

STORM WATER POLLUTION PREVENTION PLAN

for

Chaney Enterprises – Gainesville RMC Plant (VPDES 110351)

14505 Lee Highway,
Gainesville, VA 20155

Prepared by:
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1. Introduction

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

Primary Emergency Contact
Name: Jim Decostanzo
Title: Plant Manager
Office Number: (301) 848-2843
Email: jdecostanzo@chaneyenterprises.com

Secondary Contact
Name: Jeff Slagle
Title: 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

Storm Water Pollution Prevention Plan (SWPPP) Purpose Statement:

This SWPPP has been prepared by Chaney Enterprises for the Gainesville RMC Plant in Gainesville, Prince William 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. VAG110351.

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 4 tier settling basin located on site. There is one diesel storage tank on site as well as a water storage tank. There is also a batch office trailer, a driver's trailer, and storage container on site.

Location:

The batch plant is located at 14505 Lee Highway, Gainesville, Virginia, 20155.

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 area. There is one main drainage zone on site, all run off is directed to the four tier settling basin in the northwest corner of the site (See *Figure 3*). There is one Discharge Point at the facility. Water is directed into the settling basin where it is given time for sediments to settle out and pH is corrected by a Fortrans Model 5000 CO2 pH Treatment System. The settling basin discharges onto the adjacent property after the water has been treated.

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	100 Tons
Aggregate	550 Tons
Sand	550 Tons
Diesel	6,000 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 a recycle yard/industrial area. The facility has adequate lighting. Entry is by a driveway at the northern edge of the property secured by an automated gate. There is a chain link fence surrounding the facility and recycling yard. 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.

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.

Jeff Slagle, 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.

Jim Decostanzo is the plant manager and is responsible for monitoring treatment systems and implementing BMP's on a daily basis.

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 pH control system is located on-site at the Gainesville Facility (*Figure 3*). It is located at the settling basin. 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 onto the adjacent property which discharges into the North Fork Broad Run. There is no evidence of any erosional or depositional problems associated with this drainage – therefore addition flow controls have not been necessary.

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 Lake Manassas. 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. VAG110351.

Visual Monitoring:

pH and visual air quality inspections are performed daily (Appendix C and D). 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 unintended discharges at this location.

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. VAG110351.

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, LP 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. VAG110351. 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:

This plan will be retained 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 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
12/18/18	Victor Vilece	Changed members of Pollution Prevention Committee; Section 3
2/27/19	Victor Vilece	Updated to reflect changes at the site.

Inspection and Record Keeping:

Inspections as required by the Virginia Department of Environmental Quality as described in the “Virginia General Discharge Permit” No. VAG110351 will be conducted by members of the Pollution Prevention Committee or the Plant’s Manager or his authorized representative. Walkthrough inspections are conducted quarterly, and a comprehensive site inspection is done annually. Reports of visual monitoring done by facility staff will be submitted to the Environmental Project 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 Project Manager.

Signatures:

All reports required by the Virginia Department of Environmental Quality as described in the "Virginia General Discharge Permit" No. VAG110351, 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: 3/1/19

Title: Environmental Project Manager

**FIGURE 1:
MAP OF FACILITY**



FIGURE 2:
TOPOGRAPHIC MAP



FIGURE 3: DIAGRAM OF FACILITY
 SITE NAME: Gainesville Ready Mix Facility
 SITE LOCATION: 14505 Lee Hwy, Gainesville, VA 20155

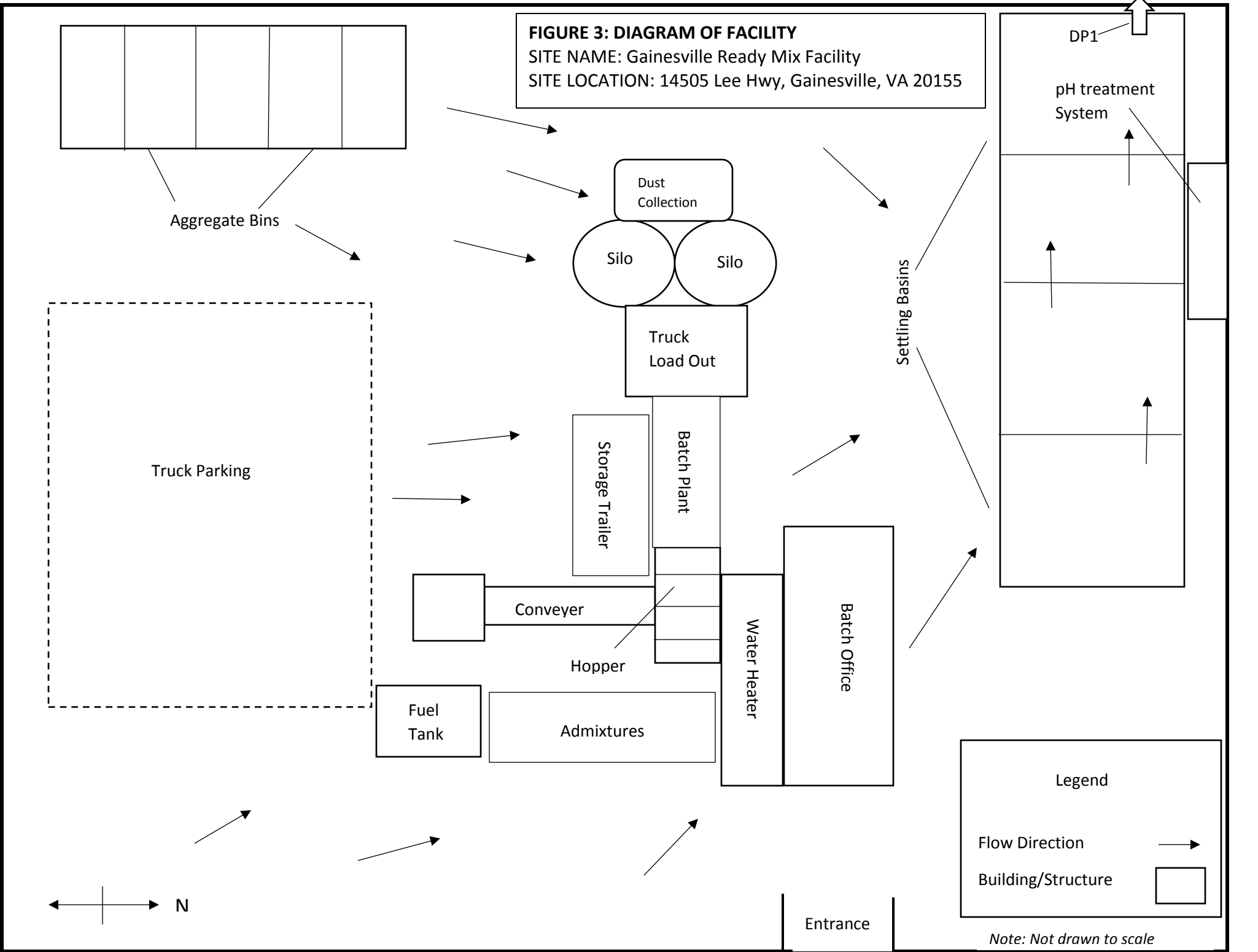


TABLE 1
EXISTING STORM WATER DRAINAGE AND DISCHARGE POINTS

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 four (4) tier sediment basin will collect and treat all run off from site.	Gasoline, Diesel Fuel, Hydraulic Oil/Fluids, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading may result in sediment discharge.
<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 northwest corner 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	Runoff from bulk material areas may result in excess sediment buildup.

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> Appendix A	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>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 quarterly 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 quarterly for sediment accumulation, dust, and effectiveness in directing storm water.

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

CHANNEY

ENTERPRISES

Appendix A

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

	Condition Range				Comments/Corrections Needed
	Great	Good	Fair	Poor	
E & S Control					
On-Site Storage					
Equipment/ Vehicles					
Roadways					
Air Pollution					
Discharge Monitoring	Discharging: Y / N pH:				

Additional Comments on Site Conditions:

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?	
pH Controller	What is the pH reading upon arrival?	
	What is the Hi limit reading?	
	What is the Lo limit reading?	
Mixing	How much CO2/Sodium bisulfate is in the tank?	
	Does additional chemical need to be added/ tank filled?	
	Were site personal informed?	
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?	

Site Corrections:

Due Date:

Days 1wk 2wk 3wk

Sign: _____

Comments on pH System Conditions:

Inspector

Name: _____

Signature: _____

Date: _____

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

WEB ChaneyEnterprises.com PHONE 888-424-2639

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

Chris McCoy
(240) 299-7172

4. CONTACT THESE AGENCIES

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

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 CEEIPs been conducted and have forms been 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>		