

**STORM WATER POLLUTION PREVENTION PLAN**  
for  
**Chaney Enterprises – Spotsylvania RMC Plant**  
**(VPDES 110187)**  
8520 Indian Hills Court,  
Fredericksburg, VA 22407

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

**May 2021**

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## 1. Introduction

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

### Primary Emergency Contact

Name: Eric Agyei  
Title: Plant Manager  
Office Number: (540) 710-2382  
Email: [eagyei@chaneyenterprises.com](mailto:eagyei@chaneyenterprises.com)

### Secondary Contact

Name: Victor Vilece  
Title: Environmental Project Manager  
Cell: (301) 861-6094  
Email: [vvilece@chaneyenterprises.com](mailto:vvilece@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

### *Storm Water Pollution Prevention Plan (SWPPP) Purpose Statement:*

This SWPPP has been prepared by Chaney Enterprises for the Spotsylvania RMC Plant in Fredericksburg, Spotsylvania 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. VAG110187.

## 2. Facility Overview

### *Description:*

The facility produces concrete and stores sand and gravel for use in the ready-mix concrete batching operations. There is a medium sized catch basin onsite and all effluent is treated for pH before discharging offsite. There are two diesel storage tanks on site as well as a water storage tank. There is also a batch office, garage, truck repair shop, and recycle concrete storage on site.

*Location:*

The batch plant is located at 8520 Indian Hills Court, Fredericksburg, Virginia, 22407. In an industrial park between Route 1 / Jefferson Davis Highway and Interstate 95.

*SIC/NAICS Codes:*

SIC – 3273 Ready-Mix Concrete Facilities  
NAICS – 327320 Ready-Mix Concrete Manufacturing

*Site Drainage:*

The site is comprised of the above described buildings, tanks, and storage areas. There is one main drainage zone on site and all water drains in a southerly direction. There is one (1) discharge point (Outfall 001) that drains into an unnamed tributary of the Mattaponi River.

All process water is pumped through a Hydrocarbonic Purification water treatment system which neutralizes pH and filters sediments. The gray water produced by the treatment system is recycled back into the plant for batching concrete. For use during storm events or when the batch plant is not running pH is treated by a Fortrans Model 5000 CO2 pH Treatment System.

*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

*Material Inventory – Present:*

The most common materials stored on-site include:

Material	Quantity
Cement	51 Tons
Aggregate	835 Tons
Sand	620 Tons
Diesel	3,106 Gallons

*\*All aggregate/sand piles described above are exposed to storm water. Most gravel-sized aggregate does not present a realistic run off threat. Likewise, sand is not a major concern since it can be retrieved and placed back into storage if eroded.*

*Material Inventory – Past:*

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

*Facility Security:*

The facility is located within an industrial park. The facility has adequate lighting. Entry is by a driveway at the western edge of the property. There is a chain link fence surrounding the facility that is gated and locked during non-working hours.

*Discharge Information:*

There is one (1) discharge point, Outfall 001, that handles both storm water and process water (Figure 3).

*Sampling Data:*

This site is permitted and is therefore required to be sampled quarterly. 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

**3. Best Management Practices (BMP's)**

*Operational Controls:*

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

Housekeeping

Employees of Chaney Enterprises, LP 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 tight 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 storm water drainage structures are inspected quarterly and serviced as needed.

### Spill Prevention and Cleanup

Potential exists for petroleum spills during vehicle transfer and removal. Spills at this time could contribute to contamination of receiving waters, Virginia regulations require proper design, and maintenance of all tanks and storage areas. Monitoring and record keeping is required, as is on-site spill response capability.

### Sediment and Erosion Control

The facility is partially paved and during storm events there is the possibility for sediment transport to the settling basins on-site. Materials that could potentially be eroded are checked daily. If issues are found they are addressed immediately.

### Employee Training

Employees of Chaney Enterprises, LP 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 Project Manager. He 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. 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.

*Mike Hockenberry* Is the Area Production Manager and is responsible for overseeing day – to – day adherence to this SWPPP.

*Eric Agyei* is the Plant Manager and is responsible for monitoring treatment systems and implementing BMP's daily.

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

*Source Controls:*

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

Treatment BMP's

Two (2) pH control systems are located on-site at the Spotsylvania Facility (*Figure 3*). They function as automated pH neutralizing systems for washout/wastewater and storm water runoff. Both systems utilize non-hazardous carbon dioxide gas, with proper storage on-site. The systems are checked daily (during plant operations hours) and on-site personnel ensure they are functioning properly. Any issues with the systems will be reported to the pollution prevention committee members for immediate correction.

Run-Off BMP's

Discharge from the site flows into an unnamed tributary of the Mattaponi River. Flow can be controlled with a valve and the site can operate in a 'no discharge' state. All flow is treated before reaching Outfall 001.

Stockpiled material consists of varying sizes of aggregate and sand. This material seen migrating from the pile is picked up by a front-end loader and placed back into the stock pile.

Enhanced and / or Additional BMP's

In case enhanced or additional BMP's are deemed necessary, a schedule for implementation will be developed and incorporated into this plan within 30 days of determination. The new BMP's 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. BMP's that require capital expenditures will be implemented within six months.

**4. Monitoring Plan**

*Discharge Points and Flow Characteristics:*

There is surface water discharge from the ready mix concrete operation into a tributary of the Mattaponi River. 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. VAG110187.

*Visual Monitoring:*

The surface water discharge point is visually inspected quarterly. This is done in conjunction with review of any maintenance issues regarding the diversion structures. A comprehensive inspection is done every year by onsite personnel or a member of the Pollution Prevention Committee.

*Unintended Discharges:*

There have been no reported incidents of significant leakage at this location.

## **5. Inspections**

*Comprehensive Site Compliance Evaluations:*

A comprehensive site review will be conducted at the end of each year, along with a visual site inspection. Deficiencies identified will be scheduled for correction. When necessary, changes to the Storm Water Pollution Prevention Plan will be made. Records of all monitoring information, inspection reports, and any other compliance documentation will be kept for three (3) years onsite as well as at the corporate office. All information described above is available for review by contacting the Plant Manager or the Environmental Project Manager.

*Routine Inspections and Record Keeping:*

Visual inspections are performed daily by plant staff and are documented with checklists stored in the dispatch software. Comprehensive inspections are performed quarterly by the Environment Project Manager or other designated staff. These inspections are documented with the CEEIP Inspection Form (see *Appendix B*). Inspection reports are retained for three (3) years onsite as well as in the corporate office. Signatures on the form signifies certification that the site is in compliance with the SWPPP and the “Virginia General Discharge Permit” No. VAG110187.

## **6. Compliance with SARA Title III**

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 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 for the past three (3) years.

## 7. Consistency With Other Statutes and Plans

Chaney Enterprises, LP can do vehicle maintenance and fueling at the Spotsylvania RMC Facility. The facility is under proper VADEQ permitting. 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. VAG110187.

## 8. Administration of SWPPP

### *Access to SWPPP:*

This plan will be retained on-site in the batch plant office and at the main 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 any BMP's that causes the Plan to be less effective in preventing storm water pollution. It will also be amended upon direction by VADEQ or when visual monitoring indicated a need for an amendment.

### *Storm Water Pollution Prevention Plan Changes:*

Date	Individual Responsible for Change	Nature of Change
2/12/19	Victor Vilece	Revisions to Appendix, New pH Treatment System
5/4/21	Victor Vilece	Hydrocarbonic System added to SWPPP
5/1/23	Victor Vilece	SWPPP Team member change.

### *Signatures:*

All reports required by the Virginia Department of Environmental Quality as described in the "Virginia General Discharge Permit" No. VAG110187, 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.”

Sign: \_\_\_\_\_

Date: \_\_\_\_\_

Title: Environmental Project Manager

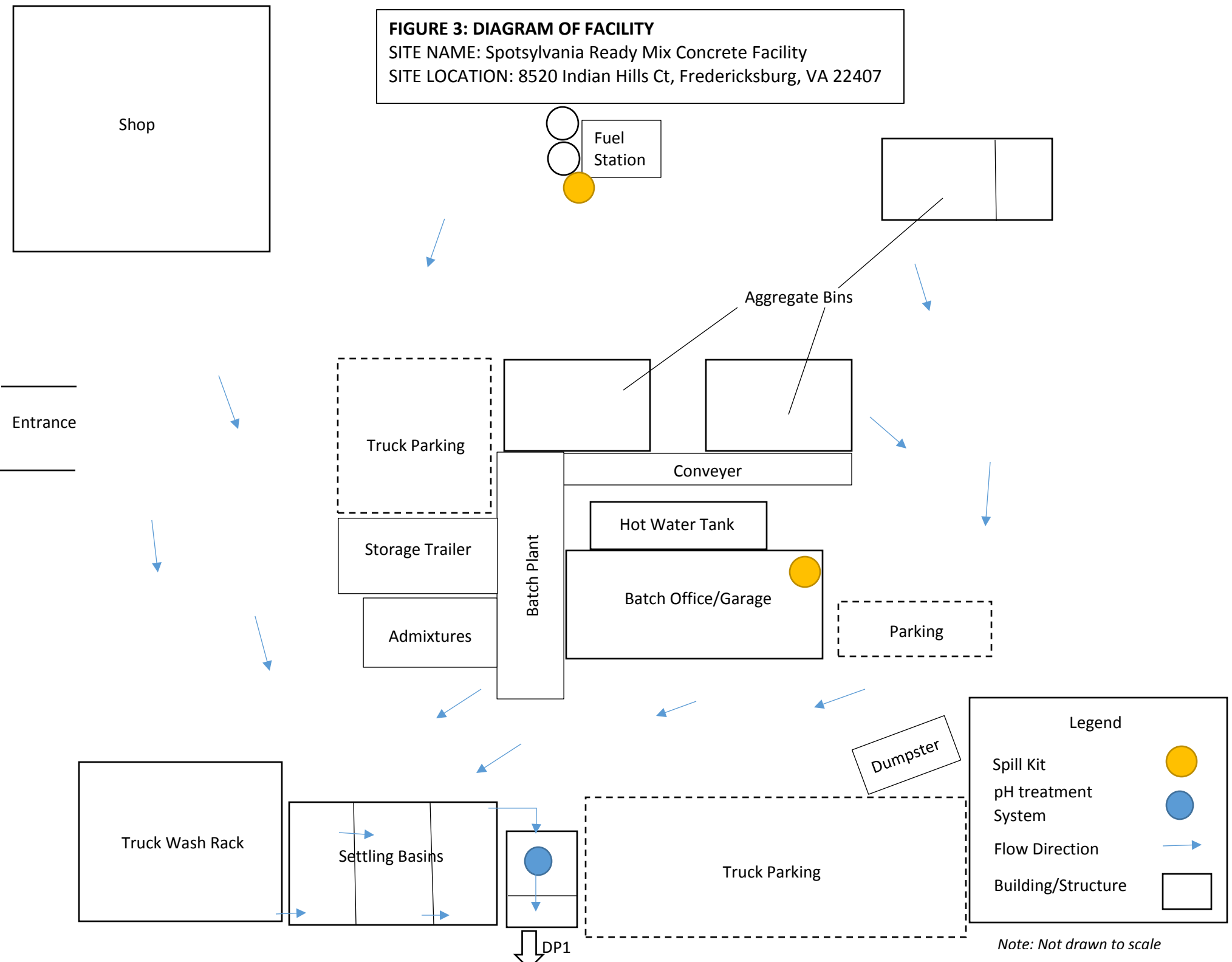
**FIGURE 1:  
MAP OF FACILITY**



**FIGURE 2:  
TOPOGRAPHIC MAP**



**FIGURE 3: DIAGRAM OF FACILITY**  
 SITE NAME: Spotsylvania Ready Mix Concrete Facility  
 SITE LOCATION: 8520 Indian Hills Ct, Fredericksburg, VA 22407



**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. A three (3) tier sediment basin will collect all run off from site and treat for sediment. A two (2) chamber partially underground tank is where pH treatment takes place. A final basin for settling feeds the discharge pipe.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading may result in sediment discharge. High pH from truck drum wash.
<i>DZ-1</i>	Graded to direct water to the sediment basins and DP-1. 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 may result in sediment discharge. Aggregates may be carried by storm water.
<i>DP-1</i>	Located in the southern portion of the site. The sediment basin collects run off from the batch plant, parking area, and aggregate storage bins allows it to settle before discharging.	Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading may result in sediment discharge. High pH from truck drum wash.

**Table 2**  
**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)



**TABLE 3**  
**SWPPP IMPLEMENTATION SCHEDULE**

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Environmental compliance inspections (CEEIP)</i> <i>Appendix B</i>	Quarterly
<i>Implementation of SWM Control Measures</i>	Daily
<i>Inspection of Water Treatment System</i> <b><i>Found in Dispatch System</i></b>	Daily
<i>Visual Inspection of Batch Plant Air Filtration System</i> <b><i>Found in Dispatch System</i></b>	Daily
<i>Employee Environmental Education</i>	Annually: 4 <sup>th</sup> quarter
<i>SWPPP Compliance Assessment</i> <b><i>Appendix C</i></b>	Annually: 4 <sup>th</sup> quarter

**TABLE 4**  
**BMP INSPECTION SCHEDULE**

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Drum Wash Basins</i>	Inspect <b>daily</b> for sediment accumulation, Clean <b>weekly</b> or as needed.
<i>Truck Exterior Wash Bays</i>	Visually inspect <b>weekly</b> for signs of fluid spills, sediment accumulation, and potential for wash water to leave the site.
<i>Treatment Basins</i>	Visually inspect <b>daily</b> for sediment accumulation and record freeboard measurement. Pump out sediments <b>bi-annually</b> or as needed.
<i>pH Treatment System</i>	Inspect pump <b>daily</b> for sediment accumulation/blockage. Clean as needed.
<i>Fuel Station</i>	Visually inspect <b>quarterly</b> for signs of wear and leaks.
<i>Waste Concrete Storage</i>	Visually inspect <b>weekly</b> for proper containment. Clean residual waste as needed.
<i>Material Storage Areas, Including Aggregate Stock Piles</i>	Visually inspect <b>quarterly</b> for proper containment, labeling, and signs of leaks or spills.
<i>Entrance, Yard, Berms, Curbs</i>	Visually inspect <b>daily</b> for sediment accumulation, dust, and effectiveness in directing storm water.

BMP Inspection logs are digital, and records can be provided upon request.

**APPENDIX A**  
**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**

# CHANNEY

ENTERPRISES

## Appendix B

### I. General Information

CEEIP Inspection Form

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

Storm Water Pollution Prevention Plan  
 Spotsylvania Ready Mix Concrete Facility

[www.ChaneyEnterprises.com](http://www.ChaneyEnterprises.com)   **PHONE** 888-424-2639

May 2021

**APPENDIX C**  
**SWPPP COMPLIANCE ASSESSMENT**

SWPPP Feature	Y/N	Comments
Have quarterly inspections been conducted and have form been completed and filed?		
Have BMP's been implemented and has the implementation schedule been adhered to?		
Has employee training been implemented?		
Has the Environmental Education Program been evaluated and forms filed?		
Have all changes to site function been addressed in the SWPPP?		
<p>Name: _____ Date: _____</p> <p>Signature: _____</p> <p>Title: _____</p>		