

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2010-_____

FOR
CEMEX
KERLINGER PLANT
UNCLASSIFIED LANDFILL AND RECYCLING OPERATIONS
SAN JOAQUIN COUNTY

The Discharger shall comply with this Monitoring and Reporting Program (MRP) and with the Standard Provisions and Reporting Requirements dated 1 March 1991, as ordered by Waste Discharge Requirements Order No. R5-2010-_____. This MRP is issued pursuant to California Water Code Section 13267. Failure to comply with this MRP and the Standard Provisions and Reporting Requirements constitutes noncompliance with Waste Discharge Requirements (WDRs) Order No. R5-2010-_____, and with Division 7 of the California Water Code, can result in the imposition of civil monetary liability. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

GROUNDWATER MONITORING

The Discharger shall monitor groundwater at the landfill annually in accordance with Table 1. Groundwater samples shall be collected from the three existing monitoring wells (DW-1 through DW-3), and any additional wells installed after issuance of this MRP. Sample collection shall follow standard USEPA protocol.

TABLE 1 – GROUNDWATER MONITORING PROGRAM		
<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
Field Parameters		
Depth to Groundwater	Feet (100ths)	Semiannually
Specific Conductance	µmhos/cm	Semiannually
pH	Number	Semiannually
Turbidity	Turbidity Units	Semiannually
Monitoring Parameters		
Total Dissolved Solids	mg/L	Semiannually
Chloride	mg/L	Semiannually
Sulfate	mg/L	Semiannually
Carbonate	mg/L	Semiannually
Bicarbonate	mg/L	Semiannually
Sulfides	mg/L	Semiannually
Dissolved Iron	ug/L	Semiannually
Hexavalent Chromium	ug/L	Semiannually
TPH Oil and Grease	ug/L	Annually

WATER QUALITY PROTECTION STANDARD

The Water Quality Protection Standard shall consist of all constituents of concern, the concentration limit for each constituent of concern, the point of compliance, and all water quality monitoring points. The Water Quality Protection Standard for naturally occurring waste constituents consists of the constituents of concern, the concentration limits, and the point of compliance and all monitoring points. The point of compliance for the concentration limits is a vertical surface located at the hydraulically downgradient limit of the landfill that extends through the uppermost aquifer underlying the landfill.

REPORTING

Semiannual and annual reports shall be submitted to the Board in accordance with the following schedule for the calendar period in which samples were taken or observations made:

<u>Report</u>	<u>End of Reporting Period</u>	<u>Date Report Due</u>
First Semiannual	30 June	31 July
Second Semiannual	31 December	31 January
Annual Report	31 December	31 January

The Discharger shall report field and laboratory test results in semiannual monitoring reports. The Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. A discussion of the monitoring results shall precede the tabular summaries.

Each semiannual and annual report is to include the following information:

- (a) a summary of the facility's overall state of compliance with Waste Discharge Requirements (WDRs) Order No. R5-2010-____ during the prior six months;
- (b) a groundwater contour map showing well locations, hydraulic gradient, and flow direction.
- (c) tabulated **cumulative** monitoring data;
- (d) a copy of the laboratory analytical reports and chain of custody;
- (e) a discussion of the monitoring data including a comparison of the current data with the Water Quality Protection Standard and an assessment as to whether the data indicates impacts to groundwater from waste constituents in the landfill. Also, refer to Provision Nos. 4, 6, and 7 of WDRs Order No. R5-2010-____.
- (f) Estimated volume left in the landfill, and current status of whether waste is currently being added, removed, or both.
- (g) annual reports shall additionally include updated concentration limits for each monitoring parameter using statistical methods in the approved Water Quality Protection Standard report.

The results of any monitoring done more frequently than required at the locations specified in the MRP shall also be reported to the Regional Water Board.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the direct supervision of a Registered Engineer or Professional Geologist and signed and, if required, stamped by the registered professional.

A letter transmitting the monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations. The transmittal letter accompanying monitoring reports submitted under this Order shall contain a statement by the discharger, or the discharger's authorized agent, under penalty of perjury, that reads as follows:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments 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.

The Discharger shall implement the above monitoring program on the effective date of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

Date

WLB