CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM ORDER NO. R7-2008-0003
FOR
RIVERSIDE COUNTY WASTE MANAGEMENT DEPARTMENT, LAND OWNER
AGRI SERVICE, INC., FACILITY OWNER/OPERATOR
COACHELLA LANDFILL COMPOST FACILITY
North of Coachella – Riverside County

Location of Discharge: Section 22, T5S, R8E, SBB&M, North of Coachella- Riverside County

A. MONITORING GENERAL

1. The reporting responsibilities of the Discharger are specified in the California Water Code. This self monitoring program is issued in accordance with Provision No. 1 of Board Order No. R7-2008-0003. The principal purpose of this Self-Monitoring Program is:

   a. To document compliance with Waste Discharge Requirements adopted by the Regional Board.

   b. To facilitate self-policing by the Discharger in the prevention and abatement of pollution originating from the discharge.

   c. To conduct leak detection and water quality analyses.

2. Definition of terms:

   a. Affected Persons – all persons who either own or occupy land outside the boundaries of the parcel upon which CVCF is located that has been or may be affected by the release of leachate or waste constituents (in gas or liquid phase) from CVCF.

   b. Method Detection Limit (MDL) – the lowest constituent concentration that can support a non-zero analytical result with 99 percent reliability. The MDL is laboratory specific and should reflect the detection capabilities of specific procedures and equipment used by the laboratory.

   c. Practical Quantification Limit (PQL) – the lowest constituent concentration at which a numerical concentration can be assigned with a 99 percent certainty that its value is within 10 percent of the actual concentration in the sample. The PQL is laboratory specific and should reflect the detection capabilities of specific procedures and equipment used by the laboratory.

   d. Reporting Period – the duration separating the submittal of a given type of monitoring report from the time the next iteration of that report is scheduled for submittal. Unless otherwise stated, the due date for any given report shall be 30 days after the end of its Reporting Period.

3. Sampling and Analytical Methods:

   a. Sample collection, storage, and analysis shall be performed according to the most recent version of Standard USEPA methods, and in accordance with an approved sampling and analysis plan.

   b. Analyses shall be performed by a laboratory certified by the State of California. Specific methods of analysis must be identified. If methods other than USEPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and approval by the Regional Board Executive Officer prior to use.

   c. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board.

   d. All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

   e. Analytical results falling between the MDL and the PQL shall be reported as “trace”, and shall be accompanied both by the estimated MDL and PQL values for that analytical run and by an estimate of the constituent's concentration.

   f. MDLs and PQLs shall be derived by the laboratory for each analytical procedure, according to State of California laboratory accreditation procedures. These MDLs and PQLs shall reflect the detection and quantitation capabilities of the specific analytical procedure and equipment used by the lab, rather than simply being quoted from USEPA analytical method manuals. If the lab suspects that, due to a change in matrix or other effects, the true detection limit or quantitation limit for a particular analytical run differs significantly from the laboratory-derived MDL/PQL values, the results shall be flagged accordingly, along with an estimate of the detection limit and quantitation limit actually achieved.

   g. All QA/QC data shall be reported, along with the sample results to which it applies, including the method, equipment, and analytical detection limits, the recovery rates, an explanation of any recovery rate that is less than 80%, the results of equipment and method blanks, the results of spiked and surrogate samples, the frequency of quality control analysis, and the name and qualifications of the person(s) performing the analyses. Sample results shall be reported unadjusted for blank results or spike recovery.

   h. Unknown chromatographic peaks shall be reported, along with an estimate of the concentration of the unknown analyte. When unknown peaks are encountered, second column or second method confirmation procedures shall be performed to attempt to identify and more accurately quantify the unknown analyte.

   i. In cases where contaminants are detected in QA/QC samples (i.e. field, trip, or lab blanks), the accompanying sample results shall be appropriately flagged.

   j. The MDL shall always be calculated such that it represents a concentration associated with a 99% reliability of a non-zero result.

B. MONITORING REPORTS AND OBSERVATION SCHEDULE

1. The reporting period for the monitoring program is semi-annual. An annual report summarizing all monitoring conducted the previous year, shall also be submitted to the Regional Board. The submittal dates for each reporting period shall be as follows:

    a. Semi-annual Monitoring Reports

        i. First Semi Annual (January 1, through June 30) – report due by July 31
        ii. Second Semi-Annual (July 1 through December 31) – report due February 15

    b. Annual Summary Report

        i. January 1 through December 31 – report due on March 15 of the following year.

C. REPORTS TO BE FILED WITH THE BOARD

1. The Semi-Annual Monitoring Report shall include, at a minimum, the following:

    a. General Monitoring Information:

        i. The general condition of the berms around the perimeter of the facility.

        ii. The general conditions of the windrows and screening process area including whether leachate has been observed at the piles.

        iii. If a fire occurred during the reporting period, a summary that describes at a minimum: the cause of the fire, estimated volume of water used to suppress the fire, and management practices to control runoff.

        iv. The type and quantity of pesticides or herbicides applied (if any) during the reporting period, to control pests or weeds.

        v. Estimated quantity of green waste and recycled new dry wall received and shipped during the six (6) month reporting period, and estimated quantity in composting process.

        vi. Quantity of grease trap wastes received during the six (6) month reporting period. For each load, provide date and quantity of liquid waste received, and identity of supplier.

        vii. Estimated volume of liquid (if any) present in the plastic tank located at the bottom of the lined sump.

        viii. Estimated volume and physical characteristics of leachate (if any) emanating from windrows or compost piles.

        ix. A description of the general monitoring procedures used, and vapors/liquids (if any) detected by monitoring devices.

b. A Letter of Transmittal summarizing the essential points in each report shall accompany each report submittal. The letter of transmittal shall be signed by a principal executive officer at the level of vice-president or above, or by his/her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter of transmittal shall include:

   i. A discussion of any violations noted since the previous report submittal, and a description of the actions taken or planned for correcting those violations. If no violations have occurred since the last submittal, that should be so stated;

   ii. A progress report on the time schedule and status of corrective actions taken to correct violations (if any) previously identified and reported to the Regional Board; and

   iii. A statement by the official, under penalty of perjury, that to the best of the signer's knowledge, the report is true, complete, and correct.

c. Liner System / Liquid Monitoring

   i. Liquid waste samples shall be collected, if possible, once per quarter from the tank at the bottom of the lined sump, and analyzed for the constituents listed below. If no retrievable liquid is present in the tank during the reporting period, it shall be so noted in the monitoring report and transmittal letter.

      (1) pH;
      (2) Total dissolved solids;
      (3) Specific conductivity;
      (4) Sulfate;
      (5) Nitrate;
      (6) Phosphate;
      (7) Carbonate;
      (8) Total coliform;
      (9) Fecal coliform/e-coli, and
      (10) Oil and Grease

   ii. An additional sample shall be collected from the tank at the bottom of the sump, if possible, during the fourth quarter of each year and analyzed for the constituents listed below. If no retrievable liquid is present in the tank during the fourth quarter reporting period, it shall be so noted in the monitoring report and transmittal letter.

      (1) Heavy Metals (as listed in Part E.10)
      (2) Volatile organic compounds (VOCs)
      (3) Total petroleum hydrocarbons (TPH)

   iii. Sampling results shall provide a detailed description of the sampling procedures including:

      (1) Location sample was collected;
      (2) Number and description of samples, field blanks, travel blanks, and duplicates taken;
      (3) Type of containers and preservatives used;

(4) Date and time of sampling; and
(5) Names and qualifications of sampling personnel

iv. The soil overlying the cover shall be potholed quarterly to a depth of eighteen (18) inches to determine whether moisture is collecting on the liner. The pothole shall be located down-slope of an active windrow or grid, and shall vary for each sampling event. A field log shall document the location of the pothole, and describe the moisture content (i.e. saturated, cohesive, moist, dry) at each six-inch interval starting from one (1) inch below the ground surface.

v. Moisture collection tubes located beneath the liner system shall be inspected quarterly. Any evidence of moisture, such as vapor, condensation, or standing water, shall be documented and reported.

2. An Annual Summary Report shall be submitted to the Regional Board once a year in accordance with the schedule contained in Part B.1.b. The annual report shall contain, at a minimum, the following information:

   a. All analytical monitoring data obtained during the previous year, presented in tabular form.

   b. A comprehensive discussion of the compliance record, and a status report on any corrective actions taken or planned.

   c. A written summary of the condition of the site, any improvements or alterations made or planned, maintenance performed or problems encountered with the liner system, sump, monitoring devices or methods, and sampling procedures.

3. Contingency Reporting

   a. The Discharger shall report, by telephone, any release of liquids (discharge) from the lined composting area or sump within 48 hours of discovery. A written report shall be filed with the Regional Board within seven (7) days, providing at a minimum, the following:

      i. A map showing the location(s) of the release;
      ii. A description of the nature of the release (i.e. cause, pertinent observations, samples taken, analyses performed); and
      iii. Corrective measures proposed or underway.

   b. The Discharger shall report any fire at CVCF to the Regional Board by telephone within 48 hours of the incident. A written report shall be filled with the Board within seven (7) days, providing at a minimum, the following:

      i. A map showing the location(s) of the fire;
      ii. A description of the nature and/or cause of the fire;
      iii. Firewater runoff and/or leachate handling procedures; and
      iv. A description of future fire prevention measures.

c. If either the Discharger or the Regional Board determines there is significant physical evidence of a failure in the sump or liner system, the Discharger shall immediately notify the Regional Board (or acknowledge the Regional Board determination), and submit a written report within seven (7) days providing at a minimum, the following:

   i. A map or diagram showing the location of the failure;
   ii. A description of the nature and cause of the failure; and
   iii. Corrective actions proposed or underway.

d. If at any time the Discharger or Regional Board Executive Officer concludes that a release from the CVCF has impacted areas beyond the facility boundary, the Discharger shall so notify all persons who either own or reside upon the land that is affected (Affected Persons).

e. Initial notification to Affected Persons shall be accomplished within seven (7) days of making this conclusion, and shall include a description of the Discharger's current knowledge of the extent of the release.

f. Subsequent to initial notification, the Discharger shall provide updates to all Affected Persons, including any newly Affected Persons within seven (7) days of concluding there has been a material change in the nature or extent of the release.

D. RECORDS TO BE MAINTAINED

1. Written reports shall be maintained by the Discharger or laboratory, and retained for a minimum of five (5) years. The retention period shall be extended during the course of any unresolved litigation regarding the discharge, or when requested by the Regional Board. Such records shall provide the following for each sample:

   a. Identity of sample and monitoring point from which it was collected, along with the identity of the individual who obtained the sample;

   b. Date and time of sampling;

   c. Date and time analyses were started and completed, and the name of the personnel performing each analysis;

   d. Complete procedure used, including method of preserving the sample, and the identity and volume of reagent used;

   e. Calculations for results; and

   f. Result of analyses and Method Detection Limit (MDL) for each analysis.

E. SUMMARY OF MONITORING AND REPORTING REQUIREMENTS

General Site Information Parameter	Reporting Frequency
1. Condition of perimeter berms	Semi-annual
2. Condition of grids, windrows, screening and processing areas	Semi-annual
3. A description of any fire(s)	
4. Amount and location of pesticides and herbicides applied on site	Semi-annual
5. Quantity of green waste received	Semi-annual
6. Quantities of green waste, and dry wall received, and estimated quantity in composting process	Semi-annual
7. Estimated volume of liquid (if any) in the plastic tank located at the bottom of the lined sump	Semi-annual
8. Physical characteristics and estimated volume of leachate (if any) emanating from windrows or compost piles	Semi-annual
9. Description of general monitoring procedures used, and vapors/liquids (if any) detected by monitoring devices	Semi-annual

Liner System Monitoring Parameter	Monitoring Frequency	Reporting Frequency
10. Pothole liner cover to determine if moisture is pooling above liner	Quarterly	Semi-annual
11. Inspect moisture collection tubes under liner	Quarterly	Semi-annual

Leachate / Site Runoff Monitoring

12. Analyze liquid in sump (if any) present at any time during the reporting period for the following:

Parameter	Units	Monitoring Frequency	Reporting Frequency
a. pH	pH units	Quarterly	Semi-annual
b. Total Dissolve Solids	mg/L	Quarterly	Semi-annual
c. Specific Conductance	micromhos/cm	Quarterly	Semi-annual
d. Sulfate	mg/L	Quarterly	Semi-annual
e. Nitrate	mg/L	Quarterly	Semi-annual
f. Phosphate	mg/L	Quarterly	Semi-annual

g. Carbonate	mg/L	Quarterly	Semi-annual
h. Total coliform	MPN	Quarterly	Semi-annual
i. Fecal coliform/E coli	MPN	Quarterly	Semi-annual
j. Total nitrogen	mg/L	Quarterly	Semi-annual
k. Oil and Grease	mg/L	Quarterly	Semi-annual

13. Analyze liquid in sump (if any) present during the fourth quarter of each year, for constituents in E.9 above, and also:

Parameter	**Units**	**Sampling Frequency**	**Reporting Frequency**
l. Arsenic	ug/l	Annually	Annually
m. Antimony	ug/l	Annually	Annually
n. Lead	ug/l	Annually	Annually
o. Total Chromium	ug/l	Annually	Annually
p. Copper	ug/l	Annually	Annually
q. Selenium	ug/l	Annually	Annually
r. Nickel	ug/l	Annually	Annually
s. Mercury	ug/l	Annually	Annually
t. Total petroleum hydrocarbon	mg/l	Annually	Annually
u. Volatile organic compounds	ug/l	Annually	Annually

Reporting Summary

14. The Discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.

15. Record of monitoring information shall include:

    v. The date, exact location, and time of sampling or measurement(s);
    w. The individual(s) who performed the sampling or measurement(s);
    x. The date(s) analyses were performed;
    y. The individual(s) who performed the analyses;
    z. The analytical techniques or method used; and
    aa. The result of such analyses.

16. Each report shall contain the following statement:

    "I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

17. A duly authorized representative of the Discharger may sign the documents if:

    bb. The authorization is made in writing by the person described above;

    cc. The authorization specifies an individual or person having responsibility for the overall operation of the composting facility; and

dd. The written authorization is submitted to the Regional Board Executive Officer.

18. Monitoring reports shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this monitoring report.

19. Semi-annual monitoring reports shall be submitted to the Regional Board in accordance with the following schedule:

    ee. First Semi-annual (January 1 through June 30) - due July 31

    ff. Second Semi-annual (July 1 through December 31) - due February 15

20. Annual summary report shall be submitted to the Regional Board by March 15 of each year.

21. Submit monitoring reports to:

    California Regional Water Quality Control Board
    Colorado River Basin Region
    730720 Fred Waring Drive, Suite 100
    Palm Desert, CA 92260

for Ordered by: _____
ROBERT PERDUE
Executive Officer

March 19, 2008
Date