

State of North Carolina
Department of Environment
and Natural Resources
Wilmington Regional Office
Division of Waste Management
UST Section

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Interim Director

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

To: *T. L. Anagnostou* From: *Nikki* # of pages: *6*

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

To: *Ms. Reuther* From: *Nikki* # of pages: *6*

Fax # *94-262-4804* Fax # *910-451-5997*

NSN 7540-01-317-7368

5099-101

GENERAL SERVICES ADMINISTRATION

August 10, 2001

Ms. Nikki Hall
Attention: Director, I & L/EMD/IRB
Marine Corps Base
PSC Box 20004
Camp Lejeune, NC 28542-0004

Subject: **Notice of No Further Action**
15A NCAC 2L .0115(h)
USMC Camp Lejeune, Bldg. AS-872
Curtis Drive
Camp Lejeune, Onslow County
Incident No. 22844
Classification: Low Risk

Dear Ms. Hall:

On July 26, 2001, the Underground Storage Tank (UST) Section, Division of Waste Management (DWM) Wilmington Regional Office received an Annual Monitoring Report and Request for No Further Action Status for the above-referenced site. A review of the report shows that soil contamination does not exceed the residential maximum soil concentrations established in 15A NCAC 2L .0115(m). A review of the Annual Monitoring Report and Request for No Further Action Status also shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the UST Section determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the UST Section later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, **is not suitable** for use as a water supply.

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Pursuant to 15A NCAC 2L .0115(e), the USMC has a continuing obligation to notify the UST Section of any changes that it knows of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the UST Section to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that the USMC must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. **If public notice is not provided as required, this no further action determination will be deemed invalid.** Within **30 days** of receipt of this no further action notice, the USMC must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., the USMC may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within **60 days** of receiving this no further action notice, the USMC must provide the UST Section at the Wilmington Regional Office with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, the USMC must provide the UST Section with a description of the manner in which the notice was posted.

Interested parties may examine the Annual Monitoring Report and Request for No Further Action Status by contacting Ms. Nikki Hall at (910) 451-9610. In addition, the UST Section Wilmington Regional Office has the Annual Monitoring Report and Request for No Further Action Status along with other site information on file and available for public review.

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Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Annual Monitoring Report and Request for No Further Action Status may be submitted to the regional office.

Bruce Reed
NCDENR Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, N C 28405
(910) 395-3900

Please be advised that the USMC should close any monitoring wells or injection wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113 and .0214, respectively. For guidance on closure of infiltration galleries, please contact the Division of Water Quality, Groundwater Section, at the Wilmington Regional Office.

If there are any questions concerning this notice, please contact Bruce Reed at (910) 395-3900.

Sincerely,



David R. Holsinger
Regional Supervisor

DRH/BAR

Attachments: Well Abandonment Form
15A NCAC 2C .0113

cc: Ruth Strauss
WiRO-UST

s:\bruce\hall872.nfa

WELL ABANDONMENT RECORD WELL CONTRACTOR _____
WELL CONTRACTOR CERTIFICATION # _____

1. WELL USE (Check Applicable Box): Residential Municipal Industrial Agricultural Monitoring
Recovery Heat Pump Water Injection Other If Other, List Use: _____
2. WELL LOCATION: (Show a sketch of the location on back of form.)
Nearest Town: _____ County _____
(Road Name and Number, Community, Subdivision, Lot No.) _____ Quadrangle No. _____

3. OWNER: _____

4. ADDRESS: _____

5. TOPOGRAPHY: draw, slope, hilltop, valley, flat
(circle one)

6. TOTAL DEPTH: _____ DIAMETER _____

7. CASING REMOVED:
feet diameter

8. DISINFECTION: _____
(Amount of 70% hypochlorite used:)

9. SEALING MATERIAL:
Neat Cement Sand Cement
bags of cement _____ bags of cement _____
gallons of water _____ gallons of water _____
Other
Type material _____
Amount _____

10. EXPLAIN METHOD EMPLACEMENT OF MATERIAL.

11. DATE WELL ABANDONED _____

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

I do hereby certify that this well was abandoned in accordance with 15A NCAC 2C. well construction standards, and that a copy of the record has been provided to the well owner.

Signature of person abandoning the well _____ Date _____

WELL LOCATION: Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Water Quality, Groundwater Section, one copy to the owner within 30 days from completion of abandonment.

.0113 ABANDONMENT OF WELLS

(a) Any well which has been abandoned, either temporarily or permanently, shall be abandoned in accordance with one of the following procedures:

(1) Procedures for temporary abandonment of wells:

(A) Upon temporary removal from service or prior to being put into service, the well shall be sealed with a water-tight cap or seal compatible with casing and installed so that it cannot be removed easily by hand.

(B) The well shall be maintained whereby it is not a source or channel or contamination during temporary abandonment.

(C) Every temporarily abandoned well shall be protected with a casing.

(2) Procedures for permanent abandonment of wells:

(A) All casing and screen materials may be removed prior to initiation of abandonment procedures if such removal will not cause or contribute to contamination of the groundwaters. Any casing not grouted in accordance with Rule .0107 Paragraph (e) of this Section shall be removed or properly grouted.

(B) The entire depth of the well shall be sounded before it is sealed to ensure freedom from obstructions that may interfere with sealing operations.

(C) The well shall be thoroughly disinfected prior to sealing.

(D) In the case of gravel-packed wells in which the casing and screens have not been removed, neat-cement shall be injected into the well completely filling it from the bottom of the casing to the top.

(E) "Bored" wells shall be completely filled with cement grout, dry clay or material excavated during drilling of the well and then compacted in place.

(F) Wells, other than "bored" wells, constructed in unconsolidated formations shall be completely filled with cement grout by introducing it through a pipe extending to the bottom of the well which can be raised as the well is filled.

(G) Wells constructed in consolidated rock formations or that penetrate zones of consolidated rock may be filled with cement, sand, gravel or drill cuttings opposite the zones of consolidated rock. The top of the sand, gravel or cutting fill shall be at least five feet below the top of the consolidated rock. The remainder of the well shall be filled with cement grout only.

(H) Test wells less than 20 feet in depth which do not penetrate the water table shall be abandoned in such manner as to prevent the well from being a channel allowing the vertical movement of water or a source of contamination to the groundwater supply. Test wells or borings that penetrate the water table shall be abandoned by completely filling with cement grout.

(b) Any well which acts as a source or channel of contamination shall be repaired or permanently abandoned within 30 days of receipt of notice from the department.

(c) The drilling contractor shall permanently abandon any well in which the casing has not been installed or from which the casing has been removed, prior to removing his equipment from the site.

(d) The owner shall be responsible for permanent abandonment of a well except:

(1) As otherwise specified in these Rules; or

(2) If well abandonment is required because the driller improperly locates, constructs, or completes the well.

.0214 ABANDONMENT AND CHANGE-OF-STATUS OF WELLS

(a) In the event any injection or associated monitoring well is abandoned, either temporarily or permanently, the well owner shall notify the Director within 15 days and the well(s) shall be abandoned in accordance with one of the following procedures or other alternatives approved by the Director based on a demonstration of not adversely affecting human health or the environment:

- (1) Procedures for temporarily abandoned wells.
 - (A) Upon temporary removal from service, or prior to being put into service, the well shall be sealed with a water-tight cap or seal compatible with the casing and installed so that it cannot be removed without the use of hand or power tools.
 - (B) The well shall be maintained whereby it is not a source or channel of contamination to an underground source of drinking water during its temporary status.
 - (C) The well shall be repaired, to achieve compliance with the Rules in this Section, or permanently abandoned within 30 days of receipt of notice from the department, upon finding that a well is acting as a source or channel of contamination to an underground source of drinking water.
- (2) Procedures for permanently abandoned wells.
 - (A) All casing and materials may be removed prior to initiation of abandonment procedures if the Director finds such removal will not be responsible for, or contribute to, the contamination of an underground source of drinking water. Any casing not grouted in accordance with 15A NCAC 2C .0113 shall be removed or properly grouted.
 - (B) The entire depth of the well shall be sounded before it is sealed to insure freedom from obstructions that may interfere with sealing operations.
 - (C) The well shall be thoroughly disinfected, prior to sealing, if the Director determines that failure to do so could lead to the contamination of an underground source of drinking water.
 - (D) Drilled wells shall be completely filled with cement grout, which shall be introduced into the well through a pipe which extends to the bottom of the well and is raised as the well is filled. "Bored" or hand-dug wells over 24 inches in diameter may be filled with an alternative material approved by the Director based on a demonstration of not adversely affecting human health or the environment.
 - (E) In the case of gravel-packed wells in which the casing and screens have not been removed, ~~new~~ cement shall be injected into the well completely filling it from the bottom of the casing to the top.
 - (F) In those cases when, as a result of the injection operations, a subsurface cavity has been created, the well shall be abandoned in such a manner that will prevent the movement of fluids into or between underground sources of drinking water and in accordance with the terms and conditions of the permit.

(b) Exploratory or test wells, constructed for the purposes of obtaining information regarding an injection well site, shall be ~~permanently~~ abandoned in accordance with Subparagraph (2) of this Rule upon completion of their ~~exploratory~~ or testing status.

(c) An injection well shall be ~~permanently~~ abandoned by the drilling contractor before removing his equipment from the site if the well casing has not been installed or has been removed from the well bore.

*History Note: Authority G.S. 87-87; 87-88; 143-211; 143-215.1A; 143-215.3(a)(1); 143-215.3(c);
 Eff. August 1, 1982;
 Amended Eff. February 1, 1997; October 1, 1996.*

FAX NAME: EMD IRD
FAX NUMBER: 910 451 5997

DATE: 15-AUG-01
TIME: 12:46

DATE	TIME	REMOTE FAX NAME AND NUMBER	DURATION	PG	RESULT	DIAGNOSTIC
15-AUG	12:43 S	757 322 4805	0:03:36	6	OK	663840100166

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15-AUG	12:48 S	9043631421	0:03:28	6	OK	663840100188

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