



**South Carolina Department of Health and Environmental Control  
Compliance Inspection Report  
Permit # SC0047953**

**Inspection Type:** CEI

**Date of Inspection:** 08/30/2012

**Entry Time:** 0955

**Exit Time:** 1115

**Permit Effective Date:** March 01, 2007

**Permit Expiration Date:** June 30, 2011

**Name and Location of Facility:**

AVX CORP/MYRTLE BEACH PLANT  
MYRTLE BEACH, SC 29577  
Horry County

**Name, Telephone No. of On-Site Representative(s):**

Ralph Bryant, 843.946.0326

**Name and Address of Responsible Official/Telephone No.:**

DAVE MARTINELLI  
AVX CORPORATION  
Po Box 867  
Myrtle Beach, SC 29578-0867  
843-946-0506

**Areas Evaluated During Inspection**

Permit

Records/Reports

Facility Site Review

Effluent/Receiving Waters

Collection System

Flow Measurement

Self-Monitoring

Compliance Schedules

Laboratory

Other:

Operation and Maintenance

Sludge Handling/Disposal

**Name of Inspector:** Shauna F Stevens  
EQC

**Region/District:** 06 MYRTLE BEACH

**Name of Region Reviewer:**

**Date:**

**Name of WPC Reviewer:** James W. Dillman

**Date:** September 6, 2012

**Compliance Evaluation Inspection  
AVX CORP/MYRTLE BEACH PLANT  
MYRTLE BEACH, SC  
PERMIT SC0047953**

**Introduction**

On August 30, 2012, personnel from the South Carolina Department of Health and Environmental Control (DHEC) performed a compliance evaluation inspection at AVX Corporation, Myrtle Beach, South Carolina. All findings made during the inspection were discussed with the representatives prior to departing the facility.

The following individuals were present during the inspection:

<b><u>NAME</u></b>	<b><u>ORGANIZATION</u></b>	<b><u>TELEPHONE</u></b>
Ralph Bryant	AVX Corporation	843.946.0326
Shauna Stevens	SC DHEC – Region 6	843.238.4378

**Permit**

AVX Corporation is permitted to discharge treated wastewater and land-apply treated wastewater associated with groundwater remediation by NPDES permit SC0047953. The receiving waterbody is Withers Swash, which flows to the Atlantic Ocean just south of 3<sup>rd</sup> Avenue South in Myrtle Beach, S.C. This permit became effective on March 01, 2007 and expires on June 30, 2011. The permit has expired, but the department is currently in the process of issuing the new permit.

The location and discharge associated with this permit are accurately described in the referenced permit. This facility pumps contaminated groundwater to an air stripper, discharging the treated water to a series of three (3) stormwater ponds on the facility's property. Water from the second stormwater pond is used for land application upon a cumulative of seven (7) acres of landscaped area. Land-application rates are limited to 8,857 gallons per day per acre. This limits daily land-application flow to 61,999 gallons per day. The permit does not limit flow of treated water to the onsite stormwater ponds and Withers Swash.

**Rating:** Satisfactory

**Compliance Schedule, Administrative Order, Consent Order**

This facility is not currently operating under an NPDES compliance schedule.

**Rating:** Satisfactory

**Compliance Evaluation Inspection  
AVX CORP/MYRTLE BEACH PLANT  
MYRTLE BEACH, SC  
PERMIT SC0047953**

**Records and Reports**

Records and reporting were reviewed for July 2012 for the permitted parameters. Records were readily available onsite, going back at least three (3) years, per permit requirement. Sampling and analysis data included dates, times, location, and individual(s) performing sampling / analysis. Reviewed analytical results and recordkeeping were consistent with data submitted on facility's monthly discharge monitoring reports (DMRs).

**Rating:** Satisfactory

**Flow Measurement**

Groundwater production for treatment is measured using a Sensus magmeter. The meter is calibrated annually and the last calibration was completed on April 25, 2012. Following treatment, water gravity flows to an adjacent pump station to be pumped to the first of three (3) in-series ponds. The facility monitors production from the groundwater well to the treatment system *and* flows to multiple portions of the facility's land application sites.

**Rating:** Satisfactory

**Self-Monitoring Program**

This facility is required to sample on the *first Thursday* of each month. When no discharge exists on the first Thursday of the month, the facility must sample when a discharge does exist during that reporting period. If no discharge occurs during the entire reporting period, "No Discharge" should be reported on the monthly DMR. Except for pH, all parameters are sampled at the discharge to the stormwater ponds. pH is sampled at the discharge of the third stormwater pond, when a discharge occurs within a given reporting period.

**Rating:** Satisfactory

**Facility Site Review, CSO/SSO**

A site review was conducted of the facility grounds. This facility appeared to be in good working order, with respect to NPDES requirements. In the event of loss of power to the groundwater remediation system, no water requiring treatment can be withdrawn from the ground. Therefore, no discharge of untreated water can occur due to power loss. According to facility personnel, this system utilizes an interlock, preventing pumps from operating without the treatment unit in operation.

**Rating:** Satisfactory

**Operations and Maintenance**

The operating permit requires that the facility must develop and maintain a complete O&M Manual for waste treatment facilities and the land application system that contains instructions for all

**Compliance Evaluation Inspection  
AVX CORP/MYRTLE BEACH PLANT  
MYRTLE BEACH, SC  
PERMIT SC0047953**

equipment and appurtenances associated with these systems. The manual must contain a general description of the treatment process, operational procedures to maintain compliance with the operating permit, and corrective action to be taken should operational difficulties be encountered. **Based upon a review of the facility's operation and maintenance manual, it is evident that this manual must be updated. Facility personnel must revise the current O&M to include these aforementioned items, as well as "as-built" process and instrument diagrams (P&IDs) for all aspects of the treatment and land application systems and flow measurement as required by Pt. II.E.3 of the NPDES permit.**

**Rating:** Satisfactory

**LABORATORY**

AVX uses a Shealy Environmental Services, Inc. (Laboratory ID #32010) for NPDES testing. This laboratory is currently certified to analyze all NPDES parameters required by this permit. A review of submitted analysis is consistent with those values reported on the reviewed DMRs.

**Rating:** Satisfactory