

**Bishopville Ready Mix Concrete Facility  
11935 Worcester Highway, Bishopville, MD 21813**

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

*In compliance with:  
General Permit No.  
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 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 Bishopville Ready Mix Concrete Facility [herein known as the Bishopville 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. SWPPP 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 Bishopville facility is located at 11935 Worcester Highway, Bishopville, Maryland and is within Worcester County boundaries. The facility entrance is located approximately 700 feet north of the intersection of Old Worcester Highway and Peerless Road in Bishopville, Worcester County, Maryland. Figure 1 is a general vicinity map of the area.

### b. Site Description

The Bishopville facility is bordered by wooded land to the north, grass covered land and a single-family residence to the east, grass covered land to the south, and a railroad easement followed by agricultural land to the west.

On-site structures include a batch plant office located above a storage garage, batch plant, batch equipment, a water tank, a propane tank, water treatment basin, a warehouse and accompanying office building. **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 Bishopville 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 can be divided to create two main drainage zones, DZ-1 and DZ-2 [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 southwestward from DZ-1 and northwestward from DZ-2.

DZ-1 includes the concrete mixing facility and settling basin. Storm water from this area drains to the settling basin. Water from this drainage area will be recycled into the concrete plant and will not be discharged from the facility under normal conditions. When discharge is required, water will be pumped to the on-site retention pond.

DZ-2 includes the warehouse and office building. Storm water from this area drains into the on-site retention pond, which discharges [DP-1] to Birch Creek.

DP-1 is located in DZ-2, Lat: 38°24'30"N Long: 75°12'55"W, and discharges to Birch Creek. The outfall is a swale type and under normal conditions does not discharge.

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 to the north of the batch office. Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- Settling Basin: Truck drums are washed out into a settling basin located in the southwest corner of the site. Water in this basin is treated for sediment before being pumped to the retention pond in DZ-2. Contamination may occur in this area through an increase of pH in collected waters and potential for increased sediment build-up.
- Storage Garage: This building serves as a storage area for materials such as admixtures and general site materials. Contamination may occur through fluid leaks from stored materials and excess runoff from the adjacent loading area.
- Propane Tank: Contamination may occur in this area through improper loading, or leaking trucks and equipment.
- 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 Bishopville Facility:

- Settling Basin: An effective treatment basin is in place in DZ-1 for truck drum washout. Trucks release excess material in a designated area and then wash down drums and release that into a concrete basin that is regularly inspected and cleaned out.
- Swales: Multiple concrete swales throughout the site direct drainage to the sediment basins area for treatment.
- Retention Pond: A large, heavily vegetated pond located in the northeast corner of the site that collects and filters water from the site.

b. *Implementation of Proposed SWM Control Measures*

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

- Propane Tank: The propane tank will be inspected for potential leak hazards and any changes will be implemented immediately.
- 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.
- Settling Basin: The existing washout and collection basin will be thoroughly inspected for potential problems and 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 out of 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, kitty litter and extra sealable containers will be on-site at all times.
- Stock Piles: All stock piles 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 re consolidated when needed.
- Equipment Inspections: Vehicles and equipment will be inspected 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: General 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 basin, pH Watchdog Water Treatment System, 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 one time each month (in some months twice). 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 Bishopville Facility that require modification of existing BMPs or implementation of new BMPs will be recorded in the on-site file for insertion into an updated SWPPP and submitted with the annual compliance assessment (discussed in Section VII. 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 shall 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 Bishopville 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 SWPPP 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:

- |                      |                             |              |
|----------------------|-----------------------------|--------------|
| • Jeff Slagle        | Concrete Operations Manager | 301-399-2224 |
| • Glenn Thoroughgood | Plant Manager               | 302-236-7264 |
| • Amanda Page        | Safety Assistant            | 301-932-5412 |
| • Nayeli Rios        | Safety Assistant            | 301-932-5055 |

## VII. Compliance Requirements

### a. On-site Record Retention

A copy of the most recently updated version of this SWPPP will be retained in the onsite office. Copies of completed inspection forms will also be kept on-site for reference purposes. Additionally, all employee training records and certifications shall be made readily available.

### b. Employee Training

An annual environmental education seminar will be incorporated into 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. A site walk through will be conducted to illustrate proper good-housekeeping measures in action and to identify what employees should look for to reduce pollution potential. Hands-on demonstrations will be used as a training tool to inform employees of procedures to follow when responding to a spill situation. **Appendix D** contains a copy of the sign-in sheet that will be used at the seminar to record attendees. Prior to the seminar, the SWPPP Coordinator (or designated SWPPP team member) will evaluate the environmental education program to verify its effectiveness, implement any appropriate changes and complete an evaluation form. A sample evaluation form can be found in **Appendix E**.



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 F**.

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."

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

\_\_\_\_\_  
Title

**FIGURE 1**  
**GENERAL VICINTY MAP**



**FIGURE 2**  
**FACILITY SKETCH OF EXISTING CONDITIONS**



Table 1

EXISTING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/ DISCHARGE POINTS	STORM WATER DRAINAGE DESCRIPTION	POTENTIAL POLLUTION	POTENTIAL PROBLEMS
<i>DZ-1</i>	Drainage is directed to a settling basin prior to discharge. 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.
<i>DZ-2</i>	Drainage from the batch plant is directed to a large retention pond to the east. The discharge point for the site is in this zone on the northern edge of the retention pond.	Propane, Diesel Fuel, Hydraulic Oil/Fluids, Propane, Sediment	Diesel fuel/fluids may leak from trucks and equipment. Improper loading may result in sediment discharge.
<i>DP-1</i>	The lone discharge point is located along the eastern border of the site. All water off the site is directed through a large heavily vegetated retention pond before it reaches the discharge point.	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
<i>Cleaning Solvents</i>	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene, chloride, trichloroethylene, petroleum distillates
<i>Waste Water</i>	Clear or gray	Oil, grease, concrete
<i>Concrete</i>	White or gray solids	Limestone, sand
<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>Polarset</i>	Light green, clear liquid	Calcium Bromide, Calcium Nitrate, Diethylene Glycol, Methyl-diethanolamine, Calcium Nitrite
<i>Daracel</i>	Clear Liquid	Naphthalenesulfonic acid, polymer with formaldehyde

**TABLE 3**  
**SWPPP IMPLEMENTATION SCHEDULE**

SWPPP FEATURE	TARGET IMPLEMENTATION DATE
<i>Facility inspections</i>	Monthly
<i>Implementation of SWM Control Measure</i>	See <b>TABLE 4</b>
<i>Employee Training Program</i>	Date of environmental seminar: Fall Annually General employee instruction: Ongoing
<i>Environmental Education Program Evaluation</i>	Fall Annually
<i>Annual Compliance Assessment</i>	Fall Annually

**TABLE 4**

**SWM CONTROL MEASURES IMPLEMENTATION SCHEDULE**

FACILITY SITUATION	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
<i>Settling Basin</i>	Inspect concrete basin in DZ-1 for effectiveness. Clean out if needed.	Daily
<i>Equipment Inspections</i>	On-site vehicles and equipment will be thoroughly inspected for fluid leaks and other potential pollutants.	Daily
	Preventative maintenance will be performed on a regular schedule.	Maintenance performed on a monthly basis or as needed.
<i>General Housekeeping</i>	Aggressive enforcement of good housekeeping measures will be implemented.	Daily
<i>Retention Pond</i>	Inspected for sediment build up and general effectiveness.	Monthly

# CHANNEY

ENTERPRISES

## Appendix A

### I. General Information

**CEEIP Inspection Form**

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

### II. Site Conditions

SWPPP On Site: Yes  No

DMR's On Site: Yes  No

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

**Additional Comments on Site Conditions:**

### III. pH Treatment System

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

**Site Corrections:**

**Due Date:**

Days   1wk   2wk   3wk  
        

**Sign:** \_\_\_\_\_

**Comments on pH System Conditions:**

### Inspector

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

WEB ChaneyEnterprises.com   PHONE 888-424-2639



## APPENDIX B

### EMERGENCY CONTACT INFORMATION

**IN THE EVENT OF A SPILL... CONDUCT THE FOLLOWING STEPS:**

1. LOCATE SPILL KIT
2. CONTAIN SPILL
3. CONTACT CHANEY SAFTEY DIRECTOR

**Chris McCoy  
(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

ENVIRONMENTAL EDUCATION SEMINAR SIGN-IN SHEET

Date	Employee Name	Employee Signature

## APPENDIX D

### ENVIRONMENTAL EDUCATION SEMINAR EVALUATION FORM

Program Feature	Applicable? (Y/N)	Comments
Has a date been established for the annual seminar?		
Will all state and federal regulations be addressed?		
Will employees be informed of any changes to the SWPPP?		
Will there be any outside sources involved in the training program?		
Did the facility staff appear more informed after last year's program?		
Have there been any employee comments/suggestions?		
<div style="display: flex; justify-content: space-between;"> <span>Name: _____</span> <span>Date: _____</span> </div> <div style="margin-top: 10px;"> <span>Signature: _____</span> </div> <div style="margin-top: 10px;"> <span>Title: _____</span> </div>		

## APPENDIX E

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