

**DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection**

B410223678

FACILITY: U S GYPSUM CO		SRN / ID: B4102
LOCATION: 1550 Gypsum Road, TAWAS CITY		DISTRICT: Saginaw Bay
CITY: TAWAS CITY		COUNTY: IOSCO
CONTACT: Erin Fox, Accountant		ACTIVITY DATE: 11/07/2013
STAFF: Sharon LeBlanc	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled inspection conducted by AQD District Staff for Gypsum Crushing Facility.		
RESOLVED COMPLAINTS:		

On Thursday, November 7, 2013, AQD District Staff conducted a scheduled site inspection at United States Gypsum Company (USG), Tawas City Alabaster Quarry, located at 1550 Gypsum Road, Tawas City, Michigan (SRN B4102).

One General Permit (306-01) is associated with the referenced facility and was issued on October 9, 2001 for the process of crushing and processing of non-metallic minerals. The referenced permit was modified/updated on March 20, 2008, to reflect the removal of equipment/device IDs Mill01 through Mill17 (crushers and associated conveyors). On May 13, 2009, USG representatives submitted a request for a permit modification to the referenced general permit for the addition of one single roller crusher (PC12) and a crusher loading conveyor (PC11) to the permit. The referenced crusher was relocated from another USG plant to the Alabaster Quarry in Tawas City, Michigan. Site inspection activities were conducted in conjunction with initial start-up of the new equipment onsite.

The facility is listed as category II, minor source, based on fugitive emissions. The 2012 Michigan Air Emission Reports (MAERs) for the facility was received in a timely manner, and a review of the submitta did not identify any omissions or errors.

FACILITY DESCRIPTION

The quarry is located approximately 2-miles west of U.S. 23, in Tawas City, and the immediate vicinity of the active quarry location is relatively undeveloped. USG representatives had previously indicated that the Alabaster quarry operation can produce gypsum rock which results in rock sizes varying from 10 microns to approximately 6-inches or more, which services many different types of industry/uses. Gypsum rock is mined from the quarry using a surface continuous miner. The continuous miner operates in a manner similar to the type of equipment used to remove asphalt paving prior to road construction/resurfacing. Mined material is trucked from the quarry to the process area. Materials are there sorted/screened by size and stockpiled using existing 20-ton hoppers (PC01 and Board01) with associated screens, conveyors and stackers. The new process equipment (PC11 and PC12) allows for resizing of 6-inch and greater sized materials to better meet market demands.

Equipment/device IDs PC06 through PC08, of the General Permit have not been installed to date. Future modifications to the facility may include the removal of the "fines loader" and associated equipment (Board03 through Board06). Which though installed and operated, is no longer in use.

Potential sources of contaminants identified onsite consist of fugitive dust associated with the daily mine and process activities, and include, drop points at conveyors, screens, stockpiles and road way traffic. Emission controls for the permitted process included water sprayers activated by sensors on the hoppers, as well as onsite dust control equipment for roadways and stockpiles.

COMPLIANCE EVALUATION

Operational Status At the time of the inspection, the facility was operating. Both material screening and truck loadout operations were occurring.

No asbestos is mined or handled at the facility.

Visual Emissions -- No visual emissions were noted from stockpiles and roadways was observed. In addition, District staff observed equipment operations for dust. No VE were noted. The facility has a water truck onsite, equipped with a water cannon to spray down stockpiles should it be required.

Record Keeping -- A review recordkeeping was conducted as part of the site inspection. Daily totals are kept for material produced as well as volumes transported offsite. As previously reported transport volumes are recorded as either "transfer"s to their Detroit Michigan Facility, or as an outside shipment. Material produced is determined by the number of loader buckets recorded as being processed for the day. Material volumes for the loader buckets are known quantities. Transport volumes are determined by weight tickets for outgoing trucks. Shipment reconciliations are maintained and submitted for the facility. Monthly and annual production totals were available from the facilities ORACLE system.

Fugitive dust control records are recorded daily in journals. As previously indicated fugitive dust suppression is conducted using a water truck equipped with water cannon.

All hardcopy records for fugitive dust control as well as production records are reported to be stored onsite for a period of 5 years or more.

Summary - Based on the information collected during November 7, 2013, site visit, the facility is being operated in general compliance with its general permit.

NAME

Marion J. L. Stone

DATE

11/21/2013

SUPERVISOR

C. Stone