

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION**

**FACT SHEET**

(pursuant to NAC 445A.236)

**Permittee Name:** Martin Marietta Materials, Inc.  
8200 IH 10 West  
San Antonio, TX 78230

for the:

**Facility Name:** Martin Marietta Materials Spanish Springs Quarry  
11059 State Route 445  
Sparks, Nevada 89436

**Permit Number:** NEV2004529

**Location:**

The Martin Marietta Spanish Springs Quarry property is located in Spanish Springs Valley, north of the City of Sparks accessed off State Route 445 to the west via Sha Neva Road in Washoe County, Nevada, 89436.

Longitude: 119°43'08"W., Latitude: 39°41'00"N.  
Section 15, T. 21N., R. 20E., MDB&M

**Characteristics**

The Spanish Springs Quarry facility produces aggregates including crushed rock, sand, and gravel which require materials washing. Effluent is piped via the Truckee Meadows Water Reclamation Facility effluent pipeline to the facility via the Sha Neva pump station to an onsite effluent storage tank, from which effluent is discharged to an adjacent clarifier. The clarifier water is recycled and used for plant aggregate washing operations and for dust suppression; waste water that is no longer usable is piped to an evaporation pond for disposal. When operations require/demand more water, additional water from an onsite well is blended into the clarifier to supplement the water quantity. Effluent and raw water lines are air-gapped at the discharge point into the clarifier.

Effluent is supplied by the Truckee Meadows Water Reclamation Facility (TMWRF, NEV2003506). All reuse operations are required to be conducted and operated in accordance with the approved Effluent Management Plan and permit conditions.

Martin Marietta Spanish Springs Quarry is not in a Drinking Water Protection area or near a Corrective Action project.

**Flow**

The applicant has applied to renew the discharge of 0.300 MGD for the 30-Day Average flow for the facility. The permit requires the reuse water quantity to be monitored and reported and the site uses and management of effluent are in accordance with the approved Effluent Management Plan. The annual effluent volume is limited to a maximum of 319 acre feet/year for the intended uses at the property.

**TABLE I.1**

<b><u>PARAMETERS</u></b>	<b><u>EFFLUENT DISCHARGE LIMITATIONS</u></b>		<b><u>MONITORING REQUIREMENTS</u></b>	
	<b>30-Day Average</b>	<b>Monthly Maximum<sup>1</sup></b>	<b>Measurement Frequency</b>	<b>Sample Type</b>
<b>Flow Million Gallons per DAY (MGD)</b>	<b>0.300</b>	<b>Monitor &amp; Report</b>	<b>Continuous</b>	<b>Flow Meter</b>
<b>Annual Application Volume<sup>3</sup> (AF)</b>	<b>319 Acre-Foot/Year</b>		<b>Cumulative</b>	<b>Flow Meter</b>
<b>Fecal Coliform<sup>1</sup> (CFU, MPN)</b>	<b>2.2 CFU (MPN)/100 ml</b>	<b>23 CFU (MPN)/100 ml</b>	<b>Weekly</b>	<b>Discrete</b>

- 1 Sample results to be obtained from NEV2003506 and reported by Permittee.
- 2 Monthly Maximum flow based upon the highest usage recorded in a 24-hour period within a month.
3. To be submitted with the 4th Quarter DMR.

CFU = Colony Forming Units, MPN = Most Probable Number, ml = Milliliter

**Schedule of Compliance and Special Conditions**

The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance. Within 45 days of the permit issue date, the Permittee shall submit an updated Effluent Management Plan (EMP), in accordance with WTS-1B – Guidance Criteria for Preparing an Effluent Management Plan. If no updates are needed for the EMP, then please submit that in writing **within 30 days of the permit issue date:**

Nevada Division of Environmental Protection  
Attn: Compliance Coordinator  
Bureau of Water Pollution Control  
901 S. Stewart St, Suite 4001  
Carson City, Nevada 89701

## **General**

The applicant utilizes tertiary treated, denitrified and disinfected effluent reuse water provided by the Truckee Meadows Water Reclamation Facility (TMWRF) for the aggregate washing operations at the Spanish Springs Quarry, and for onsite dust control. TMWRF provides reclaimed water that meets reuse Category B quality per NAC 445A.276, and is denitrified below 10 mg/l Total Nitrogen.

## **Receiving Water Characteristics**

Groundwater in the area is potable (average depth is about 38 feet), as determined from the onsite groundwater well which is the source drinking water and of supplemental water for the property operations. This sealed, gravel packed well is 12.75" in diameter and is cased to 455'; the total well depth is 550'. The Permittee, in the approved Effluent Management Plan (EMP), ensures that the treated denitrified effluent is utilized properly and at the designated rate. No adverse effects to groundwater are expected to occur as a result of this effluent reuse.

## **Changes to Reuse Operation**

The applicant has indicated that a new clarifier was constructed to replace the old clarifier to the south of the office. Also a new 6" HDPE effluent line was installed for the DG plant make up water. These changes reflect the only changes done since the last permit.

## **Procedures for Public Comment**

The Notice of the Division's intent to renew the permit authorizing Martin Marietta Materials, Inc. to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit and Effluent Management Plan, is being sent to the **Reno Gazette-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the publication of the public notice. All comments must be received by **May 24, 2010**. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

### **Proposed Determination**

The Division has made the tentative determination to modify the proposed permit for the remaining time on the existing five (5) year permit which expires **MM/DD/YYYY**.

### **Rationale for Permit Requirements**

Required parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A.275 and 445A.276.

Prepared by: Kristen M Rose  
April 2010