



Post Office Box 10279
Wilmington, NC 28404-0279
Telephone: (910) 452-5861
Fax: (910) 452-7563

May 3, 2004

Commander
Naval Facilities Engineering Command
Atlantic Division
6506 Hampton Blvd., Bldg. A, Room 1124
Norfolk, VA 23508

Attention: EV23JC, Mr. John D. Conway, P. G.

Re: **FINAL** - Letter Report of Findings and Request for "No Further Action"
Building 24, #2 Fuel Oil UST
Marine Corps Base
Camp Lejeune, North Carolina
Navy Contract No. N62470-01-D-3009
Delivery Order No. 0102
CATLIN Project No. 203-117

Dear Mr. Conway:

The following letter report is submitted to document the recent sampling activities at the above referenced site. CATLIN Engineers and Scientists (CATLIN) was authorized to perform field activities and prepare this letter report by the LANTDIV NAVFACENGCOM in accordance with Order for Supplies Contract Number N62470-01-D-3009 and Delivery Order Number 0102. Based on the recent investigation, this site appears to qualify for "Low Risk" classification and "No Further Action" status.

Background and Purpose of Investigation

The site contained a 1,000-gallon diesel fuel underground storage tank (UST) providing fuel to a boiler within Building-24. The site location is shown on Figure 1. A *Tank Removal Report* was prepared by Environmental & Regulatory Consultants and submitted September 3, 1993. A *Phase I Limited Site Assessment and Recommendations for "No Further Action"* was prepared and submitted by Law Engineering and Environmental Services, Inc. on January 22, 2002. As a result of the Limited Site Assessment (LSA), no soil contamination was identified in excess of the lowest Maximum Soil Contaminant Concentrations (MSCCs). Bromodichloromethane, chloroform, and dibromochloromethane groundwater contamination in monitoring well UST24-MW01, however, was revealed in excess of the NCAC T15A:02L Groundwater Quality Standards (2L GWQS) but below the Gross Contaminant Levels (GCLs). Based on the levels of groundwater contamination identified in the LSA, the site was deemed eligible for "No Further Action" status with issuance of a Notice of Residual Petroleum or Land Use Restrictions.

The purpose of this investigation was to complete field work and reporting necessary for obtaining No Further Action status without Land Use Restriction. A groundwater sample was collected and analyzed for bromodichloromethane, chloroform, and dibromochloromethane from monitoring well UST24-MW01. The site plan and sample location is illustrated on Figure 2.

Field Methods

On March 1, 2004, CATLIN personnel gauged monitoring well UST24-MW01 for depth to water, three well volumes were purged from the well and a groundwater sample was collected. New disposable latex gloves were worn and the groundwater sample was poured directly into the appropriately labeled glassware. The groundwater sample was placed on ice in an insulated cooler and transported following chain-of-custody protocol to Paradigm Analytical Laboratories, Inc. in Wilmington, North Carolina (NC Certification Number 481) for bromodichloromethane, chloroform, and dibromochloromethane analysis per Environmental Protection Agency (EPA) Method 601. Chain-of-Custody documentation is included with the attached laboratory report.

Results

Bromodichloromethane, chloroform, and dibromochloromethane concentrations were not revealed above the 1.0 µg/L laboratory quantitation limit in the UST24-MW01 groundwater sample. Laboratory analytical results are attached.

Summary and Conclusions

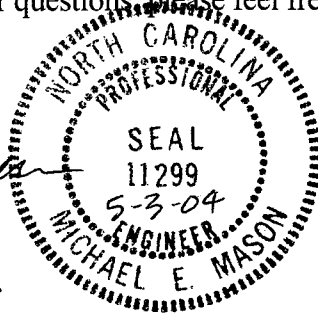
The bromodichloromethane, chloroform, and dibromochloromethane concentrations previously detected in groundwater samples collected from UST24-MW01 appear to have naturally attenuated below laboratory quantitation limits. The site should qualify for "Low Risk" classification and "No Further Action" status is recommended.

Should you have any further questions, please feel free to contact us at your convenience.

Sincerely,

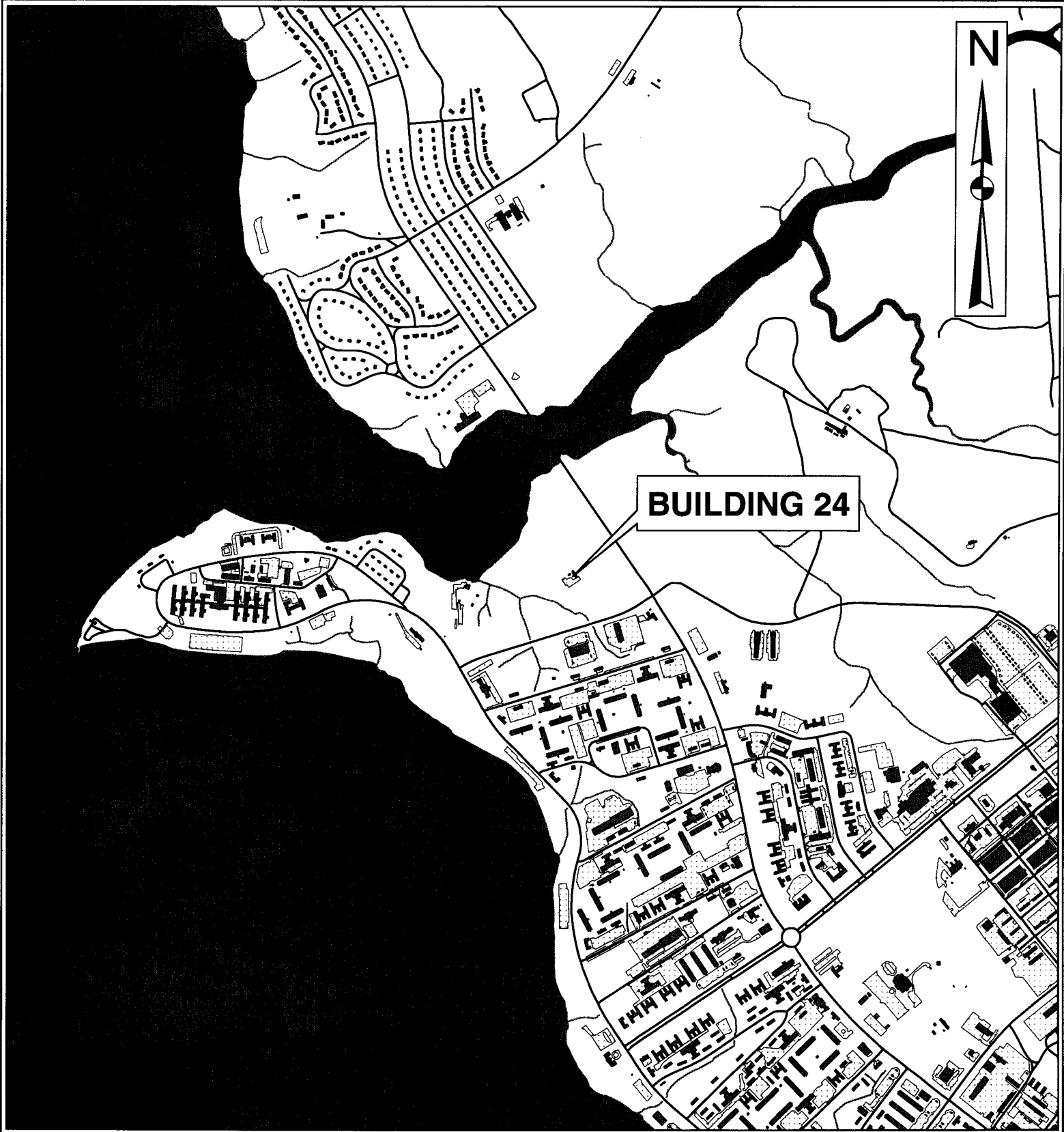


Michael E. Mason, P.E.
CATLIN Program Manager

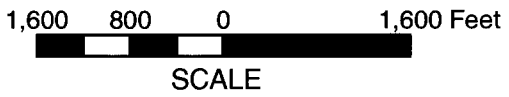


Attachments: Figures 1 and 2, laboratory analytical report

cc: Mr. Roger R. Marce, Jr. – Code AQ 135 Contracts, correspondence only
Commanding General, Attn: Director I&E, EMD, EQB



BUILDING 24



	PROJECT BUILDING 24 MARINE CORPS BASE CAMP LEJEUNE, NC	TITLE SITE VICINITY MAP	FIGURE 1
	JOB NO. 203-117 DATE MAR 2004	SCALE AS SHOWN DRAWN BY SAC CHECKED BY BA	

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles
by GC 601

Client Sample ID: UST24-MW01
Client Project ID: 7 funded site closures, Camp Lejeune
Lab Sample ID: G128-1268-1A
Lab Project ID: G128-1268

Analyzed By: DCS
Date Collected: 3/1/04
Date Received: 3/3/04
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.0	1	3/9/04
Chloroform	BQL	1.0	1	3/9/04
Dibromochloromethane	BQL	1.0	1	3/9/04
Surrogate Spike Recoveries		Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane		40	40.4	101

Comments:

All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: 

PARADIGM ANALYTICAL LABORATORIES, INC.

5500 Business Drive, Wilmington, NC 28405

Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 41594

Page 1 of 1

Client: Catlin Project ID: 7 funded site closures, Camp Lejeune Date: 3-3-04 Report To: Ben Ashka @ Catlin
 Address: 220 Old Dairy Rd. Contact: Ben Ashka Turnaround: Standard
 Address: Wilmington NC 28405 Phone: 910-452-5861 Job Number: 203-117
 Quote #: DOD 101 Fax: 910-452-7563 P.O. Number: 240115-1 Invoice To: Shelia @ Catlin

Sample ID	Date	Time	Matrix	Preservatives			Analyses				Comments: Please specify any special reporting requirements		
				HCl	Methanol	TPA 61	MADP EPH	MADP VPH	Date	Time		Temperature	
UST24-MW01	3-1	1:15P	GW	✓	✓	✓	✓	✓					← report only bromochloro methane, chloroform, dibromochloro methane
UST1323-MW01	3-1	11:56a	GW	✓	✓	✓	✓	✓					← report only bromochloro methane, chloroform, dibromochloro methane
UST1323-MW02	3-1	12:05	GW	✓	✓	✓	✓	✓					← report only chloroform
USTAS-605-MW01	3-2	10:45a	GW	✓	✓	✓	✓	✓					← report only bromochloro methane, chloroform, dibromochloro methane
UST31-SB05 (1-1-03)	3-2	2:45p	soil	✓	✓	✓	✓	✓					← report only chloroform
UST31-MW01	3-2	2:30p	GW	✓	✓	✓	✓	✓					
USTM167-MW01	3-2	12:55	GW	✓	✓	✓	✓	✓					
USTPP3363-SB02 (1-5-03)	3-2	1:50p	soil	✓	✓	✓	✓	✓					

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Tom Skat	3-3	12:45p	Jacques R. Rana	3/3/04	0850	outside	NC <input checked="" type="checkbox"/> SC <input type="checkbox"/> Other <input type="checkbox"/>

SEE REVERSE FOR TERMS AND CONDITIONS

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