

STORM WATER POLLUTION PREVENTION PLAN
for
Chaney Enterprises – Stafford RMC Plant
(VPDES 110186)
169 Wyche Road,
Stafford, VA 22554

Prepared by:
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1. Introduction

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

Primary Emergency Contact

Name: Floyd Harvey
Title: Plant Manager
Office Number: (540) 657-1530
Email: fharvey@chaneyenterprises.com

Secondary Contact

Name: Victor Vilece
Title: Environmental Project Manager
Cell: (301) 861-6094
Email: 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 Stafford RMC Plant in Stafford, Stafford 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. VAG110186.

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, and truck repair shop on site.

Location:

The batch plant is located at 169 Wyche Road, Stafford, Virginia, 22554. It is 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 composed 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. All water drains into storm water catch basins at the southern edge of the property (See *Figure 3*). There is one Discharge Point at the facility. Before reaching the discharge point pH is treated by a Fortrans Model 5000 CO₂ pH Treatment System. This then drains into an unnamed tributary of Accokeek Creek.

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:

Serval types of aggregate are stored on-site (*Table 2*). The aggregate is used in concrete batch production and resale. The materials stored include:

Material	Quantity
Cement	50 Tons
Aggregate	1,300 Tons
Sand	650 Tons
Diesel	3,000 Gallons

**All aggregate/sand piles described above are exposed to storm water. Most gravel-sized aggregate does not present a realistic run off threat. Sand likewise 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 and it is gated and locked during non-working hours.

Discharge Information:

There is one (1) discharge point 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
- Regular sweeping of paved site entrance

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 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.

Fernando Rodriguez, is also part of the Committee. His responsibility is to make the Plant Manager aware of new potential sources of storm water contamination as well as overseeing adherence to policy.

Floyd Harvey 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

One (1) pH control system is located on-site at the Stafford Facility (*Figure 3*). It functions as an automated pH neutralizing system for washout/wastewater and storm water runoff. It utilizes non-hazardous carbon dioxide gas, with proper storage on-site. This system is checked on a daily basis (during plant operations hours) and on-site personnel ensure that it is functioning properly. Any issues with the system will be reported to the pollution prevention committee members for immediate correction.

Run-Off BMP's

Storm water run-off from the property discharges into an unnamed tributary of the Accokeek Creek. There is no evidence of any erosional or depositional problems associated with this drainage – therefore addition flow controls have not been necessary. The outfall originates from a small pipe within the final settlement basin. This area is routinely checked. Stockpiled materials consist of varying sizes of aggregate and sand. This material is stored to minimize the surface area exposed to storm water. Any material seen migrating from the pile is picked up by a frontend loader and placed back into the stockpile. Waste concrete returned to the site and sediment from the truck wash basins will be hauled to the adjacent property for recycling.

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 30 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 Accokeek Creek. 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. VAG110186.

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 Evaluation:

Inspections are performed daily and quarterly and documented with a checklist (*see Appendix B, C, and D*). The inspection reports are retained for three (3) years onsite as well as at the corporate office. A signature on the form signifies certification that the site is in compliance with the SWPPP and the “Virginia General Discharge Permit” No. VAG110186.

Routine Inspections and Record Keeping:

Inspections as required by the Virginia Department of Environmental Quality as described in the “Virginia General Discharge Permit” No. VAG110186 will be conducted by the Plant’s Manager or his authorized representative. Walkthrough inspections are conducted quarterly and comprehensive inspections are done annually. 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 at the corporate office. All information described above is available for review by contacting the Environmental Manager

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 does 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. VAG110186.

8. Administration of SWPPP

Access to SWPPP:

This plan will be retained on-site in the batch plant office and at 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 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
7/15/21	Victor Vilece	Additional House Keeping items/BMP's

Signatures:

All reports required by the Virginia Department of Environmental Quality as described in the "Virginia General Discharge Permit" No. VAG110186, 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: 7/15/21

Title: Environmental Project Manager

**FIGURE 1:
MAP OF FACILITY**



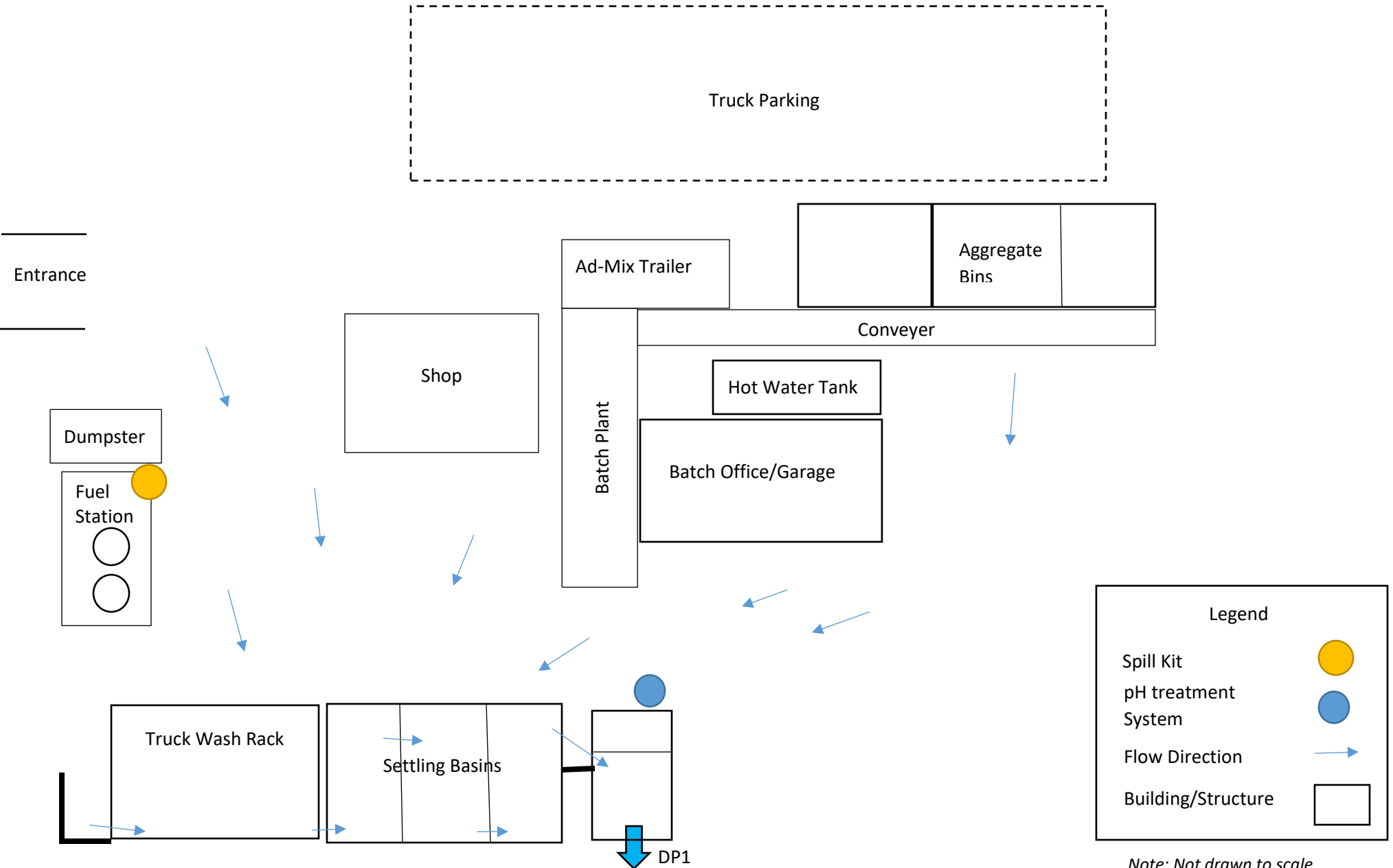
FIGURE 2:
TOPOGRAPHIC MAP



FIGURE 3: DIAGRAM OF FACILITY

SITE NAME: Stafford Ready Mix Concrete Facility

SITE LOCATION: 169 Wyche Rd., Stafford, VA 22554



Note: Not drawn to scale

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 further settling takes place. A final basin for pH treatment 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>	Quarterly
<i>Implementation of SWM Control Measures</i>	Daily
<i>Inspection of Water Treatment System</i> Appendix C	Daily
<i>Visual Inspection of Batch Plant Air Filtration System</i> Appendix D	Daily
<i>Employee Environmental Education</i> Appendix E	Annually: 4 th quarter
<i>Environmental Education Program Evaluation</i> Appendix F	Annually: 4 th quarter
<i>SWPPP Compliance Assessment</i> Appendix G	Annually: 4 th quarter

TABLE 4
BMP INSPECTION SCHEDULE

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

For BMP Inspection logs see **Appendix C, Appendix D, and Appendix E.**

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

Chris McCoy
(240) 299-7172

4. CONTACT THESE AGENCIES

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

CHANNEY

ENTERPRISES

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

www.ChaneyEnterprises.com **PHONE** 888-424-2639

Storm Water Pollution Prevention Plan
Stafford Ready Mix Concrete Facility

March 2019

APPENDIX F
ENVIRONMENTAL EDUCATION SEMINAR EVALUATION FORM

Program Feature	Applicable? (Y/N)	Comments
Has a date been established for the annual seminar?		
Will all state and federal regulations be addressed?		
Will employees be informed of any changes to the SWPPP?		
Will there be any outside sources involved in the training program?		
Did the facility staff appear more informed after last year's program?		
Have there been any employee comments/suggestions?		
<p>Name: _____ Date: _____</p> <p>Signature: _____</p> <p>Title: _____</p>		

APPENDIX G

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?		
<div style="display: flex; justify-content: space-between;"> Name: _____ Date: _____ </div> <div style="margin-top: 10px;"> Signature: _____ </div> <div style="margin-top: 10px;"> Title: _____ </div>		