

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

CENTRE PLAZA DRIVE  
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June 13, 1995

LCDR R.P. Sauerwein  
NCBC Port Hueneme  
1000 23rd Avenue, Code 40  
Port Hueneme, CA 93043

7240

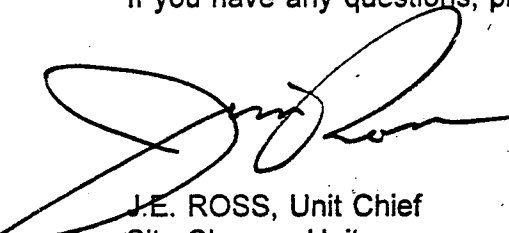
**REVISED WASTE DISCHARGE REQUIREMENTS FOR LAND TREATMENT OF PETROLEUM  
HYDROCARBON CONTAMINATED SOIL AT THE PORT HUENEME NAVAL BATTALION  
CONSTRUCTION CENTER (FILE NO. 92-59)**

Pursuant to Division 7 of the California Water Code, this California Regional Water Quality Board, at a public meeting held on June 12, 1995, reviewed the tentative Waste Discharge Requirements, considered all factors in the case, and adopted Order No. 95-085 (copy attached), relative to this waste discharge.

You are required to implement Monitoring and Reporting Program No. 7240 on the effective date of this Order. Your first monitoring report is due to this Board by October 15, 1995. All monitoring reports shall be sent to the Regional Board, Attention: Technical Support Unit.

Reference all technical and monitoring reports to our Compliance File No. 7240. Do not combine other reports, such as progress or technical reports, with your monitoring reports.

If you have any questions, please contact Gerhardt Hubner at (213) 266-7564.



J.E. ROSS, Unit Chief  
Site Cleanup Unit

Enclosures

cc: Mailing List

## MAILING LIST

Jorge Leon, Office of Chief Counsel, SWRCB

Omo Patrick, Cal/EPA, Office of Military Facilities, DTSC Long Beach

Gail Pringle, RAB Administrator - Oxnard Plain, NCBC Port Hueneme, Bld. 225

U.S. Army Corps of Engineers

Department of Interior, U.S Fish and Wildlife Service

Department of Fish and Game, Region 5

Ventura County Environmental Health Division, LUFT Unit

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

**ORDER NO. 95-085**

**REVISED WASTE DISCHARGE REQUIREMENTS  
FOR  
LAND TREATMENT OF PETROLEUM HYDROCARBON CONTAMINATED SOIL  
AT THE PORT HUENEME NAVAL CONSTRUCTION BATTALION CENTER  
(FILE NO. 92-59)**

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

1. The United States Navy owns and operates the Naval Construction Battalion Center at Port Hueneme, California. The United States Navy, Naval Construction Battalion Center, Port Hueneme (hereinafter the discharger), has filed a Report Of Waste Discharge on March 21, 1995, for revised waste discharge requirements for the operation of a soil treatment system at their facility. Previously, Waste Discharge Requirements were issued for the operation of this facility under Order No.93-007, dated January 25, 1993.
2. The discharger proposes treating a maximum of 50,000 cubic yards of petroleum hydrocarbon contaminated soil. Contaminated soil will be treated at a soil treatment facility located at the corner of 23<sup>rd</sup> Avenue and Tract No. 14 Road (Latitude 34 10 15, Longitude 119 12 45). The remediated soils from the treatment facility will be used to construct a landscaped berm. The total project duration is expected to be five years.
3. Several soil treatment units are operating at the facility. Type of treatment unit will handle gasoline contaminated soils, the other will treat diesel and similarly contaminated soils. The treatment units will be lined on all sides with high density polyethylene (HDPE) and air will be supplied through a system of three inch diameter slotted polyethylene pipe.

In addition, this treatment facility has been constructed to contain all storm water runoff produced from the soil treatment piles.

4. On May 5, 1994, the Naval Construction Battalion Center at Port Hueneme was dedicated as the first National Environmental Technology Demonstration Test Site for Advanced Fuel Hydrocarbon Remediation Technologies. This program was developed to provide locations where the Department of Defense (DoD) services and Department of Energy (DoE) activities could evaluate promising cleanup technologies that are proposed by private contractors, universities or other research organizations.
5. The Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. This Water Quality Control Plan contains water quality objectives for ground water in the unconfined and perched aquifers within the Oxnard Plain. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.

6. Ground waters in the unconfined and perched aquifers underlying the Oxnard Plain have been designated with the following beneficial uses: Existing uses for Municipal and Agricultural Supply, and a potential use for Industrial Service Supply.
7. The waste discharge requirements contained in this order would regulate such land treatment programs in accordance with Title 23, Division 3, Chapter 15, of the California Code of Regulations.
8. The discharger prepared a NEPA categorical exclusion document in April, 1992. Further, the project would temporarily effect a minor alteration to the condition of land, and is exempt in accordance with Title 14, Chapter 3, Section 15304 of the California Code of Regulation.
9. These waste discharge requirements are not intended to alter any existing working arrangements relating to cleanup cases with local governmental agencies.

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

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

**IT IS HEREBY ORDERED THAT:**

- A. This Order shall serve as Waste Discharge Requirements for the temporary discharge of petroleum hydrocarbon contaminated soil to an on-site land treatment facility for land treatment processing of the soil.
- B. The following limitations shall apply to the on-site disposal of remediated soil:

<u>Parameter</u>	<u>Units</u>	<u>Maximum Allowable Concentration</u>
Total Petroleum Hydrocarbons (gasoline)	mg/kg	100
Total Petroleum Hydrocarbons (diesel)	mg/kg	250

Benzene	mg/kg	0.3
Toluene	mg/kg	0.3
Ethylbenzene	mg/kg	1.0
Xylene	mg/kg	1.0

- C. The operation of any temporary land treatment facility shall be in conformance with Title 23, California Code of Regulations, Division 3, Chapter 15 - "Discharge of Waste To Land", including but not limited to Sections 2510; 2532(b-5); 2549; 2550; 2580; 2584; 2590 and the following special provisions:
1. Wastes brought on-site for biodegradation by the land treatment process shall be fully characterized and analyzed prior to acceptance by the treatment facility at NCBC Port Hueneme.
  2. Wastes discharged on-site for biodegradation by a land treatment process shall be limited to hydrocarbon contaminated soil from: (1) from Underground Storage Tank (UST) and Installation Restoration (IR) sites at military federal facilities located within the County of Ventura (NAWS Pt. Mugu, San Nicolas Island, NCBC Port Hueneme, NFESC Port Hueneme); (2) Research & Development projects at other federal military facilities in California; and (3) other local County of Ventura sites/facilities as approved in writing by the Executive Officer. Soil from NCBC Port Hueneme remedial projects will have priority at the land treatment facility over the acceptance of soil from other military facilities. No other waste material shall be imported for land treatment on-site. The land treatment process, which includes water, nutrients and bacterial addition to soil along with soil aeration in the treatment zone, shall be conducted in such a way that no contaminants are added to surface water or ground waters.
  3. For any proposed development on-site during the land treatment, closure and post-closure period, as defined in Title 23, Division 3, Chapter 15 of the California Code of Regulations, the discharger shall submit to this Board, written notification of such development.
  4. During the land treatment operations, surface runoff from the drainage area tributary to this site shall be prevented from passing over or percolating through the treatment zone. Adequate facilities shall be provided to divert all surface runoff from storms away from the treatment area.
  5. The treatment zone shall be bermed in such a way that storm water falling directly on the treatment zone will be contained. Standing water within the contained treatment zone shall be pumped down immediately and removed to treatment facilities on site or disposed of at a legal disposal site. For the purpose of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been established by a California Regional Water Quality

Control Board, and which is in full compliance therewith.

6. No condition of pollution or nuisance shall be caused by the handling, treatment or reuse of the wastes or from any excavation operation conducted in association with this land treatment operation.
7. Odors from the handling, treatment or reuse of these wastes shall not be perceivable beyond the limits of the property owned or controlled by the discharger. The discharger shall demonstrate, to the satisfaction of the Executive Officer, a positive method for odor control, prior to beginning a full-scale land treatment operation.
8. All required state and local health department permits and/or variances and air quality permits and/or variances shall be obtained by the discharger prior to commencing the land treatment operation.

D. The following General Provisions Shall Apply:

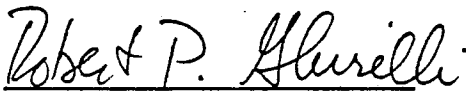
1. A copy of these requirements shall be maintained at the discharge facility and be available at all times to operating personnel.
2. In the event of any change in name, ownership, or control of these land treatment facilities, the discharger shall notify this Board in writing and shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to the Board.
3. 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,
  - (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.

4. In accordance with Section 13260 of the California Water Code, the discharger shall file a report with this Regional Board of any material change or proposed change in the character, location or volume of the discharge.
5. In accordance with Section 13267 of 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.
6. Wastes discharged or reclaimed for reuse as soil backfill shall not contain any substance in concentrations toxic to human, animal, plant, or aquatic life.
7. Any off-site disposal of wastes shall be to a legal point of disposal and in accordance with the provisions of Division 7.5 of the Water Code.
8. The Regional Board and other authorized representative 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 California Water Code.
9. Following completion of the land treatment program on site, the discharger shall, implement a land treatment facility closure plan, which complies with the requirements of Article 8, Chapter 15, Division 3, Title 23, of the California Code of Regulations. As a minimum the plan shall include but not be limited to the following:
  - (a) continue all operations necessary to maximize degradation of waste constituents within the treatment zone,
  - (b) continue all ground water and unsaturated zone monitoring,
  - (c) continue all operations in the treatment zone to prevent runoff from the site containing waste constituents, and

- (d) maintain the precipitation and drainage control systems.
  - 10. In accordance with Section 13263 of the Water Code, these waste discharge requirements are subject to periodic review and revision by this Regional Board.
  - 11. These requirements do not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable, they do not legalize these land treatment and disposal facilities and they leave unaffected any further restraints on those facilities which may be contained in other statues or required by other regulatory agencies.
- E. The attached Monitoring and Reporting Program is made a requirement of the order. During full-scale operation of the land treatment operation, a sampling and analysis program shall be implemented, in accordance with the attached Monitoring and Reporting Program.
- F. The adoption of this Order rescinds Order No. 93-007, adopted January 25, 1993.

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 12, 1995.

  
ROBERT P. GHIRELLI, D.Env.  
Executive Officer



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

MONITORING AND REPORTING PROGRAM NO. 7240  
FOR  
UNITED STATES NAVY  
PORT HUENEME NAVAL CONSTRUCTION BATTALION CENTER  
(LAND TREATMENT OF PETROLEUM HYDROCARBON CONTAMINATED SOIL)  
(FILE NO. 92-59)

L. Reporting Requirements

The discharger shall implement this Monitoring and Reporting Program on the effective date of this Order.

The first monitoring report under this program is due on October 15, 1995. Thereafter, monitoring reports shall be submitted by the date in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January-March	April 15
April- June	July 15
July - September	October 15
October - December	January 15

A "Phase XX Soil Completion Report" summarizing the final hydrocarbon contamination levels of each phase of remediated soils, including laboratory analysis data, and indicated the quantity and the final disposition of the land treated material shall be submitted with each completed phase of the land treatment project. A statement, signed by a responsible official of the discharger, shall be included stating that the land treatment was completed in accordance with the requirements and provisions of Order No. \_\_\_\_\_.

Each report shall contain the following completed declaration:

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

Executed on the \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

**Monitoring and Reporting Program  
United States Navy  
Port Hueneme Naval Construction Battalion Center  
Land Treatment Unit**

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**II. Land Treatment Facility Soil Monitoring**

A soil sampling grid shall be established for the land treatment site and the sampling locations shall be located where representative soil samples can be obtained. Soil samples shall be collected and analyzed for the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u> <sup>1</sup>
Bacteria Count	Colonies/gm	Quarterly
Total Hydrocarbons (EPA Mod. Method 8015)	mg/kg	Quarterly

Soil deemed treated shall be sampled and analyzed for the following parameters prior to disposal:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
Total Hydrocarbons (EPA Mod. Method 8015)	mg/kg	1 sample/200 cubic yards
CAM Metals	mg/kg	1 sample/200 cubic yards
Volatile Organics (EPA Method 8020)	ug/kg	1 sample/200 cubic yards

**III. General Provisions for Sampling and Analysis**

- A. All sampling, sample preservation, and analysis shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedure for Analyses of Pollutants," promulgated by the United States Environmental Protection Agency.
- B. All Chemical and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. No changes shall be made in sampling points without prior approval of the Executive Officer.
- C. All verification sampling requires 72 hours written and verbal notice to the Board in order for staff it participate in the sampling.

<sup>1</sup> A final sample shall be taken of the treated soil at the end of treatment and just prior to removal and reuse.

Monitoring and Reporting Program  
United States Navy  
Port Hueneme Naval Construction Battalion Center  
Land Treatment Unit

CI 7240

- D. 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 techniques used, and results of all 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.

Ordered by:

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.  
Executive Officer

Date:

June 12, 1995