

OPERATIONS AND MAINTENANCE MANUAL
FOR
VPDES GENERAL PERMIT **VAG110187**

CHANEY ENTERPRISES, LP
SPOTSYLVANIA RMC FACILITY
8520 INDIAN HILLS COURT
FREDERICKSBURG, VA 22407
12/5/2018

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1. Introduction

a. Site Overview:

The Spotsylvania Ready-Mix Concrete Facility is located at 8520 Indian Hills Court, Fredericksburg, VA 22407. The site is situated in an industrial area between Interstate 95 and Route 1. The facility produces ready-mix concrete and stores sand and gravel for use in the ready-mix concrete batching operations. The site contains a four (4) tier settling basin, fuel and water storage tanks, aggregate and sand bins, a batch office, a storage garage, and a truck repair shop.

b. Emergency Contacts:

Business Office Location: 2410 Evergreen Rd., Suite 201
Gambrills, MD 21054

Primary Emergency Contact

Name: Chris McCoy
Title: Safety Director
Cell: (240) 299-7172
Email: cmccoy@chaneyenterprises.com

Secondary Contact

Name: Jeff Slagle
Title: Concrete Ops. General Manager
Cell: (540) 710-0075
Email: jslagle@chaneyenterprises.com

State Agency: Virginia Dept. of Environmental Quality
(804) 698-4000
Specific Contact: Rebecca Vice
Title: Compliance Auditor
Office Number: 1-800-332-6542
Cell/Direct: (703) 583-3922

Federal Agency: National Response Center
(800) 424-8802

Medical: Inova HealthPlex - Lorton
(703) 982-8400

Sheriff: Spotsylvania County Sheriff's Office
(540) 507-7200

2. Description of Potential Discharges and Treatment Facilities

From the process of batching concrete, washing truck exteriors and drums, dust suppression, and watering aggregates, a waste consisting of small amounts of solids (mud, sand, clay, and gravel) and chemicals used in batching concrete is generated. Saddle tanks on the mixers are filled with potable water used to wash down the truck exterior and chute before leaving the site, and add to the drum as needed. Flow is provided by a garden style hose attached to the mixer's saddle tank. Additional flow is provided by a pump located in the final settling basin connected to a pipe stand used to washout mixer drums after they return from a job-site.

Process and storm water are directed to a four (4) tier settling basin via grading. Collected waters will then flow through the first three (3) tiers. These tiers are large enough to hold water long enough for sediments to drop out. Before reaching the fourth basin, water pass through a treatment tank where a pH Watchdog utilizes acid to lower pH levels. After leaving the settling basins, an underground pipe directs treated water to the discharge point. Discharge Point 1 (**DP 1**) originates from the underground pipe. Monitoring occurs at DP1 and at the treatment tank. See **Appendix A** for a diagram of the site and location of the Discharge Point.

3. Maintenance

a. Routine Maintenance schedules:

Settling basins are inspected daily for sediment accumulation. A loader is used to clean out the settling basins when they are approximately half full of sediments or before known storm events. The treatment system is checked twice a day, acid is added in the morning and evening. The pump for the pH Watchdog is checked daily and cleaned if needed. There is a dumpster on-site, provided by Waste Management, that is emptied weekly.

b. Material Handling/Storage

All chemicals kept on-site are stored in the garage. Chemicals will be stored in properly sealed and labeled containers. All containers will be kept under cover, away from site traffic, and out of contact with storm or process waters.

See **Appendix B** for Material Safety Data Sheets for all chemicals stored on-site.

4. Spill Management Procedures

a. *Spill Containment/Storage*

All spills, including spills from fuel, oil, coolant, transmission/hydric fluid, truck wash, add mixtures, or concrete are cleaned up as soon as they are noticed with dry methods and disposed of such that no discharge to state waters except as authorized by VAG110187 occurs. In the event of a spill we use ACE Environmental Services, LLC or a similar certified environmental clean up specialist to remove all contaminated material to be disposed of properly off-site. No contaminated materials will be stored on-site.

b. *Material Handling/Storage*

All truck wash and add mixtures are stored in sealed and properly labeled containers in the garage under the batch office or in totes next to the batch office. Fuel is stored in a double walled fuel tank located adjacent to the truck repair shop and all other vehicle fluids, oil, coolant and transmission fluid/hydric fluids, are also stored in the garage under the batch office.

5. Effluent Monitoring Requirements

a. *Authorized Samplers*

Victor Vilece	Environmental Project Manager	301-861-6094
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b. *Sampling Procedure*

Discharge samples will be collected by Chaney's Authorized Samplers (listed above). They will collect pH samples and analyze within 15 minutes on site. Samples for TSS reporting are collected, preserved, and analyzed by AMA Analytical Services 4475 Forbes Blvd, Lanham, MD 20706, in accordance with the Code of Federal Regulations (CFR) 40 CFR Part 136 or Alternative methods. Samples will be taken, by Chaney Staff, to an accredited lab for analysis.

Samples are collected a minimum of once every three months if there is a discharge to sample. Samples shall be collected by March 31, June 30, September 30, and December 31 of each year and reported on the facility's Discharge Monitoring Report (**Appendix E**) and submitted to DEQ at the Northern Regional Office 13901 Crown Court, Woodbridge, VA 22193. DMRs shall be submitted by January 10, April 10, July 10, and October 10 of each year. A minimum of one grab sample shall be taken resulting from a storm event that results in an actual discharge from the site. Flow is estimated as gallons per day. If

no discharges occur in the three-month period, the DMR will have “No Discharge” written upon it.

6. Personnel

All reports shall be signed and dated by a signatory authority per Part III K 2 of the permit. The following indicates the authorities of plant personnel:

Kyle Murray – Land General Manager and permit holder. Has direct contact to DEQ.
Victor Vilece – Environmental Project Manager – develops operations and maintenance (O&M) manual with input from operator. Reviews O&M annually with input from operator. Has direct contact to DEQ, monitoring coordinator (contact lab, conducts sampling), fills out and signs DMR. Also has direct contact to DEQ.
Eric Aygei – Plant Manager – direct contact to DEQ. Notifies Environmental Project Manager if O&M manual needs to be revised, conducts sampling during storm events, enforces BMPs at plant site.

7. Records

All records for facility maintenance, inspections, and sampling and testing, shall be maintained for a minimum of three years and shall be available for inspection by the owner, manager, and DEQ upon request.

8. SWCB Permits or Certificates

A copy of VPDES Permit #VAG110187 is included in **Appendix D** of the manual.

9. Closure Plan

a. Treatment and removal of wastewater, storm water, and solids.

All wastewater and storm water will be treated before being discharged from the site. All discharge will occur through DP1 as shown in Appendix A. Water that cannot be treated to compliance with the VPDES regulations will be removed from the site by a contractor and disposed of at the proper facility. Hardened residual concrete materials will be shipped off site to the Waldorf Plant for crushing and sale.

b. Fate of structures.

At the end of the operations all structures will be removed from the site.

c. *Removal Plan for all exposed industrial materials.*

All exposed industrial materials will be stored and recycled at the appropriate recycling facility.

d. *Description of the stabilization of land in which exposed industrial materials were stored or placed.*

No exposed industrial materials will be stored on site.

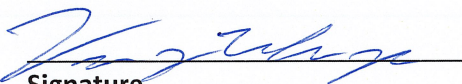
10. Corporate Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Victor Vilece
Name

12/6/18
Date

Environmental Project Manager
Title


Signature

Appendix A Location Map



★ = Discharge Point 1

Appendix B
Material Inventory

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
<i>Sand, Gravel</i>	Solid particles	Silicon, suspended solids, turbidity, sediment
<i>Hydraulic oil/fluids</i>	Brown oily petroleum hydrocarbon	Mineral oil
<i>Gasoline</i>	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
<i>Diesel Fuel</i>	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes
<i>Antifreeze/coolant</i>	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)

All Material Safety Data Sheets can be found at www.chaneyenterprises.com

Appendix D Discharge Monitoring Report Form

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)
 NAME Rowe Concrete LLC - Spotsylvania Plant
 ADDRESS 13250 James Madison Pkwy
 King George VA 22485

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CONCRETE PRODUCTS FACILITIES
DISCHARGE MONITORING REPORT(DMR)**

09/11/2013
 DEPT. OF ENVIRONMENTAL QUALITY
 (REGIONAL OFFICE)
 Northern Regional Office
 13901 Crown Court
 Woodbridge VA 22193

FACILITY Spotsylvania County, Rte. 1 to Massaponax Ch. Rd.
 East to Indian Hills Ct.
 8520 Indian Hills Ct

VAG110187		001	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED			*****	*****				
	REQUIREMENT	NI	NI	*****	*****			1/3M	EST
002 PH	REPORTED	*****		*****	*****				
	REQUIREMENT	*****		*****	*****			1/3M	GRAB
004 TSS	REPORTED	*****		*****	*****				
	REQUIREMENT	*****		*****	*****	60	MG/L	1/3M	GRAB

DEQ Comments:

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M/G)	TOTAL BOD5(K/G)	OPERATOR IN RESPONSIBLE CHARGE				DATE				
				TYPED OR PRINTED NAME		SIGNATURE		CERTIFICATE NO.		YEAR	MO.	DAY
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OPERATE AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THIS SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				TELEPHONE				
				TYPED OR PRINTED NAME				SIGNATURE		TELEPHONE		YEAR