

**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, Director**



September 3, 2008

Commanding General  
Attn: I&E/EMD/EQB (Dr. Johanna Arnold, Bldg. 12)  
PSC Box 20004  
MCB Camp Lejeune, NC 28542-0004

**Subject: Review of Letter Concerning Change  
in Corrective Action Plan  
Rapid Refueler 2<sup>nd</sup> 2002 Release  
Camp Lejeune, Onslow County  
Incident No. 32004  
Risk: Intermediate**

Dear Dr. Arnold:

Thank you for submitting the subject letter to the Division on August 26, 2008. The recommendation for the change in analytical methods is satisfactory at this time. You may implement the proposed change immediately. If you have any questions concerning this letter, please contact me at (910) 796-7400.

Sincerely,

**Bruce Reed  
Hydrogeologist II**

cc: WiRO-UST

s:\bruce\arnoldrr2nd2002.rev

Marine Corps Base Camp Lejeune  
EMD Document Routing Slip

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Correspondence ID Number

Due Date

Tickler #

Review

Tickler Closed

Action

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Signature

FROM: DIRECTOR

TO: EQB

RETURN:

COPY:

SUBJECT: REVIEW OF LETTER CONCERNING CHANGE IN CORRECTIVE ACTION PLAN, RAPID REFUELER  
2ND 2002 RELEASE

COMMENTS:

*Bryne / Johnson - fyi + action*  
*JL*

ROUTING: Originator: J LEDFORD

Initials: JCL

Date: 9/8/2008

1. J TOWNSON

Initials: *JL*

Date: 9/8/08

2.

Initials:

Date:

3.

Initials:

Date:

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*Johnson - original*  
*9/8/08*

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UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
PSC BOX 20004  
CAMP LEJEUNE, NC 28542-0004

**PERMANENT FILE**

IN REPLY REFER TO:  
5090.10

BEMD

**AUG 22 2008**

Mr. Bruce Reed  
North Carolina Department of Environment  
and Natural Resources  
Division of Waste Management  
Underground Storage Tank Section  
127 Cardinal Drive  
Wilmington, North Carolina 28405-3845

Dear Mr. Reed:

The Corrective Action Plan (CAP) for Underground Storage Tank Remediation Site, Rapid Refueler, located aboard Marine Corps Air Station, New River, North Carolina of August 10, 2004 contains a Section regarding Groundwater Monitoring Activities. This section requires that the dissolved phase of the groundwater samples be analyzed for MADEP EPH/VPH. For your convenience, a copy of the section is enclosed.

We respectfully request that the requirement for MADEP EPH/VPH analysis be waived until incident closure time. We are aware that this analytical method will be required prior to incident closure. You will be informed of any free product encountered in any monitoring well at the site that is currently removed on a weekly basis using a peristaltic pump.

If you have additional questions or require further information, please contact Dr. Johanna Arnold, Environmental Quality Branch, Environmental Management Division, Installations and Environment Department, at (910) 451-9114.

Sincerely,

JOHN R. TOWNSON  
Director, Environmental Management  
By direction of  
the Commanding Officer

Enclosure: Section 4.c. of CAP for UST Rapid Refueler

5090.10  
BEMD  
**AUG 22 2008**

Copy to: (w/o encl)  
NAVFACENGCOM (Mr. Mel Acree Code OPCEV4)  
OSAGE (Mr. Mike Cree)

**c. Groundwater Monitoring Activities**

On a semi-annual basis, it is recommended that site monitoring wells not containing free product be gauged and sampled to track the dissolved phase groundwater contamination. Groundwater samples should be analyzed per EPA Method 602 plus xylenes, 625 plus TICS and MADEP EPH/VPH.

**d. Reporting**

Free Product Recovery Reports are proposed to document MMPE events quarterly but will be submitted on an annual basis as part of the Annual Monitoring Report. The reports shall be prepared in accordance with Appendix B of the 2001 Guidelines for submittal to the NCDENR WiRO to include the following:

- Summary of the latest and historic free phase product and/or groundwater recovery data.
- Summary of the latest and historic groundwater level and free product thickness data.
- Updated site maps illustrating the latest groundwater table and free product data.
- Disposition of the recovered product and/or groundwater.

Annually, a Monitoring Report should be prepared in accordance with Appendix B, Section 11 of the 2001 Guidelines for submittal to the NCDENR WiRO to include the following:

- A brief summary to include a history of site and any additional recovery or assessment activities, which have occurred during the previous monitoring period.
- Evaluate the site groundwater EPA Methods 602 plus xylenes and MTBE, 625, MADEP EPH/VPH analyses data to applicable GCLs or IGWQS.
- Discussion of any remnant surficial groundwater contamination in relation to site receptors.
- The report will include site maps depicting the latest distribution of dissolved volatile organic compounds contaminant plume within the surficial groundwater and surficial water table contours.
- Recommendation section for optimization of site monitoring activities or additional remediation measures.

Marine Corps Base Camp Lejeune  
EMD Document Routing Slip

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Review

Action

Routing

Signature

FROM: EQB  
TO: DIRECTOR  
RETURN:  
COPY:

SUBJECT: Rapid Refueler: request to waive MADEP analysis until incident closure time

COMMENTS:

ROUTING: Originator: Johanna Arnold Initials: JA Date: 8/20/2008

1. Brynn Ashton Initials: BA Date: \_\_\_\_\_

2. J. Ledford Initials: RL Date: 8-21-08

3. \_\_\_\_\_ Initials: \_\_\_\_\_ Date: \_\_\_\_\_

Hard Copy Location: Bldg 12 Room: 241 Date filed: \_\_\_\_\_ Filed by: \_\_\_\_\_

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North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

July 9, 2008

Commanding Officer  
Attn: I&E/EMD/EQB Bldg. 12  
Dr. Johanna Arnold  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Re: Review of Annual Monitoring Report  
USMC Camp Lejeune Rapid Refueler  
Flight Line Area/Marine Corps Air Station  
Camp Lejeune, Onslow County  
Incident Numbers: 5668 and 21273  
Ranking: Intermediate

Dear Dr. Arnold:

The Annual Monitoring Report received by the Underground Storage Tank (UST) Section, Wilmington Regional Office on June 11, 2008 has been reviewed. A review of the report indicates that 12 wells could not be located at the site. These wells need to be found and gauged by October 9, 2008. Also, the site cleanup goal for free product is less than 1/8 inch or 0.010417 feet, not 0.25 inches as stated on Page 1-2.

The Division is concerned at the apparent product level increase in well RR-1G. The level on April 9, 2008 was reported to be 15.63 feet. The maximum level for the previous year was 0.59 feet. AFVR data sheets suggest that this well was vacuumed on April 12, 2008, and the product thickness on that date was 2.68 feet. Did any remedial efforts occur between April 9 and the April 12, 2008 on this well?

If you have any questions regarding this letter, please contact me at the address or telephone number listed below.

Sincerely,

Bruce Reed  
Hydrogeologist II  
Wilmington Regional Office

cc: WiRO-UST

UST Regional Offices

**Asheville (ARO)** – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

**Fayetteville (FAY)** – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

**Mooreville (MOR)** – 610 East Center Avenue, Suite 301, Mooreville, NC 28115 **(704) 663-1699**

**Raleigh (RRO)** – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

**Washington (WAS)** – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

**Wilmington (WIL)** – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

**Winston-Salem (WS)** – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

**Guilford County Environmental Health**, 1203 Maple Street, Greensboro, NC 27405, **(336) 641-3771**

S:\bruce\arnoldramr08

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Signature

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Oct 2  
Due Date

JUL 14 2008

FROM: DIRECTOR

TO: EQB

RETURN:

COPY:

SUBJECT: REVIEW OF ANNUAL MONITORING REPORT USMC CAMP LEJEUNE RAPID REFUELER FLIGHT LINE AREA

COMMENTS:

Bryan/Scott/Johanna - please ensure we respond to issues in this letter.

*JLF*

ROUTING: Originator: J LEDFORD Initials: JCL Date: 7/11/2008

1. J TOWNSON Initials: *JM* Date: 7/14/08

2. Initials: Date:

3. Initials: Date:

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*Johanna - original  
Scott - copy  
7/14/08*

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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, Director

August 12, 2005

Commanding General  
Attn: I&E/EMD/EQB (Mr. Andrew Smith, Bldg. 12)  
PSC Box 20004  
MCB Camp Lejeune, NC 28542-0004

Subject: Review of 2004-2005  
Monitoring Report  
Rapid Refueler at Marine Corps Air  
Station  
Camp Lejeune, Onslow County  
Incident No. 21273  
Intermediate Risk Classification

Dear Mr. Smith:

Thank you for submitting the subject report to the Division on July 25, 2005. The Division has reviewed the report and has the following comments:

- The report referenced on Page 11 that some top of casing information was suspect, and some top of casing elevations were not available. Please take appropriate action to correct this situation immediately.
- The exact locations and details concerning the 1988 to 1992 fuel spills should be investigated. Please report the findings to the Division by September 15, 2005.
- The Corrective Action Plan for this site called for periodic soil sampling at AS511-6 and RR-18. Please sample soil from these locations and submit the results to the Division as soon as possible, and preferably, prior to the submittal of the Optimization Plan.
- There are numerous times that wells were not measured for liquid levels due to a variety of reasons (well not accessible, well not installed, or well not included in gauging program). In the next report, please indicate specifically why each well was not gauged. Please submit a list of wells that were not accessible and the reason why by September 15, 2005.

*Faxed + Mailed  
Oct 2005*

*Soil Sampling Results  
Hand delivered 11/15/05  
@ UST Partnering Mtg.*

*Faxed + Mailed  
Oct 2005*



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

April 13, 2005

Commanding General  
Director, I&E/EMD/EQB  
Attn: Ms. Nikki Hall (Bldg. 12)  
PSC Box 20004  
MCB Camp Lejeune, NC 28542-0004

Re: **Notice of No Further Action**  
15A NCAC 2L .0115(h)  
Risk-based Assessment and Corrective Action  
for Petroleum Underground Storage Tanks

USMC MCAS 2005 JP-5 Line Release  
White Street  
Camp Lejeune, Onslow County  
Incident Number: 32219  
Risk Classification: Low  
Ranking: LOR

*along*

*• not in database  
• on white st just  
before going out  
onto tarmac.*

Dear Ms. Hall:

The Soil Contamination Report received by the Underground Storage Tank (UST) Section, Wilmington Regional Office on April 11, 2005 has been reviewed. The review indicates that after tank closure or soil excavation soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0115(m).

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0115(e) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

January 4, 2005

Ms. Nikki Hall  
Attn.: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Re: Notice of Regulatory Requirements  
15A NCAC 2L .0115(g)  
Risk-based Assessment and Corrective Action  
for Petroleum Underground Storage Tanks  
USMC-Camp Lejeune, Rapid Refueler 2<sup>nd</sup> 2002  
Release  
Camp Lejeune-MCAS-Onslow County  
Risk Classification: Intermediate  
Incident No. 32004

Dear Ms. Hall:

The Corrective Action Plan (CAP) received on August 11, 2004 has been reviewed by the Underground Storage Tank (UST) Section, Wilmington Regional Office. Notification of the proposed plan was provided to the required persons, in accordance with Title 15A NCAC 2L .0115(j), for a 30-day public comment period that ended on October 25, 2004; no public comments were received. The plan and the schedule are hereby approved, with no modifications.

Failure to implement the plan and schedule in the manner and time specified may result in the assessment of civil penalties and/ or the use of other enforcement mechanisms.

Effective October 1, 2004, the Department requires that all work following the submittal of the Limited Site Assessment Report (Title 15A NCAC 2L .0115(c)) be preapproved if State Trust Fund reimbursement is anticipated. To comply with this requirement, a completed Preapproval/Claim Authorization Form, encompassing the required remedial activities, must be received in this office within 14 days of the date of this letter. Upon completion of the preapproved activities, you should submit your claim promptly. Reimbursement funds are budgeted based on completed preapprovals, but lengthy delays in reimbursement can occur if claims are not submitted immediately following work completion.

See schedule attached - NLH

**Hall GS11 Nicole L**

---

**From:** Hall GS11 Nicole L  
**Sent:** Wednesday, January 05, 2005 11:35 AM  
**To:** 'bruce.reed@ncmail.net'  
**Cc:** Dave Cleland (E-mail); John O'Donovan (E-mail); Mike E. Mason (E-mail)  
**Subject:** Proposed Schedule: Rapid Refueler A-B Tanks CAP Implementation

Bruce - as requested, this is the estimated schedule for implementation of the CAP at the Rapid Refueler A-B tanks. Please let me know if you have additional questions or concerns. I will keep you updated on progress.

**Proposed Schedule**

Jan 2005	Fund design of proposed system
Jan/Feb 2005	Begin design of recovery trench system
July 2005	Fund construction of proposed system
Aug/Sept 2005	Install recovery trench system
Dec 2005	Activate recovery trench system
Dec 2005 - Nov 2006	Operate and maintain recovery trench system, includes -Perform MMPE events monthly for one year - document with free product reports. -Gauge and sample monitoring wells not containing free product semiannually. Analyze per methods 602, 625, and MADEP VPH/EPH.
Dec 2006/Jan 2007	Submit annual monitoring report.

Respectfully,  
Nikki Hall

*Nikki Hall*  
Environmental Engineer  
I&E/EMD/EQB  
Marine Corps Base Camp Lejeune  
(910) 451-9610  
(910)451-5997 fax  
751-9610 DSN



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

Division of Waste Management  
Underground Storage Tank Section

Dexter R. Matthews, Director

April 13, 2005

Commanding General  
Director, I&E/EMD/EQB  
Attn: Ms. Nikki Hall (Bldg. 12)  
PSC Box 20004  
MCB Camp Lejeune, NC 28542-0004

Re: Notice of No Further Action  
15A NCAC 2L .0115(h)  
Risk-based Assessment and Corrective Action  
for Petroleum Underground Storage Tanks

USMC MCAS ~~2005 JP-5 Line Release~~

White Street

Camp Lejeune, Onslow County

~~Incident Number: 32219~~

Risk Classification: Low

Ranking: L0R

*Not in database  
Rapid Refueler  
area*

Dear Ms. Hall:

The Soil Contamination Report received by the Underground Storage Tank (UST) Section, Wilmington Regional Office on April 11, 2005 has been reviewed. The review indicates that after tank closure or soil excavation soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0115(m).

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0115(e) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

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, Director

July 22, 2004

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

Re: Notice of Regulatory Requirements  
15A NCAC 2L .0115(d)  
Risk-based Assessment and Corrective Action for Petroleum Underground Storage Tanks  
USMC-Camp Lejeune-Rapid Refueler-2003 Release  
Camp Lejeune  
Onslow County  
Incident # 32086  
Intermediate Risk Classification

Dear Ms. Hall:

Information received by this office on October 9, 2003 confirms a release or discharge from a petroleum underground storage tank (UST) system at the above-referenced location. Records indicate that the USMC is the owner and/or operator of this UST system. This letter is a standard notice explaining the actions the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the State's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

The risk-based rule for petroleum USTs, 15A NCAC 2L .0115(d), states that the Department shall classify the risk of each known discharge or release from the UST system. A review of information you have provided to this office indicates that:

- (1) The levels of groundwater contamination for any contaminant except ethylene dibromide, benzene and aliphatic and aromatic carbon fraction classes exceeds 50 percent of the solubility of the contaminant at 25 degrees Celsius or 1,000 times the groundwater standard or interim standard established in 15A NCAC 2L .0202, whichever is lower;

One  
North Carolina  
*Naturally*

- (2) The levels of groundwater contamination for ethylene dibromide and benzene exceeds 1,000 times the federal drinking water standard set out in 40 CFR 141.

Based on the conditions above, the discharge or release at the subject site has been classified as "**intermediate risk.**" In addition, the land use at the site has been classified as industrial/commercial. Please note that 15A NCAC 2L .0115(e) requires the USMC to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Session Law 2003-352 requires the Department to consider the availability of funds in the Commercial Fund and the order in which the discharge or release was reported in setting the schedule for further assessment or cleanup.

**As a result, at this time, the USMC is directed to proceed only with assessment, removal, and cleanup of contaminated soil and assessment, removal, and cleanup of free product with a thickness of ¼" or greater. At this time, the USMC is not directed to proceed with any assessment or cleanup of contaminated groundwater. However, the USMC is not relieved of the requirements for further groundwater assessment and cleanup whenever the Department deems them to be necessary and directs the USMC to proceed or when Section 10 of Session Law 2003-352 expires (1 October 2005).**

*Note: You are not prohibited from conducting any groundwater assessment or cleanup activities if you choose to do so. However, any claims against the Commercial Fund for costs of activities that have not been specifically directed by the Department will be paid after all claims for costs of activities directed by the Department for this and other UST releases. Because of the imbalance between the revenue coming into the Commercial Fund and the potential claims for assessment and cleanup, there will be a considerable delay in reimbursement for activities not directed to proceed by the Department.*

Based on the determination that the risk posed by the discharge or release at the subject site is intermediate, the USMC must comply with assessment requirements pursuant to 15A NCAC 2L .0115(g). To achieve compliance with this rule, please submit a Comprehensive Site Assessment (CSA) Report in accordance with 15A NCAC 2L .0106(c), 15A NCAC 2L .0106(g), 15A NCAC 2N .0706 and the most recent version of the UST Section guidelines for assessment and corrective action. The guidelines are available on the Internet at <http://ust.ehnr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the guidelines, please send a check made payable to DENR to:

DENR/DWM/UST Section  
1637 Mail Service Center  
Raleigh, NC 27699-1637

As part of the Comprehensive Site Assessment, the USMC shall also evaluate, based on site-specific conditions, whether the discharge or release poses a significant risk to human health or the environment. The CSA Report must be received by this office **within 90 days** of the date of receipt of this notice. In addition, the USMC must submit a summary of the CSA Report to the local Health Director and the local Chief Administrative Officer in accordance with 15A NCAC 2L .0114. The

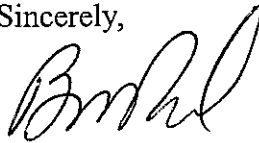
summary should be submitted to these persons no later than five working days after submittal of the CSA Report to this office.

The USMC's prompt attention to the items described herein is required. Failure to comply with the State's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation.

Please note that performing assessment and cleanup work that is not required under 15A NCAC 2L. 0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

If there are any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the Wilmington Regional Office at the letterhead address and at (910) 395-3900. If there are any questions regarding trust fund eligibility or reimbursement, please contact the UST Section Trust Fund Branch in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

cc: George O'Daniel (Onslow County Health Department)  
WiRO-UST

hallr2003.int

FROM: I&E: YES/NO

Due Date to I&E: \_\_\_\_\_

INSTALLATIONS AND ENVIRONMENT DEPARTMENT  
Environmental Management Division  
Correspondence Tracking Sheet

Tickler # \_\_\_\_\_

Due Date: \_\_\_\_\_

Date Received: 7-27-04

Lead Office  
for joint response: \_\_\_\_\_

Assigned to: \_\_\_\_\_ *EQB*

Copy to: (ECB) (EQB) (ECON)  
\_\_\_\_\_

Subject: NLDENR - NOTICE OF REG. REQS - Risk-based Assessment +  
Corrective Action for petroleum USTs incident #1 32086.

ACTION: (ECB) (EQB) (ECON)

*Byron/Wilbur - Please  
take for action. let me  
know if funding is needed  
or other issues are involved  
to get to successful completion  
of this letter's requirements.*  
*TK*  
*83*

Additional comments/remarks: \_\_\_\_\_

SCOTT A. BREWER, PE  
DIRECTOR

Faxed to MEMTUC  
10/27 -NCH

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, Director

October 13, 2003

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(c)  
RISK-BASED ASSESSMENT AND  
CORRECTIVE ACTION FOR PETROLEUM  
UNDERGROUND STORAGE TANKS  
USMC-Camp Lejeune-Rapid Refueler-2003  
Release  
Camp Lejeune, Onslow County, N.C.  
**Risk: Intermediate**  
**Incident No. Pending**

Dear Ms. Hall:

Information received by this office on October 9, 2003, confirms a release or discharge from a petroleum underground storage tank (UST) system at the above referenced location. Records indicate that the USMC is the owner and/or operator of this UST tank system. This letter is a standard notice explaining the actions that the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the state's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

As a responsible party, the USMC is required to comply with the release response and corrective action requirements of 15A NCAC 2L .0115(c), which include the requirements established in 15A NCAC 2N. Listed is a general description of actions that the USMC must take to comply with State rules. For a detailed description of your requirements please refer to the enclosed rules and the July 2001 UST Section Guidelines for Assessment and Corrective Action. The Guidelines are available on the Internet at <http://ust.enr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the Guidelines, please send a check made payable to DENR to:

Ms. Nikki Hall  
October 13, 2003  
Page 3

The USMC's prompt attention to the items described herein is required. Failure to comply with the state's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation. If the USMC believes that it is not the responsible party notify the UST Section within **15 days** of receipt of this letter.

Please note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

If the USMC has any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the letterhead address and/or at (910) 395-3900. If the USMC has any questions regarding trust fund eligibility or reimbursement, please contact the UST Section in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: George O'Daniel (Onslow County Health Dept.)  
WiRO-UST

s:\bruce\hallrrab2003.oct

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, Director

faxed to MEM + JC  
10/27 -NLH

Thomas  
N 9  
25



For Action:  
note CAP Deadline  
of Nov. 25.

September 22, 2003

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(f)  
USMC-Camp Lejeune-Rapid Refueler-2nd 2002  
Release  
Camp Lejeune, Onslow County  
Incident No. 32004  
Intermediate Risk Classification

Dear Ms. Hall:

Information received by this office on October 16, 2002 confirms a release or discharge from a petroleum underground storage tank (UST) system at the above-referenced location. Records indicate that the USMC is the owner and/or operator of this (UST) system. This letter is a standard notice explaining the violation(s) and associated corrective action(s) the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the state's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

On September 15, 2003, the UST Section of the Division's Wilmington Regional Office received a Comprehensive Site Assessment Report (CSA) for the subject site. A review of the report indicates that corrective action is necessary to remediate environmental contamination. This review also concluded that the extent of contamination was not defined. Your recommendation to submit complete assessment work in the Corrective Action Plan is acceptable at this time. The CSA will remain incomplete until this full definition has been achieved. Therefore, the USMC should submit a Corrective Action Plan and a schedule in accordance with 15A NCAC 2N .0707, NCAC 2L .0106(h) and the most recent version of the UST Section guidelines for assessment and corrective action. The guidelines are available on the

Internet at <http://ust.enr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the guidelines, please send a check made payable to DENR to:

DENR/DWM/UST Section  
1637 Mail Service Center  
Raleigh, NC 27699-1637

Pursuant to 15A NCAC 2L .0115(g), any groundwater contaminant except ethylene dibromide, benzene and aliphatic and aromatic hydrocarbon fraction classes shall be remediated, at a minimum, to a cleanup level of 50 percent of the solubility of the contaminant at 25 degrees Celsius or 1,000 times the groundwater standard or interim standard established in 15A NCAC 2L .0202, whichever is lower. Ethylene dibromide and benzene shall be remediated, at a minimum, to a cleanup level of 1,000 times the federal drinking water standard set out in 40 CFR 141. In addition, it shall be demonstrated that proposed groundwater cleanup goals are sufficient to prevent a violation of:

- (1) Surface water standards and criteria in 15A NCAC 2B;
- (2) The groundwater standards established in 15A NCAC 2L .0202 at a location no closer than one year time of travel upgradient of a well within a designated wellhead protection area, based on travel time and the natural attenuation capacity of the subsurface materials or on a physical barrier to groundwater migration that exists or will be installed by the person making the request; and
- (3) The groundwater standards established in 15A NCAC 2L .0202 in a deep aquifer in the Coastal Plain that is or could be used as a source for drinking water.

Please be advised that in any Corrective Action Plan, natural attenuation of groundwater contamination shall be used to the maximum extent possible. In addition, the Corrective Action Plan must propose appropriate strategies to remediate soil contamination **to the lowest of:**

- (1) Industrial/Commercial maximum soil contaminant concentrations or
- (2) Soil-to-groundwater maximum soil contaminant concentrations.

A Corrective Action Plan and schedule for implementation should be received by this office by **November 25, 2003**. A responsible party who submits a Corrective Action Plan that proposes to remediate groundwater by natural attenuation or to cleanup groundwater contamination to a standard other than a standard or interim standard established in 15A NCAC 2L .0202, must provide public notice as specified in 15A NCAC 2L.0115(j).

Ms. Nikki Hall  
September 22, 2003  
Page 3

Also note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

The USMC's prompt attention to the items described herein is required. Failure to comply with the State's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation.

If there are any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the letterhead address and/or at (910) 395-3900. If you have any questions regarding trust fund eligibility or reimbursement, please contact the UST Section in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: George O'Daniel (Onslow County Health Department)  
WiRO-UST

s:\bruce\hallrr.cap

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, Director



June 4, 2003

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

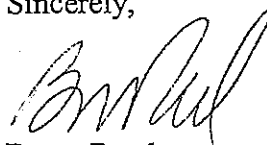
Subject: Time Extension  
USMC-Camp Lejeune, Rapid Refueler 2<sup>nd</sup>  
2002 Release  
Camp Lejeune, Onslow County  
Incident No. 32004

Dear Ms. Hall:

The Division has reviewed the subject time extension request that was received by this office on June 3, 2003. The extension is granted. If the report is not received by the new due date (October 3, 2003), fines and penalties may be assessed from the original due date.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,



Bruce Reed  
Hydrogeologist II

cc: WIRO-UST

s:\ust\bruce\halltime.jun



UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
PSC Box 20004  
Camp Lejeune, North Carolina 28542-0004

RFAD FII F

In reply refer to:  
6287  
BEMD

MAY 30 2003

Mr. Bruce Reed  
North Carolina Department of Environment  
and Natural Resources  
Division of Waste Management  
Underground Storage Tank Section  
127 Cardinal Drive  
Wilmington, North Carolina 28405-3845

Dear Mr. Reed:

Marine Corps Base, Camp Lejeune respectfully requests a time extension for the Comprehensive Site Assessment at the Rapid Refueler A-B Tank Area (incident #32004). We expect to send the assessment report to your office by October 3, 2003.

Catlin Engineers and Scientists has submitted their Work Plan, in which they propose installing five Type II monitoring wells and one Type III monitoring well. Work should begin in late June. If further delays are encountered, we will contact you immediately.

As always, we appreciate your understanding in these matters. If you have questions or need more information, please contact Ms. Nikki Hall, Environmental Quality Branch, Environmental Management Division, Installations and Environment Department, at (910) 451-9610.

Sincerely,

SCOTT A. BREWER, PE  
Director, Environmental Management  
By direction of  
the Commanding General

Copy to:  
NAVFACENCOM (Mr. Conway Code EV32JC)  
Catlin (Mr. Mike E. Mason)

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, Director

February 10, 2003

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

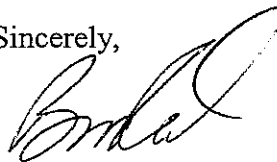
Subject: Time Extensions  
USMC-Camp Lejeune, M-230-2, PP-3350,  
and Two Rapid Refueler Incidents  
Camp Lejeune, Onslow County

Dear Ms. Hall:

The Division has reviewed the subject time extension requests that were received by this office on January 27, 2003. The extensions are granted. If the reports are not received by the new due date, fines and penalties may be assessed from the original due date.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,



Bruce Reed  
Hydrogeologist II

Attachments

cc: WiRO-UST

s:\ust\bruce\halltime.feb

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, Director



October 17, 2002

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(c)  
RISK-BASED ASSESSMENT AND  
CORRECTIVE ACTION FOR PETROLEUM  
UNDERGROUND STORAGE TANKS  
USMC-Camp Lejeune-Rapid Refueler-2nd 2002  
Release  
Camp Lejeune, Onslow County, N.C.  
Risk: Intermediate  
Incident No. 32004

Dear Ms. Hall:

Information received by this office on October 16, 2002, confirms a release or discharge from a petroleum underground storage tank (UST) system at the above referenced location. Records indicate that the USMC is the owner and/or operator of this UST tank system. This letter is a standard notice explaining the actions that the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the state's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

As a responsible party, the USMC is required to comply with the release response and corrective action requirements of 15A NCAC 2L .0115(c), which include the requirements established in 15A NCAC 2N. Listed is a general description of actions that the USMC must take to comply with State rules. For a detailed description of your requirements please refer to the enclosed rules and the July 2001 UST Section Guidelines for Assessment and Corrective Action. The Guidelines are available on the Internet at <http://ust.enr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the Guidelines, please send a check made payable to DENR to:

DENR/DWM/UST Section  
1637 Mail Service Center  
Raleigh, NC 27699-1637

Required Actions:

- 1) If the USMC has not already done so, the USMC must take immediate action to prevent any further release of the regulated substance into the environment and to identify and mitigate any fire, explosion and vapor hazards; remove any free product; and comply with the requirements of Rules .0601 through .0604 and .0701 through .0703 and .0705 of Subchapter 2N;
- 2) Incorporate the requirements of 15A NCAC 2N .0704 into the report to be submitted in accordance with 15A NCAC 2L .0115 (c)(3) or (c)(4), whichever is applicable (see Item #3 below). This shall constitute compliance with the reporting requirements of 15A NCAC 2N .0704(b);
- 3) If the USMC can demonstrate that no soil remains in the unsaturated zone in the sidewalls and at the base of the UST system excavation with contaminant levels exceeding either the "soil-to-groundwater" or the residential maximum soil contaminant concentrations (See Guidelines), whichever are lower, then submit a Soil Contamination Report in accordance with 15A NCAC 2L.0115(c)(3). The Soil Contamination Report, if applicable, is due in this office within **90 days** of the date of receipt of this notice. Upon approval of this report, the Department will issue a notice indicating that no further action related to this incident is required; or,
- 4) If the requirements of 15A NCAC .0115(c)(3) cannot be met as described in Item #3 above, submit a Limited Site Assessment (LSA) Report in accordance with 15A NCAC 2L .0115(c)(4), containing information needed by the Department to classify the level of risk to human health and the environment posed by the discharge or release. The LSA Report is due in this office within **120 days** of the date of receipt of this notice. Based on a review of the information submitted in the LSA, the Department will classify the risk of the discharge or release as high, intermediate or low. At that time, the Department will also classify the land use of the site as either residential or industrial/commercial. The USMC will be notified of the risk and land use classifications once review of your LSA Report is completed.

If the USMC believes that any of the information requested above has already been submitted, please notify me of the date, title, and content of the documents that contain the information.

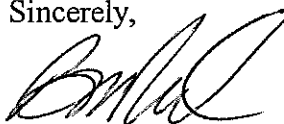
Ms. Nikki Hall  
October 17, 2002  
Page 3

The USMC's prompt attention to the items described herein is required. Failure to comply with the state's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation. If the USMC believes that it is not the responsible party notify the UST Section within **15 days** of receipt of this letter.

Please note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

If the USMC has any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the letterhead address and/or at (910) 395-3900. If the USMC has any questions regarding trust fund eligibility or reimbursement, please contact the UST Section in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: George O'Daniel (Onslow County Health Dept.)  
WiRO-UST

*s:\bruce\hallrrab.oct*

## FAX TRANSMITTAL

# of pages ▶ 3

To <b>LORE REUTHER</b>	From <b>THOMAS BUSTON</b>
Dept./Agency	Phone #
Fax # <b>919-262-4804</b>	Fax #
NSN 7540-01-317-7368	5099-101 GENERAL SERVICES ADMINISTRATION

**NCDENR**NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES

**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, Director**

October 17, 2002

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(c)  
RISK-BASED ASSESSMENT AND  
CORRECTIVE ACTION FOR PETROLEUM  
UNDERGROUND STORAGE TANKS  
USMC-Camp Lejeune-Rapid Refueler-2nd 2002  
Release  
Camp Lejeune, Onslow County, N.C.  
Risk: Intermediate  
Incident No. 32004

Dear Ms. Hall:

Information received by this office on October 16, 2002, confirms a release or discharge from a petroleum underground storage tank (UST) system at the above referenced location. Records indicate that the USMC is the owner and/or operator of this UST tank system. This letter is a standard notice explaining the actions that the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the state's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

As a responsible party, the USMC is required to comply with the release response and corrective action requirements of 15A NCAC 2L .0115(c), which include the requirements established in 15A NCAC 2N. Listed is a general description of actions that the USMC must take to comply with State rules. For a detailed description of your requirements please refer to the enclosed rules and the July 2001 UST Section Guidelines for Assessment and Corrective Action. The Guidelines are available on the Internet at <http://ust.enr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the Guidelines, please send a check made payable to DENR to:

DENR/DWM/UST Section  
1637 Mail Service Center  
Raleigh, NC 27699-1637

Required Actions:

- 1) If the USMC has not already done so, the USMC must take immediate action to prevent any further release of the regulated substance into the environment and to identify and mitigate any fire, explosion and vapor hazards; remove any free product; and comply with the requirements of Rules .0601 through .0604 and .0701 through .0703 and .0705 of Subchapter 2N;
- 2) Incorporate the requirements of 15A NCAC 2N .0704 into the report to be submitted in accordance with 15A NCAC 2L .0115 (c)(3) or (c)(4), whichever is applicable (see Item #3 below). This shall constitute compliance with the reporting requirements of 15A NCAC 2N .0704(b);
- 3) If the USMC can demonstrate that no soil remains in the unsaturated zone in the sidewalls and at the base of the UST system excavation with contaminant levels exceeding either the "soil-to-groundwater" or the residential maximum soil contaminant concentrations (See Guidelines), whichever are lower, then submit a Soil Contamination Report in accordance with 15A NCAC 2L.0115(c)(3). The Soil Contamination Report, if applicable, is due in this office within **90 days** of the date of receipt of this notice. Upon approval of this report, the Department will issue a notice indicating that no further action related to this incident is required; or,
- 4) If the requirements of 15A NCAC .0115(c)(3) cannot be met as described in Item #3 above, submit a Limited Site Assessment (LSA) Report in accordance with 15A NCAC 2L .0115(c)(4), containing information needed by the Department to classify the level of risk to human health and the environment posed by the discharge or release. The LSA Report is due in this office within **120 days** of the date of receipt of this notice. Based on a review of the information submitted in the LSA, the Department will classify the risk of the discharge or release as high, intermediate or low. At that time, the Department will also classify the land use of the site as either residential or industrial/commercial. The USMC will be notified of the risk and land use classifications once review of your LSA Report is completed.

If the USMC believes that any of the information requested above has already been submitted, please notify me of the date, title, and content of the documents that contain the information.

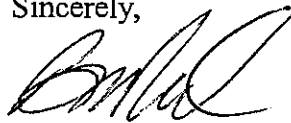
Ms. Nikki Hall  
October 17, 2002  
Page 3

The USMC's prompt attention to the items described herein is required. Failure to comply with the state's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation. If the USMC believes that it is not the responsible party notify the UST Section within **15 days** of receipt of this letter.

Please note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

If the USMC has any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the letterhead address and/or at (910) 395-3900. If the USMC has any questions regarding trust fund eligibility or reimbursement, please contact the UST Section in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: George O'Daniel (Onslow County Health Dept.)  
WiRO-UST

s:\bruce\hallrabb.oct

**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, Director**

September 30, 2002

Mr. Thomas Burton  
Attention: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

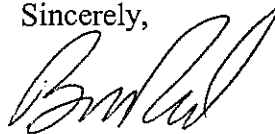
Subject: Time Extension  
USMC-Camp Lejeune, Rapid Refueler  
Area (JP-5 Line Leak)/2002 Release  
Incident No. Pending  
Camp Lejeune, Onslow County

Dear Mr. Burton:

The Division has reviewed the subject time extension request that was received by this office on September 26, 2002. The extension is granted. If the report is not received by the new due date, fines and penalties may be assessed from the original due date.

If you have any questions concerning this letter, please contact me at (910) 395-3900.

Sincerely,



Bruce Reed  
Hydrogeologist II

cc: WiRO-UST

*s:\ust\bruce\halltime.sep*



UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
PSC Box 20004  
Camp Lejeune, North Carolina 28542-0004

READ FILE

In reply refer to:  
6287  
BEMD

SEP 19 2002

Mr. Bruce Reed  
North Carolina Department of Environment  
and Natural Resources  
Division of Waste Management  
UST Section  
127 Cardinal Drive  
Wilmington, North Carolina 28405-3845

Dear Mr. Reed:

Camp Lejeune received your May 29, 2002 Notice Of Regulatory Requirement letter requiring additional action at the Rapid Refueler-2 site. As funding for site assessment actions was only recently received, we would like to request an extension of the due date for this site. We expect to send the required information to your office by December 20, 2002.

We assure you that the required work will be performed as soon as possible. Currently, Catlin Engineers and Scientists have finalized a workplan and are scheduled to perform the fieldwork portion of this study in October. If any delays are expected in the proposed December delivery date, we will contact you immediately.

If you have questions or need further information, please contact Mr. Thomas Burton, Environmental Quality Branch, Environmental Management Division, Installations and Environment Department, at (910) 451-9612.

Sincerely,

SCOTT A. BREWER, PE

Director, Environmental Management  
By direction of  
the Commanding General

Copy to:  
NAVFACENCOM (Ms. Reuther Code EV21LR)

## FAX TRANSMITTAL

# of pages ▶ 3

To	<i>Mike Mason</i>	From	<i>Dikki</i>
Dept./Agency		Phone #	
Fax #	<i>910-452-7563</i>	Fax #	<i>910-451-5997</i>
NSN 7540-01-317-7388	5099-101	GENERAL SERVICES ADMINISTRATION	

**NCDENR**NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES*Work funded 8/2002*

**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, Director**

May 29, 2002

Ms. Nikki Hall  
Attn: Director, I&E/EMD/EQB  
Marine Corps Base  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(c)  
RISK-BASED ASSESSMENT AND  
CORRECTIVE ACTION FOR PETROLEUM  
UNDERGROUND STORAGE TANKS  
**USMC-Camp Lejeune-Rapid Refueler Area** *RapRef-2*  
**(JP-5 Line Leak)**  
**Camp Lejeune, Onslow County, N.C.**  
**Risk: Intermediate**  
**Incident No. Pending**

Dear Ms. Hall:

Information received by this office on May 23, 2002, confirms a release or discharge from a petroleum underground storage tank (UST) system at the above referenced location. Records indicate that the USMC is the owner and/or operator of this UST tank system. This letter is a standard notice explaining the actions that the USMC must take as a result of the release or discharge in accordance with North Carolina statutes and rules. The UST Section of the Division of Waste Management administers the state's rules for USTs and the required response for petroleum releases. Those rules are located in Title 15A, Subchapter 2L and Title 15A, Subchapter 2N of the North Carolina Administrative Code (NCAC).

As a responsible party, the USMC is required to comply with the release response and corrective action requirements of 15A NCAC 2L .0115(c), which include the requirements established in 15A NCAC 2N. Listed is a general description of actions that the USMC must take to comply with State rules. For a detailed description of your requirements please refer to the enclosed rules and the July 2001 UST Section Guidelines for Assessment and Corrective Action. The Guidelines are available on the Internet at <http://ust.enr.state.nc.us> or may be purchased from the UST Section for a fee of \$8.50. To purchase a copy of the Guidelines, please send a check made payable to DENR to:

DENR/DWM/UST Section  
1637 Mail Service Center  
Raleigh, NC 27699-1637

Required Actions:

- 1) If the USMC has not already done so, the USMC must take immediate action to prevent any further release of the regulated substance into the environment and to identify and mitigate any fire, explosion and vapor hazards; remove any free product; and comply with the requirements of Rules .0601 through .0604 and .0701 through .0703 and .0705 of Subchapter 2N;
- 2) Incorporate the requirements of 15A NCAC 2N .0704 into the report to be submitted in accordance with 15A NCAC 2L .0115 (c)(3) or (c)(4), whichever is applicable (see Item #3 below). This shall constitute compliance with the reporting requirements of 15A NCAC 2N .0704(b);
- 3) If the USMC can demonstrate that no soil remains in the unsaturated zone in the sidewalls and at the base of the UST system excavation with contaminant levels exceeding either the "soil-to-groundwater" or the residential maximum soil contaminant concentrations (See Guidelines), whichever are lower, then submit a Soil Contamination Report in accordance with 15A NCAC 2L.0115(c)(3). The Soil Contamination Report, if applicable, is due in this office within **90 days** of the date of receipt of this notice. Upon approval of this report, the Department will issue a notice indicating that no further action related to this incident is required; or,
- 4) If the requirements of 15A NCAC .0115(c)(3) cannot be met as described in Item #3 above, submit a Limited Site Assessment (LSA) Report in accordance with 15A NCAC 2L .0115(c)(4), containing information needed by the Department to classify the level of risk to human health and the environment posed by the discharge or release. The LSA Report is due in this office within **120 days** of the date of receipt of this notice. Based on a review of the information submitted in the LSA, the Department will classify the risk of the discharge or release as high, intermediate or low. At that time, the Department will also classify the land use of the site as either residential or industrial/commercial. The USMC will be notified of the risk and land use classifications once review of your LSA Report is completed.

If the USMC believes that any of the information requested above has already been submitted, please notify me of the date, title, and content of the documents that contain the information.

Ms. Nikki Hall  
May 29, 2002  
Page 3

The USMC's prompt attention to the items described herein is required. Failure to comply with the state's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation. If the USMC believes that it is not the responsible party notify the UST Section within **15 days** of receipt of this letter.

Please note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds.

If the USMC has any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact me at the letterhead address and/or at (910) 395-3900. If the USMC has any questions regarding trust fund eligibility or reimbursement, please contact the UST Section in Raleigh at (919) 733-8486.

Sincerely,



Bruce Reed  
Hydrogeologist II

BR

cc: George O'Daniel (Onslow County Health Dept.)  
WiRO-UST

s:\bruce\hallrr.may

FAX NAME:            EMD IRD  
F NUMBER:            910 451 5997

DATE: 03-JUN-02  
TIME:            15:18

DATE	TIME	REMOTE FAX NAME AND NUMBER	DURATION	PG	RESULT	DIAGNOSTIC
03-JUN	15:15 S	+9104527563	0:01:42	3	OK	663840100190

\*\*\*\*\*

S=FAX SENT  
I=POLL IN(FAX RECEIVED)  
O=POLLED OUT(FAX SENT)

TO PRINT THIS REPORT AUTOMATICALLY, SELECT AUTOMATIC REPORTS IN THE SETTINGS MENU.  
TO PRINT MANUALLY, PRESS THE REPORT/SPACE BUTTON, THEN PRESS ENTER.

FAX NAME:            EMD IRD  
F. NUMBER:         910 451 5997

DATE: 03-JUN-02  
TIME:         15:14

DATE	TIME	REMOTE FAX NAME AND NUMBER	DURATION	PG	RESULT	DIAGNOSTIC
03-JUN	15:12 S	757 322 4805	0:01:40	3	OK	663840100166

\*\*\*\*\*

S=FAX SENT  
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TO PRINT MANUALLY, PRESS THE REPORT/SPACE BUTTON, THEN PRESS ENTER.

OPTIONAL FORM 99 (7-90)

**FAX TRANSMITTAL**

# of pages **3**

To <b>LORI FEATHER</b>	From <b>Nilcki</b>
Dept./Agency	Phone #
Fax # <b>94-262-4804</b>	Fax # <b>910-451-5997</b>

Attn: I&E/EMD/EQB  
PSC Box 20004  
Camp Lejeune, NC 28542-0004  
Phone: (910) 451-9610  
Fax: (910) 451-5997

**Camp Lejeune EMD**

# Fax

**To:** Lori Reuther **From:** Nikki Hall  
**Fax:** **Date:**  
**Phone:** **Pages:** 1/3  
**Re:** Faxes

Urgent  For Review  Please Comment  Please Reply  Please Recycle

**•Comments:**

- 0 - JP5 Line Leak well for BA monitoring
- Rapid refueler release location



State of North Carolina  
Department of Environment, Health, and Natural Resources  
Wilmington Regional Office

James B. Hunt, Jr., Governor  
Jonathan B. Howes, Secretary

*DIVISION OF ENVIRONMENTAL MANAGEMENT*  
*Groundwater Section*

Bob Jamieson  
Regional Manager

March 18, 1993

**CERTIFIED MAIL P 813 413 003**  
**RETURN RECEIPT REQUESTED**

Lawrence H. Livingston, Commanding General  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

Subject: **NOTICE OF REGULATORY REQUIREMENTS**  
Release of Petroleum from a Commercial  
Underground Storage Tank  
New River Marine Corps Air Station  
Aircraft Rapid Refuel Station  
Camp Lejeune  
Onslow County

Dear General Livingston:

Thank you for notifying us on March 3, 1993 of the release of petroleum from an underground storage tank or tanks at the subject location. This letter is to advise the United States Marine Corps of the requirements of applicable State law and regulation.

The Division of Environmental Management (the Division) administers the regulations for underground storage tanks. They are found at Title 15A Chapter 2 Subchapter 2N of the North Carolina Administrative Code (15A NCAC 2N). State law (N.C.G.S. 143.215.94E) also applies and requires the United States Marine Corps to immediately begin cleaning up the release and to restore the area to pre-spill conditions.

The attached excerpt from the regulations describes what must be done. You should pay particular attention to the following:

1. The initial response actions in section .0702;
2. The requirement to begin free product removal within 14 days of the release;
3. The report of initial response and free product removal within 20 days of the release (see .0703);

General Livingston

March 18, 1993

Page 2

4. The report of information about the site and the release within 45 days of the release (see .0704); and
5. The investigation for soil and groundwater cleanup in section .0706.

After reviewing the reports, the Division may require additional information or a corrective action plan for cleanup of contaminated soils or groundwater.

The reports required by paragraphs 3 and 4 above are due not later than April 18, 1993 and May 18, 1993, respectively. In addition, a comprehensive site assessment as described in 15A NCAC 2N .0706 should be submitted to our office not later than June 18, 1993 and the corrective action plan described in 15A NCAC 2N .0707 may be required upon receipt of the assessment. It is important that these deadlines be met or an extension of time be requested for good cause. A civil penalty of up to \$10,000 for each day of non-compliance may be assessed.

Please send a letter, within ten days, to confirm the United States Marine Corps intent to comply with the above requirements or to explain the reasons why not. You should direct the response and any questions to Bruce Reed at (919) 395-3900.

Sincerely,

RICK SHIVER

Rick Shiver, P.G.  
Acting Regional Supervisor

RSS/BAR/lfc

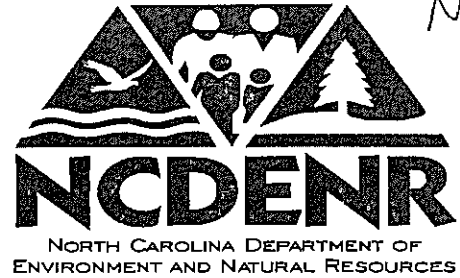
Enclosures

cc: Arthur Mouberry  
WiRO-GWS, PCB, CF

BRUCE\NEWRIVER.MAR  
03/18/93

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

James B. Hunt, Jr., Governor  
Bill Holman, Secretary



February 10, 2000

**CERTIFIED MAIL Z 407 745 330**  
**RETURN RECEIPT REQUESTED**

Ms. Nikki Hall  
Marine Corps Base  
ATTN: AC/S EMD/IRD  
PSC Box 20004  
Camp Lejeune, NC 28542-0004

RE: Notice of Regulatory Requirements  
15A NCAC 2L .0115(g)  
USMC-Camp Lejeune-Rapid Refueler  
Camp Lejeune, Onslow County  
Incident No. Pending  
Intermediate Risk Classification

Dear Ms. Hall:

The UST Section of the Division of Waste Management, Wilmington Regional Office has reviewed the Corrective Action Plan\*, which was received on July 8, 1998, for the above-referenced incident. The UST staff agree with both the plan and the schedule.

\*For purposes of this notice, corrective action plan means a plan that proposes to remediate groundwater contamination through an engineered treatment process, a monitoring plan that proposes to remediate groundwater contamination through natural processes, or a plan that proposes a combination of these remedies.

Based on the recommendation of UST Section staff, I hereby approve the plan and schedule. You may proceed with proposed activities. Please note that it is your responsibility to ensure that any waste generated during implementation of the plan is disposed of in accordance with all applicable county, state and federal laws.

Ms. Nikki Hall  
February 10, 2000  
Page 2

Also note that performing assessment and cleanup work that is not required under 15A NCAC 2L.0115 is not reimbursable from the Commercial or Noncommercial Leaking Petroleum Underground Storage Tank Cleanup Funds

Your prompt attention to the items described herein is required. Failure to comply with the State's rules in the manner and time specified, may result in the assessment of civil penalties and /or the use of other enforcement mechanisms available to the State. Each day that a violation continues may be considered a separate violation.

If you have any questions regarding the actions that must be taken or the rules mentioned in this letter, please contact Bruce Reed of the Wilmington Regional Office at the letterhead address and/or at (910) 395-3900. If you have any questions regarding trust fund eligibility or reimbursement, please contact the UST Section at (919) 733-8486.

Sincerely,



Patricia C. Coughlan  
UST Regional Supervisor

PC/BR

cc: Rob Krebs  
WiRO-UST

s:\ust\bruce\hallrrca.feb