

**Queenstown Ready Mix Concrete Facility
220 Joseph Boyle's Road, Queenstown, MD**

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

In compliance with:
General Permit No. 15MP9788
National Pollution Discharge Elimination System (NPDES)

Prepared By:
Victor Vilece
Chaney Enterprises, LP
2410 Evergreen Road
Gambrills, MD 21054
Phone: 301-861-6094
Email: vvilece@chaneyenterprises.com

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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 Queenstown Ready Mix Concrete Facility [herein known as the Queenstown 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 Queenstown facility is located at 220 Joseph Boyle's Road, Queenstown, Maryland 21658 and is within Queen Anne's County boundaries. **Figure 1** is a general vicinity map of the area.

b. Site Description

The Queenstown facility operates on a section of leased land that is part of a larger industrial site. The property is bordered by an existing sand and gravel operation to the north, by a former barrow pit to the south, by Joseph Boyle's Road to the west, and by a forest stand and existing industrial facility along Queenstown-Centerville Road to the east. On-site structures include a main office building, a storage garage, batch plant equipment, a water tank, and a fuel tank. **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*

Ready-mix concrete is produced within the facility and several forms of stone, sand, and gravel are stored and distributed from within the property boundaries. The Queenstown 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). Normal operating hours are 6am to 4pm and a total of five (5) full-time employees are on schedule with approximately four trucks operating out of this facility on a regular basis.

d. *Existing Drainage and Discharge Conditions*

The site can be divided in half to create two main drainage zones, **DZ-1** and **DZ-2**. Site drainage is generally north to south. **Figure 2** is a facility sketch of existing conditions that include zone locations, patterns of storm water drainage and locations of any discharge points. Additional information about each drainage zone and discharge point can be found in **Table 1**.

Drainage Zone 1 (DZ-1) represents the lower section of the site and is located on the western half of the property. Upon entering the facility from the Joseph Boyle's Road, **DZ-1** can be visually identified as the front section of the property. This includes the main office building, storage garage, parking area, water and fuel tanks, truck scale, batch plant equipment, and small aggregate storage bins. Drainage from the parking, loading, and truck cleaning areas in **DZ-1** flows north to south and is directed to a three tired collection basin where settling and treatment occurs. A Foretrans Model 5000B pH Treatment System is located adjacent to the final collection basin where pH treatment occurs before discharging into a non-jurisdictional drainage swale that feeds the isolated holding pond (former barrow pit) along the southern property border.

Drainage Zone 2 (DZ-2) represents the upper section of the site and is located in the eastern half of the property. Upon entering the facility from Joseph Boyle's Road, **DZ-2** can be visually identified as the area of higher elevation located behind the office and garage. Drainage is directed to a second three tired collection basin via site grading. This area is used mainly for storage of stockpile materials such as sand, gravel, and stone. Drum rinse out is also done into the second three tier collection basin. Water from this basin is directed via a drain pipe to the lower set of collection basins for pH treatment.

Discharge Point 1 (DP-1) is in the southeastern corner of the site. The outfall is discharged to a pond formed in the remains of a former barrow pit.

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 improper loading.
- Fueling Station: This area includes a fueling station in the western portion of the property. Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- Truck Washout Area: Contamination may occur in these areas through an increase of pH in discharge waters and potential for increase sediment discharge.
- Storage Containers: These sea containers serve as storage areas for materials such as admixtures and general site materials. Contamination may occur through fluid leaks from stored materials.
- Stockpile Materials: Several mounds of stockpile material (sand, stone, etc.) are located on-site and stored in bins. Contamination may occur from 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 Queenstown Facility.

- Settling Basins: Two settling basin systems are on-site to collect any material and water to be treated or reused. Settling of solids occurs in both three tier settling basins. Drum wash is collected in the upper basins and exterior truck wash is collected in the lower basins. pH treatment takes place in lower basin before discharge is allowed.
- Concrete Blocks: A series of concrete blocks are situated throughout the site to direct any runoff to appropriate treatment areas, as well to contain sand and aggregate.
- Water Pumping Diversion: Water near the batch plant is pumped along the perimeter and redirected to the rear portion of the site for treatment. This ensures no water leaves the property at unpermitted points. Water is also pumped from the lower basins to the upper basins when extra volume is needed.
- Fortrans Model 5000B pH Control and Monitoring System: The pH water treatment system monitors the pH level of water in the lower basins. When the pH reached a preset threshold, the system utilizes carbon dioxide injected into the process water to lower the high pH of collected process water by the creating a mild carbonic acid. There is one (1) functioning system on-site that treats water prior to discharge at DP-1.

b. *Implementation of Proposed SWM Control Measures*

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

- Fueling Station: The fueling station will be inspected for potential leak hazards and changes will be implemented if necessary. All trucks that use the fueling station are equipped with spill kits in the event of a spill.
- Settling Basins: Upper and lower three-tiered basins collect all water from the site. These basins allow adequate time for solids to settle out before reaching the discharge point. The pH level of the water will be constantly monitored and treated through a pH treatment system located in the lower basin. Some of the collected gray water will be recycled and used for truck and yard cleaning, dust suppression, cooling of aggregates in summer months, and possibly batching concrete. The basins will be cleaned out with a frontend loader on a regular basis to ensure they function properly.
- 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, kitty litter and extra sealable containers will be on-site at all times.
- 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 through employee training and regular site inspection.
- Air Pollution: Dust suppression methods and regular watering will aid in minimizing/eliminating 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 discharge situation. The settling basins, pH treatment system, storage areas, fueling station, and all other pollution prevention implementations will be inspected for effectiveness no less than one time each month (in some months more). Inspection forms will be completed, signed by the plant manager or Environmental Project Manager and kept in the on-site file. A sample inspection form can be found in **Appendix A**.

b. Fortrans Model 5000B Water Treatment System Monitoring

The pH treatment system will be inspected daily. The Plant manager or approved on-site personnel will ensure that the unit is turned on and is functioning correctly. The digital pH reading that is displayed will be recorded in an electronic daily pH log. The system will be serviced monthly, this includes cleaning and calibrating the probe.

c. SWPPP Updates and Amendments

Any changes to operating conditions of the Queenstown 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 Queenstown 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:

- | | | |
|-----------------|-----------------------------|--------------|
| • Jeff Slagle | Concrete Operations Manager | 301-399-2224 |
| • Chris McCoy | Safety Director | 240-299-7172 |
| • Robert Fuller | Regional Concrete Manager | 240-320-6011 |
| • Brian Powell | Plant Manager | 240-682-6499 |

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 or accessible via the batch office computer. Copies of completed inspection forms will also be kept on-site or accessible via the batch office computer 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."

Victor Vilece
Name


Signature

Environmental Project Manager
Title

2/14/20
Date

FIGURE 1
GENERAL VICINTY MAP

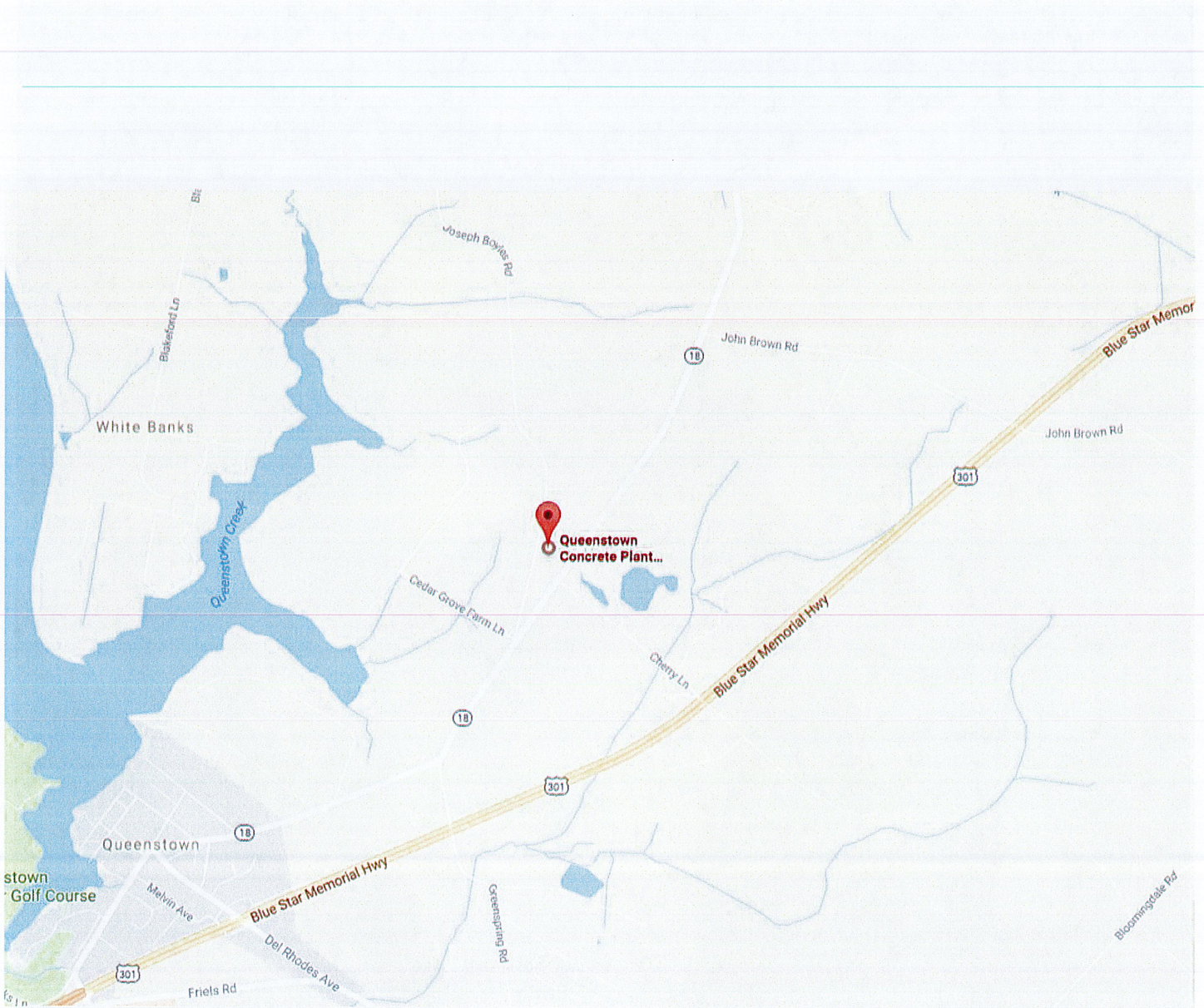


FIGURE 2

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> | Lower/western half of the site. Includes batch office and plant, truck scales, water and fuel tank, dumpster, storage trailer and garage, parking areas, small aggregate bins, and one of two settling basins. A pH watchdog is located adjacent to the settling basin and treats all water collected on-site for pH before discharge. | Diesel Fuel, Hydraulic Oil/Fluids, Sediment, High pH Water | Diesel fuel/fluids may leak from trucks, equipment, and the fueling station. Improper loading may result in sediment discharge. |
| <i>DZ-2</i> | Upper/eastern half of the site. Includes aggregate stock piles, recycle concrete pile, one of two settling basins, drum wash pipe stand. Grading directs water to the basins for settling where it flows, by pipe, to the settling basin in the lower half of the site for pH treatment. | Diesel Fuel, Hydraulic Oil/Fluids, Sediment, High pH Water | Diesel fuel/fluids may leak from trucks and equipment. Sediment can build up in check dams and basins preventing proper settling. Drum wash water from trucks washing out at basins 1 and 2 is a potential for high pH discharge. |
| <i>DP-1</i> | The lone discharge point is located in the southeast corner of the site (DZ-1). Discharge is treated by a pH Watchdog in the lower settling basin before discharge. | Diesel Fuel, Hydraulic Oil/Fluids, 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, Methyldiethanolamine, Calcium Nitrite |
| <i>Daracel</i> | Clear Liquid | Naphthalenesulfonic acid, polymer with formaldehyde |

Go to www.chaneyenterprises.com for chemical Safety Data Sheets

TABLE 3

SWPPP IMPLEMENTATION SCHEDULE

| SWPPP FEATURE | TARGET IMPLEMENTATION TIME FRAME |
|--|----------------------------------|
| <i>Chaney Enterprises Environmental Inspection Program (CEEIP)</i> | Monthly |
| <i>Implementation of SWM Control Measure</i> | See TABLE 4 |
| <i>Employee Training Program</i> | Annual: Quarter 4 |
| <i>Environmental Education Program Evaluation</i> | Annual: Quarter 4 |
| <i>Annual Compliance Assessment</i> | Annual: Quarter 4 |

TABLE 4

SWM CONTROL MEASURES IMPLEMENTATION SCHEDULE

| FACILITY SITUATION | SWM CONTROL MEASURE | TARGET IMPLEMENTATION DATE |
|---|--|----------------------------|
| <i>Water Treatment Basins</i> | Upper basin cleaning | Weekly |
| | Lower basin cleaning | Bi-annually |
| <i>Lower basin berm</i> | Clean accumulated sediments from bermed area | Weekly or as needed |
| <i>Fortrans Model 5000B pH Treatment System</i> | Inspect system for proper flow | Daily |
| | Check Carbon Dioxide level | Daily |
| | Clean/calibrate probe | Monthly or as needed |
| <i>Equipment Inspections</i> | Inspected for fluid leaks and other potential pollutants. | Daily |
| | Preventative maintenance | Monthly/as needed |
| <i>General Housekeeping</i> | Check/clean storage areas, parking areas, yard, and dumpster | Daily |

CHANEY

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? | | Site Corrections: Due Date: Days 1wk 2wk 3wk <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| | 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? | | |

Comments on pH System Conditions:

Inspector

Name: _____ Signature: _____ Date: _____

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

WEB ChaneyEnterprises.com PHONE 888-424-2639

Storm Water Pollution Prevention Plan
Queenstown Ready Mix Concrete Facility

February 2020

APPENDIX B

EMERGENCY CONTACT INFORMATION

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

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

Chris McCoy
240-299-7172

4. CONTACT THESE AGENCIES

NATIONAL SPILL RESPONSE CENTER
(800) 424-8802

APPENDIX D

ENVIRONMENTAL EDUCATION SEMINAR EVALUATION FORM

| Program Feature | Applicable? (Y/N) | Comments |
|--|----------------------|----------|
| Has a date been established for the next annual seminar? | | |
| Have all state and federal regulations been addressed? | | |
| Have employees be informed of any changes to the SWPPP? | | |
| Was there 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? | | |
| Name: _____ Date: _____ | | |
| Signature: _____ | | |
| Title: _____ | | |

APPENDIX D

ENVIRONMENTAL EDUCATION SEMINAR EVALUATION FORM

| Program Feature | Applicable? (Y/N) | Comments |
|--|----------------------|----------|
| Has a date been established for the next annual seminar? | | |
| Have all state and federal regulations been addressed? | | |
| Have employees be informed of any changes to the SWPPP? | | |
| Was there 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? | | |
| Name: _____ Date: _____ | | |
| Signature: _____ | | |
| Title: _____ | | |

APPENDIX E

SWPPP COMPLIANCE ASSESSMENT

| SWPPP Feature | Y/N | Comments |
|---|-----|----------|
| Have monthly inspections been conducted and have form been completed and filed? | | |
| Have daily pH readings been taken and have logs been completed? | | |
| Have BMP's been implemented and has the implementation schedule been adhered to? | | |
| Has employee training been implemented? | | |
| Has the Environmental Education Program been evaluated and forms filed? | | |
| Have all changes to site function been addressed in the SWPPP? | | |
| <div style="display: flex; justify-content: space-between;"> Name: _____ Date: _____ </div> <div style="margin-top: 10px;"> Signature: _____ </div> <div style="margin-top: 10px;"> Title: _____ </div> | | |

APPENDIX F
SWPPP MODIFICATIONS

| Date | Comments | Signature |
|------|----------|-----------|
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