Baltimore Ready Mix Concrete Facility
2120 Annapolis Road, Baltimore, MD 21230

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

In compliance with:
General Permit No. 15MP9934
National Pollution Discharge Elimination System (NPDES)

Prepared By:
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I. Introduction

a. SWPPP Purpose

This Storm Water Pollution Prevention Plan (SWPPP) has been developed as a requirement of the National Pollution Discharge Elimination System (NPDES) program for regulating storm water discharge from industrial facilities. Development, proper implementation, and dedicated monitoring of the SWPPP will allow the Baltimore Ready Mix Concrete Facility [formerly known as the Westport Facility, herein known as the Baltimore Facility for the purposes of this report] to control pollutants and comply with all established regulations. The primary purpose of this SWPPP is to:

1) Identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site,
2) Describe the practices that will be used to reduce pollutants in storm water discharges to assure compliance with the conditions of the Permit, and
3) Establish an implementation schedule to ensure that the proposed plan is properly implemented while monitoring the plan's effectiveness in meeting the design goals.

b. SWPP Content

The following components are included in this SWPPP:

- Description of the facilities and existing conditions
- Description of potential storm water contaminations
- Description of measure to be taken and Best Management Practices (BMP's) to be implemented
- Description of the monitoring and inspection plan to be implemented
- Identification of a SWPPP coordinator, SWPPP team members and the responsibilities involved, and
- Description of the requirements for permit compliance.

II. Facility Description

a. Facility Location

The Baltimore Facility is located at 2120 Annapolis Road, Baltimore, Maryland and is within Baltimore City Limits. **Figure 1** is a general vicinity map of the area.

b. Site Description

The Baltimore Facility is bordered by Gwynn's Falls to the North and West, Annapolis Road and railroad tracks to the East, and the Vulcan Materials site entrance driveway to the South. On-site structures include a batch plant office, batch plant, batch equipment, a water tank, treatment basins, diesel fuel tanks, and a garage. **Figure 2** is a facility sketch of existing conditions, illustrating pertinent on-site structures and includes approximate drainage zone locations, patterns of storm water drainage and locations of any discharge points.

c. Site Activities

The Baltimore Facility is classified as a code 3273 under the 1987 Standard Industrial Classification (SIC) guild lines and as code 327320 under the 2002 North American Industry Classification System (NAICS).

d. Existing Drainage and Discharge Conditions

The site is covered by one (1) drainage zone, DZ-1 [**Figure 2**]. These are approximate locations based on a review of site conditions and an evaluation of mapping and aerial photos. Site drainage is generally northeastward to the treatment basins.

DP-1 is located in the northwest corner of the site, Lat: $39^0$15'58.2" N Long: $76^0$37'59.5" W, and discharges to Gwynn's Falls. The discharge point consists of stone and silt fence, water must be pumped for a discharge to occur.

Additional information about each drainage zone and discharge point can be found in **Table 1**.

III. Potential Storm Water Contaminants

a. Material Inventory

Table 2 identifies materials that are used, stored or produced on-site that may contribute to storm water pollution. A physical description and the probable storm water pollutants are included. This SWPPP is focused on limiting the pollution from these sources.

b. Spill and Leak History

There are no records of any spills or leaks of any material in this facility within the past three years.

c. Potential Areas for Storm Water Contamination

The following core areas with potential for storm water contamination were considered in the development of this SWPPP:

- Truck Loading Area: This includes a loading system (hopper, conveyor and mixer) and is located adjacent to the facility office. Contamination may occur through leaking trucks and equipment or spills from overloaded trucks.
- Fueling Station: This area includes a fueling station in the southeast corner of the site. Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- Treatment Basins: Mixer-truck drums are washed out into the basin adjacent to the recycle concrete bin. Water is allowed to settle as it flows through the tiered basin system. Contamination may occur in this area through an increase of pH in collected waters and potential for increased sediment build-up.
- Garage: This building serves as a storage area for materials. Contamination may occur through fluid leaks from stored materials.

- Stockpile Materials: Several mounds of stockpile material (sand, stone, etc.) are located along the northern border of the site. Contamination may occur in these areas through sediment runoff.

Table 1 includes site-specific information regarding storm water pollution potential from these areas.

d. Emergency Contact Information

Any chemical or oil spill will be recorded on standard inspection forms (**Appendix A**). In the event of an emergency spill, the Maryland Department of the Environment 24 hr. Emergency Spill Hotline (410-974-3551) and the National Response Center at (1-800-424-8802) will be contacted. In the event of a spill situation, a standard spill response procedure will be followed (**Appendix B**). This procedure and emergency contact information will be visible and readily available in the site office

IV. Storm Water Management (SWM) Control Measures

This section will detail existing SWM control measures and proposed controls that will be implemented to comply with permit requirements. All Best Management Practices (BMPs) used as control measures in this project were selected to meet or exceed EPA and local requirements. **Table 3** contains specific information and a schedule for target implementation of these control measures. **Figure 2** is a facility sketch of proposed control measures depicting approximate locations of implementation.

a. Site Evaluation of Existing Control Measures

The following is a list of effective control measures that are currently in place at the Baltimore Facility:

- Treatment Basin: An effective treatment basin is in place in DZ-1 for truck drum washout. Trucks release excess concrete material in a designated area and then wash out drums and release the wash water into a concrete basin that is regularly inspected and cleaned out.
- Silt Fence: The West side of the site is lined with silt fence. Grading directs stormwater to the treatment basins, but in the event of a large storm, the silt fence will prevent sediment from leaving the site.

b. Implementation of Proposed SWM Control Measures

The following is a list of appropriate control measures that will be implement at the Baltimore Facility:

- Fueling Station: The fueling station will be inspected for potential leak hazards and any changes will be implemented immediately. All trucks that use the fueling station are equipped with spill kits in the event of a spill. A spill kit is also located at the fueling station.
- Treatment Basin: The three-tiered basins will be inspected for potential problems and sediment buildup. Appropriate measures will be taken to ensure they are functioning as designed.
- Material Storage: Any fluid canisters (truck oil, grease) housed on-site will be kept of out contact with storm water and will remain covered when not in use. Any partially used,

bagged material will be transferred to a sealable container and properly labeled. Items such as brooms, dust pans, plastic gloves, absorbent material, and extra sealable containers will always be on-site.

- Stockpiles: All stockpiles will be consolidated, and employees will ensure that there is no sediment, sand/or aggregate leaving the appropriate holding areas. These areas will be inspected twice a day and reconsolidated when needed.
- Equipment Inspections: Vehicles and equipment will be inspected daily for fluid leaks and any other potential pollutants to storm water. All vehicles and equipment will receive regular preventative maintenance to reduce the chance of fluid leakage.
- General Housekeeping: Good housekeeping measures will be implemented into a routine schedule to promote site compliance.
- Air Pollution: Dust suppression methods and regular sweeping will aid in minimizing air pollution that could originate from the site.

V. Facility Monitoring Plan

a. Routine Inspections

Routine inspections will be conducted throughout the site to decrease the likelihood of a potential pollution situation. The water treatment basins, storage areas, fueling station, and all other pollution prevention implementations will be inspected for effectiveness. As directed by the SWPPP Coordinator, an Environmental Evaluation team has been assigned to conduct visual observations no less than once each month. Inspection forms will be completed, signed by the plant manager and kept in the on-site file. A sample inspection form can be found in **Appendix A.**

b. SWPPP Updates and Amendments

Any changes to operating conditions of the Baltimore Facility that require modification of existing BMPs or implementation of new BMPs will be recorded in **Appendix D**. This SWPPP shall be amended to include any change in design, construction, operation, or maintenance of the facility that has a significant effect on the potential for the discharge of pollutants to surface waters and that has not been addressed in the normal implementation of the SWPPP. This SWPPP will also be updated whenever it is found to be ineffective in meeting the requirements of the NPDES Permit and any other applicable regulatory guidelines. In the event that the Maryland Department of the Environment (MDE} notifies the SWPPP Coordinator that the SWPPP does not meet one or more of the provisions of the NPDES Permit or any other applicable regulatory guidelines, changes will be made within a timeframe approved by the MDE.

VI. SWPPP Implementation Task Force

a. SWPPP Coordinator

The SWPPP Coordinator for the Baltimore Facility is Victor Vilece, 301-861-6094.

b. SWPPP Coordinator Responsibilities

The SWPPP Coordinator will be responsible for the following:

- Manage the SWPPP team in the implementation of the SWPPP plan
- Assign inspection duties
- Oversee employee training
- Ensure regulatory compliance of site activities

- Measure overall effectiveness of SWPP implementation
- Address any site operation changes with appropriate SWPPP modifications

c. SWPPP Implementation Task Force Team Members

The following team members will assist the SWPPP Coordinator in all aspects of the SWPPP implementation:

• Lamont Hopkins	Area Production Manager	410-224-3692
• Anthony DiMaio	Area Production Manager	410-453-3502
• Floating Manager	Plant Manager	

VII. Compliance Requirements

a. On-site Record Retention

A copy of the most recently updated version of this SWPPP and completed inspection forms will be accessible online. Additionally, all employee training records and certifications will be made readily available. All documents shall be made readily available upon request.

b. Employee Training

An annual environmental education seminar will be incorporated into the ongoing employee training protocol to educate employees about the pollution prevention issues relating to this SWPPP. Employees will be introduced to the requirements of the SWPPP and will be instructed on how to monitor the implemented BMPs for maximum effectiveness.

c. Implementation Schedule

A proposed schedule for the implementation of this SWPPP can be found in **Table 3**. An implementation schedule for E&S Controls and BMPs is shown in **Table 4.** These schedules will be modified if there is any change to the sequence or expected completion dates and updated schedules will be inserted into the SWPPP file.

d. Annual SWPPP Compliance Assessment

A designated SWPPP team member will conduct an annual compliance assessment to ensure that the facility is complying with all requirements detailed in this SWPPP. All BMPs and E&S controls said to be in place will be inspected, adherence to the implementation schedule will be verified and a confirmation of an active employee training program will be made. An assessment report will be completed, and a copy of the assessment will be kept on record. A sample assessment form can be found in **Appendix C**.

e. 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 _____ 8/8/2024 _____

Name Date

Environmental Manager _____

Title

Victor John Vilece Jr _____

Digitally signed by Victor John Vilece Jr
DN: cn=Victor John Vilece Jr, o=Chaney Enterprises, ou, email=vvilece@chaneyenterprises.com, c=US
Date: 2024.08.08 11:58:06 -04'00'

Signature

FIGURE 1

GENERAL VICINTY MAP

FIGURE 2

FACILITY SKETCH OF EXISTING CONDITIONS

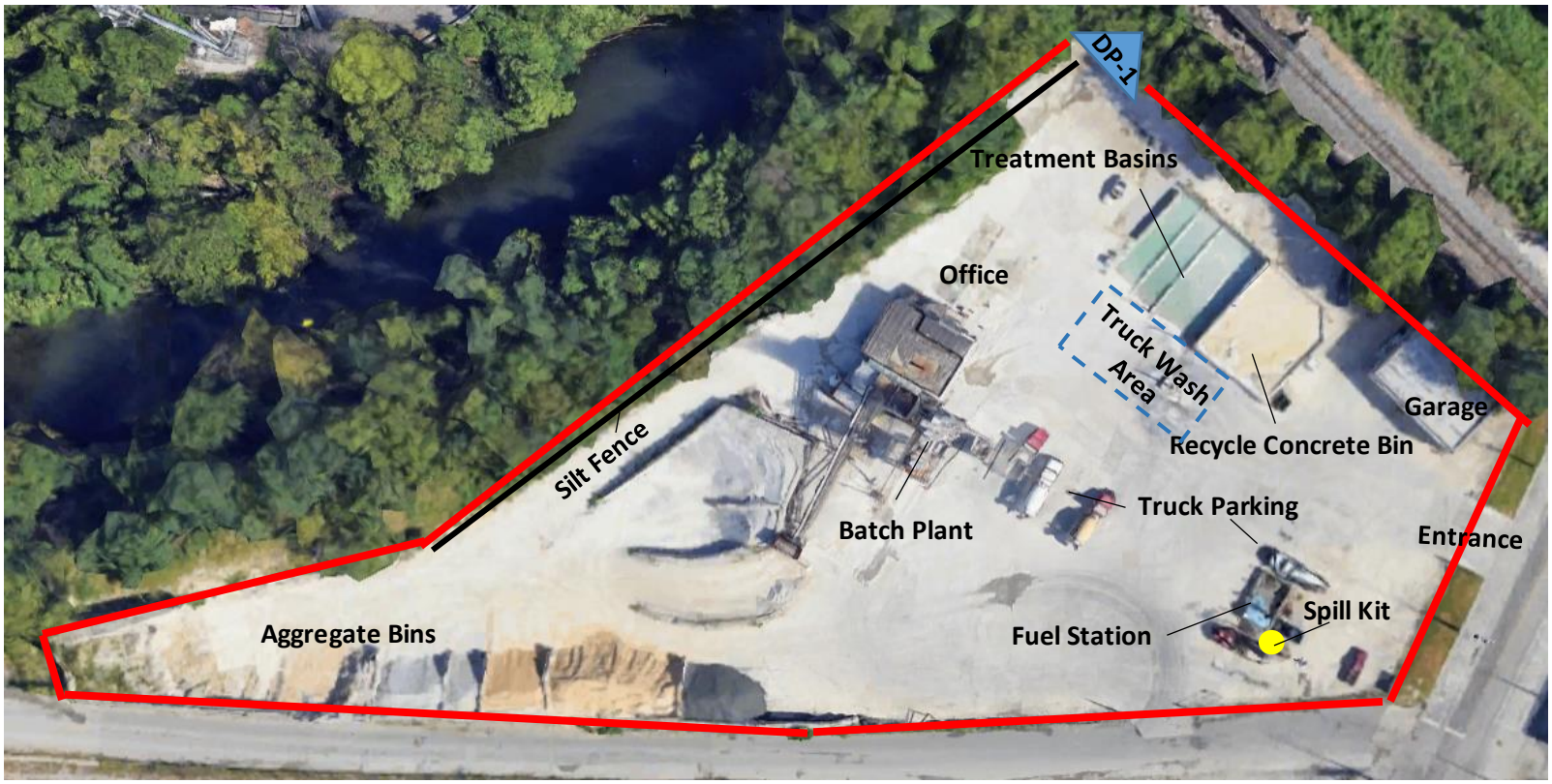

Table 1

EXISITING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/ DISCHARGE POINTS	STORM WATER DRAINAGE DESCRIPTION	POTENTIAL POLLUTION	POTENTIAL PROBLEMS
DZ-1	Drainage is directed to the treatment basin. Basin does not discharge without the use of a pump. Natural topography and grading directs runoff through the area.	Diesel Fuel, Hydraulic Oil/Fluids, Sediment, High pH Water	Diesel fuel/fluids may leak from trucks and equipment. High pH water may be discharged without being treated. Improper loading may result in sediment discharge. Overflow from treatment basin may result.
DP-1	The lone discharge point is located along the northern border of the site. All water off the site is directed through a stone trap and silt fence.	Diesel Fuel, Hydraulic Oil/Fluids, Propane, Sediment, High pH Water	Overflow from the loading area may cause release of excess sediment. Trucks release washout water that could potentially be discharged before being treated.

Table 2

MATERIAL INVENTORY

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
Cleaning Solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene, chloride, trichloroethylene, petroleum distillates
Waste Water	Clear or gray	Oil, grease, concrete
Concrete	White or gray solids	Limestone, sand
Sand, Gravel	Solid particles	Silicon, suspended solids, turbidity, sediment
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil
Gasoline	Colorless, plae brown pr pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Polarset	Light green, clear liquid	Calcium Bromide, Calcium Nitrate, Diethyle Gycol, Methyldiethanolamine, Calcium Nitrite
Daracel	Clear Liquid	Naphthalenesulfonic acid, polymer with formaldehyde

TABLE 3

SWPPP IMPLEMENTATION SCHEDULE

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
Facility inspections	Monthly
Implementation of SWM Control Measure	See **TABLE 4**
Employee Training Program	Date of environmental seminar: Fall Annually General employee instruction: Ongoing
Annual Compliance Assessment	Fall Annually

TABLE 4

SWM CONTROL MEASURES IMPLEMENTATION SCHEDULE

FACILITY SITUATION	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
Treatment Basin	Visual inspection of concrete basin in DZ-1 for effectiveness. Clean out when needed.	Daily
Silt Fence	Visual inspection of silt fence condition and effectiveness.	Monthly
Outfall	Visual inspection for signs of erosion and sediment buildup. Cleaning as needed.	Monthly
Material Storage and Fuel Station	Visual inspection of garage, fluid containers, and fuel station. Checking containers are sealed and labeled, fuel hoses and nozzles are stored correctly, spill kits are ready for use, and for signs of leaks from storage and fueling areas.	Monthly
Equipment Inspections	On-site vehicles and equipment will be inspected for fluid leaks and other potential pollutants as part of driver pre-trip checklist.	Daily
	Preventative maintenance will be performed on a regular schedule.	Maintenance performed on a monthly basis or as needed.
General Housekeeping	Enforcement of good housekeeping measures will be implemented.	Daily

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Appendix A

I. General Information **CEEIP Inspection Form**

Facility:					Permit #:		
Date:		Time:		Weather:		Phone:	
Facility Address:					Site Manager:		
Inspector:							

II. Site Conditions SWPPP On Site: Yes ☐ No ☐ DMR's On Site: Yes ☐ No ☐

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

Additional Comments on Site Conditions:

III. pH Treatment System

	Questions	*Answer*
Washout/Settling Ponds	Have washout basins/ponds been cleaned recently?	
	What is the pH in the settling area w/handheld probe?	
pH Controller	What is the pH reading upon arrival?	
	What is the Hi limit reading?	
	What is the Lo limit reading?	
Mixing	How much CO2/Sodium bisulfate is in the tank?	
	Does additional chemical need to be added/ tank filled?	
	Were site personal informed?	
pH Probe	Is probe covered in residue and dirty?	
	Was probe cleaned with cleaning solution?	
	What are readings before/after calibration with solution 7.0?	
	What are readings before/after calibration with solution 10.0?	
Piping	Is intake piping functional?	
	Is discharge piping functional?	

Site Corrections:

Due Date:

Days ☐ **1wk** ☐ **2wk** ☐ **3wk** ☐

Sign: _____

Comments on pH System Conditions:

Inspector

Name: _____ Signature: _____ Date: _____

APPENDIX B

EMERGENCY CONTACT INFORMATION

IN THE EVENT OF A SPILL… CONDUCT THE FOLLOWING STEPS:

1. **LOCATE SPILL KIT**

2. **CONTAIN SPILL**

3. **CONTACT CHANEY SAFTEY DIRECTOR**

   Gus Buttar
   (240) 299-7172

4. **CONTACT THESE AGENCIES**

   MDE 24 HR EMERGENCY SPILL HOTLINE
   (410) 974-3551

   NATIONAL SPILL RESPONSE CENTER
   (800) 424-8802

APPENDIX C

SWPPP COMPLIANCE ASSESSMENT

SWPPP Feature	Y/N	Comments
Have monthly comprehensive inspections been conducted and have forms been completed and filed?		
Have BMP's been implemented and has the implementation schedule been adhered to?		
Has employee training been implemented?		
Has the Environmental Education Program been evaluated and forms filed?		
Have all changes to site function been addressed in the SWPPP?		

Name:_____ Date:_____

Signature:_____

Title:_____

APPENDIX D

SWPPP MODIFICATIONS

Date	Comments	Signature
June 2024	Update to the SWPPP Implementation Task Force Members, **Section VI. Part c.** and to the Emergency Contact in **Appendix B**.	VJV
August 2024	**Table 4** expanded.	VJV