

STORM WATER POLLUTION PREVENTION PLAN

for

Chaney Enterprises – Charles City RMC Plant

(VPDES 110198)

2271 Roxbury Road

Charles City, VA

Prepared by:
Victor Vilece, Environmental Project Manager
Chaney Enterprises, LP
2410 Evergreen Rd., Suite 201
Gambrills, MD 21054

December 2021

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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 Project Manager
Office Number: (301) 861-6094
Email: vvilece@chaneyenterprises.com

Secondary Contact

Name: Jeff Slagle
Title: Vice President of Concrete Operations – Virginia
Cell: (540) 710-0075
Email: jslagle@chaneyenterprises.com

State Agency:

Virginia Dept. of Environmental Quality
(804) 527-5020
Specific Contact:
Vincent Revene
Water Compliance Inspector
(804) 527-5048

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 Charles City RMC Plant in Charles City, Charles City 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. VAG110198.

2. Facility Overview

Description:

The facility utilizes sand, fly ash, admixtures, dry cement, and water to make ready-mix concrete. No chemical treatments are used in the process at this facility. To promote resourcefulness and green efforts, Chaney Enterprises recycles 100% of the waste produced during the manufacture and sale of our ready-mix concrete. Leftover concrete is crushed and sold as clean fill and base material for construction projects, while process water is reused for other purposes.

The facility consists of 6.85 acres and has a batch plant, batch office, maintenance shop, truck and equipment fuel station, aggregate storage, wash basins, truck wash area, and parking areas.

Location:

11340 Virginia Crane Dr, Ashland, VA 23005.

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. Stormwater run-off is directed via grading, curbing, drop inlets, and concrete piping to a stormwater basin that discharges to Outfall 001. Riprap placed at the mouths of the outlets reduces sediment loading in the stormwater basin. A large gravel 'fan' has also been placed downgradient of the outlets to reduce sediment loading. The western portion of the property and is designed for sheet flow over a large grass swale to remove sediment loading before it leaves the property. (See *Figure 3*).

There is one (1) Discharge Point at the facility, Outfall 001.

Process water is confined to the wash basins and recycled in the batch plant, for truck washing, and used for dust control if needed.

Discharge Information:

Sampling Data:

This site is permitted, and sampling is required 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 an annual basis to:

Virginia Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

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
- Truck wash down

- Parking areas
- Maintenance shop
- Petroleum delivery and storage
- Aggregate and residual concrete storage

Material Inventory – Present:

Serval types of aggregate are stored on-site (*Table 1*). 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 stormwater. 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 has adequate lighting. The entrances are gated. The site is gated 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 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 are responsible for maintaining the facility in a clean and orderly manner. Areas which could contribute to storm water pollution will be kept to minimize its' potential to contribute contaminants.

Good housekeeping includes:

- Neat and orderly storage of chemicals inside maintenance shop, sea container, or shed
- chemical storage containers labeled and sealed when not in use

- containment of sediment on site within the appropriate bins
- maintaining wash basins so as not to allow discharge of process water
- managing fugitive dust by keeping the yard/entrance clean, and ensuring dust control devices on the plant are operating properly
- 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. Equipment is maintained to the manufacturer's recommendation. Maintenance issues which are identified are addressed in a timely manner.

Stormwater 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. Visual inspection of tanks and fueling nozzles and hoses are conducted along with the quarterly site inspections.

Sediment and Erosion Control

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

Employee Training

Employees of Chaney Enterprises will undergo annual environmental 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

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 an annual basis and prepares and submits all DMR's. He heads the implementation of the Storm Water Pollution Prevention Plan.

Jeff Slagle is the Vice President of Concrete Operations - Virginia. His responsibility is to ensure the Plant Manager's adherence to policy.

There is no Plant Manager at this time. The plant manager will be 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

A three-tiered washout basin is used to treat process water for sediments (*Figure 3*). Water from the 3rd tier is used for dust control, truck washing, and recycled into the batch plant. Any issues with the system will be reported to the pollution prevention committee members for immediate correction.

Run-Off BMP's

Most of the site is graded to direct stormwater to three (3) drop inlets. Curbing along the eastern and southern portions of the impervious area prevent water from bypassing the drop inlets. Concrete pipe directs stormwater from the inlets to a stormwater basin that discharges to Outfall 001. Riprap placed at the outlets of the concrete pipes is intended to reduce sediment loading in the stormwater basin. A large gravel "fan" has also been placed downgrade of the outlets to reduce sediment loading in the stormwater basin.

A stormwater outlet is in the central southern area of the basin. Stormwater flows into the riser of the concrete outlet structure and discharges through a culvert with a dissipater, as sheet flow into the wetlands area south of the site.

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:

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 annually as described in the “Virginia General Discharge Permit” No. VAG110198.

Visual Monitoring:

The outfall is inspected quarterly for stormwater discharges. If there is a discharge due to a storm event site staff will complete a Quarterly Visual Monitoring Form (*Appendix C*). Walk through inspections are done quarterly. This includes a visual inspection of stormwater structures, Outfall 001, site storage, the fuel station, and site BMPs.

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 B*). The inspection reports are retained for three (3) years onsite as well as in the corporate office.

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. VAG110198.

8. Administration of SWPPP

Access to SWPPP:

This plan will be retained online, a QR code for access at the site is kept at the batch plant office. 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

Inspection and Record Keeping:

Inspections as required by the Virginia Department of Environmental Quality as described in the Virginia General Discharge Permit No. VAG110260 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. 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. VAG110260, 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."

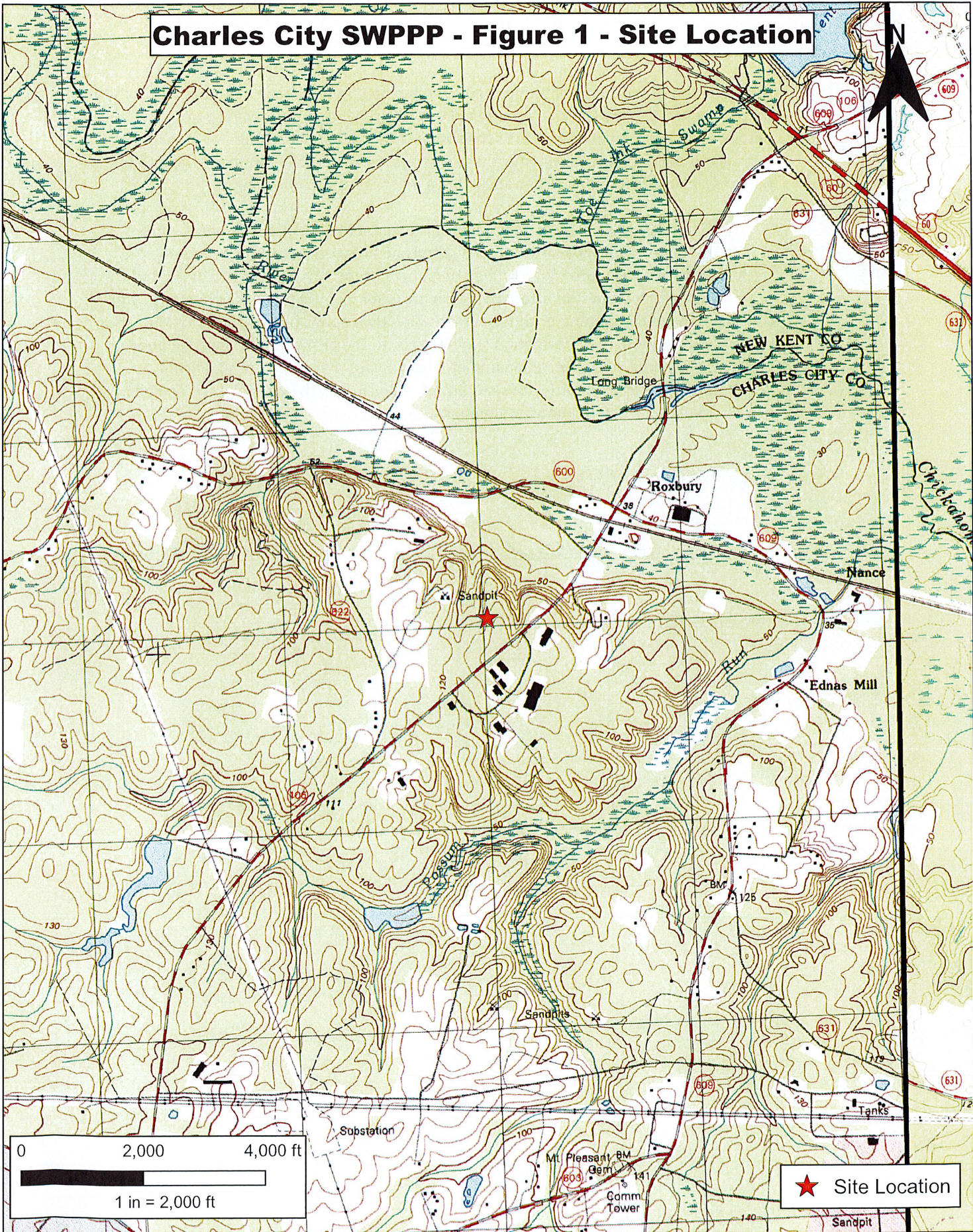
Name: Victor Uilere

Sign: 

Date: 12/9/21

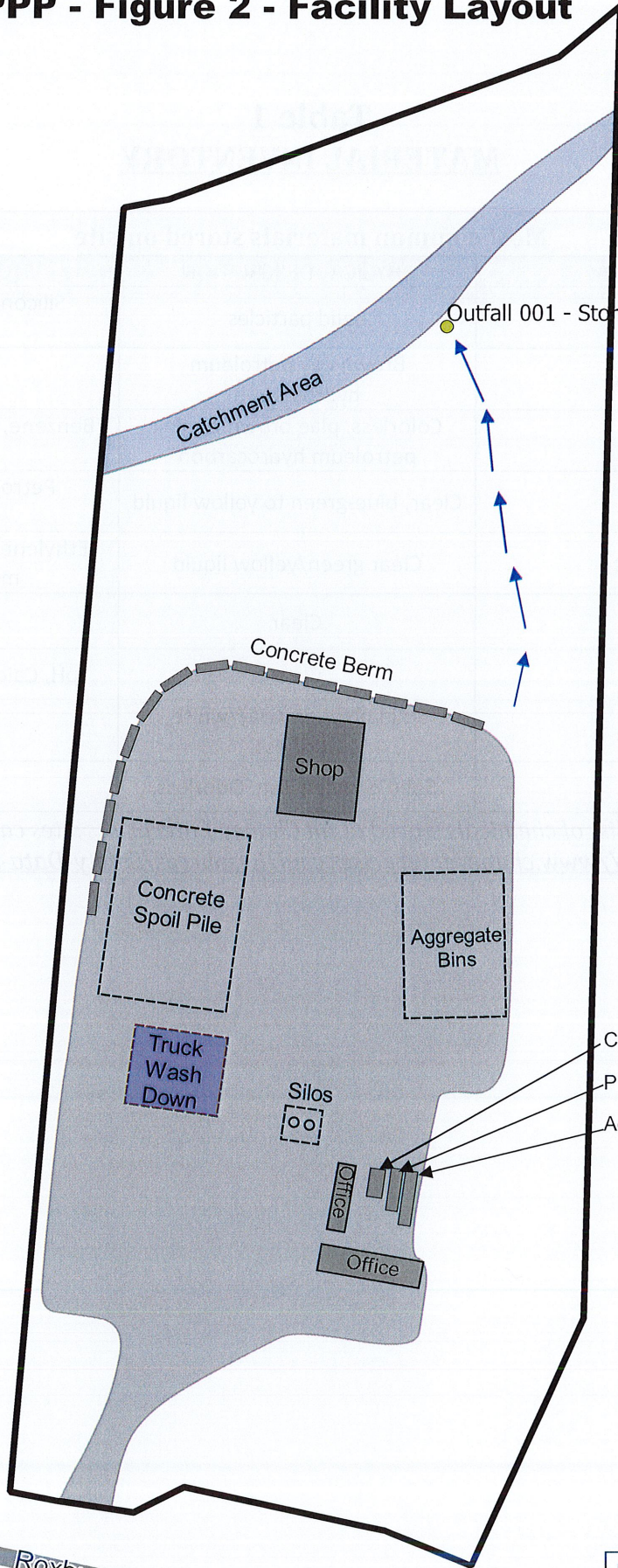
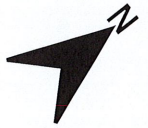
Title: Environmental Project Manager

Charles City SWPPP - Figure 1 - Site Location



U.S. Geological Survey. Roxbury quadrangle, Virginia [map]
1:24,000. 7.5 Minute Series. Washington, DC.: USGS, 1965

Charles City SWPPP - Figure 2 - Facility Layout



- Clear Water Storage
- Process Water Storage
- Add Mix Storage

■ Impervious Surface

□ Parcel Boundary

Note: Not to Scale

Table 1
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 2
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, when plant is operating.
<i>Inspection of Washout Basins</i> Appendix C	Daily, when plant is operating.
<i>Visual Inspection of Batch Plant Air Filtration System</i> Appendix D	Daily, when plant is operating.
<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 3
BMP INSPECTION SCHEDULE

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Truck Wash Area</i>	Inspect daily for sediment accumulation, Cleaned 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, Stormwater Structures</i>	Visually inspect quarterly for sediment accumulation, dust, and effectiveness in directing storm water.

For BMP Inspection logs see **Appendix B** and **Appendix C**.

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 SAFTEY DIRECTOR

Chris McCoy
(240) 299-7172

4. EMERGENCY SPILL RESPONSE CONTRACTOR

Old Dominion Environmental
540-654-9120

5. CONTACT THESE AGENCIES

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

Appendix B



CEEIP Inspection Form

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:

Due Date:

Days 1wk 2wk 3wk

Sign: _____

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?	

Comments on pH System Conditions:

Inspector Name: _____ Signature: _____ Date: _____

POURING OUR HEART & SOUL INTO EVERY JOB

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

WEB ChaneyEnterprises.com PHONE 888-424-2639

Appendix C: Quarterly Visual Monitoring Form

Sample Location		
Quarter/Year:	Date / Time Collected:	Date / Time Examined:
Collector's Name & Title		
Examiner's Name & Title		
Parameter	Parameter Description	Parameter Characteristics
Color	Does the stormwater appear to have any color? <div style="display: flex; justify-content: space-around;"> Yes No (Clear) </div>	If Yes, describe: <i>Yellow Brown Red Gray</i> Other:
Clarity	Is the stormwater not clear? <div style="display: flex; justify-content: space-around;"> Yes No </div>	If not clear, which of the following best describes it? <i>Suspended Solids Milky/Cloudy Opaque</i> Other:
Oil Sheen	Can you see a rainbow effect or sheen on the water surface? <div style="display: flex; justify-content: space-around;"> Yes No </div>	Which best describes the sheen? <i>Rainbow sheet Floating oil globules</i> Other:
Odor	Does the sample have an odor? <div style="display: flex; justify-content: space-around;"> Yes No </div>	If yes describe: <i>Chemical Musty Rotten Eggs Sewage Sour Milk Oil/Petroleum</i> Other:
Floating Solids	Is there anything on the surface of the sample? <div style="display: flex; justify-content: space-around;"> Yes No </div>	If Yes, describe: <i>Suds Oily Film Garbage Sewage Water Fowl Excrement</i> Other:
Suspended Solids	Is there anything suspended in the sample? <div style="display: flex; justify-content: space-around;"> Yes No </div>	Describe:
Leave sample undisturbed for 30 minutes		
Settled Solids	Is there anything settled on the bottom of the sample? <div style="display: flex; justify-content: space-around;"> Yes No </div>	Describe: <i>(note type, size, & material after sample is not disturbed for 30 min)</i>
Foam	Does foam or material form on the top of the sample surface if you shake it? <div style="display: flex; justify-content: space-around;"> Yes No </div>	Describe:
<p>If there are any visible indicators of pollution identify (1) where the pollution may come from and (2) any corrective actions taken.</p> 		
Stormwater Collector's Signature and Date:		
Stormwater Examiner's Signature and Date:		

ANNUAL NON-STORMWATER DISCHARGE EVALUATION

Date of evaluation: _____

Inspector's name (printed): _____

Outfall(s) evaluated: _____

Description of type of evaluation (check those that apply):

- visual observation
- dye tests
- smoke tests
- TV line survey
- analysis of accurate schematics
- sampling/monitoring
- Other _____

Are there any non-stormwater discharges? (If "Yes", note the outfall(s))

- yes Outfall(s): _____
- no

Is the discharge authorized under this permit? • yes • no

Is the discharge covered under another Virginia Pollutant Discharge Elimination System (VPDES) permit? • yes • no

Source(s) of the discharge(s) and to which outfall(s) it/they relate to?

Describe steps taken to eliminate the unauthorized discharge(s)?

Are significant structural changes required to eliminate the discharge(s)? • yes • no

"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 gather and evaluate 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 of Responsible Official: _____

APPENDIX E
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?		
<p>Name: _____ Date: _____</p> <p>Signature: _____</p> <p>Title: _____</p>		

