

OPERATIONS AND MAINTENANCE MANUAL
FOR
VPDES GENERAL PERMIT **VAG110361**

CHANEY ENTERPRISES, LP
124 Dominion Blvd,
Chesapeake, VA 23322
10/14/21

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1. Introduction

a. Site Overview:

The Chesapeake Ready-Mix Concrete Facility is located at 124 Dominion Blvd, Chesapeake, VA 23322. The Facility produces concrete and stores sand and gravel for use in the batching operations. There one diesel storage tank on-site as well one (1) fuel oil tank, and one hot water tank. There is also a batch office, recycle concrete storage area, aggregate storage bins, and process water treatment basins.

b. Emergency Contacts:

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

Primary Emergency Contact

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

Secondary Contact

Name: Kenneth Lambert
Title: Regional Concrete Manager
Cell: (804) 694-6949
Email: klambert@chaneyenterprises.com

State Agency: Virginia Dept. of Environmental Quality
(804) 527-5020
Specific Contact:
Vanessa Arroyo
Water Compliance Inspector
(757) 705-8149

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

Medical: Chesapeake Regional Medical Center
(757) 312-8121

Sheriff: Chesapeake Sheriff's Office
(757) 382-6159

2. Description of Potential Discharges and Treatment Facilities

From the process of batching concrete, washing truck exteriors and drums, dust suppression, and watering aggregates, a waste consisting of small amounts of solids (mud, sand, clay, and gravel) and chemicals used in batching concrete is generated. Saddle tanks on the mixers are filled with potable water used to wash down the truck exterior and chute before leaving the site and add to the drum as needed. Flow is provided by a garden style hose attached to the mixer's saddle tank.

Process water is directed to a four-tier settling basin. Collected waters will then flow through the four tiers. These tiers are large enough to hold water long enough for sediments to drop out. Water stored in the final tier is recycled and used for dust control, washing trucks, and batching concrete. Water from the fourth tier is also treated for pH with a carbon dioxide injection system prior to discharge. See **Appendix A** for a diagram of the site.

3. Maintenance

a. Routine Maintenance schedules:

Settling basins are inspected daily for sediment accumulation. A minimum of one foot of freeboard will be maintained. A loader is used to clean out the basins when they are approximately half full of sediments or before known storm events. Solids from the basins will be mixed in with the waste concrete pile for drying and eventual recycling. If the material cannot be removed by loader for any reason, a contractor with a vacuum truck will be called in to remove the solids from the basins. These solids will be hauled off, by the contractor, to the appropriate facility for disposal. Aggregate storage is consolidated daily to keep aggregates in their bins.

b. Material Handling/Storage

All chemicals kept on-site are stored in a sea container adjacent to the batch office. Chemicals will be stored in properly sealed and labeled containers. All containers will be kept under cover, away from site traffic, and out of contact with storm or process waters. See **Appendix B** for Material Safety Data Sheets for chemicals stored on-site. Aggregates will be kept in bins located on the east side of the site. A recycled concrete pile is in the northeast corner of the site. Concrete returned from deliveries will be dumped here along with solids removed from the settling basins. When the recycled material has dried, it will be loaded into dump trucks and haul to another Chaney facility with a crusher to be turned into recycled aggregate.

4. Spill Management Procedures

a. *Spill Containment/Storage*

All spills, including spills from fuel, oil, coolant, transmission/hydric fluid, truck wash, add mixtures, or concrete are cleaned up as soon as they are noticed with dry methods and disposed of such that no discharge to state waters except as authorized by VAG110361 occurs. In the event of a spill, Chaney Enterprises will use Accurate Marine Environmental or a similar certified environmental cleanup specialist to remove all contaminated material to be disposed of properly off-site. No contaminated materials will be stored on-site.

b. *Material Handling/Storage*

All truck wash and add mixtures are stored in sealed and properly labeled containers in a sea container or in totes. Fuel is stored in a double walled tank.

5. Effluent Monitoring Requirements

a. *Authorized Samplers*

Victor Vilece	Environmental Project Manager	301-861-6094
Jacob Byrum	EHSS Specialist	804-718-1873

b. *Sampling Procedure*

Discharge samples will be collected by Chaney's Authorized Samplers (listed above). They will collect pH samples and analyze within 15 minutes on site. Samples for TSS reporting are collected, preserved, and analyzed by Jennings-Thompson Laboratories, Inc 1118 Cypress Ave, Virginia Beach, VA 23451 or AMA Analytical Services 4475 Forbes Blvd, Lanham, MD 20706 in accordance with the Code of Federal Regulations (CFR) 40 CFR Part 136 or Alternative methods. Samples will be taken, by Chaney Staff, to the accredited lab for analysis.

Samples are collected a minimum of once every three months if there is a discharge to sample. Samples shall be collected by March 31, June 30, September 30, and December 31 of each year and reported on the facility's Discharge Monitoring Report and submitted to DEQ at the Piedmont Regional Office 4949-A Cox Road, Glen Allen, VA 23060. DMRs shall be submitted by January 10, April 10, July 10, and October 10 of each year. A minimum of one grab sample shall be taken resulting from a storm event that

results in an actual discharge from the site. Flow is estimated as gallons per day and calculated based on pump capacity and how long the pump is run when discharging treated process water from the settling basins to the discharge point. If no discharges occur in the three-month period, the DMR will have “No Discharge” written upon it.

6. Personnel

All reports shall be signed and dated by a signatory authority per Part III K 2 of the permit. The following indicates the authorities of plant personnel:

Kyle Murray – Land General Manager and permit holder. Has direct contact to DEQ.
Victor Vilece – Environmental Project Manager – develops operations and maintenance (O&M) manual with input from operator. Reviews O&M annually with input from operator. Has direct contact to DEQ, monitoring coordinator (contact lab, conducts sampling), fills out and signs DMR. Also has direct contact to DEQ.
David LaValley – Plant Manager – direct contact to Chaney Enterprises Managers. Notifies Environmental Project Manager if O&M manual needs to be revised, conducts sampling during storm events, enforces BMPs at plant site.

7. Records

All records for facility maintenance, inspections, and sampling and testing, shall be maintained for a minimum of three years and shall be available for inspection by the owner, manager, and DEQ upon request.

8. SWCB Permits or Certificates

A copy of VPDES Permit #VAG110361 is included in **Appendix C** of the manual.

9. Closure Plan

a. Treatment and removal of wastewater, storm water, and solids.

All stormwater will be treated for TSS before being discharged from the site. All discharge will occur through Outfall 001 as shown in **Appendix A**. Water that cannot be treated to compliance with the VPDES regulations will be removed from the site by a contractor and disposed of at the proper facility. Hardened residual concrete materials will be shipped off site to the Waldorf Plant for crushing and sale.

b. Fate of structures.

At the end of the operations all structures will be removed from the site.

- c. *Removal Plan for all exposed industrial materials.*

All exposed industrial materials will be stored and recycled at the appropriate recycling facility.

- d. *Description of the stabilization of land in which exposed industrial materials were stored or placed.*

No exposed industrial materials will be stored on site.

10. Corporate 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."

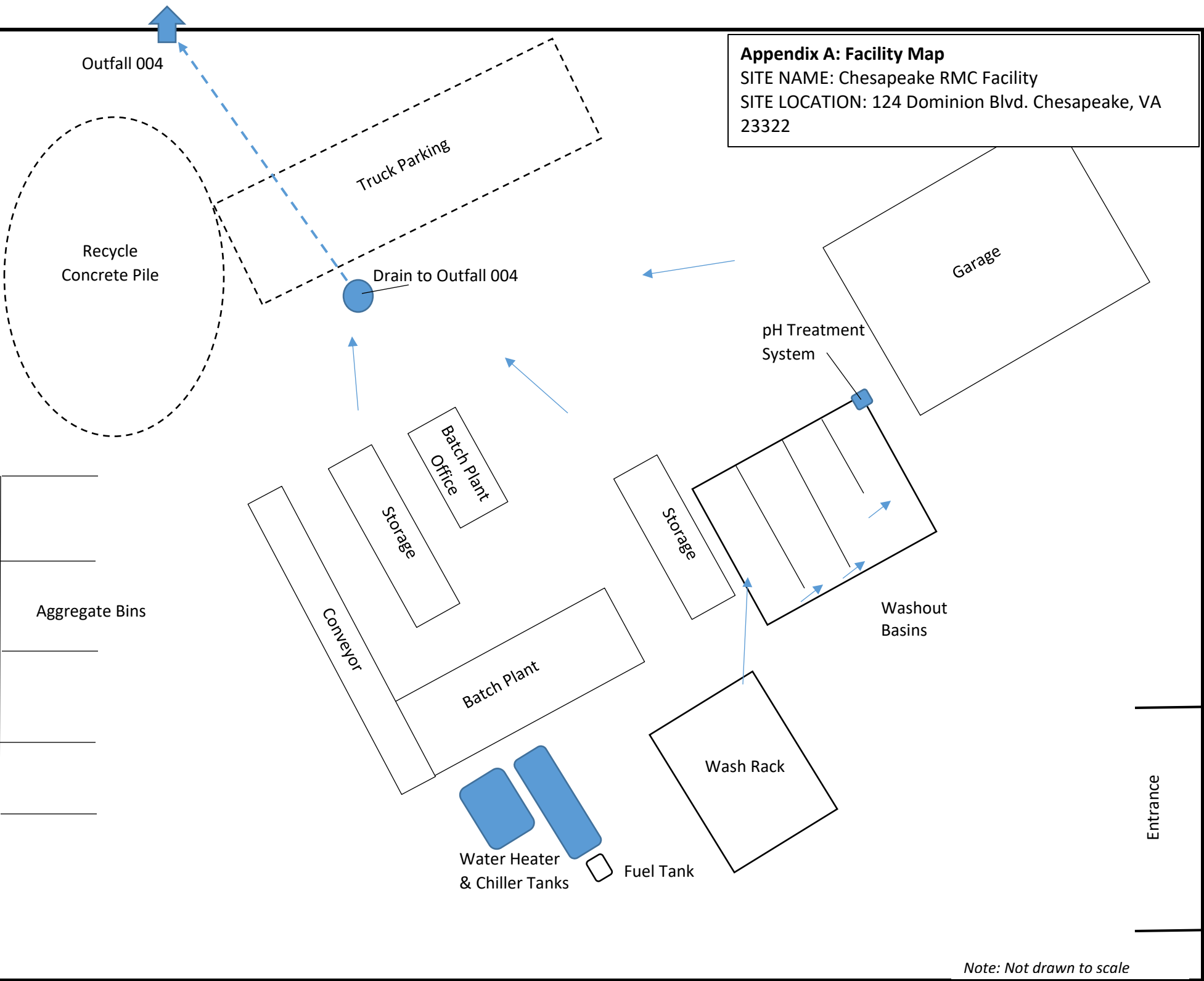
Victor Vilece
Name

11/2/2022
Date

Environmental Project Manager
Title

Signature

Appendix A: Facility Map
SITE NAME: Chesapeake RMC Facility
SITE LOCATION: 124 Dominion Blvd. Chesapeake, VA
23322



Note: Not drawn to scale

Appendix B

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>



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

General Permit No: VAG110361
Effective Date: January 1, 2019
Expiration Date: December 31, 2023

GENERAL PERMIT FOR CONCRETE PRODUCTS FACILITIES AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act, as amended, and pursuant to the State Water Control Law and regulations adopted pursuant thereto, owners of concrete products facilities are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those specifically named in board regulations that prohibit such discharges.

The authorized discharge shall be in accordance with the information submitted with the registration statement, this cover page, Part I-Effluent Limitations, Monitoring Requirements, and Special Conditions, Part II-Stormwater Management, and Part III-Conditions Applicable to All VPDES Permits, as set forth in this permit.

Part I
 Effluent Limitations, Monitoring Requirements, and Special Conditions.

A. Effluent limitations and monitoring requirements.

1. Process wastewater.

During the period beginning with the permittee's coverage under this general permit and lasting until the permit's expiration date, the permittee is authorized to discharge process wastewater that may contain input from vehicle wash water, or vehicle or equipment degreasing activities, and may be commingled with stormwater associated with industrial activity, or both. Samples taken in compliance with the monitoring requirements specified below shall be taken at outfall: 004

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
	Average	Maximum	Minimum	Frequency ⁽³⁾	Sample Type
Flow (MGD)	NL	NL	NA	1/3 Months	Estimate
Total Suspended Solids (mg/l)	30	60	NA	1/3 Months	Grab
pH (standard units)	NA	9.0 ⁽¹⁾	6.0 ⁽¹⁾	1/3 Months	Grab
Total Petroleum Hydrocarbons ⁽²⁾ (mg/l)	NA	15	NA	1/3 Months	Grab
NL = No limitation, monitoring required NA = Not applicable ⁽¹⁾ Where the Water Quality Standards (9VAC25-260) establish alternate standards for pH in the waters receiving the discharge, those standards shall be the maximum and minimum effluent limitations. ⁽²⁾ Total Petroleum Hydrocarbons limitation and monitoring are only required where a discharge contains process wastewater generated from the vehicle or equipment degreasing activities. Total Petroleum Hydrocarbons shall be analyzed using EPA SW-846 Method 8015 B (1996), 8015C (2000), 8015C (2007), 8015 D (2003) for diesel range organics or EPA 40 CFR Part 136. ⁽³⁾ 1/3 months means one sample collected per calendar quarter with reports due to the DEQ regional office no later than the 10th day of April, July, October, and January.					

B. Special conditions.

1. There shall be no discharge of floating solids or visible foam in other than trace amounts. There shall be no solids deposition or oil sheen from petroleum products in surface water as a result of the industrial activity in the vicinity of the outfall.
2. Except as expressly authorized by this permit, no product, materials, industrial wastes, or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, or storage of raw or intermediate materials, final product, byproduct or wastes shall be handled, disposed of, or stored so as to permit a discharge of such product, materials, industrial wastes, or other wastes to surface waters.
3. Vehicles and equipment utilized during the industrial activity on a site must be operated and maintained in such a manner as to minimize the potential or actual point source pollution of surface waters. Fuels, lubricants, coolants, and hydraulic fluids, or any other petroleum products, shall not be disposed of by discharging on the ground or into surface waters. Spent fluids shall be disposed of in a manner so as not to enter the surface or ground waters of the state and in accordance with the applicable state and federal disposal regulations. Any spilled fluids shall be cleaned up and disposed of in a manner so as not to allow their entry into the surface or ground waters of the state.
4. All washdown and washout of trucks, mixers, transport buckets, forms or other equipment shall be conducted within designated washdown and washout areas. All washdown and washout water shall be collected for recycle or collected and treated to meet the limits in Part I A prior to discharge to the receiving stream.
5. Any waste concrete and any dredged solids from the settling basins shall be managed within a designated area, and any wastewaters including stormwater generated from these activities shall be collected for recycle or treated prior to discharge.
6. Wastewater should be reused or recycled whenever feasible.
7. No sewage discharges to surface waters are permitted under this general permit.
8. Operation and maintenance (O&M) manual.
 - a. Within 180 days after the date of coverage under this general permit, the permittee shall develop or review and update, as appropriate, an O&M manual for the permitted facility. The O&M manual shall include procedures and practices for the mitigation of pollutant discharges for the protection of state waters from the facility's operations and to ensure compliance with the requirements of the permit. The manual shall address, at a minimum:
 - (1) O&M practices for the process wastewater treatment units, if applicable, and chemical and material storage areas;
 - (2) Methods for estimating process wastewater flows, if applicable;
 - (3) Management and disposal procedures of process wastewater solids, if applicable;
 - (4) Temporary and long-term facility closure plans that shall include (i) treatment, removal, and final disposition of residual wastewater, if applicable, contaminated stormwater held at the facility, and solids; (ii) fate of structures; (iii) a removal plan for all exposed industrial materials; and (iv) description of the stabilization of land in which they were stored or placed;
 - (5) Testing requirements and procedures;
 - (6) Recordkeeping and reporting requirements; and
 - (7) Duties and roles of responsible officials.
 - b. The permittee shall operate the treatment works in accordance with the O&M manual. The O&M manual shall be reviewed and updated at least annually and shall be signed and certified in accordance

with Part III K of this permit. The O&M manual shall be made available for review by department personnel upon request.

c. For facilities that do not operate process wastewater treatment units, O&M requirements included in Part I 8 a (4) through 8 a (7) shall be included in either the O&M manual or the SWPPP.

9. If the concrete products facility discharges through a municipal separate storm sewer system to surface waters, the permittee shall notify the owner of the municipal separate storm sewer system of the existence of the discharge and include that notification with the registration statement. The notification shall include the following information: the name of the facility, a contact person and contact information, the location of the discharge, the nature of the discharge, and the facility's VPDES general permit number.

10. The permittee shall ensure that all process wastewater basins and lagoons maintain a minimum freeboard of one foot at all times except during a 72-hour transition period after a measurable rainfall event. During the 72-hour transition period, no discharge from the basins and lagoons shall occur unless it is in accordance with this permit. Within 72 hours after a measurable rainfall event, the freeboard in all basins and lagoons shall be returned to the minimum freeboard of one foot. Where basins are operated in a series mode of operation, the one-foot freeboard requirement for the upper basins may be waived provided the final basin will maintain the freeboard requirements of this special condition. A description of how the permittee will manage the facility to adhere to one foot of freeboard shall be included in the O&M manual required in Part I B 8 a (1). Should the one-foot freeboard not be restored by the end of the 72-hour transition period, the permittee shall take measures to correct the problem before the next rain event. In addition, the permittee shall immediately begin to monitor and document the freeboard on a daily basis until the freeboard is returned to the minimum of one foot.

11. Process wastewater, commingled process wastewater, and stormwater or stormwater treatment units designed to operate as "no discharge" shall have no discharge of wastewater or pollutants except in storm events greater than a 25-year, 24-hour storm event. In the event of such a discharge, the permittee shall report an unusual or extraordinary discharge per Part III H of this permit. No sampling or DMR is required for these discharges as they are considered to be discharging in emergency discharge conditions. All other conditions in Part I B, Part II, and Part III apply. Any other discharge from this type of system is prohibited and shall be reported as an unauthorized discharge per Part III G of this permit. The operation of these systems shall not contravene the Water Quality Standards (9VAC25-260), as adopted and amended by the board, or any provision of the State Water Control Law.

12. The permittee shall notify the department as soon as he knows or has reason to believe:

a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this permit if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 µg/l) of the toxic pollutant;

(2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five times the maximum concentration value reported for that pollutant in the permit application; or

(4) The level established by the board in accordance with 9VAC25-31-220 F.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit if that discharge will exceed the highest of the following notification levels:

(1) Five hundred micrograms per liter (500 µg/l) of the toxic pollutant;

- (2) One milligram per liter (1 mg/l) for antimony;
- (3) Ten times the maximum concentration value reported for that pollutant in the permit application; or
- (4) The level established by the board in accordance with 9VAC25-31-220 F.

13. All settling basins used for treatment and control of process wastewater or process wastewater commingled with stormwater that were constructed on or after February 2, 1998, shall be lined with concrete or any other impermeable materials. Regardless of date of construction, all settling basins used for treatment and control of process wastewater or process wastewater commingled with stormwater that are expanded or dewatered for major structural repairs shall be lined with concrete or any other impermeable materials.

14. Settled wastewater may be used on site for the purposes of dust suppression or for spraying stockpiles. Dust suppression shall be carried out as a best management practice but not as a wastewater disposal method provided that ponding or direct run-off from the site does not occur during or immediately following its application. Dust suppression shall not occur during a "measurable" rain event (a storm event that results in an actual discharge from the site).

15. Compliance reporting under Part I A.

- a. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Characteristic	Quantification Level
TSS	1.0 mg/l
TPH	5.0 mg/l

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the test method.

b. Reporting.

(1) Monthly average. Compliance with the monthly average limitations or reporting requirements for the parameters listed in Part I A shall be determined as follows: All concentration data below the QL listed in subdivision 15 a of this subsection shall be treated as zero. All concentration data equal to or above the QL listed shall be treated as it is reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, for the month. This arithmetic average shall be reported on the DMR as calculated. If all data are below the QL then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL then report "<QL" for the quantity, otherwise use the calculated concentration.

(2) Daily maximum. Compliance with the daily maximum limitations or reporting requirements for the parameters listed in Part I A shall be determined as follows: All concentration data below the QL listed in subdivision 15 a of this subsection shall be treated as zero. All concentration data equal to or above the QL shall be treated as reported. An arithmetic average of the values shall be calculated using all reported data, including the defined zeros, collected for each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the daily maximum. If all data are below the QL then the average shall be reported as "<QL." If reporting for quantity is required on the DMR and the calculated concentration is <QL then report "<QL" for the quantity, otherwise use the calculated concentration.

(3) Any single datum required shall be reported as "<QL" if it less than the QL listed in subdivision 15 a of this subsection. Otherwise the numerical value shall be reported. The QL must be less than or equal to the QL in subdivision 15 a of this subsection.

(4) The permittee shall report at least two significant digits for a given parameter. Regardless of the rounding convention used (i.e., five always rounding up or to the nearest even number) by the permittee,

the permittee shall use the convention consistently and shall ensure that consulting laboratories employed by the permittee use the same convention.

16. Discharges to waters with an approved total maximum daily load (TMDL). Owners of facilities that are a source of the specified pollutant of concern to waters where an approved TMDL has been established shall implement measures and controls that are consistent with the assumptions and requirements of the TMDL.

17. Adding or deleting outfalls. The permittee may add new or delete existing outfalls at the facility as necessary and appropriate. The permittee shall update the O&M manual and SWPPP and notify the department of all outfall changes within 60 days of the change. The permittee shall submit an updated registration statement including an updated SWPPP site map.

18. Notice of termination.

a. The owner may terminate coverage under this general permit by filing a complete notice of termination with the department. The notice of termination may be filed after one or more of the following conditions have been met:

(1) Operations have ceased at the facility, and there are no longer discharges of process wastewater or stormwater associated with the industrial activity;

(2) A new owner has assumed responsibility for the facility. A notice of termination does not have to be submitted if a VPDES Change of Ownership Agreement form has been submitted;

(3) All discharges associated with this facility have been covered by an individual VPDES permit or an alternative VPDES permit; or

(4) Termination of coverage is being requested for another reason, provided the board agrees that coverage under this general permit is no longer needed.

b. The notice of termination shall contain the following information:

(1) Owner's name, mailing address, telephone number, and email address (if available);

(2) Facility name and location;

(3) VPDES general permit registration number for the facility; and

(4) The basis for submitting the notice of termination, including:

(a) A statement indicating that a new owner has assumed responsibility for the facility;

(b) A statement indicating that operations have ceased at the facility, a closure plan has been implemented according to the O&M manual, and there are no longer discharges from the facility;

(c) A statement indicating that all discharges have been covered by an individual VPDES permit; or

(d) A statement indicating that termination of coverage is being requested for another reason (state the reason).

c. The following certification: "I certify under penalty of law that all concrete products waste water and stormwater discharges from the identified facility that are authorized by this VPDES general permit have been eliminated, or covered under a VPDES individual or alternative permit, or that I am no longer the owner of the facility, or permit coverage should be terminated for another reason listed above. I understand that by submitting this notice of termination, that I am no longer authorized to discharge concrete products waste water or stormwater in accordance with the general permit, and that discharging pollutants to surface waters is unlawful where the discharge is not authorized by a VPDES permit. I also understand that the submittal of this notice of termination does not release an owner from liability for any violations of this permit or the Clean Water Act."

d. The notice of termination shall be signed in accordance with Part III K.

e. The notice of termination shall be submitted to the DEQ regional office serving the area where the concrete products facility discharge is located.

19. Temporary closure at inactive and unstaffed sites waiver.

a. A waiver of the effluent monitoring, benchmark monitoring, visual monitoring, and routine facility inspections may be granted by the board at a facility that is both inactive and unstaffed and there are no industrial materials or activities exposed to stormwater. The waiver request shall be submitted to the board for approval and shall include the information in the temporary closure plan specified in Part I B 8 a (4), the facility's VPDES general permit registration number; a contact person, telephone number, and email address (if available); the reason for the request; the date the facility became or will become inactive and unstaffed; and the date the closure plan will be completed. The waiver shall be signed and certified in accordance with Part III K. If this waiver is granted, the permittee must retain a copy of the request and the board's written approval of the waiver in the SWPPP. The permittee is required to conduct an annual routine facility inspection in accordance with Part II F 6 f (5). A stormwater discharge is not required at the time of this annual routine facility inspection.

b. To reactivate the site the permittee must notify the department within 30 days of reopening the facility and commencing any point source discharges of either treated process wastewater or stormwater runoff associated with industrial activities. Upon reactivation all effluent monitoring, benchmark monitoring, visual monitoring, and routine facility inspections shall resume immediately. This notification must be submitted to the department, signed in accordance with Part III K, and retained on site at the facility covered by this permit in accordance with Part III B.

c. The board retains the right to revoke this waiver when it is determined that the discharge is causing, has a reasonable potential to cause, or contributes to a water quality standards violation.

20. The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards.

21. Approval for coverage under this general permit does not relieve any owner of the responsibility to comply with any other applicable federal, state, or local statute, ordinance, or regulation.

Part II
Stormwater Management.

A. Monitoring instructions.

1. Collection and analysis of samples. Sampling requirements shall be assessed on an outfall by outfall basis. Samples shall be collected and analyzed in accordance with the requirements of Part III A.
2. When and how to sample. A minimum of one grab sample shall be taken resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event"), providing the interval from the preceding measurable storm event is at least 72 hours. The 72-hour storm interval is waived if the permittee is able to document with the DMR that less than a 72-hour interval is representative for local storm events during the sampling period. The grab sample shall be taken during the first 30 minutes of the discharge. If it is not practicable to take the sample during the first 30 minutes, the sample may be taken during the first three hours of discharge provided that the permittee explains with the SWPPP why a grab sample during the first 30 minutes was impractical.
3. Recording of results. For each discharge measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the DMR the following information:
 - a. Date and duration (in hours) of the storm events sampled;
 - b. Rainfall measurements or estimates (in inches) of the storm event that generated the sampled discharge; and
 - c. Duration between the storm event sampled and the end of the previous measurable storm event.

B. Representative outfalls - substantially identical outfalls. If a facility has two or more exclusively stormwater outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and stormwater management practices occurring within the drainage areas of the outfalls, the permittee may monitor the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall. Representative outfalls must be identified in the registration statement submitted for coverage under this permit. Substantially identical outfall monitoring can apply to quarterly visual and benchmark monitoring. The permittee must include the following information in the SWPPP:

1. The locations of the outfalls;
2. Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data where available;
3. Estimates of the size of the drainage area (in square feet) for each of the outfalls; and
4. An estimate of the runoff coefficient of the drainage areas (low: under 40%; medium: 40% to 65%; high: above 65%).

C. Quarterly visual monitoring of stormwater quality. The permittee shall perform and document visual monitoring of stormwater discharges associated with industrial activity from each outfall, except discharges waived in Part II C 4 . The visual monitoring must be made during normal working hours, at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

1. Samples will be in a clean, colorless glass or plastic container and examined in a well-lit area.
2. Samples will be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed three hours, provided that the permittee explains in the SWPPP why an examination

during the first 30 minutes was impractical) of when the runoff or snowmelt begins discharging. All such samples shall be collected from the discharge resulting from a storm event that results in an actual discharge from the site (defined as a "measurable storm event") providing the interval from the preceding measurable storm event is at least 72 hours. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted.

3. The examination shall observe color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

4. If no qualifying storm event resulted in discharge from the facility during a monitoring period, or adverse weather conditions create dangerous conditions for personnel during each measurable storm event during a monitoring period, visual monitoring is exempted provided this is documented in the SWPPP.

5. Visual monitoring reports shall be maintained onsite with the SWPPP. The report shall include the outfall location, the monitoring date and time, monitoring personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.

6. Whenever the visual monitoring shows obvious indicators of stormwater pollution, the SWPPP and stormwater controls shall be updated per Part II F.

D. Allowable nonstormwater discharges. The following nonstormwater discharges are authorized by this permit.

1. Discharges from emergency firefighting activities;

2. Fire hydrant flushings;

3. Potable water including water line flushings;

4. Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;

5. Irrigation drainage;

6. Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;

7. Pavement wash waters where no detergents or hazardous cleaning products are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed). Pavement wash waters shall be managed to prevent the discharge of pollutants;

8. Routine external building washdown that does not use detergents or hazardous cleaning products;

9. Uncontaminated ground water or spring water;

10. Foundation or footing drains where flows are not contaminated with process materials; and

11. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

E. Releases of hazardous substances or oil in excess of reportable quantities. The discharge of hazardous substances or oil in the stormwater discharges from this facility shall be prevented or

minimized in accordance with the SWPPP for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 or § 62.1-44.34:19 of the Code of Virginia.

Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period:

1. The permittee is required to notify the department in accordance with the requirements of Part III G as soon as he has knowledge of the discharge;
2. Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner of the MS4; and
3. The SWPPP required by this permit shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

F. Stormwater pollution prevention plans (SWPPP). A SWPPP shall be developed and implemented for the facility. The SWPPP shall include best management practices (BMPs) that are reasonable, economically practicable, and appropriate in light of current industry practices. The BMPs shall be selected, designed, installed, implemented, and maintained in accordance with good engineering practices to eliminate or reduce the pollutants in all stormwater discharges from the facility. The SWPPP shall also include any control measures necessary for the stormwater discharges to meet applicable water quality standards.

The SWPPP requirements of this general permit may be fulfilled, in part, by incorporating by reference other plans or documents such as an erosion and sediment control plan, a spill prevention control and countermeasure (SPCC) plan developed for the facility under § 311 of the Clean Water Act or BMP programs otherwise required for the facility provided that the incorporated plan meets or exceeds the SWPPP requirements of Part II F 6 (Contents of SWPPP). All plans incorporated by reference into the SWPPP become enforceable under this permit. If a plan incorporated by reference does not contain all the requirements of Part II F 6, the permittee shall develop the missing SWPPP elements and include them in the required plan.

1. Deadlines for SWPPP preparation and compliance.
 - a. Owners of facilities that were covered under the 2013 Concrete Products General Permit who are continuing coverage under this general permit shall update and implement any revisions to the SWPPP within 60 days of the board granting coverage under this permit.
 - b. Owners of new facilities, facilities previously covered by an expiring individual permit, and existing facilities not currently covered by a VPDES permit who elect to be covered under this general permit shall prepare and implement the SWPPP prior to commencing operations.
 - c. Where the owner of an existing facility that is covered by this permit changes, the new owner of the facility shall update and implement any revisions to the SWPPP within 60 days of the ownership change.
 - d. Upon a showing of good cause, the director may establish a later date in writing for the preparation and compliance with the SWPPP.
2. Signature and SWPPP review.

- a. The SWPPP shall be signed in accordance with Part III K and be retained on-site at the facility covered by this permit in accordance with Part III B. For inactive sites, the SWPPP may be kept at the nearest office of the permittee.
 - b. The permittee shall make the SWPPP or other information available to the department upon request.
 - c. The director, or his designee, may notify the permittee in writing at any time that the SWPPP, BMPs, or other components of the facility's stormwater program do not meet one or more of the requirements of this part. Such notification shall identify specific provisions of the permit that are not being met and may include required modifications to the stormwater program, additional monitoring requirements, and special reporting requirements. Within 60 days of such notification from the director, or as otherwise provided by the director, the permittee shall make the required changes to the SWPPP and shall submit to the department a written certification that the requested changes have been made.
3. Maintaining an updated SWPPP. The permittee shall review and amend the SWPPP as appropriate whenever:
- a. There is construction or a change in design, operation, or maintenance that has a significant effect on the discharge or the potential for the discharge of pollutants to surface waters;
 - b. Routine inspections or visual monitoring determine that there are deficiencies in the BMPs;
 - c. Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;
 - d. There is a spill, leak, or other release at the facility; or
 - e. There is an unauthorized discharge from the facility.
4. SWPPP modifications shall be made within 60 calendar days after discovery, observation, or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in Part II F 7) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the director. The amount of time taken to modify a BMP or implement additional BMPs shall be documented in the SWPPP.
5. If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part III G of this permit.
6. Contents of SWPPP. The SWPPP shall include, at a minimum, the following items:
- a. Pollution prevention team. Each SWPPP shall identify the staff individuals by name or title that comprise the facility's stormwater pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.
 - b. Summary of potential pollutant sources. The plan shall identify where industrial materials or activities at the facility are exposed to stormwater. Industrial materials or activities include: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include: the storage, loading and unloading,

transportation, disposal, or conveyance of any raw material, intermediate product, final product, or waste product. The description shall include:

- (1) A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and
- (2) A list of the associated pollutants, pollutant constituents, or industrial chemicals for each activity. The pollutant list shall include all significant materials handled, treated, stored, or disposed that have been exposed to stormwater in the three years prior to the date this SWPPP was prepared or amended. This list shall include any hazardous substances or oil at the facility.

c. Site map. The site map shall document:

- (1) An outline of the drainage area of each stormwater outfall that are within the facility boundaries;
- (2) Each existing structural control measure to reduce pollutants in stormwater runoff;
- (3) Surface water bodies;
- (4) Locations where materials are exposed to precipitation;
- (5) Locations where major spills or leaks identified under Part II F 6 d have occurred;
- (6) Locations of fueling stations, vehicle or equipment degreasing activities, maintenance areas, loading or unloading areas, vehicle wash down areas, vehicle wash out areas, bag house or other dust control device, recycle ponds, sedimentation ponds, or clarifiers or other devices used for the treatment of process wastewater (and the areas that drain to the treatment device);
- (7) Locations used for the storage or disposal of wastes; liquid storage tanks; processing areas; and storage areas;
- (8) Outfall locations, designation (e.g., 001) and the types of discharges contained in the drainage areas of the outfalls;
- (9) For each area of the facility that generates stormwater discharges associated with industrial activity with a potential for containing significant amounts of pollutants, locations of stormwater conveyances including ditches, pipes, swales, and inlets, and the directions of stormwater flow and an identification of the types of pollutants that are likely to be present in stormwater discharges associated with industrial activity. Factors to consider include the toxicity of the chemicals; quantity of chemicals used, produced, or discharged; the likelihood of contact with stormwater; and history of leaks or spills of toxic or hazardous pollutants; and
- (10) Flows with a potential for causing erosion shall be identified.

d. Spills and leaks. A list of significant spills and leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a stormwater conveyance at the facility after the date of three years prior to the date of coverage under this general permit. Such list shall be updated as appropriate during the term of the permit.

e. Sampling data. The plan shall include a summary of existing stormwater discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous three years.

f. Stormwater controls.

- (1) BMPs shall be implemented for all areas identified in Part II F 6 b to prevent or control pollutants in stormwater discharges from the facility. All reasonable steps shall be taken to control or address the quality of discharges from the site that may not originate at the facility.

The SWPPP shall describe the type, location, and implementation of all BMPs for each area where industrial materials or activities are exposed to stormwater.

(2) Good housekeeping measures. Good housekeeping requires the clean and orderly maintenance of areas that may contribute pollutants to stormwater discharges. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants in stormwater. Particular attention should be paid to areas where raw materials are stockpiled, material handling areas, storage areas, liquid storage tanks, vehicle fueling and maintenance areas, and loading or unloading areas. The SWPPP shall describe procedures performed to prevent or minimize the discharge of: spilled cement, aggregate (including sand and gravel), kiln dust, fly ash, settled dust, or other significant material in stormwater from paved portions of the site that are exposed to stormwater. Sweep or vacuum paved surfaces of the site that are exposed to stormwater at regular intervals or use other equivalent measures to minimize the potential discharge of these materials in stormwater. Indicate in the SWPPP the frequency of sweeping, vacuuming, or other equivalent measures. Determine the frequency based on the amount of industrial activity occurring in the area and the frequency of precipitation, but sweeping, vacuuming, or other equivalent measures shall be performed at least once a week in areas where cement, aggregate, kiln dust, fly ash, or settled dust are being handled or processed. Prevent the exposure of fine granular solids (including cement, fly ash and kiln dust) to stormwater, where practicable, by storing these materials in enclosed silos, hoppers, or buildings or under other covering. The generation of dust and off-site vehicle tracking of raw, final or waste materials, or sediments shall be minimized.

(3) Preventive maintenance. A preventive maintenance program shall involve regular inspection, testing, maintenance, and repairing of all industrial equipment and systems to avoid breakdowns or failures that could result in leaks, spills and other releases. This program is in addition to the specific BMP maintenance required under Part II F 7 (Maintenance of BMPs).

(4) Spill prevention and response procedures. The SWPPP shall describe the procedures that will be followed for preventing and responding to spills and leaks.

(a) Preventive measures include barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;

(b) Response procedures shall include (i) notification of appropriate facility personnel, emergency agencies, and regulatory agencies and (ii) procedures for stopping, containing, and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect, or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the pollution prevention team;

(c) Procedures for plainly labeling containers (e.g., "used oil," "spent solvents," "fertilizers and pesticides," etc.) to encourage proper handling and facilitate rapid response if spills or leaks occur; and

(d) Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP and in other locations where it will be readily available.

(5) Routine facility inspections.

(a) During normal facility operating hours inspections of areas of the facility covered by the requirements in this permit must be conducted and shall include observations of the following:

(i) Areas where industrial materials or activities are exposed to stormwater, including material handling areas, above ground storage tanks, hoppers or silos, dust collection or containment systems, and truck wash down or equipment cleaning areas;

(ii) Discharge points; and

(iii) Best management practices.

(b) Inspections shall be conducted at least quarterly. At least once each calendar year, the routine facility inspection should be conducted during a period when a stormwater discharge is occurring.

(c) Inspections shall be performed by personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and who can also evaluate the effectiveness of BMPs. At least one member of the stormwater pollution prevention team shall participate.

(d) Routine facility inspections shall be documented and maintained with the SWPPP. Document all findings including:

(i) Inspection date;

(ii) Names of the inspectors; and

(iii) Observations of any discharges; the physical condition of and around all outfalls (e.g., concrete product in the stream or turbidity); leaks or spills from industrial equipment, drums, tanks or other containers; offsite tracking of industrial materials or sediment; any additional best management practices that need to be repaired, maintained, or added; and any incidents of noncompliance.

(e) A set of tracking or followup procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained with the SWPPP. Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 60 days of the inspection, unless permission for a later date is granted in writing by the director. The results of the inspections shall be documented in the SWPPP, along with the dates and descriptions of any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(f) The requirement for routine facility inspections is waived for facilities that have maintained an active VEEP E3/E4 status.

(6) Employee training. The permittee shall implement a stormwater employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to stormwater and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP and include such topics as spill response, good housekeeping, material management practices, BMP operation and maintenance, etc. The SWPPP shall include a summary of any training performed.

(7) Sediment and erosion control. The SWPPP shall identify areas that, due to topography, land disturbance (e.g., construction, landscaping, sit grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, or stabilization BMPs to prevent or control on-site and off-site erosion and sedimentation.

(8) Management of runoff. The SWPPP shall describe the stormwater run-off management practices (i.e., permanent structural BMPs) for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in stormwater discharges from the site. Appropriate measures may include: vegetative swales and practices, reuse of collected stormwater (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration devices, wet detention/retention devices; or other equivalent measures. Some structural BMPs may require a separate permit under § 404 of the Clean Water Act and the Virginia Water Protection Permit Program Regulation (9VAC25-210) before installation begins.

7. Maintenance of BMPs. All BMPs identified in the SWPPP shall be maintained in effective operating condition. Stormwater BMPs identified in the SWPPP shall be observed during active operation where feasible (i.e., during a stormwater runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all BMPs and shall include a description of the back-up practices that are in place should a runoff event occur while a BMP is off line. The effectiveness of nonstructural BMPs shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

If site inspections required by Part II F 6 f (5) (Routine facility inspections) identify BMPs that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of BMPs, including the dates of regular maintenance, dates of discovery of areas in need of repair or replacement, and for repairs, dates that the BMPs returned to full function, and the justification for any extended maintenance or repair schedules.

8. Nonstormwater discharges.

a. Except for flows from emergency firefighting activities, the SWPPP must include:

- (1) Identification of each allowable nonstormwater source;
- (2) The location where it is likely to be discharged; and
- (3) Descriptions of appropriate BMPs for each source.

b. Documentation that all outfalls have been evaluated annually for the presence of unauthorized discharges (i.e., discharges other than stormwater, the authorized nonstormwater discharges described in Part II D, or discharges covered under a separate VPDES permit or this permit). The documentation shall include:

- (1) The date of the evaluation;
- (2) A description of the evaluation criteria used;
- (3) A list of the outfalls or onsite drainage points that were directly observed during the evaluation;
- (4) A description of the results of the evaluation for the presence of unauthorized discharges; and
- (5) The actions taken to eliminate identified unauthorized discharges.

Part III
Conditions Applicable to All VPDES Permits.

A. Monitoring.

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will ensure accuracy of measurements.
4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45 (Certification for Noncommercial Environmental Laboratories) or 1VAC30-46 (Accreditation for Commercial Environmental Laboratories).

B. Records.

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individuals who performed the sampling or measurements;
 - c. The dates and times analyses were performed;
 - d. The individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. The permittee shall retain (i) records of all monitoring information including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, (ii) copies of all reports required by this permit, and (iii) records of all data used to complete the registration statement for this permit for a period of at least three years from the date that coverage under this permit expires or is terminated. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the board.

C. Reporting monitoring results.

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to the department's regional office.
2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the department.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the department.
4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to provide information. The permittee shall furnish to the department, within a reasonable time, any information that the board may request to determine whether cause exists for terminating coverage under this permit or to determine compliance with this permit. The board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from its discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the department upon request copies of records required to be kept by this permit.

E. Compliance schedule reports. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized discharges. Except in compliance with this permit, or another permit issued by the board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, for recreation, or for other uses.

G. Reports of unauthorized discharges. Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part III F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part III F, shall notify the department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate, and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of unusual or extraordinary discharges. If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the department within five days of discovery of the discharge in accordance with Part III I 1 b. Unusual and extraordinary discharges include any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of noncompliance.

1. The permittee shall report any noncompliance that may adversely affect state waters or may endanger public health.

a. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information that shall be reported within 24 hours under this subdivision:

- (1) Any unanticipated bypass; and
- (2) Any upset that causes a discharge to surface waters.

b. A written report shall be submitted within five days and shall contain:

- (1) A description of the noncompliance and its cause;
- (2) The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
- (3) Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The board may waive the written report on a case-by-case basis for reports of noncompliance under Part III I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

2. The permittee shall report all instances of noncompliance not reported under Part III I 1 a or 1 b, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part III I 1 b.

NOTE: The immediate (within 24 hours) reports required in Part III G, H and I may be made to the department's regional office by telephone, FAX, or online at <http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.aspx>.

For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

3. Where the permittee becomes aware that it failed to submit any relevant facts in a permit registration statement, or submitted incorrect information in a permit registration statement or in any report to the department, it shall promptly submit such facts or information.

J. Notice of planned changes.

1. The permittee shall give notice to the department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

- (1) After promulgation of standards of performance under § 306 of Clean Water Act that are applicable to such source; or

(2) After proposal of standards of performance in accordance with § 306 of Clean Water Act that are applicable to such source, but only if the standards are promulgated in accordance with § 306 within 120 days of their proposal;

b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or

c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit registration process or not reported pursuant to an approved land application plan.

2. The permittee shall give advance notice to the department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

K. Signatory requirements.

1. Registration statements. All registration statements shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation or (ii) the manager of one or more manufacturing, production, or operating facilities provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit registration requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes (i) the chief executive officer of the agency or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. Reports and other information. All reports required by permits and other information requested by the board shall be signed by a person described in Part III K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:

a. The authorization is made in writing by a person described in Part III K 1;

b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and

c. The written authorization is submitted to the department.

3. Changes to authorization. If an authorization under Part III K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part III K 2 shall be submitted to the department prior to or together with any reports, or information to be signed by an authorized representative.

4. Certification. Any person signing a document under Part III K 1 or 2 shall 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 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."

L. Duty to comply. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit coverage termination; or denial of a permit renewal registration.

The permittee shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under § 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain coverage under a new permit. All permittees with currently effective permit coverage shall submit a new application at least 60 days before the expiration date of the existing permit, unless permission for a later date has been granted by the board. The board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a permit. This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state, or local law or regulations.

O. State law. Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in permit conditions on "bypass" (Part III U), and "upset" (Part III V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and hazardous substance liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and

adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of solids or sludges. Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass.

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur that does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part III U 2 and U 3.

2. Notice.

a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least 10 days before the date of the bypass.

b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part III I.

3. Prohibition of bypass.

a. Bypass is prohibited, and the board may take enforcement action against a permittee for bypass, unless:

(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part III U 2.

b. The board may approve an anticipated bypass, after considering its adverse effects, if the board determines that it will meet the three conditions listed in Part III U 3 a.

V. Upset.

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part III V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.

2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An upset occurred and that the permittee can identify the causes of the upset;
- b. The permitted facility was at the time being properly operated;
- c. The permittee submitted notice of the upset as required in Part III I; and
- d. The permittee complied with any remedial measures required under Part III S.

3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and entry. The permittee shall allow the director, or his designee, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit actions. Permit coverage may be terminated for cause. The filing of a request by the permittee for a permit termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permit coverage.

1. Permits are not transferable to any person except after notice to the department.
2. Coverage under this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the department within 30 days of the transfer of the title to the facility or property unless permission for a later date has been granted by the board;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The board does not notify the existing permittee and the proposed new permittee of its intent to deny the new permittee coverage under the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part III Y 2 b.

Z. Severability. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PERMITTED FACILITY

Branscome Inc - Dominion Plant
432 McLaws Circle, Williamsburg VA 23185
Permit Number: VAG110361

No Discharge:

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CONCRETE PRODUCTS FACILITIES
DISCHARGE MONITORING REPORT (DMR)**

RETURN TO

Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard, Virginia Beach VA 23462
(757) 518-2000

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE
COMPLETING THIS FORM AND RETURNING IT.

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
			FROM			
			TO			

Outfall Num: 004

Reporting Frequency: Quarter

Run Date: Dec 11, 2018

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
001 FLOW	REPORTD				*****	*****	*****			
	REQRMNT	NL	NL	MGD	*****	*****	*****		1/3M	EST
002 pH	REPORTD	*****	*****			*****				
	REQRMNT	*****	*****		6.0	*****	9.0	SU	1/3M	GRAB
004 TSS	REPORTD	*****	*****		*****					
	REQRMNT	*****	*****		*****	30	60	MG/L	1/3M	GRAB

Additional Permit Requirements (Outfall 004):

Comments:

PERMITTED FACILITY

Branscome Inc - Dominion Plant
432 McLaws Circle, Williamsburg VA 23185

Permit Number: VAG110361

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DEPARTMENT OF ENVIRONMENTAL QUALITY
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RETURN TO

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Tidewater Regional Office
5636 Southern Boulevard, Virginia Beach VA 23462
(757) 518-2000

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE
COMPLETING THIS FORM AND RETURNING IT.

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.

BYPASS AND OVERFLOWS		
TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)

OPERATOR IN RESPONSIBLE CHARGE			DATE		
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

This report is required by your VPDES permit and by law. (See, e.g., the Code of Virginia of 1950 §62.1-44.5 and 9 VAC 25-31-50.) Failure to report or failure to report truthfully can result in civil penalties of \$32,500 per violation, per day and felony prosecutions which can carry a 15 year term.

DISCHARGE MONITORING REPORT (DMR) - GENERAL INSTRUCTIONS

1. Complete this form in permanent ink or indelible pencil. The use of 'correction fluid/tape is not allowed.
2. Be sure to enter the dates for the first and last day of the period covered by the report on the form in the space marked "Monitoring Period".
3. For those parameters where the "permit requirement" spaces have a requirement or limitation, provide data in the "reported" spaces in accordance with your permit.
4. Enter the average and maximum quantities and units in the "reported" spaces in the columns marked "Quantity or Loading" $\text{KG/DAY} = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3.785 \text{ G/D (Grams/Day)} = \text{Concentration (mg/L)} \times \text{Flow (MGD)} \times 3785$.
5. Enter maximum, minimum, and/or average concentrations and units in the "reported" spaces in the columns marked "Quality or Concentration"
6. For all parameters enter the number of samples which do not comply with the maximum and/or minimum permit requirements in the "reported" space in the column marked "No. Ex." (Number of Exceedances). If none, enter "0". Do NOT include monthly average violations in this field. Include any Maximum 7 -Day Average and Maximum Weekly Average violations in this field. Permittees with continuous pH. or temperature monitoring requirements should consult the permit for what constitutes an exceedance and report accordingly.
7. You are required to sample (at a minimum) according to the Sample Frequencies and Sample Types specified in your permit.
8. Enter the actual frequency of analysis for each parameter (number of times per day, week, month, etc.) in the "reported" space in the column marked "Frequency of Analysis".
9. Enter the actual type of sample (Grab, 8HC. 24HC. etc) collected for each parameter in the "reported" space in the column marked "Sample Type".
10. Enter additional required data or comments in the space marked "additional permit requirements or comments". If additional required data or comments are appended to the DMR, reference appended correspondence in this field.
11. The operator in responsible charge of the facility should review the form and sign in the space provided. If the plant is required to have a licensed operator or if the operator in responsible charge of the facility is a licensed operator, the operator's signature and certificate number must be reported in the spaces provided.
12. The principal executive officer then reviews the form and must sign in the space provided and provide a telephone number where he/she can be reached. The final page of the DMR must have an original signature.
13. Send the completed form(s) with original signatures to your Department of Environmental Quality Regional Office by the 10th of each month unless otherwise specified in the permit
14. You are required to retain a copy of the report for your records.
15. Where violations of permit requirements are reported, attach a brief explanation in accordance with the permit requirements describing causes and corrective actions taken. Reference each separate violation by date.
16. If you have any questions, contact the Department of Environmental Quality Regional Office listed on the DMR.