

REDI ROCK

# Environmental Plans and Procedures

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OMM and SWPPP

Permit # VAG110327

**900 N Bayard Ave. Waynesboro, Va. 22980**

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## OMM

### O&M practices for wastewater treatment

Process water is generated from chute rinsing and tool cleaning. This is done in disposable washout bags in the washout area. The bags are disposed of off site.

### Chemical and material storage

The fueling tank is covered and in secondary containment.

A small amount of sand is stored on site in a pile. With some added to the sand box as needed.

Chemicals<sup>i</sup> are stored indoors when not in use.

### Methods for estimating process wastewater flows

Process water is not discharged from this site, so no flow is estimated.

### Solids management and disposal procedures

Subpar blocks stored in the Solids Management Area and are hauled as needed to be crushed and stored with other solids at another facility.

A Sweeper is used as needed, no less than once a week. Swept solids are stored in a three wall bin in the Solids Management Area and are hauled off as needed.

### Temporary and long-term facility closure plans

The site if operating infrequently will have personnel at the facility from time to time to check the condition of the site.

In the event of a long term closure,

- Any raw materials and product would be moved to another Allied Concrete site.
- Facility would be secured.

### Testing requirements and procedures

Quarterly visual monitoring and Annual DMRs are required.

The DMR sample is taken within the first 30 minutes of discharge; a pH reading<sup>ii</sup> is taken and recorded immediately. The sample is also tested for TSS. These findings along with flow calculation are recorded on the DMR and sent into DEQ on an annual basis.

QV monitoring is taken within the first 30 minutes of discharge, the sample is checked for clarity, odor, color, floating solids, settled solids, suspended solids, foam, oil sheen, and other indicators of storm water pollution. Also any probable sources of storm water contamination will be recorded.

## **Recordkeeping and reporting requirements**

The Quarterly Visual Sample is taken once per quarter during a qualifying storm event by a Pollution Prevention Team Leader. The results are recorded on the QV Form and kept with this plan.

Quarterly Site Inspections are conducted once each quarter by the Pollution Prevention Team. Once per year this inspection should be conducted during a qualifying storm event. Results are recorded on the QI form and kept with this plan.

Annual Compliance/Unauthorized Discharge Evaluations are conducted once per year by a Pollution Prevention Team Leader with the Plant manager present if possible. Results are recorded on the Annual Comp Eval form and the Unauth Discharge Eval form and kept with this plan.

DMR samples are taken once per year during a qualifying storm event by the A Pollution Prevention Team Leader. The sample data is recorded on the DMR Sample Log, and a Chain of Custody is completed for it to be delivered to the Lab<sup>iii</sup>, and the Flow Calculation Spreadsheet is used to calculate flow<sup>iv</sup>. Once the results return a DMR form (from the permit) is completed and sent into DEQ no later than the 10<sup>th</sup> of January of the following year. All documents are copied and kept with this plan.

Any person sampling will have completed an Initial Demonstration of Capability for pH, the results of which are kept with this plan.

Annual Thermometer Calibration Records are kept with this plan

Training records and training outline are kept with this plan. DMR's are sent in annually, no later than the 10<sup>th</sup> of January of the following calendar year.

## **Duties and roles of responsible officials**

The records and sampling will be completed by the environmental team designated in the SWPPP.

# SWPPP

## Pollution Prevention Team

### Team Leaders:

**Pete Hawes, Safety Director and Jeff Lamie, Redi Rock Manager**

#### Team Leader Responsibilities

The Team Leader is responsible for overall content and implementation of the SWP3. Potential non-compliance areas or concerns are presented to the team leader by other team members. The Team Leader will ensure that changes to facility drainage, exposed materials, spill response, pollution control measures, inspections and training are incorporated into the plan.

### Team Members:

**Redi Rock Yard Laborers**

#### Team Member Responsibilities

Team members will be responsible for implementing and following the procedures outlined in this plan. This includes checking site condition, reporting any spills or releases with a potential to pollute storm water, directing and performing any housekeeping tasks, and report to the Team Leader any permit compliance issues or recommendations for improved BMPs.

## Potential Pollutant Sources

Activity	Potential Pollutant	BMPs
Block Form Prep	Form Release Agent	Block forms are sprayed in a manner that coats the forms without excess release agent.
Block Casting	Concrete	Concrete is poured into forms and allowed to harden. Production areas are cleaned as needed, no less than once a week.
Block Turning	Sand	Blocks are moved to the sand box to be turned (to prevent damage to the block) before being stored. The Sand Box is a 3 walled container to mitigate sand carry off during a precipitation event.
Fueling	Diesel	Fueling occurs at the fuel pump in the fueling area. Employee is to monitor the fueling to prevent overfill
Sub Par Block Disposal	Hardened Concrete and Dust	When blocks made don't meet specs, they are moved to the Solids Management area which is kept in a 3wall bin. It is disposed offsite as needed.
Chute Cleaning and Tool Cleaning	Concrete	Chutes and tools are cleaned in the Washout area. Wooden boxes are lined with bags designed to hold washout out water. The bags are disposed of offsite as needed.

## Spills and Leaks

- 4/15 - A container of Form Release agent leaked from the valve. The spilled material was contained on site and the end of the valve is now fitted with a cap to prevent future leaks.

## Preventative Maintenance

### Spill Prevention and Response Procedures

Chemicals that have the potential for spilling are stored indoors or in secondary containment as outlined in Chemicals and material storage in the OMM portion. If a spill were to occur, sand would be used to control any spilled chemicals. It would then be disposed of according to the manufactures recommendation, and in compliance with local ordinances. In the event of a spill contact:

Pete Hawes (540) 480-2763      Safety Director  
Clay Hubbard (434) 249-2213      Operations Manager  
Jeff Lamie (434) 962-2437      Redi Rock Manager  
BJ Barbrow (540) 718-4862      Safety/Environmental Manager

## Facility Inspections

Facility Inspections are done quarterly. Any deficiencies noted from these inspections are documented<sup>v</sup>, brought to the attention of the rest of the team, and taken care of in a timely manner.

## Employee Training

Employee training is conducted annually for Redi Rock employees. A training outline will be available with this plan, as well as attendance records.

## Sediment and Erosion Control/Management of Runoff

The site has a drainage area that allows any storm water to filter through a grassy area before reaching a pipe leading to the Outfall.

A Sweeper is used on the lot as needed, but no less than once a week.

## Comprehensive Site Compliance

Comprehensive site compliance evaluations will be conducted annually by a Pollution Prevention Team Leader. Results of the evaluation as well as the results of the Annual sample lab results will be shared with the team, for any deficiencies found a plan of action will be determined and documented<sup>vi</sup> (along with a time frame for correction) with the evaluation.

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<sup>i</sup> Form release agents

<sup>ii</sup> Standards Method 4500–H+B-2011

<sup>iii</sup> EnviroCompliance Laboratories in Verona, Va.

<sup>iv</sup> 
$$\left( \left( \left( 0.9 * 152,461 [\text{Total Area}[\text{ft}^2]] \right) * \text{Rainfall}[\text{ft}] \right) * 7.48 [\text{convert to gallons}] \right) / 1000000 [\text{convert to MGD}]$$

<sup>v</sup> Corrective Action Form

<sup>vi</sup> Corrective Action Form