STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
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December 10, 1993

Mr. Robert Warburton
Irwindale Plant Manager
Livingston-Graham, Inc.
16080 Arrow Highway
Irwindale, CA 91706-0943

WASTE DISCHARGE REQUIREMENTS & MONITORING AND REPORTING PROGRAM - IRWINDALE QUARRY LANDFILL - IRWINDALE (File No. 78-023) (CI-6446)

Reference is made to our letter of November 10, 1993, which transmitted a copy of tentative waste discharge requirements for the disposal of inert wastes at the Irwindale Quarry Site.

Pursuant to Division 7 of the California Water Code, this California Regional Water Quality Control Board, at a public meeting held on December 6, 1993, reviewed the tentative Order, considered all factors in the case, and adopted Order No. 93-076 (copy attached) relative to this discharge.

The "Monitoring and Reporting Program" requires you to implement the monitoring program on the effective date of the Order. Your first monitoring report under this Program is due by April 15, 1994. All monitoring reports should be sent to the Regional Board, ATTN: TECHNICAL Support Unit.

Please reference all technical and monitoring reports to Compliance File No. CI-6446. We would appreciate it if you would not combine other reports, such as progress or technical reports, with your monitoring reports, but would submit each report as a separate document.

As the Board adopted the tentative requirements without changes, we are sending the final copy only to the applicant. For those on the mailing list, please add Order No. 93-076 to the tentative Order previously sent to you. A copy of the final Order as adopted will be furnished to anyone who requests it.

If you have any questions, please call Mr. Don Peterson at (213) 266-7578.

Rodney H. Nelson

RODNEY H. NELSON, Head
Landfills Unit

cc: See attached mailing list
Enclosures

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STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. 93-076

WASTE DISCHARGE REQUIREMENTS
FOR
LIVINGSTON-GRAHAM
A DIVISION OF BEAZER WEST, INC.

(IRWINDALE QUARRY LANDFILL)
(File No. 78-023)

The California Regional Water Quality Control Board, Los Angeles Region finds:

1. Livingston-Graham (the Discharger), a division of Beazer West, Inc., owns a 485-acre parcel that includes a sand and gravel processing plant, and an inert waste disposal facility. The site is located at 16080 Arrow Highway, Irwindale, California.

2. The Discharger filed a Report of Waste Discharge (ROWD) with this Board, which proposes to expand landfilling operations and to change the location and boundaries of the waste at the excavated part of the quarry, in compliance with the approved 1972 and supplemental 1990 Irwindale Plant and Reclamation Plan Requirements.

3. The Discharger currently owns and operates two inert waste disposal sites within the quarry under separate Waste Discharge Requirements Order No. 86-40 and Order No. 86-45. One site, the Irwindale Dike (Order No. 86-40), is an approximately 7-acre crescent-shaped landfill which is designed to build up the level of an existing dike. Wastes are deposited only when the dike needs repair due to erosion. The second site, the inactive Irwindale Plant Dump (Order No. 86-45), is located in the southern part of the quarry, and Waste Discharge Requirements were issued for the development of a parking lot for planned offices near Durkee Street in Arcadia, California (Figure 1). The Waste Discharge Requirements were modified in February, 1991, Order No. 86-45, to allow the Discharger to maintain flood control dikes on the boundaries of the property.

4. The Discharger is preparing to begin a new phase of operations at the site which will consist of the placement of inert solid waste materials, as engineered fill, as part of a reclamation plan. The interior part of the site will be excavated below the water table to create a recreation lake. In addition, the

Discharger plans to backfill three areas as part of the final reclamation. These areas include the western extremity of the site, which will become a low profile industrial area; the southern peninsula, which will extend out into the lake and become a public recreational facility; and the northern peninsula, which will occupy the northeast or northwest corner of the site as a retail commercial complex.

5. The Discharger will continue to maintain dikes around the silt ponds to control washwater from their gravel-washing operations. Surface water runoff from the 605 Freeway will be prevented from entering the site.

6. In 1986, a ground water monitoring program was implemented and remains in effect. A review of the monitoring data and compliance inspection reports indicates that the landfill is not adversely affecting ground water quality.

7. The post-closure land-use of this landfill will include light industrial use and a recreational lake.

8. This is an existing facility and, as such, is exempt from the provisions of the California Environmental Quality Act, in accordance with the Title 14, California Code of Regulations, Chapter 3, Section 15301.

9. The site overlies the San Gabriel Valley Ground Water Basin in the Lower Canyon Hydrologic Subarea within the Los Angeles River Basin.

10. The Regional Board adopted a revised Water Quality Control Plan for Los Angeles River Basin on June 3, 1991. This revised plan contains water quality objectives for the San Gabriel Valley Ground Water Basin. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.

11. Ground water within the ground water basin is beneficially used for municipal and domestic supply, agricultural supply, industrial service and process supplies, and freshwater replenishment.

The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.

The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Livingston-Graham, a Division of Beazer West, shall comply with the following:

A. Discharge Specifications

1. Wastes deposited at this site shall be limited to inert wastes only (non water-soluble, nondecomposable inert solids) such as, but not limited to:

   a. Earth, rock, gravel, and concrete,
   b. Glass,
   c. Brick,
   d. Broken asphalt (asphalt shall not be dumped into standing water nor shall it be placed below the highest anticipated ground water elevation),
   e. Inert aggregate mining wastes.

2. No hazardous wastes, designated wastes, or liquid wastes shall be deposited at this site.

3. No nonhazardous solid wastes (decomposable organic refuse, such as, but not necessarily limited to, ordinary household and commercial refuse, tin cans, metals, paper and paper products, cloth and clothing, wood and wood products, lawn clippings, sod, shrubbery, hair, hide, bones, dead animals, roofing paper, tar paper, unquenched ashes mixed with refuse, market refuse, garbage, etc.) shall be deposited at this site.

4. No asbestos or asbestos products shall be deposited at this site.

5. No materials of a toxic nature such as insecticides, poisons, or radioactive materials shall be deposited at this site.

6. Wastes deposited at this site shall be confined thereto, and shall not be permitted to enter drainage ditches or watercourses.

7. No wastewater or storm water shall leave this site except as permitted by a National Pollutant Discharge Elimination System (NPDES) permit issued in accordance with the Federal Clean Water Act and the California Code of Regulations.

8. Erosion of deposited materials by surface flow shall be prevented.

9. Neither the discharge nor any treatment of wastes shall cause pollution or nuisance.

10. The Discharger shall remove and relocate, at a legal disposal site, any wastes which are discharged in violation of these requirements.

B. Water Quality Protection Standards

1. In accordance with Title 23, California Code of Regulations, Chapter 15, Section 2550.2 (Chapter 15), the following water quality protection standards are established for this facility:

Parameter	Units	Maximum Value
Total dissolved solids	mg/l	450
Sulfate	mg/l	100
Chloride	mg/l	100
Boron	mg/l	0.5

2. If any waste constituents are not considered to occur naturally, the absolute background concentrations for these constituents shall be zero. The ambient background value for a constituent may be established to be greater than zero if this constituent is present upgradient.

3. If a concentration of a waste constituent is statistically significantly above background concentrations, one of the following will apply:

   a. If this concentration is above background concentrations, but below the maximum water quality protection standard, the site will be reported to be leaking that waste constituent.

   b. If this concentration is above the maximum water quality protection standard, the site will be reported to be leaking a prohibited level of that waste constituent.

   c. If this concentration is above an attenuated waste concentration derived from the corresponding level listed in Article 11, Chapter 30, Title 22, of the California Code of Regulations, the site will be reported to be leaking hazardous waste.

4. Water quality protection standards may be modified by the Board based on more recent or complete monitoring data, changes in background water quality, or for any other valid reason.

5. The compliance point(s) where the water quality protection standards shall apply shall be the downgradient edges of the waste management units.

6. The compliance period for which the water quality protection standards are applicable shall be the entire active life of the site and during the closure and post-closure maintenance periods.

7. The Discharger shall use the statistical procedures contained in Chapter 15, Section 2550(e)(7) to determine if there is a statistically significant spatial increase for any indicator parameter or waste constituent. Upon approval of the Executive Officer, alternative statistical procedures may be used.

C. Provisions

1. The Discharger shall take any and all necessary measures to prevent unauthorized disposal of wastes at this site by instituting a waste-load-checking program. A workplan outlining this program must be submitted to the Executive Officer for approval within ninety (90) days after adoption of this Order.

2. The Discharger shall maintain a copy of this Order at the site so as to be available at all times to personnel operating the site.

3. The Discharger shall file with this Regional Board a report of any material change or proposed change in the character, location, boundaries, or quantity of this waste discharge, at least 120 days prior to the date of such proposed change.

4. In the event of any change in name of operator or in control or ownership of land or waste disposal facilities owned or controlled by the Discharger, the Discharger shall:

   a. Notify this Regional Board in writing of such a change; and

   b. Notify the succeeding owner or operator by letter, a copy of which shall be filed with this Regional Board, of the existence of this Order.

5. Ninety (90) days prior to cessation of disposal operations at this site, the Discharger shall submit a technical report to the Regional Board describing the methods and controls to be used to assure protection of the quality of receiving waters during final operations and with any proposed subsequent use of the land. Such methods and controls shall comply with the waste discharge requirements. The report shall be prepared under the direct supervision of a California-registered

geologist or engineer, or a California-certified engineering geologist.

6. This Regional Board considers the property owner to have continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.

7. These requirements do not exempt the operator of this waste disposal facility from compliance with any other laws, regulations, or ordinances which may be applicable; and they leave unaffected any further restraint on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.

8. In accordance with the California Water Code, the Discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted.

9. According to Section 13263 of the California Water Code, these requirements are subject to periodic review and revision by this Regional Board.

D. Recission

1. Order Numbers 86-40 and 86-45 are hereby rescinded.

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on December 6, 1993.

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD,
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. 6446
for
LIVINGSTON-GRAHAM
A Division of Beazer West, Inc.

(Irwindale Quarry Landfill)
(File No. 78-023)

I. Reporting

A. The Discharger shall implement this monitoring and reporting program at the first quarter immediately following adoption of these Waste Discharge Requirements.

B. Monitoring reports shall be submitted by the dates in the following schedule:

1. Quarterly monitoring reports for wastes shall be submitted as follows:

Reporting Period	Report Due
January - March	April 15
April - June	July 15
July - September	October 15
October - December	January 15

If no wastes are disposed of during the quarter, the report shall so state.

2. All ground water monitoring wells must be sampled semi-annually, with reports due on July 15th and January 15th of every year.

3. All effluent monitoring stations must be sampled semi-annually with reports due on July 15th and January 15th of every year.

C. The ground water monitoring and sampling stations shall consist of four wells:
1S/11W-01M, 1S/11W-12C02, 1S/11W-12C01, and 1S/11W-11C04

D. The effluent sampling station shall consist of a station at the settling pond.

E. Each monitoring report must affirm in writing that:

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 (EPA), and the laboratory must meet EPA Quality Assurance/Quality Control criteria. All analytical data must be presented on the enclosed Laboratory Report Forms.

F. For any analyses performed for which no procedure is specified in the EPA guidelines, or in this Order, the constituent or parameter analyzed, and the method or procedure used, must be specified in the report.

G. The monitoring report must also include the following:

1. Sampling protocol used.

2. If any required samples were omitted during the reporting period, a statement to that effect shall be made.

3. Ground water elevations measured to the nearest 0.01 foot relative to mean sea level.

4. An evaluation of the results of the testing, signed by a California-registered geologist or engineer or California-certified engineering geologist.

H. Where the units for a parameter are listed as µg/L (ppb), suitable analytical techniques shall be used to achieve this precision. All minimum limits of detection shall be below the current Action Levels recommended by the California Department of Health Services, or the minimum limit of detection specified in EPA Methods, or Appendix A, of 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.

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

K. 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 or other

unacceptable wastes are detected, the type, source, and final disposition of those wastes shall also be reported.

II. Waste Disposal Reporting

A. The first report to the Regional Board shall include a map of the site indicating the areas that are currently being filled.

B. A report containing the following information shall be filed with this Regional Board for each calendar quarter:

1. A tabular list of the estimated average monthly quantities (in cubic yards) and types of materials deposited each month. If no wastes were deposited during the quarter, the report shall so state.

2. The areas of the site where the above materials were deposited. If a new area has been started, submit another map of the site, and indicate the new areas being filled and any recently completed areas.

3. An estimate of the remaining life of the site in years and months.

4. A certification that all wastes deposited were in compliance with the Regional Board's requirements and that no wastes were deposited outside of the boundaries of the site, as specified in the Regional Board's requirements.

III. Ground Water Monitoring

A. The ground water monitoring program must be continued even during periods when no wastes are deposited at the site.

B. All of the ground water monitoring wells shall be sampled semi-annually for the following indicator parameters:

Parameter	Units
pH: field and laboratory	pH units
electrical conductivity	μmhos/cm
alkalinity	mg/L
bicarbonate (as HCO_3)	mg/L
carbonate (as CO_3)	mg/L
carbon dioxide	mg/L
chemical oxygen demand	mg/L

Parameter (continued)	Units
total hardness (as $CaCO_3$)	mg/L
total dissolved solids	mg/L
boron	mg/L
cadmium	µg/L
chloride	mg/L
chromium	µg/L
iron	mg/L
lead	µg/L
nickel	mg/L
nitrate	mg/L
sulfate	mg/L
benzene	µg/L
PCE (perchloroethylene)	µg/L
TCE (trichloroethylene)	µg/L
vinyl chloride	µg/L

In addition, the first analyses shall include determinations for all EPA priority pollutants.

IV. EFFLUENT MONITORING

This monitoring program includes the attached "General Monitoring and Reporting Provisions."

A. The effluent water monitoring program must be continued even during periods when no wastes are deposited at the site.

B. The sampling station located at the settling pond shall be sampled semi-annually for the following indicator parameters:

Parameter	Units
pH: field and laboratory	pH units
electrical conductivity	µmhos/cm
alkalinity	mg/L
bicarbonate (as HCO_3)	mg/L
carbonate (as CO_3)	mg/L
carbon dioxide	mg/L
chemical oxygen demand	mg/L
total hardness (as $CaCO_3$)	mg/L
total dissolved solids	mg/L
cadmium	µg/L
chloride	mg/L
chromium	µg/L
iron	mg/L
lead	µg/L

Parameter (continued)	Units
nickel	mg/L
nitrate	mg/L
sulfate	mg/L
benzene	µg/L
PCE (perchloroethylene)	µg/L
TCE (trichloroethylene)	µg/L
vinyl chloride	µg/L

In addition, the first analyses shall include determinations for all EPA priority pollutants.

Ordered by: Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

Date: December 6, 1993