



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT  
SINCE 1955

August 15, 2007

Shaw Environmental, Inc.  
2360 Bering Drive  
San Jose, CA 95131-1121

Attention: Richard Merrill

**RE: BAAQMD Response to Comments on the Proposed Title V Renewal Permit for Tri-Cities Waste Management**

**ALAMEDA COUNTY**  
Tom Bates  
Scott Haggerty  
Janet Lockhart  
Nate Miley

Dear Mr. Merrill:

The BAAQMD acknowledges the receipt two additional comments submitted by you on behalf of Tri-Cities Waste Management (TCWM) concerning the proposed Title V renewal permit. This letter will serve as our response to those comments prior to the final issuance of the permit.

**CONTRA COSTA COUNTY**  
John Gioia  
Mark Ross  
(Chair)  
Michael Shimansky  
Gayle B. Uilkema

**Comment #1**

The number of vertical gas extraction wells listed in Condition #8366, Part 2 should be changed from 25 to 28 in order to correctly reflect the current authorized total.

BAAQMD Response to Comment #1:

The BAAQMD is aware that well construction activities that have been authorized under a given Authority to Construct (AC) are often completed at various times over the duration of the AC and may not be accurately reflected in the permit. Therefore, the number of wells listed in the final permit will be changed from 25 to 28 as requested.

**MARIN COUNTY**  
Harold C. Brown, Jr.

**NAPA COUNTY**  
Brad Wagenknecht

**Comment #2**

The 150 tons/day limit for VOC laden soil to be used as cover material at the landfill should be removed from proposed Condition #8366, Part 17b. The only necessary monitoring is that required by Regulation 8-40-602 to demonstrate that the VOC laden soil is not considered to be contaminated (i.e. total organic concentration is less than  $\leq$  50 ppm by weight, ppmw).

**SAN FRANCISCO COUNTY**  
Chris Daly  
Jake McGoldrick  
Gavin Newsom

TCWM would prefer to demonstrate compliance with the 300 ppmv VOC limit of Regulation 8-2-301 rather than the 15 pound per day limit.

**SAN MATEO COUNTY**  
Jerry Hill  
(Vice-Chair)  
Carol Klatt

BAAQMD Response to Comment #2:

The primary basis for Condition #8366, Part 17 is a demonstration of compliance with BAAQMD Regulation 8-2-301 when VOC laden soils are to be used as cover material. Regulation 8-2-301 states: "A person shall not discharge into the atmosphere from any miscellaneous operation an emission containing more than 6.8 kg. (15 lbs.) per day and containing a concentration of more than 300 PPM total carbon on a dry basis."

This means that a person can emit up to and including 15 pounds per day of a VOC without having a concentration limit. However, if the emission exceeds 15 lb/day, a demonstration must be made that the emission to the atmosphere does not exceed 300 ppm by volume (ppmv) expressed as methane, C1.

**SANTA CLARA COUNTY**  
Erin Garner  
Yoriko Kishimoto  
Liz Kniss  
Patrick Kwok

**SOLANO COUNTY**  
John F. Silva

**SONOMA COUNTY**  
Tim Smith  
Pamela Torliatt  
(Secretary)

Jack P. Broadbent  
EXECUTIVE OFFICER/APCO

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Your proposal for option b. of Condition #8366 includes no daily VOC limit or VOC concentration monitoring, so it does not demonstrate compliance with Regulation 8-2-301. Monitoring as outlined in Regulation 8-40-602 is not an approved method of demonstrating compliance with 8-2-301. A total organic concentration of 50 ppmw or less in the soil does not guarantee that the emission of those organics to the atmosphere will be equal to or less than 300 ppmv, expressed as C1. The only approved alternative monitoring to demonstrate compliance with the 8-2-301 concentration limit is that specified in 8-40-604 (see Title V: Section IX-A "Subsumed Requirements").

Since the subsumed monitoring requirements have already been built into Part a. of the condition, Part b. is intended to be an alternative to streamline monitoring by automatically assuring compliance with the 15 lb/day limit of 8-2-301 if the amount of VOC laden soil used for cover material is 150 tons/day or less\*.

\*  $(15 \text{ lb POC/day}) / (50 \text{ E-6 lb POC/lb soil}) / 2000 \text{ lb soil/ton soil} = 150 \text{ tons/day (soil)}$

Of course if the organic concentration of the soil is below 50 ppmw, more VOC laden soil could be used for daily cover without exceeding 15 lb/day, but this would require some additional monitoring and recordkeeping. This could be implemented as a third alternative for demonstrating compliance by adding a Part c. to the condition as shown below:

7. Contaminated soil as defined by Regulation 8-40-205 shall not be used as daily, intermediate, or final cover material for landfill waste operations. Soil that contains small amounts of volatile organic compounds (VOC), but does not meet the definition of "contaminated soil" is considered to be "VOC laden soil" and may be used as cover material providing that the Permit Holder complies with the limits and monitoring procedures identified in either subpart a, ~~or subpart b, or c~~ below. (basis: Regulation 8-2-301, Regulation 8-40-301)
  - a. Randomly screen each lot of VOC laden soil to be used as cover material for VOC surface emissions (in such a manner as to be representative of the entire lot) using the testing procedures outlined in Regulation 8-40-604. The Permit Holder shall keep the following records for each lot of soil subject to this requirement:
    - i. The soil lot number as established in part 18m.i. (below).
    - ii. The time and date of the soil screening.
    - iii. The name and affiliation of the person performing the monitoring.
    - iv. The results of the screening and an acknowledgement that the procedures outlined in Regulation 8-40-604 were used.
  - b. Limit the quantity of VOC laden soil used as cover material to 150 tons/day. To demonstrate compliance with this limit, the permit holder shall maintain daily records of the amount (tons) and VOC content (as determined using the testing procedures outlined in Regulation 8-40-602) of all VOC laden soils subject to this requirement.
  - c. Limit the quantity of VOC laden soil used as cover material such that no more than 15 pounds per day of total carbon could be emitted to the atmosphere. In order to demonstrate compliance with this subpart, the Permit Holder shall maintain the following records in a District approved log for all VOC-laden soil used as cover material at the landfill.
    - Record on a daily basis the amount of VOC laden soil accepted for each truckload or each soil lot, as appropriate. This amount (in units of pounds per day) is Q in the equation in subpart a(iii) below.
    - Record on a daily basis the VOC content for each truckload or each soil lot, as appropriate. This VOC Content (C in the equation below) should be expressed as parts per million by weight as total carbon (or C1).
- iii. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:  $E = Q * C / 1E6$

This equation may be applied to each truckload or to each soil lot received per day depending on the amount of soil that is represented by the VOC Content data. If the equation is applied to multiple loads per day, the VOC Emission Rate shall be totaled for all loads received each day.

iv. Summarize all daily emission rates on a monthly and calendar year basis.

Records shall be maintained on site in a District approved log and shall be made readily available to District staff upon request for at least 5 years from the date on which a record was made.

Please provide any additional input regarding the TCWM Title V renewal permit within 30 days, as the comment period has officially ended and the permit is ready to issue. If you have any questions about the BAAQMD response to your comments, please call me at (415) 749-4919 or e-mail at [rhull@baaqmd.gov](mailto:rhull@baaqmd.gov).

Sincerely,



Ted Hull  
Senior Air Quality Engineer