

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION**

101 Centre Plaza Drive
Monterey Park, California 91754-2156
(213) 266-7500



January 17, 1990

Mr. Charles W. Carry
Chief Engineer and General Manager
County Sanitation Districts
of Los Angeles County
P.O. Box 4998
Whittier, CA 90607-4998

**AMENDED MONITORING AND REPORTING PROGRAM - SCHOLL CANYON LANDFILL
(FILE NOS. 60-117 & CI-2846)**

Monitoring and Reporting Program No. 2846 for the Scholl Canyon Landfill is being amended to incorporate the following clarifications and corrections:

Page T-3: Add Items "O" and "P":

O. For any parameter considered to be a water quality indicator, the discharger shall notify the Board in writing within 7 days, and establish a verification program in accordance with Subsection 2557(g) of Subchapter 15 under the following circumstances:

1. In the event that there is a statistically significant increase in excess of any of the maximum water quality protection standards set forth in Order No. 89-032.
2. In the event that there is a statistically significant increase above background concentrations observed for any parameter considered to be a water quality indicator.

P. For any monitored waste constituent which is listed by the Environmental Protection Agency or by the State of California, the discharger shall compare such data to the most stringent allowable concentrations under all existing federal and state regulations. (If such waste constituents are not considered to occur naturally, the absolute background concentrations for these constituents is zero. The ambient background value for these constituents may be established to be greater than zero in the event that the Board recognizes contamination from upgradient sources.) The discharger shall notify the Board in writing within 7 days, and establish a verification program in accordance with Subsection 2557(g) of Subchapter 15, under the following circumstances:

1. In the event that there is a statistically significant increase in the concentration of any waste constituent above background levels, but below applicable standards. The site will be considered to be leaking waste constituents.

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2. In the event that there is a statistically significant increase in the concentration of any waste constituent above applicable standards. The site will be considered to be leaking prohibited levels of waste constituents.
3. In the event that there is a statistically significant increase in the concentration of any waste constituent in excess of applicable threshold limits for nonhazardous wastes as defined in Title 22, Chapter 30, CCR. The site will be considered to be leaking hazardous wastes.

Page T-5: Section A.5:

Replace existing provision with:

5. Duplicate samples shall be taken for all metals analyses. Unfiltered samples shall be tested for total metals, and filtered samples (no less than .45 microns) shall be tested for dissolved metals. Both samples are preserved with nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.

A copy of the amended Monitoring and Reporting Program is enclosed.

If you have any questions, please call Mercedes A. Murillo at (213) 266-7549.

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

cc: See attached mailing list

Enclosure

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 2846
FOR
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
(Scholl Canyon Landfill)

(File No. 60-117)

I. REPORTING

A. The discharger shall implement this Monitoring and Reporting Program within 30 days after adoption of this Order. Monitoring reports shall be submitted to the Board monthly, by the first day of the second following month. The first monitoring report under this program is due January 1, 1989. Subsequent to receipt of any reports required by Water Quality Monitoring item F-3 of Order No. 88-112, this Monitoring and Reporting Program shall be revised accordingly.

B. Beginning on or before March 1, 1989, the discharger shall submit all monitoring reports in hard copy form and also on computer diskette (5-1/4 inch, 360 or 1200 kilobytes, or 3-1/2 inch, 1.44 or 2.01 megabyte). 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.

C. Each monitoring report must affirm in writing that all analyses were conducted at a laboratory certified for such analyses in accordance with Section 13176 of the California Water Code and in accordance with current EPA guideline procedures contained in 40 CFR Part 136, or as specified in this Monitoring Program.

D. 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. For any analysis performed for which no procedure is 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.

E. The discharger may submit additional data to the Board not required by this Program in order to simplify reporting to other regulatory agencies.

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F. The following items in the attached "General Monitoring and Reporting Provisions" shall be applicable to this program: Items 1, 4, 5, 7, 8 (with the exception that the report shall be due March 1st of each year), 9, 10, 11, 12, 13, 14, and 15.

G. Quarterly monitoring shall be performed during the months of February, May, August, and November. Annual monitoring shall be performed during the month of November. 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.

H. Where the units for a parameter are listed as ug/l (ppb), suitable analytical techniques shall be used to achieve this precision. All method detection limits and practical quantitation limits shall be below the current Action Levels Recommended by the Department of Health Services, Sanitary Engineering Branch or the minimum limit of detection specified in EPA Methods or Appendix A, 40 CFR 136 if the Action Level is not achievable.

I. 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).

J. All analytical samples obtained for this Program shall be grab samples.

K. If the discharger 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.

L. After approval of the required waste load checking program, results of that checking program shall be reported in each monitoring report. In the event that hazardous wastes or other unacceptable materials are detected, the type, source, and disposition of those wastes shall also be reported.

M. CSDLAC 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 430-acre site.

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N. 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.

O. For any parameter considered to be a water quality indicator, the discharger shall notify the Board in writing within 7 days, and establish a verification program in accordance with Subsection 2557(g) of Subchapter 15 under the following circumstances:

1. In the event that there is a statistically significant increase in excess of any of the maximum water quality protection standards set forth in Order No. 89-032.
2. In the event that there is a statistically significant increase above background concentrations observed for any parameter considered to be a water quality indicator.

P. For any monitored waste constituent which is listed by the Environmental Protection Agency or by the State of California, the discharger shall compare such data to the most stringent allowable concentrations under all existing federal and state regulations. (If such waste constituents are not considered to occur naturally, the absolute background concentrations for these constituents is zero. The ambient background value for these constituents may be established to be greater than zero in the event that the Board recognizes contamination from upgradient sources.) The discharger shall notify the Board in writing within 7 days, and establish a verification program in accordance with Subsection 2557(g) of Subchapter 15, under the following circumstances:

1. In the event that there is a statistically significant increase in the concentration of any waste constituent above background levels, but below applicable standards. The site will be considered to be leaking waste constituents.
2. In the event that there is a statistically significant increase in the concentration of any waste constituent

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above applicable standards. The site will be considered to be leaking prohibited levels of waste constituents.

3. In the event that there is a statistically significant increase in the concentration of any waste constituent in excess of applicable threshold limits for nonhazardous wastes as defined in Title 22, Chapter 30, CCR. The site will be considered to be leaking hazardous wastes.

II. Waste Disposal Reporting

A. The first report to the 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. If a new area is started, it shall be updated with the corresponding monthly report.

B. A report containing the following information shall be filed with this Board each month:

1. A tabular list of the estimated average monthly quantities (in cubic yards and tons) and types of materials deposited each month.
2. An estimate of the remaining capacity (in cubic yards and tons) and the remaining life of the site in years and months.
3. A certification that all wastes deposited were deposited in compliance with the Board's requirements, and that no wastes were deposited outside of the boundaries of the waste management area as specified in the Board's requirements.
4. A description of the location of all seeps and springs found at the site (both the nonhazardous waste management area and the former disposal areas) during the reporting period, with an estimate of seep water flow. Reference to previous reports will be acceptable, except that the annual report shall contain complete descriptions. Flow estimates shall be included in each monthly report.
5. The estimated amount of water used at the waste management area for landscape irrigation, compaction, dust control etc., during the month. (If other than drinking water is used, the sources and amounts of water from each source shall also be reported.)

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6. 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.

C. In the event that dewatered sludge is deposited at the landfill, the quantity of dewatered sludge deposited each month must be reported, as noted in IIB above, and bimonthly samples (even numbered months) of incoming sludge shall be obtained and analyzed as required under Monitoring and Reporting Program No. 2294 (Puente Hills Landfill).

D. The discharger shall report all unacceptable (to this site) wastes inadvertently received at this site and their disposition. The following details shall be included:

1. The source (if known), including the hauler, of the unacceptable wastes and date received and/or discovered.
2. Identification (if known) and the amount of waste.
3. The name and address of the hauler (who removes the waste from this site), if different from the source.
4. The ultimate point of disposal for the waste.
5. CSDLAC's actions to prevent recurrence of the attempted depositing of unacceptable wastes by this source or individual (if applicable).

If no unacceptable wastes were received (or discovered) during the month, the report shall so state.

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III. Ground Water Monitoring

A. Provisions and General Requirements

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

2. The ground water monitoring program must be carried out during the active life of this waste management area, during the closure and post-closure care periods, and during periods when no wastes are deposited at the site.

3. 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.

4. 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 November to determine total depth. Wells affected by pumping shall be measured prior to pumping insofar as is possible.

5. Duplicate samples shall be taken for all metals analyses. Unfiltered samples shall be tested for total metals, and filtered samples (no less than .45 microns) shall be tested for dissolved metals. Both samples are preserved with nitric acid; however, care shall be taken that the dissolved metals samples are not exposed to acids until after filtering.

6. The velocity and direction of ground water flow under the waste management unit shall be determined quarterly for the first year and every third quarter thereafter. ("Third" means nine months later, not the July to September quarter.)

7. Pumping data regarding fluid pumped from each well (other than for analytical samples) shall be reported to the Board each month in the monthly waste disposal report and shall include:

- a. Date and quantity of fluid pumped, and the method of disposal or reuse purpose if reused.

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b. If no fluid was pumped during the month from any monitoring well, a statement to that effect shall be submitted.

B. Monitoring Well Locations

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

<u>Background Wells</u>	<u>Hydrogeologic Strata</u>	<u>Screen Length</u>
M19B	deep bedrock	40'
MabA ^[1]	alluvium	(to be determined)
MbcA ^[1]	alluvium	(to be determined)
McdB ^[1]	bedrock	(to be determined)
MdeB ^[1]	bedrock	(to be determined)

[1] Locations and design criteria for wells which will monitor background water quality are presently being developed. Background wells will be incorporated into this Program at a subsequent date.

<u>Downgradient Wells</u>	<u>Hydrogeologic Strata</u>	<u>Screen Length</u>
a) Barrier Area		
M01A	base of alluvium	10'
M02B	approx. 20' into bedrock	20'
M03A	alluvium/bedrock contact(3:2)	5'
M04B	approx. 25' into bedrock	10'
M05A	alluvium	25'
M06B	approx. 40' into bedrock	20'
M07A	base of alluvium	10'
M08B	approx. 20' into bedrock	20'
M09A	alluvium/bedrock contact(3:2)	5'
M10B	approx. 20' into bedrock	20'

b) Glenoaks Boulevard

M17A	alluvium/bedrock	30'
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c) Hollister Terrace

M18A	alluvium	40'
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C. Sampling and Analyses

1. The following are the indicator parameters for this facility: Electrical conductivity, chloride, sulfate, pH, total organic halogen, BOD, and COD.

2. Routine quarterly (monthly for the first year this Program is in effect) sampling and analyses shall consist of the following parameters:

<u>Parameters</u>	<u>Units</u>
pH ^[1]	pH units
Electrical conductivity	umhos/cm
BOD ₅ 20°C	mg/l
COD	mg/l
Total dissolved solids	mg/l
Boron	mg/l
Alkalinity ^[1]	mg/l
Total Hardness (as CaCO ₃)	mg/l
CO ₂ ^[1]	mg/l
Fluoride	mg/l
Chloride	mg/l
Sulfate	mg/l
Iron (total and dissolved)	mg/l
Total organic carbon	mg/l
Total organic halogens	ug/l
Benzene	ug/l
Carbon tetrachloride	ug/l
Trichloroethylene	ug/l
Perchloroethylene	ug/l
Vinyl chloride	ug/l

[1] Field Determination Required

3. Quarterly for the first year that this program is in effect and yearly thereafter (during the month of November) all wells shall be sampled and these samples analyzed for volatiles, semi-volatiles, Pesticides and PCBs using EPA Methods 624, 625 and 8080. Methods 601 and 602 may be substituted for 624. After the first year of monitoring, determinations by Method 8080 will not be required unless warranted by the presence of appreciable contamination. All peaks greater than 10% of the internal standard should be identified and quantified for gas chromatography analyses. The following metals shall also be determined: antimony,

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arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, lead, mercury, manganese, nickel, potassium, selenium, silver, and zinc. Total cyanide and sulfides shall also be determined.

IV. Sump and Barrier Extraction System Well Monitoring

A. Provisions

1. The sump and extraction well monitoring program must be carried out during the active life of this facility and during the closure and post closure care periods.
2. Analytical results for the sump and extraction well monitoring shall be submitted with the corresponding monthly waste disposal report.
3. Provisions A-2, A-3, A-5, and A-7 of the Ground Water Monitoring section above shall be applicable to this section insofar as is possible.

B. Sampling and Analyses

1. Representative ground water samples shall be obtained according to the following schedule from the extraction well system associated with barrier one and from sump 2.

<u>Parameter</u>	<u>Units</u>	<u>Minimum Frequency of Analysis</u>
Flow	gpd	monthly
pH	units	monthly
BOD ₅ 20°C	mg/l	monthly
COD	mg/l	monthly
Total Dissolved Solids	mg/l	monthly
Chloride	mg/l	monthly
Sulfate	mg/l	monthly

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2. Quarterly for the first year that this program is in effect and yearly thereafter (during the month of November) all wells shall be sampled and these samples analyzed for volatiles, semi-volatiles, pesticides and PCB's using EPA Methods 624, 625 and 8080. Methods 601 and 602 may be substituted for 624. After completion of one year of monitoring, determinations by Method 8080 will not be required unless warranted by the presence of appreciable contamination. All peaks greater than 10% of the internal standard should be identified and quantified for gas chromatography analyses. The following metals shall also be determined: antimony, arsenic, barium, beryllium, cadmium, total chromium, cobalt, copper, lead, mercury, manganese, nickel, potassium, selenium, silver, and zinc. Total cyanide and sulfides shall also be determined.

V. Monitoring of Extracted Water Proposed for Reuse Onsite

A. Provisions

1. This monitoring program must be carried out during the active life of this waste management area, during the closure and post-closure care periods, and during periods when no waste is being deposited at the site.
2. Analytical results for wastewater monitoring shall be submitted with the corresponding monthly waste disposal report. If a wastewater source was not sampled or measured during a reporting period, a reason for the omission shall be given. If a wastewater source was not used during a reporting period, a statement to that effect shall be submitted.

B. Sampling and Analyses

1. A sampling station shall be established where representative samples of each effluent source can be obtained. Water samples shall be obtained at a sampling station prior to being mixed with other water.
2. Unless otherwise stated, all metals analyses shall be for total metal. You may analyze and report the dissolved phase also if you so choose.

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3. The following shall constitute the monitoring program for extracted water for use onsite:

<u>Parameter</u>	<u>Units</u>	<u>Minimum Frequency of Analyses</u>
Flow ^[1]	gpd	daily
pH	pH units	quarterly
COD	mg/l	quarterly
Nitrates (as NO ₃)	mg/l	quarterly
Oil and Grease	mg/l	quarterly
BNA ^[2]	mg/l	quarterly
Heavy Metals ^[3]	mg/l	quarterly
Purgeable Organics ^[4]	ug/l	quarterly
Gross Alpha ^[5]	pCi/l	annually
Gross Beta	pCi/l	annually

[1] Total daily and monthly volume of effluent used shall be reported. In the event that the effluent is commingled with other water, the volume of effluent from each source and the total water used shall be reported.

[2] BNA shall include all base/neutral compounds and acid extractable organic priority pollutant compounds.

[3] Heavy metals shall include the sample analyses results of the following total metals: arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, silver, and zinc. Concentrations for each parameter shall be reported.

[4] Purgeable organic compounds shall include all purgeable priority pollutants, plus acetone and 2-butanone.

[5] If gross alpha activity exceeds 5 pico Curies per liter (pCi/l), measurement for radium-226 shall be made. If radium-226 exceeds 3 pCi/l, measurement for radium-228 shall be made.

4. Once each year, during the month of January, all extracted water proposed for onsite use shall be sampled and analyzed for volatiles, semi-volatiles, pesticides and PCBs using EPA methods 624 and 625. Methods 601 and 602 may be substituted for 624. All peaks greater than 10% of the internal standard shall be identified and quantified for gas chromatography analyses. Total cyanide and sulfides shall also be determined.

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C. Reporting of Water Used Onsite

1. Within 30 days from the effective date of this Order, the discharger shall submit to this Board a technical report concerning the complete description of each existing and/or proposed effluent source sampling station together with the data to support the conclusion that the proposed station will provide samples representative of the entire flow from that source.

2. Each monitoring report shall include:

a. A statement that, during the reporting period, all wastewater was used only as specified, and for the uses specified, in the waste discharge requirements.

b. Approximate acreage receiving reused water for irrigation.

c. Analytical results for wastewater shall be submitted with the corresponding monthly report. If a wastewater source was not sampled or measured during the reporting period, the reason for the omission shall be given. If no wastewater was extracted or used from a source, a statement to that effect shall be provided in lieu of analyses.

d. Records of operational problems, mechanical breakdowns, and diversions to emergency storage or disposal associated with any violation, or potential violations of waste discharge requirements.

e. Any corrective actions taken.

3. If all or a portion of the water was not reused because of a failure to meet the limits specified in the waste discharge requirements, the report shall so state and identify the disposition of the effluent.

Ordered By: Robert P. Ghirelli
Executive Officer

Date: January 17, 1990