

7173

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

ORDER NO. 92-042

WASTE DISCHARGE REQUIREMENTS
FOR
ARCO Products Company
(File No. 92-01)

RESCINDED

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

1. ARCO Products Company (ARCO) has filed a report of waste discharge with this Board.
2. Former ARCO Service Station #1361 is located at 6739 West Olympic Boulevard in Los Angeles, California. The property is owned by Ebby and David Tabari.
3. The station facilities were demolished, and four 10,000-gallon underground gasoline storage tanks and one 200-gallon waste oil storage tank were removed in December 1990.
4. A soil and ground water contamination problem associated with petroleum hydrocarbon was identified during subsequent site investigation. The source of hydrocarbon contamination appears to be due to the unauthorized release of petroleum products from underground storage tanks and/or piping system. Additional offsite investigation is in progress to define the extent of the dissolved hydrocarbon plume downgradient. Free gasoline product was reported in nine out of seventeen existing ground water monitoring wells. The depth to ground water is approximately 17 feet below grade. As of October 1990, approximately 1,140 gallons of free product have been recovered.
5. ARCO has submitted a remedial action plan for soil and ground water cleanup. The proposed remedial plan includes a vapor extraction system, free product recovery and ground water remediation system.
6. ARCO proposes to install an in-situ vapor extraction system to treat the hydrocarbon-contaminated soil. Ground water will be pumped from three proposed extraction wells (GEW-1, GEW-2, and GEW-3), by pneumatically-operated ejector pumps to an aboveground product/water separator. The separated product

May 1, 1992

will be periodically removed from the tank and transported to a recycling facility. Contaminated ground water containing dissolved hydrocarbons will pass through an above-ground bioreactor and two activated carbon filter units. A total of 28,800 gallons per day will be treated by this treatment process.

7. ARCO Products Company proposes to inject 7,200 gallons per day (gpd) of treated waste water into the upper aquifer via an infiltration gallery and/or wells to control and enhance the clean up of the gasoline plume.
8. The balance (21,600 gpd) of the filtered ground water will be discharged into a storm drain catch basin. This discharge is subject to a separate waste discharge requirements (National Pollutant Discharge Elimination System Permit) adopted by this Board.
9. The site is located within the Coastal Plain Subunit. The Board adopted a revised Water Quality Control Plan for the Los Angeles River Basin on June 3, 1991. The Water Quality Control Plan contains water quality objectives for ground water in the Coastal Plain Subunit.
10. The beneficial uses of the ground water in the Los Angeles River Basin Coastal Plain Subunit are: municipal, agricultural supply, industrial service and industrial process water supply. The requirements contained in this order, as they are met, will conform with the goals of the Water Quality Control plan.
11. This action is being taken for the protection of the environment and as such is exempt from the provisions of the California Environmental Quality Act. (Public Resource Code commencing with Section 21100) in accordance with Section 15308, Chapter 3, Title 14, of the California Code of Regulations.

The Board has notified the discharger, interested agencies, and persons of its intent to prescribe waste discharge requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

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

IT IS HEREBY ORDERED, that ARCO shall comply with the following:

A. WASTE DISCHARGE REQUIREMENTS

1. Wastes discharged shall be limited to treated ground water only as proposed, and shall not exceed the proposed injection rate of 7,200 gallons per day.
2. The discharge of an effluent in excess of the following limits is prohibited:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>DISCHARGE LIMITATIONS MAXIMUM</u>
Oil and grease	mg/l	10.0
Benzene	µg/l	1.0
Toluene	µg/l	10.0
Xylenes (total)	µg/l	10.0
Ethylbenzene	µg/l	10.0
Ethylene dibromide	µg/l	0.02
Lead (total)	µg/l	50.0
Nitrate (as NO ₃)	mg/l	45.0

3. Wastes shall be discharged only at the site covered by these requirements and only on property owned or controlled by the discharger.
4. The treated water shall be injected only into the upper aquifer from which the water was extracted.
5. Neither the disposal nor the handling of wastes shall cause a condition of pollution or nuisance.
6. This discharge shall not cause a violation of any applicable water quality standard for ground waters adopted by the Regional Board or the State Water Resource Control Board.
7. The pH of wastes discharged or reclaimed shall at all times be within the range of 6.0 to 8.5 .
8. The temperature of wastes discharged or reclaimed shall not exceed 100°F.
9. The discharge of any wastes to the ground surface, any water-course, drainage ditch, or any tributary to surface

waters, without a Board permit, is prohibited at all times.

10. The discharge of any separately extracted/recovered hydrocarbons to the ground or any watercourse or tributary to surface water is prohibited.

B. PROVISIONS

1. A copy of this permit shall be maintained at the discharge facility, to be available at all times to operating personnel.
2. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another nor protect the discharger from his liabilities under federal, state and local laws, nor guarantee the discharger a capacity right in the receiving ground waters.
3. In the event of any change in name, ownership, or control of these facilities, the discharger shall notify this Board in writing and shall notify the succeeding owner or operator of the existence of this order by letter, copy of which shall be forwarded to the Board.
4. In accordance with Section 13260(b) of the California Water Code, the discharger shall file a report of any material change or proposed change in the character, location or volume of the discharge. A report of waste discharge is not required for additional extraction or injection well(s) added to this system but the Executive Officer shall be so notified by letter in advance and his approval obtained.
5. These requirements do not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable to the discharge.
6. If there is any storage of hazardous or toxic materials or hydrocarbons at this facility, and if the facility is not manned at all times, a 24-hour emergency response telephone number shall be prominently posted where it can easily be read from the outside.

7. The Regional Board and other authorized representatives shall be allowed:
 - (a) Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
 - (b) Access to copy any records that are kept under the conditions of this order;
 - (c) To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - (d) To photograph, sample, and monitor for the purpose of assuring compliance with this Order, or as otherwise authorized by the Clean Water Act and the California Water Code.
8. In the event the discharger is unable to comply with any of the conditions of this Order due to:
 - (a) Breakdown of waste treatment equipment;
 - (b) Accidents caused by human error or negligence;
 - (c) Other causes such as acts of nature; or
 - (d) Facility operations.

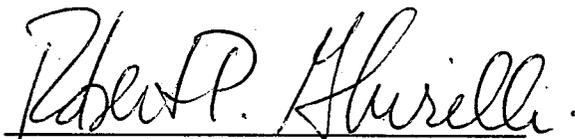
The discharger must notify this Board by telephone within 24 hours of the incident and confirm it in writing within one week of the telephone notification. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.

9. The discharger shall at all times properly operate and maintain all treatment facilities, discharge structures, waste water conveyance systems, and any associated equipment.
10. The discharger shall provide copies of any permits to this Regional Board that may be required by other

agencies for operation of any pollution abatement equipment operated onsite.

11. In accordance with Section 13267 of the 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.
12. This Order may be modified, revised, revoked, reissued, or terminated for cause by this Board. The discharger shall furnish the Board any information the Board may request to determine whether cause exists for any such action.
13. This Order is not transferable to any person except after notice to Regional Board.
14. This Order expires on May 10, 1997.

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 June 1, 1992.



Robert P. Ghirelli, D.Env.
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. 7173
FOR
ARCO PRODUCTS COMPANY
Former ARCO Service Station #1361
FILE NO. 92-01

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

1. Sampling station(s) shall be established for the discharge and shall be located where representative samples of treated ground water can be obtained prior to injection.
2. Effluent shall be sampled weekly following installation and start up of the ground water extraction and treatment system. Weekly sampling of effluent shall continue for at least 12 months, or until such time that the Executive Officer approves a change in the sampling frequency. At the end of three months, following a cleanup system evaluation by Board staff, the sampling frequency may be reduced to monthly intervals. Following six months of monthly sampling, the frequency of analysis shall revert to quarterly subsequent to review and evaluation of the compliance history.
3. Ground water samples shall be collected quarterly from each monitoring well and analyzed as specified below.
4. Ground water level measurements shall be made in all monitoring wells, prior to sampling, each time the wells are sampled.
5. All water samples shall be analyzed for the following constituents by EPA methods listed:

<u>Constituent</u>	<u>EPA Method</u>
Benzene	602
Toluene	602
Ethylbenzene	602
Total Xylenes	602
Ethylene dibromide	601 or 504
Total lead	7420 or 7421
Total petroleum hydrocarbons	8015M
Oil and grease	413.2
pH	150.1
Temperature	170.1
Nitrate	352.1
Total dissolved solids	160.3
Phosphorus	365.1
Chloride	325.1

7. ARCO shall submit monitoring reports to the Board on a quarterly basis by the dates as specified below:

<u>Monitoring Period</u>	<u>Report Due</u>
January - March	April 30
April - June	July 31
July -September	October 31
October - December	January 31

8. The reports shall contain the following information:
- Total volume of water in gallons per day extracted from and injected into the same aquifer;
 - Total volume of treated water discharged into the storm drain under the existing NPDES permit.
 - Sampling points and the analytical test results of treated ground water prior to injection and from ground water monitoring wells;
 - The EPA analytical test methods employed;
 - Water level gauging data at each monitoring well location and free product thickness if any;
 - In the event, that no ground water was extracted or injected during a reporting period, the report shall so state.
9. The discharger shall maintain all sampling and analytical results, including strip charts, date, exact location, and time of sampling, date analysis were performed, analyst's name, analytical procedures used, and results of analysis. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board.
10. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed, together with a timetable, to bring the discharge back into full compliance with the requirements at the earliest time.

11. All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency unless other test procedures have been specified in this monitoring program.
12. All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the Department of Health Services.
13. Each monitoring report must affirm in writing that "all analyses were conducted at a laboratory certified for such analyses by the State Department of Health Services in accordance with current EPA guideline procedures or as specified in this Monitoring Program".
14. In reporting the monitoring data, the discharger shall arrange the data in tabular form so that the data, the constituents, and the concentrations are readily discernible. The data shall be summarized to determine compliance with waste discharge requirements and, where applicable, shall include receiving ground water observations.

Annual Report

Annual summary reports shall be submitted by March first of each year. The first annual summary report (due March 1, 1993), shall include the results of all analyses and a complete system evaluation. This evaluation shall include an analysis of the effectiveness of the ground water monitoring, treatment and injection system. The analysis shall include, but not limited to, the present ground water conditions (including the analytical data from the ground water monitoring program), rate of cleanup, system operating conditions, project completion schedule (if possible) and any modifications made during the life of the system. In the event the ground water extraction or cleanup system is not effectively cleaning or controlling the contaminant plume, a new remedial action plan and revised waste discharge requirements shall be required for further ground water cleanup.

OPERATING AND MAINTENANCE REPORT

The discharger shall file a technical report with this Board not later than 60 days after receipt of this Order, relative to the operation and maintenance program for the ground water recovery and treatment system. The information to be contained in that report shall include, at a minimum, the following:

- a. The name and address of the person or company responsible for operation and maintenance of the facility.
- b. Type of maintenance (preventive or corrective).
- c. Frequency of maintenance, if preventive.

HAULING REPORT

In the event wastes are transported to a different disposal site during the reporting period, the following shall be reported in the monitoring report:

- a. Types of wastes and quantity of each;
- b. Name and address for each hauler of wastes (or method of transport if other than by hauling); and
- c. Location of the final point(s) of disposal for each type of waste.

If no wastes are transported off-site during the reporting period, a statement to that effect shall be submitted.

Monitoring reports submitted to the Regional Board shall be signed by:

- a. In the case of corporations, principal executive officer at least the level of Vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;
- b. In the case of a partnership, a general partner;
- c. In the case of sole proprietorship, the proprietor;

- d. In the case of a municipal, state or public facility, either a principal executive officer, ranking elected official, or other duly authorized employee.

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations".

Executed on the _____ day of _____, 19____,

at _____.

_____(Signature)

_____(Title)

The discharger shall mail three copies of each monitoring report to:

TECHNICAL SUPPORT UNIT
CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD - LOS ANGELES REGION
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Ordered by Robert P. Ghirelli Date: June 1, 1992
ROBERT P. GHIRELLI, D.Env.
Executive Officer

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

101 CENTRE PLAZA DRIVE
SANTERREY PARK, CA 91754-2156
(213) 266-7500



June 9, 1992

Ms. Marilyn Guthrie
Environmental Engineer
ARCO Products Company
1055 West Seventh Street
Los Angeles, California 90051

**WASTE DISCHARGE REQUIREMENTS FOR FORMER ARCO STATION #1361, 6739
WEST OLYMPIC BOULEVARD, LOS ANGELES, CALIFORNIA (File # 92-01)**

Our letter dated May 1, 1992, transmitted a copy of tentative waste discharge requirements for the proposed recharge of treated groundwater at the subject facility.

Pursuant to Division 7 of the California Water Code, this Regional Board at a public hearing held on June 1, 1992, reviewed these tentative requirements, considered all factors in the case, and adopted Order No. 92-042 (copy attached) relative to this waste discharge. This order expires on May 10, 1997. A report of waste discharge must be filed at least 120 days before the expiration date.

You are also required to implement the new monitoring program as stated in the Monitoring and Reporting Program by the effective date of this Order. All monitoring reports shall be referenced to compliance file No. 7173 and should be sent to this Regional Board, Attention: Technical Support Unit. All other reports should continue to be sent to the Underground Tank Unit.

We would appreciate if you would not combine other reports, such as progress or technical reports, with your monitoring reports but would submit each type of 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. 92-042 to the tentative Order previously sent to you. A copy of the final order as adopted will be furnished to anyone upon request.

Ms. Marilyn Guthrie
June 9, 1992
Page 2

If you have any questions regarding this letter, please call Mr. Jay C. Huang at (213) 266-7573.


HUBERT H. KANG
Senior Water Resource
Control Engineer

Enclosures

c.c. Mr. Archie Matthews, Division of Water Quality, State Water
Resources Control Board
California Department of Health Services, Public Water Supply
Branch
Cal/EPA Department of Toxic Substance Control, Facilities
Permitting Unit (Region 4)
Mr. Leonard C. L. Nagler, California Department of Water
Resources, Southern District
South Coast Air Quality Management District
Captain Richard Camarena, Los Angeles City Fire Department,
Underground Tank Unit.
Mr. Gregory R. Albright, Harding Lawson Associates
Ronald D. Rosen, Eggerman, Brown & Rosen