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LETTER REGARDING GEORGIA DEPARTMENT OF NATURAL RESOURCES APPROVAL
OF UNDERGROUND INJECTION CONTROL PERMIT NSB KINGS BAY GA
10/26/1998
GEORGIA DEPARTMENT OF NATURAL RESOURCES

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Georgia Department of Natural Resources

205 Butler Street, S.E., East Floyd Tower, Atlanta, Georgia 30334

Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
Environmental Protection Division
(404) 656-4713

NSB Kings Bay Administrative Record
Document Index Number

31547-000
09.01.00.0137

October 26 , 1998

Mr. John R. Garner
Environmental Division
Dept. Of Navy
Naval Submarine Base
1063 USS Tennessee Ave.
Kings Bay, GA 31547-2606

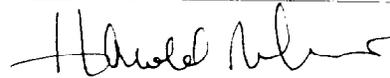
RE: Underground Injection Control Permit #089 for injection of hydrogen peroxide, ferrous sulfate and sulfuric acid, Kings Bay Submarine Base Site 11, Old Camden Co. Landfill, Kings Bay, Georgia.

Dear Mr. Garner:

Enclosed is an Underground Injection Control (UIC) Permit #089 for the Kings Bay Submarine Base Site 11, Old Camden Co. Landfill, located at Kings Bay, Georgia. This UIC permit allows The U.S. Navy to utilize injection of hydrogen peroxide, ferrous sulfate, calcium phosphate, dilute phosphoric acid and dilute sulfuric acid through twenty three (23) wells to assist with the remediation of soil and ground-water contaminated with chlorinated solvents at this site for up to five (5) years. The UIC permit includes seven (7) special conditions in addition to the standard conditions.

If you or your staff have any questions about the permit please contact Bruce O'Connor, UIC Coordinator, at (404) 656-3214.

Sincerely,



Harold F. Reheis
Director

Enclosure

cc: File UIC Permit #089
H. Bauer, Bechtel
L. Rogers, EPD-CR
M. Kellam, EPD-HWMB

STATE OF GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

INJECTION WELL OPERATING PERMIT

PERMIT NUMBER: #089

DATE ISSUED: October 26, 1998

FACILITY DATA: INJECTION WELL TYPE: CLASS V (type 5X26)

FACILITY: Naval Submarine Base
 Site 11
 Old Camden Co. Landfill
 Kings Bay, GA
 Camden County

OPERATOR: Dept. Of Navy*
 Naval Submarine Base
 1063 USS Tennessee Ave.
 Kings Bay, GA 31547-2606

LOCATION: Lat: 30° 42' 15" N
 Long: 81° 36' 52" W

EPD ID # GA17009001
HWMB Permit# HW-014(S)(2)

In accordance with the provisions of the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, this permit is issued for the operation of the herein described injection system. Unless appealed, this permit is effective thirty (30) days after its issuance and is conditioned upon the following:

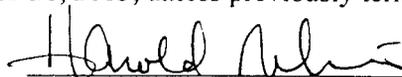
- 1) The Permittee's continued compliance with the Georgia Rules for Underground Injection Control, Chapter 391-3-6-.13, the Georgia Rules for Water Quality Control (Revised) and the Georgia Rules for Safe Drinking Water (Revised); and
- 2) The Permittee's continued compliance with the Permittee's approved injection operation plan which is part of the approved Corrective Action Plan for this site, along with provisions of officially approved plan amendments, if any.

Additional conditions 1 through 7 are attached hereto.

This permit is issued in accordance with the initial application received July 24, 1998, and the revised application received October 1, 1998. The injection operation plan was approved on October 26, 1998, and is based on the statements and supporting data entered herein or attached thereto, all of which are filed with the Environmental Protection Division of the Georgia Department of Natural Resources and hereby made a part of this permit.

This permit is subject to revocation for noncompliance with aforementioned conditions.

This permit expires on **October 26, 2003**, unless previously terminated.



Harold F. Reheis, Director, Environmental Protection Division
Georgia Department of Natural Resources

* Bechtel Environmental, Inc., as consultant to Kings Bay Submarine Base, may be contacted regarding technical questions at (423) 431-1922.

**INJECTION WELL OPERATING PERMIT
ADDITIONAL CONDITIONS**

1. Permit Conditions.

- a. This permit is not transferable until any new operator shall agree in writing to these additional permit conditions. Any new operator also shall provide the Environmental Protection Division (Division) with appropriate documentation that they have adequate financial assurances to plug all existing Class V wells.
- b. If The U.S. Navy (Operator) wishes to continue an activity regulated by this permit after the expiration of the permit, the Operator must apply for and obtain a new permit.
- c. The Operator shall report any instances of noncompliance with permit conditions to the Division in writing within five (5) working days of such noncompliance and shall take all reasonable steps to minimize the impact on the environment resulting from noncompliance with this permit and the Georgia Rules for Underground Injection Control.
- d. The Operator shall notify the Division of any proposed changes to the performance of the water injection system in writing at least thirty (30) days prior to the change.
- e. All reports submitted to the Division shall be signed and stamped by a Georgia Registered Professional Engineer or Professional Geologist.

2. System Parameters.

- a. This permit is issued to the Operator for the purpose of operating an injection system consisting of a hydrogen peroxide, ferrous sulfate, calcium phosphate, dilute phosphoric acid and dilute sulfuric acid, at the above referenced site to aid in remediation of soil and ground-water contaminated with chlorinated solvents.
- b. Number of Class V injection wells: twenty three (23).
- ~~c. Injected fluid: Hydrogen peroxide and ferrous sulfate solution buffered with phosphoric acid, sulfuric acid and calcium phosphate, as needed.~~
- d. Maximum injection rate per well: 1.0 gallons of liquid/min.(gpm)/well
Maximum total injection rate: 23.0 gpm
- e. Maximum total injection volume per well: 575 gallons of liquid/day/well
Maximum total injection volume: 13,225 g/day
- f. Maximum daily average injection pressure (at well head): 40 psig.

3. Monitoring and Reporting Requirements.

- a. The Operator shall report to the Underground Injection Control Program of the Division the number and exact location of all Class V injection wells it installs or plugs on a quarterly basis. The reports are to be submitted to the UIC Program in accordance with the reporting schedule stipulated by the Hazardous Waste Management Branch.
- b. The Operator shall submit to the Division for its approval, a detailed schematic diagram and location map on any Class V injection well that is different in construction from the specifications contained in the UIC permit application, no later than 45 days prior to installation of the injection well. The Operator cannot install such a well until it receives approval from the Division.
- c. The Operator shall submit to the UIC Program one (1) copy of any report regarding this site which the Operator is required to submit to the Hazardous Waste Management Branch, or any other program within the Division.
- d. The Operator shall submit to the UIC Program an annual report which will contain the following information.
 1. Status of the injection system operation;
 2. Results of any ground-water sampling and analyses;
 3. Results of any soil sampling and analyses;
 4. An evaluation of the plume movement through the ground-water, if any;
 5. Comparisons of analyses to determine any changes in pollutant concentrations.

The annual reports will be provided to the UIC Program in accordance with the schedule stipulated by the Hazardous Waste Management Branch.

4. Emergency Situations.

- a. The Operator is to immediately notify the Division of any emergency situation that affects the injection system and describe the remedial activity that the Operator is utilizing to correct the situation.
- b. The Operator is to immediately notify the Division when the emergency situation ceases to exist.

Additional Conditions, UIC Permit #089, October 26, 1998, cont.

5. The Operator shall grant the Division permission to enter the facility property to conduct inspections of the injection system.
6. The Operator shall maintain a copy of this permit at the facility site.
7. The Operator shall, upon termination of the injection of water, bacteria and nutrients through a Class V injection well at this site, properly plug and abandon all Class V wells constructed on this site and notify the division within thirty (30) days of such termination and abandonment.