com

Analytical Results
R8329668

Staunton Lime
 Attn: Joy
 251 National Avenue
 Staunton, VA 24401

Project No. : 1st Qtr 2018
 Project Name : Quarterly
 Date Received: March 05, 2018
 Date Issued : March 08, 2018

Lab # R8329668 - 1(A)/Sample ID : V8314736-1 (Discharge)

Sampled: March 05, 2018 12:30

Parameter	Result	Units	QL	Date/Time Prepared	Date/Time Analyzed	Method	Analyst
TSS	2.7	mg/l	1.0	03-07/0900	03-07/1315	2540D97	MAC
pH**	8.25	SU	--	03-05/1230	03-05/1230	4500H+B00	SAW
Temperature**	17.8	°C	.1	03-05/1230	03-05/1230	2550B	SAW

R8329668

R8329668

BQL = Below Quantitation Level (Result is less than stated QL)
 All data meets TNI requirements unless otherwise noted.

Greg L. Hudson

Greg L. Hudson
 Laboratory Director

Report #: R8329668 Page 1 of 2



VELAP ID#: 460032





Report Annex

EnviroCompliance Laboratories, Inc.
10357 Old Keeton Road
Ashland, Virginia 23005-8110
(804)550-3971
www.envirocompliance.com
email: labdirector@envirocompliance.com

Abbreviations:

NR = Not Reported
ND = Not Detected
BQL = Below Quantitation Level (Result is less than stated QL or <QL)
< = Result is less than Quantitation Limit
J = Result is estimated outside of calibration range

Quality Assurance Flags:

L = LCS did not meet method criteria.
HT = Sample was not analyzed/received within holding time.
T = Sample was not received at appropriate temperature (<6.0C).
P = Sample was not properly preserved or received in inappropriate container.
R = Corr Coef <.995
C = Initial Instrument Calibration (Second Source) did not meet criteria
V = Continuing Calibration Verification did not meet criteria
S = Matrix Spike did not meet criteria
D = Duplicate did not meet criteria
B = Blank did not meet QC criteria
SR = Surrogate Recovery was not in acceptable limits.
TOX = Toxicity exhibited in BOD
G = GGA/Int. QC was not 198.5+/-30.5
Y = Yield not within 2-200mg
Cl = Residual chlorine was detected in the micro sample >15mg/l.
Micro methods do not perform properly for samples with residual chlorine.
* = Analysis was subcontracted
** = Non-accreditable/non-accredited parameter

Notes:

Analysis was performed in accordance to TNI requirements unless otherwise noted.
All methods are approved in 40 CFR 136/141 or as referenced on the Scope of Accreditation.



PROJECT NO
2017

PROJECT NAME
Dour Leely

SAMPLED

[Signature]

TYPE
Job

ANALYSES

Class
Code
Addr
City
R0
Phone
and 1

DATE

TIME

WASTE IDENTIFICATION

3-5-18

12:30

Discharge

Relinquished by (Signature)

[Signature]

Date
3-5-18

Time
12:30

Received by (Signature)

[Signature]

On Ice
"C"

Relinquished by (Signature)

Date

Time

Received by (Signature)

Case

Relinquished by (Signature)

Date

Time

Received for Lab by

SL
755

R:03-05 0:03/12 R832

F
7

Matrix: W Water S-Soln S-Organic Aquiferus S1 Sludge Inhibitor Nitric. Preservatives: Inhib. Inhibitor B...





Analytical Results R8631799

Enviro Compliance Laboratories, Inc.
10357 Old Keeton Road
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email: labdirector@envirocompliance.com

Staunton Lime
Attn: Joy
251 National Avenue
Staunton, VA 24401

Project No. : June 2018
Project Name : Quarterly
Date Received: June 18, 2018
Date Issued : June 27, 2018

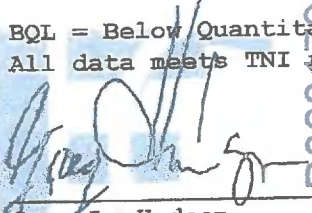
Lab # R8631799 - 1(A)/Sample ID : V8615246-1 (Discharge)

Parameter	Result	Units	QL	Date/Time Prepared	Date/Time Analyzed	Method	Analyst
TSS	4.8	mg/l	1.0	06-20/0915	06-20/1300	2540D97	MAC
pH**	6.75	SU	--	06-18/0955	06-18/0955	4500H+B00	SAW
Temperature**	27.5	°C	.1	06-18/0955	06-18/0955	2550B	SAW

BQL = Below Quantitation Level (Result is less than stated QL)
All data meets TNI requirements unless otherwise noted.

R8631799

R8631799


Greg L. Hudson
Laboratory Director

Report #: R8631799 Page 1 of 2
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VELAP ID#: 460032





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Report #: R8631799 Page 2 of 2

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PROJECT NO. SL: 2017		PROJECT NAME: Quarterly		# of Containers	Matrix	Comp./Grab	Preservative	Filtered	TSS	ANALYSES							Client Contact Address City PO Phone email
DATE	TIME	SAMPLE IDENTIFICATION															
6-18-18	9:55	Discharge			w	g			1								1.
																	7
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		On Ice		SL TSS R:06-18 D:06/25 V8 SL TSS R:06-18 D:06/25 R863									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Cooler											
Relinquished by: (Signature)		Date	Time	Received for Lab by:		C.A.L.											

Matrices: w=Water S=Soil O=Organic Aq=Aqueous Sl=Sludge F=Filter M=Misc. Preservatives: I=Ice L=Lactic



ANALYST:		VPDES NO	
----------	--	----------	--

Meter: _____

Parameter: Hydrogen Ion (pH)

Method: Electrometric

3/2015

METHOD OF ANALYSIS:

	21 st Edition of Standard Methods (SM 21) – 4500-H ⁺ B-2000 (SM 21 pH)
	22 nd Edition of Standard Methods (SM 22), or Online Editions of Standard Methods – 4500-H ⁺ B-2011 (SM 22 pH)

pH is a method-defined analyte so modifications are not allowed. [40 CFR Part 136.6]

	Y	N
1) Is a certificate of operator competence or initial demonstration of capability available for <u>each analyst/operator</u> performing this analysis? NOTE: Analyze 4 samples of known pH; you may use an external source of buffers or other known standards (different lot/manufacturer than buffers used to calibrate meter). Recovery for each of the 4 samples must be +/- 0.2 SU of the known concentration of the sample or within "Acceptable Range" specified by the PT provider. [SM 1020 B.1] NOTE: The same pH buffer [values] used for calibration of the instrument can be used as LCS if from a different source or different lot.		
2) IF a replicate sample is analyzed is there a written procedure for which result will be reported on DMR (Sample or Replicate) and is this procedure being followed? [DEQ – based on EPA Good Laboratory Practices Standards]		
3) Is a Laboratory Control Sample (LCS) tested at least annually and are results within acceptance criteria? [SM 21 B.2 or SM 22 1020 B.3.] NOTE: LCS should be a purchased Proficiency Test (PT) sample or a different buffer other than ones used for calibration of the meter [with a ±0.2 SU acceptance range or within "Acceptable Range" specified by the PT provider].. NOTE: The same pH buffer [values] used for calibration of the instrument can be used as LCS if from a different source or different lot.		
4) Is the electrode in good condition (no chloride precipitate, scratches, deterioration, etc.)? [SM 21 pH or SM 22 pH 2.b./c. and 5.b.]		
5) Is electrode storage solution in accordance with manufacturer's instructions? [SM 21 pH or SM 22 pH 4.a. and Mfr.]		
6) Is meter calibrated on at least a daily basis using three buffers all of which are at the same temperature? [SM 21 pH or SM 22 pH 4.a.] NOTE: Start with Buffer 7 unless manufacturer's instructions state otherwise. NOTE: If meter is not capable of 3 buffer calibration use 2 buffers bracketing the expected sample pH and then <u>measure</u> a 3 rd buffer (the measurement value recorded must be ±0.1 SU), and then <u>re-read and record</u> value of buffer 7 to ensure ±0.1 SU.]		
7) After calibration, is a buffer analyzed as a check sample to verify that calibration is correct? Verification measurement should be within +/- 0.1 SU. [SM 21 1020 B 10.c. or SM 22 1020 B 11.c.]		
8) Is calibration verification measurement repeated with every 10 samples and at the end of a series of samples? Verification measurement should be within +/- 0.1 SU. [SM 21 pH or SM 22 pH 4020 B 2.b.] NOTE: Not applicable if pH meter is calibrated before taking any measurement (e.g., if operator monitors daily pH at more than one facility and calibrates before each measurement).		
9) Do the buffer solutions appear to be free of contamination or growths? [SM 21 pH or SM 22 pH 3.a.]		
10) Are buffer solutions within the listed shelf-life or have they been prepared within the last 4 weeks? [SM 21 pH or SM 22 pH 3.a.]		
11) Is the cap or sleeve covering the access hole on the reference electrode removed when		

measuring pH? [Mfr.]

- 12) Is sample analyzed within 15 minutes of collections? [40 CFR Part 136]
- 13) Is the electrode rinsed and then blotted dry between reading solutions (Disregard if a portion of the next sample analyzed is used as the rinsing solution.)? [SM 21 pH or SM 22 pH 4.a and 4.b]
- 14) Is the sample stirred gently at a constant speed during measurement? [SM 21 pH or SM 22 pH 4.b.]
- 15) Does the meter hold a steady reading after reaching equilibrium? [4.b.]

PROBLEMS: