

California Regional Water Quality Control Board
North Coast Region

ORDER NO. R1-2004-0060
WDID NO. 1B98062RMEN

WASTE DISCHARGE REQUIREMENTS

FOR

DISCHARGE OF HIGHLY TREATED GROUNDWATER TO LAND

ANDERSON VALLEY UNIFIED SCHOOL DISTRICT BUS BARN

12300 Anderson Valley Way
Boonville, California
Case No. 1TMC260

Mendocino County

The California Regional Water Quality Control Board, North Coast Region, (hereinafter the Regional Water Board) finds that:

1. Anderson Valley Unified School District (hereinafter the discharger) submitted a Report of Water Discharge dated May 20, 2004, for the discharge of highly treated groundwater to land.
2. The discharger operates a school bus facility at 12300 Anderson Valley Way in Boonville, California. The facility is located within the NE ¼ of section 34, Township 14 North, Range 14 West of the Boonville Quadrangle at Latitude N39°1.73' Longitude W123° 23.283'. The facility is located in Anderson Valley adjacent to Anderson Creek, which is tributary to the Navarro River.
3. The facility included school bus fuel storage tanks. In May 1989, a 660-gallon underground gasoline tank failed a leak test. The tank was removed in 1990. In July 1993, a 1,000-gallon underground diesel tank was removed. Holes were noted in the bottom of the tank at the time of removal. Therefore, in 1995, approximately 12,000 cubic yards of petroleum-impacted soil were excavated from the vicinity of the underground tanks. Soils were placed in two piles adjacent to the Anderson Valley Elementary School Athletic Field. In 1998, General Waste Discharge Requirements (WDR Order 92-66) were issued for bioremediation of the soil stockpiles. During the summer of 2000 the two soil stockpiles were screened and split. Approximately 10,000 tons of boulders and gravel were removed from the stockpiles and transported off-site for recycling. The remaining soil with particle sizes of less than 0.5-inches was treated with

- Biosolve[®] to aid in the bioremediation of hydrocarbons. This treated soil remains stockpiled adjacent to the Anderson Valley Bus Barn facility.
4. Preliminary groundwater investigations revealed that petroleum hydrocarbons had impacted the groundwater including the on-site domestic well that provided drinking water for the Anderson Valley Elementary School and two domestic wells at the neighboring properties. In 1997, a Monitoring and Reporting Program Order (M&R 97-19) required quarterly sampling and analysis of all monitoring and water supply wells. This monitoring program was revised in M&R Order No. R1-2003-0108, which is superceded by M&R Order R1-2004-0060 (attached to this Order).
 5. Cleanup and Abatement Order 99-10 (CAO 99-10) and revised M&R 97-10 were issued in March 1999 requiring that potable water be supplied to all residential and public water supplies impacted by the release. In July 1999, new domestic wells were installed at the school and at the adjacent residence. Eleven monitoring wells have been installed and the lateral extent of the groundwater contamination has been defined. In November 1999, a Corrective Action Plan (CAP) that proposed dual phase soil vapor and groundwater extraction from four extraction wells was approved. The four groundwater recovery wells were installed in January 2000.
 6. Prior to submitting the Report of Waste Discharge, the groundwater treatment system was built and treated groundwater was tested to verify that all chemicals of concern were below laboratory detection limits. Groundwater extracted from the four extraction wells will be treated by pumping the liquid first through an oil-water separator where free product is skimmed and collected. The water then passes through an air stripper and finally the water is circulated through an oxygen generator, ozone generator and venturi mixer in a batch process. The effluent will be treated until no detectable contaminants are present. This highly treated effluent will be discharged by irrigation in periods of dry weather at a rate of less than 15 gallons per minute (gpm). The area of irrigation will be limited to the athletic field on the subject property and neighboring vineyard (see Attachment A). Water reclamation requirements are listed in Section C of this Order.
 7. It is the intent of the discharger that the effluent will be contaminant-free containing no detectable levels of petroleum hydrocarbons as specified in Prohibition B2 and monitored according to the schedule outlined in M&R R1-2004-0060.
 8. The Regional Water Quality Control Plan for the North Coast Region includes water quality objectives and receiving water limitations.

9. The beneficial uses of the Anderson Creek and Navarro River include:
 - a. municipal and domestic supply
 - b. agricultural supply
 - c. industrial supply
 - d. groundwater recharge
 - e. navigation
 - g. water contact recreation
 - h. non-contact water recreation
 - i. ocean commercial and sport fishing
 - j. warm freshwater habitat
 - k. cold freshwater habitat
 - l. wildlife habitat
 - m. fish migration
 - n. fish spawning
 - o. estuarine habitat
 - p. aquaculture
10. Beneficial uses of groundwater include:
 - a. domestic water supply
 - b. agricultural water supply
 - c. industrial supply
11. The action to adopt waste discharge requirements is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21000 et seq.) in accordance with Title 14 California Code of Regulations, Sections 15304 and 15321.
12. The Regional Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
13. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.
14. The permitted discharge is consistent with the anti-degradation provisions of State Water Resources Control Board Resolution No. 68-16. The impact on existing water quality will be insignificant.

THEREFORE, IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The discharge of wastes to land not owned or under control of the discharger is prohibited.
2. The discharge of any waste not specifically regulated by this Order is prohibited.
3. Creation of a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code (CWC), is prohibited. [Health and Safety Code, Section 5411].
4. The discharge of untreated waste from anywhere within the collection, treatment or disposal facility is prohibited.
5. The discharge of waste from the Anderson Valley groundwater treatment plant to surface waters, including the Anderson Creek and Navarro River, is prohibited.

B. EFFLUENT LIMITATIONS

1. The discharge of treated wastewater shall not exceed 15 gallons per minute.
2. Representative samples of the discharge shall not contain detectable constituents at the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Detection Limit</u>
TPH as Diesel	ug/l	50
TPH as gasoline	ug/l	50
Benzene	ug/l	0.5
Toluene	ug/l	0.5
Ethylbenzene	ug/l	0.5
Xylenes	ug/l	0.5

C. WATER RECLAMATION REQUIREMENTS

1. Reclaimed water shall be managed in conformance with regulations contained in Title 22, Division 4, Chapter 3, California Code of Regulations.
2. The use of reclaimed water that results in unreasonable waste of water is prohibited.

3. The use of reclaimed water that creates a condition of pollution or nuisance is prohibited.
4. The discharger shall be responsible to insure that all users of reclaimed water comply with the terms and conditions of this Order.
5. Reclaimed water shall be applied in such a manner so as not to exceed vegetative demand or field capacity.
6. All piping, valves, and outlets shall be marked to differentiate reclaimed water from other sources.
7. There shall be no connection between a potable water supply and the reclaimed water distribution system.
8. Adequate measures shall be taken to prevent the breeding of insects and other vectors of health significance.
9. Perimeter warning signs indicating reclaimed water use shall be posted at least every 500 feet with a minimum of a sign at each corner and access road.

D. PROVISIONS

1. A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.

2. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

3. Operation and Maintenance

The discharger must maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

4. Change in Discharge

The discharger must promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

5. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger must

notify the succeeding owner or operator of the following items by letter, a copy of which must be forwarded to the Regional Water Board:

- a. existence of this Order, and
- b. the status of the dischargers' annual fee account

6. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, State, or local laws, nor create a vested right for the discharger to continue the waste discharge.

7. Monitoring

The discharger must comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program (M&R) No. R1-2004-0060 and any modifications to these documents as specified by the Executive Officer. Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses must be conducted at a laboratory certified for such analyses by the State Department of Health Services.

8. Inspections

The discharger shall permit authorized staff of the Regional Water Board:

- a. entry upon premises in which an effluent source is located or in which any required records are kept;
- b. access to copy any records required to be kept under terms and conditions of this Order;
- c. inspection of monitoring equipment or records; and
- d. sampling of any discharge.

9. Noncompliance

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; or
- c. other causes such as acts of nature;

the discharger must notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

10. Revision of Requirements

This Regional Water Board requires the discharger to file a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge.

11. Any person affected by this action of the Regional Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with Section 13320 of the California Water Code and Title 23, California Code of Regulations, Section 2050. The petition must be received by the State Water Board within 30 days of the date of this Order. Copies of the law and regulations applicable to filing petitions will be provided upon request. In addition to filing a petition with the State Water Board, any person affected by this Order may request the Regional Water Board to reconsider this Order. Such request should be made within 30 days of the date of this Order. Note that even if reconsideration by the Regional Water Board is sought, filing a petition with the State Water Board within the 30-day period is necessary to preserve the petitioner's legal rights. If you choose to appeal the Order, be advised that you must comply with the Order while your appeal is being considered.

Certification

I, Catherine E. Kuhlman, 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, North Coast Region, on August 25, 2004.

Catherine E. Kuhlman
Executive Officer