

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 2567
FOR
AZUSA LAND RECLAMATION COMPANY

(File No. 59-102)

Azusa Land Reclamation Company (ALRC) shall implement this Monitoring and Reporting Program beginning in the first quarter immediately following the adoption of these Waste Discharge Requirements.

I. MONITORING

A. VADOSE ZONE GAS MONITORING

The vadose zone gas monitoring system shall consist of a network of organic vapor probes for leak detection of landfill gas, and shall be installed around the perimeter of the waste management unit.

1. Provisions and General Requirements

The vadose zone gas monitoring program must be carried out during the active life of this waste management facility, during closure and postclosure maintenance, and during any interim periods when no wastes are deposited at the waste management facility.

2. Vadose Zone Gas Monitoring Network

ALRC shall submit data from all existing and future monitoring vadose zone gas monitoring probes.

B. GROUND WATER MONITORING

1. Provisions and General Requirements

a. For the purposes of this Program, the terms "Monitoring Well", "Extraction Well", "Observation Well", "Piezometer", and "Sump" are synonymous.

b. The ground water monitoring program must be carried out during the active life of this waste management facility, during the closure and postclosure maintenance, and during any interim periods when no wastes are deposited at the waste management facility.

- c. Analytical results for ground water monitoring shall be submitted with the corresponding monthly waste disposal report. If a well was not sampled (or measured) during the reporting period, the reason for the omission shall be given. If no fluid was detected in a monitoring well, a statement to that effect (in lieu of analyses) shall be submitted.
- d. Monthly observations and measurements of the static water levels shall be made on all monitoring wells, and records of such observations shall be submitted with the monthly reports. All monitoring wells shall be sounded each September to determine total depth. Wells affected by pumping shall be measured prior to pumping insofar as is possible.
- e. Duplicate samples shall be taken for all metals analyses. Unfiltered samples shall be tested for total metals, and field-filtered samples (.45 microns) shall be tested for dissolved metals. Both samples must be preserved with nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.
- f. No filtering of samples taken for volatile organic compounds (VOC's) analyses shall be permitted.
- g. The velocity and direction of ground water flow under the waste management facility shall be determined quarterly for the first year and every third quarter thereafter. In the case where this cannot be determined with meaningful results, a statement to the nature of the ground water flow and general flow characteristic will suffice. ("Third" means the July-to-September quarter.)
- h. Pumping data regarding fluid pumped from each well, including liquid extraction wells, (other than for analytical samples) shall be reported to the Regional Board each month in the monthly waste disposal report and shall include:
 - 1. Date and quantity of fluid pumped, and the method of disposal or reuse purpose, if reused.
 - 2. If no fluid was pumped during the month from any monitoring well, or liquid extraction well, a statement to that effect shall be submitted.

2. Monitoring Well Network

Representative ground water samples shall be obtained from at least the following monitoring wells. ALRC may monitor and submit data from other wells if they so choose.

- a. Existing Wells: ALR-1, ALR-2, ALR-3, ALR-4, ALR-6, ALR-8, ALR-9, ALR-10.
- b. Any future wells installed at the request of the Executive Officer.

3. Sampling and Analyses

- a. Routine quarterly sampling and analyses shall consist of the following parameters:

<u>Parameters</u>	<u>Units</u>
pH ^[1]	pH Units
Electrical conductivity	µmhos/cm
BOD ₅ 20°C	mg/L
COD	mg/L
Total dissolved solids (TDS)	mg/L
Boron	mg/L
Alkalinity ^[1]	mg/L
Ammonia (as N)	mg/L
Bicarbonate (HCO ₂)	mg/L
Calcium	mg/L
Chloride	mg/L
Iron (total and dissolved)	mg/L
Total hardness (as CaCO ₃)	mg/L
CO ₂ ^[1]	mg/L
Fluoride	mg/L
Sulfate	mg/L
Sodium	mg/L
Potassium	mg/L
Nitrate (as N)	mg/L
Total organic carbon	mg/L
Total organic halogens	µg/L

[1] Although field determination is the preferred procedure for pH determination in the presence of dissolved carbon dioxide, pH may be determined in the laboratory if the total elapsed time between sampling and testing is less than 6 hours, and the sample is properly

sealed during transit. Each report shall certify that these conditions were met if laboratory determination of these parameters was done in lieu of field determination.

- b. Routine quarterly sampling and analyses shall consist of the Constituents of Concern (COCs) submitted pursuant to the attached "Standard Provisions for Implementing Subtitle D," and any revisions thereto.

II. REPORTING

A. GENERAL REPORTING REQUIREMENTS

1. The technical reports submitted to the Regional Board shall be prepared under the direct supervision of a California-Registered Geologist or Civil Engineer, or a California-Certified Engineering Geologist.
2. ALRC shall implement this Monitoring and Reporting Program immediately after the adoption of Order No. 95-XXX. Monitoring reports shall be submitted to the Regional Board monthly, due 45 days from the last day of the month of the monitoring period. Subsequent to receipt of any reports required by Order No. 95-XXX, this Monitoring and Reporting Program shall be revised accordingly.
3. ALRC shall submit all monitoring data in hard copy form and also on computer diskette. The monitoring data submitted on diskette should be in ASCII format, and presented in a cumulative, updated form with each submittal. Monitoring data submitted in hard copy form should be in discrete, noncumulative form.
4. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services Environmental Laboratory Accreditation Program, or approved by the Executive Officer. Laboratory analyses must follow methods approved by the United States Environmental Protection Agency, and the laboratory must meet EPA Quality Assurance/Quality Control criteria.
5. For any analyses performed for which no procedures are specified in the EPA guidelines or in this Monitoring Program, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.
6. ALRC may submit additional data to the Regional Board not required by this program in order to simplify reporting to other regulatory agencies.
7. Quarterly monitoring shall be performed during the months of March, June, September and December. Annual monitoring shall be performed during the month of September. In the event monitoring is not performed as above because

of unforeseen circumstances, substitute monitoring shall be performed as soon as possible after these times, and the reason for the delay shall also be given.

8. This Monitoring and Reporting Program includes the attached "General Monitoring and Reporting Provisions". If there is any conflict between provisions stated herein and the "General Monitoring and Reporting Provisions", these provisions stated herein will prevail.
9. Where the units for a parameter are listed as $\mu\text{g/L}$ (ppb), suitable analytical techniques shall be used to achieve this precision. All method detection limits shall be below the current Maximum Contaminant Levels (MCLs) promulgated by the California Department of Health Services, or the minimum limit of detection specified in EPA Methods or Appendix A, 40 CFR 136, if the MCL is not achievable.
10. Analytical data reported as "less than ..." shall be reported as less than a numeric value, or below the limit of detection for that particular analytical method (also give the limit of detection).
11. All analytical samples obtained for this Program shall be grab samples.
12. If ALRC performs analyses for any parameter more frequently than required by this Program using approved analytical methods, the results of those analyses shall be included in the monitoring report.
13. ALRC shall retain records of all monitoring information, including all calibration and maintenance records regarding monitoring instrumentation, and copies of all data submitted to regulatory agencies for a period of at least five years. This period may be extended by request of the Regional Board at any time, and shall be extended during the course of any unresolved litigation regarding all or any part of the entire waste management facility.
14. Records of monitoring information shall include:
 - a. The date, exact place, procedure, and time of sampling or measurement;
 - b. The individual(s) who performed the sampling or measurement;
 - c. The date(s) analyses were performed on the samples;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of the analyses or measurements.

15. ALRC shall comply with the "Standard Provisions Implementing Subtitle D" (Standard Provisions) in determining and reporting if a statistically significant increase is observed for any COC.
16. For any monitored waste parameter which is listed as such by the EPA or by the State of California, ALRC shall compare such data to the most stringent allowable concentrations under all existing Federal and State regulations.
17. ALRC shall comply with the "Standard Provisions for Implementing Subtitle D" in establishing an evaluation monitoring program and a corrective action program, should a statistically significant increase be observed for any COC.

B. WASTE DISPOSAL REPORTING REQUIREMENTS

1. The first report to the Regional Board shall include a map of the site, and shall indicate the area(s) where disposal is taking place or will begin. This map shall be updated monthly, and summarized and submitted with the annual report due March 1.
2. A waste disposal report containing the following information shall be filed with this Regional Board each quarter:
 - a. A tabular list of the estimated average monthly quantities (in cubic yards and tons) and types of materials deposited each month.
 - b. An estimate of the remaining capacity (in cubic yards and tons), and the remaining life of the site in years and months.
 - c. A certification that all wastes deposited were deposited in compliance with the Regional Board's requirements, and that no wastes were deposited outside of the boundaries of the waste management area as specified in the Regional Board's requirements.
 - d. The estimated amount of water used at the waste management unit for dust control etc., during the month. (If a source other than drinking water is used, the sources and amounts of water from each source shall also be reported.)
 - e. Quantities of liquid pumped from the leachate monitoring sumps and/or extraction wells, including dates of removal, and the ultimate point of disposal, if other than an onsite leachate treatment plant. If no liquid was

detected or pumped during the reporting period, a statement to that effect shall be submitted.

3. ALRC shall report all unacceptable (to this site) wastes inadvertently received at this site and their disposition. The following details shall be included:
 - a. The source (if known), including the hauler, of the unacceptable wastes and date received and/or discovered.
 - b. Identification of waste (if known) and the amount of waste.
 - c. The name and address of the hauler who removed the waste from this site.
 - d. The ultimate point of disposal for the waste.
 - e. ALRC's actions to prevent recurrence of the attempted depositing of unacceptable wastes by this source or individual (if applicable).
 - f. If no unacceptable wastes were received (or discovered) during the month, the report shall so state.

C. QUARTERLY REPORTS

- a. Monitoring reports shall be submitted to the Regional Board on a quarterly basis, by the forty-fifth day following the end of the quarter, as shown in the following schedule;

<u>Reporting Period</u>	<u>Report Due Date</u>
January - March	May 15
April - June	August 15
July - September	November 15
October - December	February 15

- b. Quarterly monitoring reports shall contain the following:
 1. results of vadose zone gas monitoring and ground water monitoring;
 2. statement signed by a responsible official representing ALRC stating that all wastes were deposited in accordance with the requirements and provisions of Order 95-XXX. All other signed statements required by Order No. 95-XXX shall also be included.

Azusa Land Reclamation Company
Azusa Landfill
Monitoring & Reporting Program No. 2567

Order No. 95-151

D. ANNUAL REPORTS

Annual summary reports shall be submitted by April 15 of each year. Tabular and graphical summaries of data obtained during the previous four quarterly monitoring periods must be included.

The monitoring reports required by this Program shall be submitted to:

California Regional Water Quality Control Board,
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156
ATTN: Technical Support Unit

These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Board, Los Angeles Region.

Each report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct."

Executed on the day of _____

at _____

(Signature)

(Title)

Ordered by:

Robert P. Ghirelli
ROBERT P. GHIRELLI, D.Env.
Executive Officer

October 30, 1995

/RHN