

STORM WATER POLLUTION PREVENTION PLAN

for

Chaney Enterprises – Amelia RMC Plant (VPDES 110388)

42824 Durham Court
Leesburg, VA 20175

Prepared by:
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2410 Evergreen Rd., Suite 201
Gambrills, MD 21054

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1. Introduction

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

Primary Emergency Contact
Name: Victor Vilece
Title: Environmental Manager
Office Number: (301) 861-6094
Email: vvilece@chaneyenterprises.com

Secondary Contact
Name: Bill Tate
Title: Area Production Manager
Cell: (571) 340-1453
Email: wtate@chaneyenterprises.com

State Agency:
Virginia Dept. of Environmental Quality
(703) 583-3800
Specific Contact:
Amy Hagerdon
Water Compliance Inspector
(571) 866-6086

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

Storm Water Pollution Prevention Plan (SWPPP) Purpose Statement:

This SWPPP has been prepared by Chaney Enterprises for the Leesburg RMC Plant in Leesburg, Loudon County, Virginia. The SWPPP has been prepared in accordance with the requirements of COMAR 26.17.02 as described in the "Virginia General Discharge Permit" No. VAG110388.

2. Facility Overview

Description:

The facility batches ready mix concrete and stores sand and gravel aggregate for use in batching operations. The batch equipment is located inside of a former block plant building. All concrete batching and truck loading activities occur indoors, limiting exposure to stormwater. A four (4) tier wash basin with a pipe stand for mixer drum washout and a water treatment system is located south of the batch plant building. Aggregate stockpiles are on the east side of the building. Vehicle parking areas and a

fueling station are located on the west side of the building. A fuel oil tank for the water heater is located north of the building.

Location:

The batch plant is located at 42824 Durham Court, Leesburg, Virginia.

SIC/NAICS Codes:

SIC – 3273 Ready-Mix Concrete Facilities

NAICS – 327320 Ready-Mix Concrete Manufacturing

Site Drainage and Outfall Information:

The site is composed of the above-described buildings, basins, and storage areas. There is one main drainage zone on site, all stormwater run-off is directed to the wash basin where it is collected, treated with the process water, and recycled into the batch plant. The discharge point, Outfall 001, in the northeast corner of the site (See *Figure 3*).

Sampling Data:

This site is permitted and is therefore required to be sampled annually. The parameters sampled for are pH, Total Suspended Solids (TSS), and flow. These constituents are analyzed according to direction provided by VADEQ. Discharge monitoring reports will be submitted on a quarterly basis to:

Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Material Inventory:

Serval types of aggregates are stored on-site. The aggregate is used in concrete batch production along with cement and fly ash. Aggregate is stored in block bins on the east side of the site. Aggregate piles are consolidated as needed to keep them confined to the bins. There are also fuels and admixtures stored and used on-site. Fuels are stored in double walled tanks on the west and north sides of the building. Admixture tanks are stored inside of a sea container inside the batch plant building. See *Table 2* for a comprehensive materials list.

The existing inventory accurately represents the inventory of materials stored at this location in the past.

Industrial Activities and Potential Pollution Sources:

Industrial activities at the site which potentially may impact water quality from the introduction of pollutants include:

- Concrete batch production and admixtures
- Leaking petroleum from delivery and storage
- Aggregate storage

Facility Security:

The facility is in an industrial park. The facility has adequate lighting. The site is fenced in, and the entrance is gated. The gate remains closed and locked during non-working hours.

3. Best Management Practices (BMP's)

Operational Controls:

This facility has been evaluated for all applicable Operational Source Controls BMPs as established by the Virginia Department Quality in the Virginia Erosion and Sediment Control Handbook, Second and Third Edition.

Housekeeping

Employees of Chaney Enterprises are responsible for maintaining the facility in a clean and orderly manner. Areas which could contribute to storm water pollution will be kept so as to minimize its' potential to contribute contaminants.

Good housekeeping includes:

- Neat and orderly storage of chemicals
- Chemical storage containers labeled
- Containment of sediment on site.
- Prompt cleanup and removal of spillage, and
- Storage of garbage and trash in a dumpster.

Preventive Maintenance

This site is inspected on a routine, periodic basis. Maintenance issues which are identified are addressed in a timely manner.

Facility equipment and water treatment systems are inspected quarterly and serviced as needed. *Table 4* contains a schedule of BMP inspections.

Spill Prevention and Cleanup

The potential exists for petroleum spills during vehicle transfer. Spills at this time could contribute to contamination of receiving waters, Virginia regulations require proper design, and maintenance of all tanks and storage areas.

Sediment and Erosion Control

The facility is paved, but during storm events there is the possibility for sediment transport from the aggregate storage bins. Materials that could potentially be eroded are checked daily. If issues are found, they are addressed immediately.

Employee Training

Employees of Chaney Enterprises will undergo yearly training. This training includes:

- Environmental awareness
- Site Knowledge
- State regulations and permit requirements
- Plant contents
- Pollution prevention overview
- Spill response procedures
- Housekeeping procedures
- Treatment system functions
- Importance of compliance

Pollution Prevention Committee

Victor Vilece - is the Environmental Manager and is responsible for overseeing, implementing, and maintaining this plan. In addition, he is responsible for assisting plant personnel in the full and continual adherence to the plan. This includes making management aware of resource needs. He also oversees all sampling of discharges on a quarterly basis and prepares and submits all DMR's. He heads the implementation of the Storm Water Pollution Prevention Plan.

Bill Tate - is the regional manager and part of the Committee. His responsibility is to ensure the Plant Manager's adherence to policy.

Dean Luzader - is the plant manager and is responsible for monitoring treatment systems and implementing BMPs daily.

All employees at this location are encouraged to bring to the attention of the committee members any deficiencies they encounter, or any ideas for storm water protection they may have.

Source Controls:

This facility has been evaluated for all applicable Source Control BMPs as established by the Virginia Department of Environmental Quality in the Virginia Erosion and Sediment Control Handbook, Second and Third Edition.

Treatment BMPs

A four-tiered wash basin and a Hydro Carbonic Purification system are used to treat stormwater and process water for sediments and pH (*Figure 3*). Treated water from the final settling basin is pumped into the gray water storage tank for reuse in truck and mixer drum washing. Gray water can also be used for dust control throughout the site. Any issues with the system will be reported to the pollution prevention committee members for immediate correction.

Run-Off BMPs

Storm water run-off from the property discharges onto the adjacent property. There is no evidence of any erosional or depositional problems associated with drainage – therefore additional flow controls have not been necessary.

Enhanced and / or Additional BMPs

In case enhanced or additional BMPs are deemed necessary, a schedule for implementation will be developed and incorporated into this plan within 30 days of determination. The new BMPs will be implemented with all due diligence. Unless otherwise directed by VADEQ, all newly required operational BMP's will be implemented within 15 days of direction. BMPs that require capital expenditure will be implemented within six months.

4. Monitoring Plan

Discharge Points and Flow Characteristics:

When there is surface water discharge from the ready-mix concrete operation the sampling and analytical methods, if used, shall conform to procedures for the analysis of pollutants as identified in 40 CFR Part 136 – “Guidelines Establishing Test procedures for the Analysis of Pollutants” unless otherwise directed by VADEQ.

Sampling Data Summary:

Sampling is done quarterly as described in the “Virginia General Discharge Permit” No. VAG110388.

Visual Monitoring:

Air quality visual inspections are performed daily (*Appendix C*). The surface water discharge point is visually inspected quarterly. A comprehensive site inspection is done annually by onsite personnel or a member of the Pollution Prevention Committee.

Unintended Discharges:

There have been no reported incidents of unintended discharges or spills at this location within the past 3 years.

5. Inspections

Comprehensive Site Compliance Evaluation:

Inspections are performed quarterly and documented with a CEEIP inspection form (*Appendix A*). The inspection reports are retained for three (3) years onsite as well as in the corporate office. Signature on the form signifies certification that the site is in compliance with the SWPPP and the “Virginia General Discharge Permit” No. VAG110388.

6. Compliance with SARA Title II

Chemicals subject to SARA Title III. Section 3 includes diesel fuel. Diesel fuel is subject to the SPCC Plan requirements of the Clean Water Act. The SPCC Plan addresses compatibility, secondary containment, spill prevention, spill control, and drainage. The facility currently does not have a P.E. certified SPCC Plan. There have been no discharges of any material covered under SARA Title III at this facility in the past three (3) years.

7. Consistency with Other Statutes and Plans

Chaney Enterprises is subject to certain requirements and schedules that pertain specifically to its reclamation areas. They do not impact the requirements under the “Virginia Discharge Permit” No. VAG110388. Vehicle maintenance is currently done off-site, if this were to change the facility would obtain proper VADEQ permitting.

8. Administration of SWPPP

Access to SWPPP:

A digital copy of this plan will be accessible on-site in the batch plant office and at the corporate office located at 2410 Evergreen Road, Gambrills, MD 21054. Upon request it shall be made available to VADEQ. Any requests for a current copy or updates will be honored within two weeks of formal receipt of the request.

Amendments to the SWPPP:

The Plan shall be amended whenever there is a change in design, construction, operation, or maintenance of site conditions and BMPs. It will also be amended in accordance with direction by VADEQ or when visual monitoring indicates a need for an amendment. See *Appendix E* for a list of changes made to this document.

Inspection and Record Keeping:

Inspections as required by the Virginia Department of Environmental Quality as described in the Virginia General Discharge Permit No. VAG110388 will be conducted by members of the Pollution Prevention Committee or the Plant’s Manager or his authorized representative. A comprehensive site inspection is done quarterly (see *Appendix A*). Reports of visual monitoring done by facility staff will be submitted to the

Environmental Manager. Deficiencies identified will be scheduled for correction. When necessary, a schedule of compliance will be developed and submitted into this Plan. Records of all monitoring information, inspection reports, and any other compliance documentation will be kept for three (3) years onsite as well as in the corporate office. All information described above is available for review by contacting the Environmental Manager.

Signatures:

All reports required by the Virginia Department of Environmental Quality as described in the Virginia General Discharge Permit No. VAG110388, the applicable regulations and this Plan, and other documentation requested by the Virginia Department of Environmental Quality shall be signed by the Plant's/Environmental Manager or an employee or agent under his direct supervision. The Plant's/Environmental Manager has been given overall responsibility for these matters by a principal executive officer. All persons signing documents as described above must make the following 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."

Signature: _____

Date: _____

Name: Victor Vilece _____

Title: Environmental Manager _____

**FIGURE 1:
MAP OF FACILITY**



**FIGURE 2:
TOPOGRAPHIC MAP**



Figure 3: Facility Map

SITE NAME: Leesburg Ready Mix Concrete Facility

SITE LOCATION: 42824 Durham Court

Leesburg, VA 20175

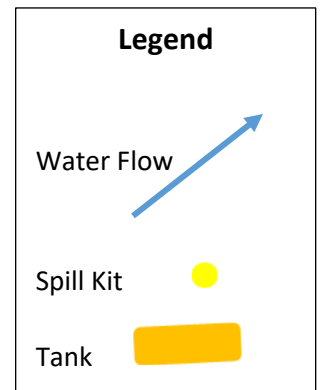
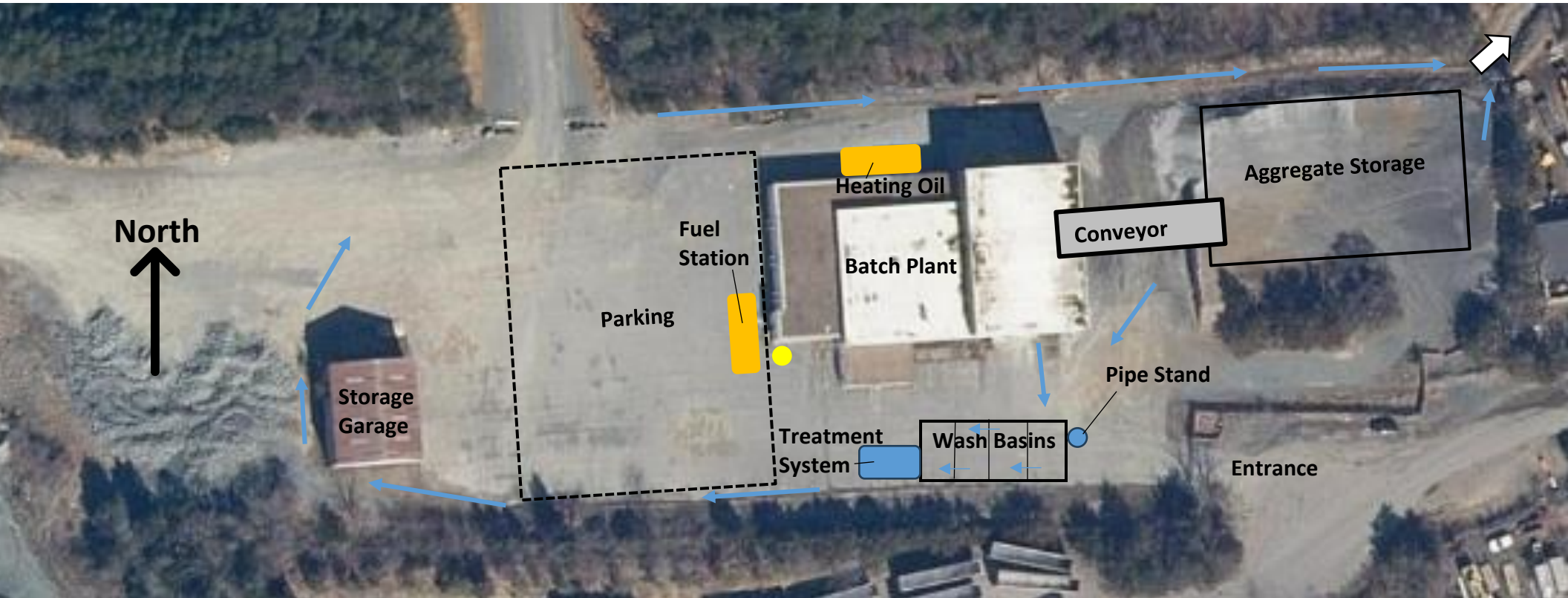


TABLE 1
EXISTING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/ DISCHARGE POINTS	STORM WATER DRAINAGE DESCRIPTION	POTENTIAL POLLUTION	POTENTIAL PROBLEMS
<i>Facility Drainage</i>	Natural Topography and site grading direct drainage throughout the site.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading of trucks may result in sediment discharge.
<i>DZ-1</i>	Natural Topography and grading direct stormwater to Outfall 001. Run off will come from the batch plant, parking area, and aggregate bins.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading of trucks may result in sediment discharge. Aggregates may be carried by storm water.
<i>Outfall 001</i>	Riprap is used to stabilize the outfall and filter out sediment.	Sediment	Runoff from bulk material areas may result in excess sediment buildup.

Table 2 **MATERIAL INVENTORY**

Most common materials stored on-site

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)
<i>DCI S</i>	Clear	pH, Calcium Nitrate
<i>PolarSet</i>	Clear	pH, Calcium Nitrate, Diethylene glycol
<i>Portland Cement</i>	Solid powder, Gray/white, Odorless,	pH, Sediment
<i>Fly Ash</i>	Solid powder, Tan, Odorless	pH, Sediment

*A complete list of chemicals stored at all Chaney Enterprises sites can be found at
<https://www.chaneyenterprises.com/Resources/Safety-Data-Sheets>

TABLE 3
SWPPP IMPLEMENTATION SCHEDULE

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Environmental compliance inspections (CEEIP)</i> Appendix A	Quarterly
<i>Implementation of SWM Control Measures</i>	Daily
<i>Visual Inspection of Washout Basins</i> Appendix A	Quarterly
<i>Visual Inspection of Treatment System</i>	Daily
<i>Backwashing Treatment System Filters</i>	Weekly or As Needed
<i>Visual Inspection of Batch Plant Air Filtration System</i> Appendix C	Daily *When plant is running
<i>Employee Environmental Education</i>	Annually: 4 th quarter
<i>SWPPP Compliance Assessment</i> Appendix D	Annually: 4 th quarter

TABLE 4
BMP INSPECTION SCHEDULE

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Washout Basins and Treatment System</i>	Inspect daily for sediment accumulation, Clean weekly or as needed. Inspect daily to ensure the treatment system is on and working properly. Backwash filters weekly or as needed.
<i>Fuel Station</i>	Visually inspect quarterly for signs of wear and leaks.
<i>Waste Concrete Storage</i>	Visually inspect quarterly for proper containment. Clean residual waste as needed.
<i>Material Storage Areas, Including Aggregate Stockpiles</i>	Visually inspect quarterly for proper containment, labeling, and signs of leaks or spills.
<i>Entrance, Yard, Curbs, Stormwater Structures</i>	Visually inspect quarterly for sediment accumulation, dust, and effectiveness in directing storm water.

For BMP Inspection logs see **Appendix A** for CEEIP forms, all other inspections logs can be found on
Dispatch Software.

I. General Information

Facility:		Permit #:	
Date:	Time:	Weather:	Phone:
Facility Address:			Site Manager:
Inspector:			

II. Site Conditions

SWPPP On Site: Yes No DMR's On Site: Yes No

E & S Controls	BMP's	Discharge	Roadways
Berms:	Fuel Station:	Color:	Entrance:
Traps:	Chemical Storage:	Clarity:	Haul Roads:
Basins:	Agg Storage:	Solids:	Yard:
Gutters:	House Keeping:	Odor:	Msc:
Curbs:	Msc:	Oil Sheen:	

Additional Comments on Site Conditions:

Site Corrections:

III. pH Treatment System

	Questions	Answer
Washout/Settling Ponds	Have washout basins/ponds been cleaned recently?	
	What is the pH in the settling area w/handheld probe?	
	What is the pH on the pH System display?	
pH Probe	Is probe covered in residue and dirty?	
	Was probe cleaned with cleaning solution?	
	What are readings before/after calibration with solution 7.0?	
	What are readings before/after calibration with solution 10.0?	
Piping	Is intake piping functional?	
	Is discharge piping functional?	

Due Date:

Days **1wk** **2wk** **3wk**

Sign: _____

Comments on pH System Conditions:

Inspector

Name: _____ Signature: _____ Date: _____

POURING OUR HEART & SOUL INTO EVERY JOB

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

APPENDIX B
EMERGENCY CONTACT INFORMATION

**IN THE EVENT OF A SPILL CONDUCT THE
FOLLOWING STEPS:**

1. LOCATE SPILL KIT
2. CONTAIN SPILL
3. CONTACT CHANEY SAFETY DIRECTOR

Gus Buttar
(240) 299-7172

4. CONTACT THESE AGENCIES

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

APPENDIX D

SWPPP COMPLIANCE ASSESSMENT

SWPPP Feature	Y/N	Comments
Have quarterly CEEIPs been conducted and have forms been filed?		
Have BMPs been implemented and has the implementation schedule been adhered to?		
Has employee training been implemented?		
Have all changes to site function been addressed in the SWPPP?		
<div style="display: flex; justify-content: space-between;"> Name: _____ Date: _____ </div> <div style="margin-top: 5px;"> Signature: _____ </div> <div style="margin-top: 5px;"> Title: _____ </div>		

APPENDIX E
Changes to SWPPP

Date	Individual Responsible for Change	Nature of Change
9/17/24	Victor Vilece	Addition of VPDES permit #, revision to site description, BMPs, and good housekeeping practices. Appendix C is now done digitally. Figure 3 updated.