



California Regional Water Quality Control Board

Los Angeles Region



Gray Davis
Governor

Winston H. Hickox
Secretary for
Environmental
Protection

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July 30, 1999

Mr. Esam Aly, Project Manager
CalTrans – District 7
120 South Spring Street
Los Angeles, CA 90012

Dear Mr. Aly:

GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES) AND WASTE DISCHARGE REQUIREMENTS – CALTRANS – DISTRICT 7, DISCHARGE OF GROUNDWATER FROM THE L.A. – 105 DEWATERING SYSTEM AT WOODRUFF AVENUE (NPDES No. CAG914001, CI-8069)

We have completed our review of your application for a permit to discharge wastes under the National Pollutant Discharge Elimination System (NPDES).

California Department of Transportation – District 7 (CalTrans – District 7), proposes to discharge intermittently up to 3,527,640 gallons per day of treated groundwater into a storm drain at the following location:

| <u>RECEIVING WATER</u> | <u>DISCHARGE POINT (STORM DRAIN)</u> | <u>WELL No.</u> |
|------------------------|---|-----------------|
| San Gabriel River | Woodruff Pumphouse, LA-105/Woodruff Ave (Latitude 33° 54' 51", Longitude 118° 07' 08") | 4D1 – 4D4 |

The wastewater flows via a storm drain to the San Gabriel River, a water of the United States above the estuary.

Prior to discharge, the groundwater is filtered and then passed through a granular activated carbon system to remove volatile organic contaminants. Federal Law stipulates that NPDES permits require the implementation of best available technology economically achievable. CalTran – District 7 proposes activated carbon adsorption as a groundwater treatment system. Because activated carbon systems have been used extensively for groundwater cleanup projects particularly for volatile organic compounds, this method is considered to be a best available technology economically achievable.

CalTrans – District 7 has been working with the Water Replenishment District, as well as with a number of local agencies to identify possible re-use alternatives for the water.

We have reviewed the information provided and have determined that the proposed discharge of groundwater meets the conditions to be regulated under Order No. 97-044, "General National Pollutant Discharge Elimination System Permit and Waste Discharge

California Environmental Protection Agency



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

July 30, 1999

Requirements for Discharges of Volatile Organic Compounds Contaminated Groundwater to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties", adopted by this Board on May 12, 1997.

Enclosed are your Waste Discharge Requirements, which also serve as your NPDES permit, consisting of Order No. 97-044 and Monitoring and Reporting Program No. CI-8069 (To save copying and postage costs, we are sending a copy of Order No. 97-044 only to the discharger. For those on the mailing list, please refer to the Board Order previously sent to you. A copy of the Order will be furnished to anyone upon request).

Before commencing any discharge, a representative sample shall be analyzed and the test results must meet all discharge limitations of the Order as specified in Part E. Effluent Limitations in Attachment A of this Order are not applicable to your discharge.

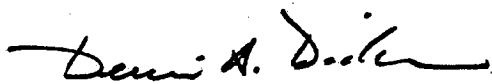
You are required to implement the "Monitoring and Reporting Program" on the first day of discharge. Monitoring reports shall be received monthly by the first day of the second month following sampling. The first report is due by October 1, 1999. If there is no discharge, the report shall so state. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-8069", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

In order to avoid future annual fees, please submit a termination certification when the project has been completed and the permit is no longer needed.

If you have any questions, please contact Jose M. Morales at (213) 576-6667.

Sincerely,



DENNIS A. DICKERSON
Executive Officer

Enclosures

cc: See attached mailing list

/JMM

MAILING LIST

U.S. Environmental Protection Agency, Region 9, Clean Water Act Standards
and Permits Office (WTR-5)

U.S. Army Corps of Engineers

Department of Interior, U.S. Fish and Wildlife Services

NOAA, National Maritime Fisheries Service

Mr. Jorge León, Office of Chief Counsel, State Water Resources Control Board

Mr. Jim Kassel, Division of Water Quality, State Water Resources Control Board

State Department of Fish and Game, Marine Resources

Los Angeles County, Department of Public Works, Environmental Programs

Division

Los Angeles County, Department of Health Services

Los Angeles County, Department of Parks and Recreation

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM No. CI-8069
for
CALTRANS – DISTRICT 7
(L. A. – 105 DEWATERING SYSTEM AT WOODRUFF AVENUE)
(Groundwater Discharge)
(NPDES NO. CAG914001)

The discharger shall implement this monitoring program on the effective date of this permit. Monitoring reports shall be received monthly by the first day of the second month following each sampling period. The first report is due by October 1, 1999. If there is no discharge, the report shall so state.

Before commencing any discharge, a representative sample shall be analyzed and the test results meet all discharge limitations in Part E of Order No. 97-044. Attachment A is not applicable to your discharge.

I. Effluent Monitoring

- A. Sampling stations shall be established at Discharge Points and shall be located where representative samples of the effluent can be obtained. Provisions shall be made to enable visual inspections before discharge. In the event of presence of oil sheen, debris, and/or other objectionable materials or odors, discharge shall not be commenced before compliance of the requirements is ascertained. Any visual observation shall be included in the monitoring report.

The discharger shall notify this Regional Board in writing of the location(s) of the sampling stations once established.

- B. The following shall constitute the effluent monitoring program for the Woodruff Pumphouse:

| <u>Constituent</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> ^[1,2] |
|------------------------|--------------|-----------------------|---|
| Total waste flow | gal/day | — | once per discharge event |
| Temperature | °F | grab | once per discharge event |
| pH | pH units | grab | once per discharge event |
| Total Suspended solids | mg/L | grab | once per discharge event |
| Settleable solids | ml/L | grab | once per discharge event |
| Turbidity | NTU | grab | once per discharge event |

^[1] Before any new discharge commences, a representative sample shall be analyzed and the test results show compliance with all discharge limitations of Order 97-044. If any constituent exceeds the limit in Order 97-044, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented, and full compliance with the requirements has been ascertained.

^[2] During periods of extended discharge, no more than one analysis per two weeks is required.

Monitoring and Reporting Program CI-8069
 CalTrans – District 7
 L. A. –105 Woodruff Avenue
 Groundwater Discharge

CAG914001

| <u>Constituent</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> ^[1,2] |
|----------------------------|--------------|-----------------------|---|
| Oil and grease | mg/L | grab | once per discharge event |
| Acrolein | µg/L | grab | once per discharge event |
| Acrylonitrile | µg/L | grab | once per discharge event |
| Benzene | µg/L | grab | once per discharge event |
| Bromoform | µg/L | grab | once per discharge event |
| Carbon tetrachloride | µg/L | grab | once per discharge event |
| Chlorobenzene | µg/L | grab | once per discharge event |
| Chlorodibromomethane | µg/L | grab | once per discharge event |
| Chloroethane | µg/L | grab | once per discharge event |
| Chloroform | µg/L | grab | once per discharge event |
| Dichlorobromomethane | µg/L | grab | once per discharge event |
| 1,1-dichloroethane | µg/L | grab | once per discharge event |
| 1,2-dichloroethane | µg/L | grab | once per discharge event |
| 1,1-dichloroethylene | µg/L | grab | once per discharge event |
| 1,2-dichloropropane | µg/L | grab | once per discharge event |
| 1,3-dichloropropylene | µg/L | grab | once per discharge event |
| Ethylbenzene | µg/L | grab | once per discharge event |
| Ethylene dibromide | µg/L | grab | once per discharge event |
| Methylbromide | µg/L | grab | once per discharge event |
| Methylchloride | µg/L | grab | once per discharge event |
| 1,1,2,2-tetrachloroethane | µg/L | grab | once per discharge event |
| Tetrachloroethylene | µg/L | grab | once per discharge event |
| Toluene | µg/L | grab | once per discharge event |
| 1,2-trans-dichloroethylene | µg/L | grab | once per discharge event |
| 1,1,1-trichloroethane | µg/L | grab | once per discharge event |
| 1,1,2-trichloroethane | µg/L | grab | once per discharge event |

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^[2] During periods of extended discharge, no more than one analysis per two weeks is required.

Monitoring and Reporting Program CI-8069
 CalTrans – District 7
 L. A. –105 Woodruff Avenue
 Groundwater Discharge

CAG914001

| <u>Constituent</u> | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> ^[1,2] |
|------------------------------------|--------------|-----------------------|---|
| Trichloroethylene | µg/L | grab | once per discharge event |
| Vinyl chloride | µg/L | grab | once per discharge event |
| Xylene | µg/L | grab | once per discharge event |
| Methyl ethyl ketone | µg/L | grab | once per discharge event |
| Methyl Tertiary Butyl Ether (MTBE) | µg/L | grab | once per discharge event |
| BOD ₅ 20°C | mg/L | grab | quarterly |
| Sulfides | mg/L | grab | quarterly |
| Phenols | mg/L | grab | quarterly |
| Acetone | µg/L | grab | quarterly |
| Acute Toxicity ^[3] | %Survival | grab | annually |

^[1] Before any new discharge commences, a representative sample shall be analyzed and the test results show compliance with all discharge limitations of Order 97-044. If any constituent exceeds the limit in Order 97-044, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented, and full compliance with the requirements has been ascertained.

^[2] During periods of extended discharge, no more than one analysis per two weeks is required.

^[3] By the method specified in "Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" - September 1991 (EPA/600/4-90/027). Submission of bioassay results should include the information noted on pages 70-73 of the "Methods". The Threespine Stickleback (*Gasterostus Aculeatus*) shall be used as the test species.

If the results of the toxicity test yield a survival of less than 90%, then the frequency of analysis shall be increased to once per discharge event until at least three consecutive test results have been obtained and full compliance with Effluent Limitations has been demonstrated, after which the frequency of analysis shall revert to annually. Results of toxicity tests shall be included in the first monitoring report following sampling.

C. Laboratory analyses - 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 (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be provided with the first monitoring report and each time a new and/or renewal is obtained from ELAP.

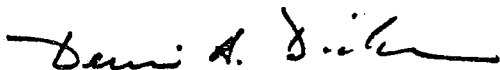
D. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All QA/QC items should be run on the same dates when samples were actually analyzed and documentation shall accompany the laboratory reports. Proper chain of custody procedures must be followed and a copy shall be submitted with the report.

Monitoring and Reporting Program CI-8069
CalTrans - District 7
L. A. -105 Woodruff Avenue
Groundwater Discharge

CAG914001

- E. The detection limits employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the discharger can demonstrate that a particular detection limit is not attainable and obtains approval for a higher detection limit from the Executive Officer.

Ordered by:



DENNIS A. DICKERSON
Executive Officer

Date: July 30, 1999

/JMM